

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2853311	Quote #:	Sales Order #: 8165945
Customer: WILLIAMS PRODUCTION RMT INC - EBUS	Customer Rep: Duniho, Al		
Well Name: RWF	Well #: 13-14	API/UWI #: 05-045-13812	
Field: Rulison	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.525 deg. OR N 39 deg. 31 min. 29.687 secs.	Long: W 107.861 deg. OR W -108 deg. 8 min. 19.046 secs.		
Contractor: CYCLONE 30	Rig/Platform Name/Num: CYCLONE 30		
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	6.5	439784	BRENNECKE, ANDREW Bailey	6.5	486345	CALDWELL, JEFFREY S	6.5	369111
CUNNINGHAM, TANNER Wade	6.5	445660	HAMMOND, DENNIS C	4.5	287025			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10565341	60 mile	10804567	60 mile	10829465	60 mile	11164590	60 mile
11360871	60 mile	11542767	60 mile				

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
5.27.2011	6.5	3						

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
Form Type	1172. ft	BHST	1172. ft	On Location	27 - May - 2011	03:45	MST
Job depth MD	1172. ft	Job Depth TVD	1172. ft	Job Started	27 - May - 2011	13:05	MST
Water Depth	4. ft	Wk Ht Above Floor	4. ft	Job Completed	27 - May - 2011	13:53	MST
Perforation Depth (MD)	From	To	Departed Loc	27 - May - 2011	15:00	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			9.625	13.5	32.3			.	1172.		
Surface Casing	Unknown		9.625	9.001	32.3		H-40	.	1156.6		

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		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
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

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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	Fresh Water Spacer		20.00	bbl	.	.0	.0	4	
2	VersaCem Lead	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.3	2.38	13.75	8	13.75
3	VersaCem Tail	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.76	8	11.76
11.76 Gal		FRESH WATER							
4	Displacement Fluid		87.00	bbl	8.34	.0	.0	9.5	

Calculated Values		Pressures		Volumes					
Displacement	87.3	Shut In: Instant		Lost Returns	0	Cement Slurry	127.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	28	Actual Displacement	87.3	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	235.2

Rates							
Circulating	RIG	Mixing	8	Displacement	9.5	Avg. Job	9
Cement Left In Pipe	Amount	46.6 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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Cementing Job Log

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Field: Rulison	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.525 deg. OR N 39 deg. 31 min. 29.687 secs.		Long: W 107.861 deg. OR W -108 deg. 8 min. 19.046 secs.	
Contractor: CYCLONE 30	Rig/Platform Name/Num: CYCLONE 30		
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: KOHL, KYLE	Srvc Supervisor: ARNOLD, EDWARD	MBU ID Emp #: 439784	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	05/27/2011 03:45							
Pre-Convoy Safety Meeting	05/27/2011 05:20							Including entire cement crew
Crew Leave Yard	05/27/2011 05:30							
Arrive At Loc	05/27/2011 07:15							Rig still pulling pipe. Started running casing at 930. Rig started circulating at 1230. Strokes 140 PSI 509 Gas 7.
Assessment Of Location Safety Meeting	05/27/2011 11:15							Water Test: Ph 7; KCL 250; S04 <200; Fe 0; Chlorides 0; Calcium 120; Temp 60; 660 TDS.
Pre-Rig Up Safety Meeting	05/27/2011 11:20							Including entire cement crew
Rig-Up Equipment	05/27/2011 11:30							1 Elite #; 1 660 bulk truck; 1 hard line from pump to floor; 1 line to uprights. 9.625" compact head; #0794
Rig-Up Completed	05/27/2011 12:00							
Pre-Job Safety Meeting	05/27/2011 12:45							Including everyone on location
Start Job	05/27/2011 13:05							TD 1172; TP 1156.64; SJ 46.6; OH 13 1/2; CASING 9 5/8 32.3#; MUD 10.3ppg;
Other	05/27/2011 13:06		2	2			50.0	Fill lines with fresh water.
Pressure Test	05/27/2011 13:07						2500.0	PSI test good, no leaks.

Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl	Pressure psig	Comments
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		#		Stage	Total	Tubing	Casing	
Pump Spacer 1	05/27/2011 13:11		4	20			120.0	20 BBL fresh water.
Pump Lead Cement	05/27/2011 13:17		8	67.8			330.0	160 SKs Lead cement, 12.3 ppg; 2.38 cf3; 13.75 gal/sk.
Pump Tail Cement	05/27/2011 13:27		8	60.1			220.0	160 SKs Tail cement, 12.8 ppg; 2.11 cf3; 11.76 gal/sk.
Shutdown	05/27/2011 13:35							
Drop Plug	05/27/2011 13:36							Plug left container.
Pump Displacement	05/27/2011 13:36		10	77.3			480.0	Fresh Water Displacement
Slow Rate	05/27/2011 13:45		2	10			280.0	Slow rate last ten BBLs
Bump Plug	05/27/2011 13:50				87.3		870.0	Bumped plug took 500 psi over.
Check Floats	05/27/2011 13:52							Floats held. 1/2 BBL back. 28 BBL Cement to surface.
End Job	05/27/2011 13:53							
Pre-Rig Down Safety Meeting	05/27/2011 14:00							Including entire cement crew.
Rig-Down Equipment	05/27/2011 14:10							
Rig-Down Completed	05/27/2011 14:45							
Pre-Convoy Safety Meeting	05/27/2011 14:50							Including entire cement crew.
Depart Location for Service Center or Other Site	05/27/2011 15:00							
Other	05/27/2011 15:01							Thank You for using Halliburton. Ed Arnold and crew.

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Ship To # :2853311

Quote # :

Sales Order # :

8165945

SUMMIT Version: 7.20.130

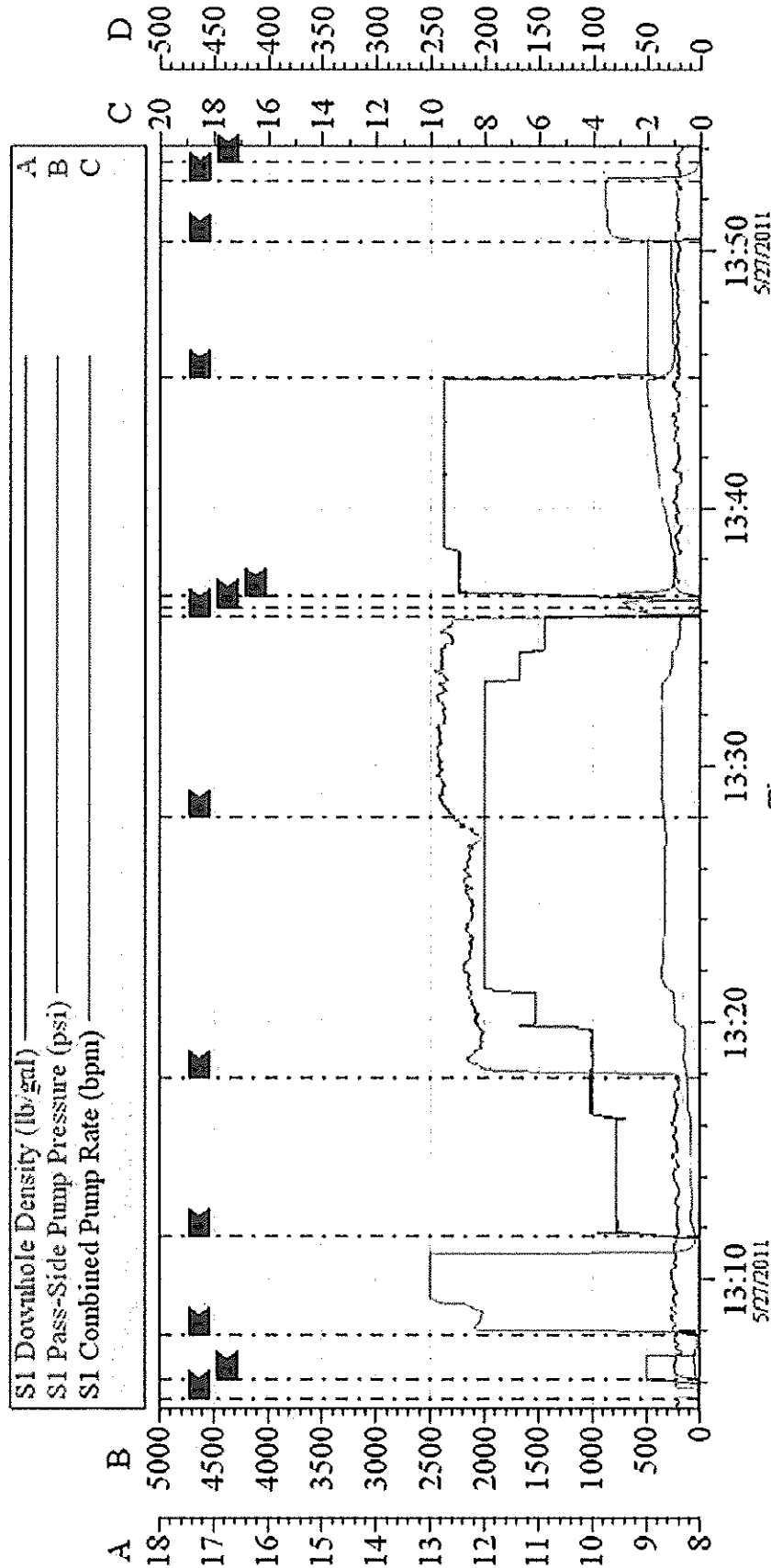
Sunday, May 29, 2011 11:03:00

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job					
4	FILL LINES	2				
6	Test Lines	2500.0				
9	H2O Spacer	20.0				
13	LEAD CEMENT	67.8	160	12.3	2.38	13.75
15	TAIL CEMENT	60.1	160	12.8	2.11	11.76
11	SHUTDOWN					
32	DROP TOP PLUG					
25	DISPLACEMENT	87.4				
1085	SLOW RATE	77.4		2 BBL/MIN		
26	LAND PLUG	244.0				
511	CHECK FLOATS	744.0				
2	END JOB		Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH	FLOAT COLLAR	BBL/FT	H2O REQ.	
87.36	1156.64	46.60	1110.04	0.0787	255	
		<u>9 5/8 SURFACE</u>				
PSI to Lift	432.00					
CALCULATED PSI LAND		244	TOTAL FLUID PUMPED		237	
Collapse	1400	Burst	2720		SO#	8165945

WILLIAMS

9 5/8 Surface

RWF 13-14



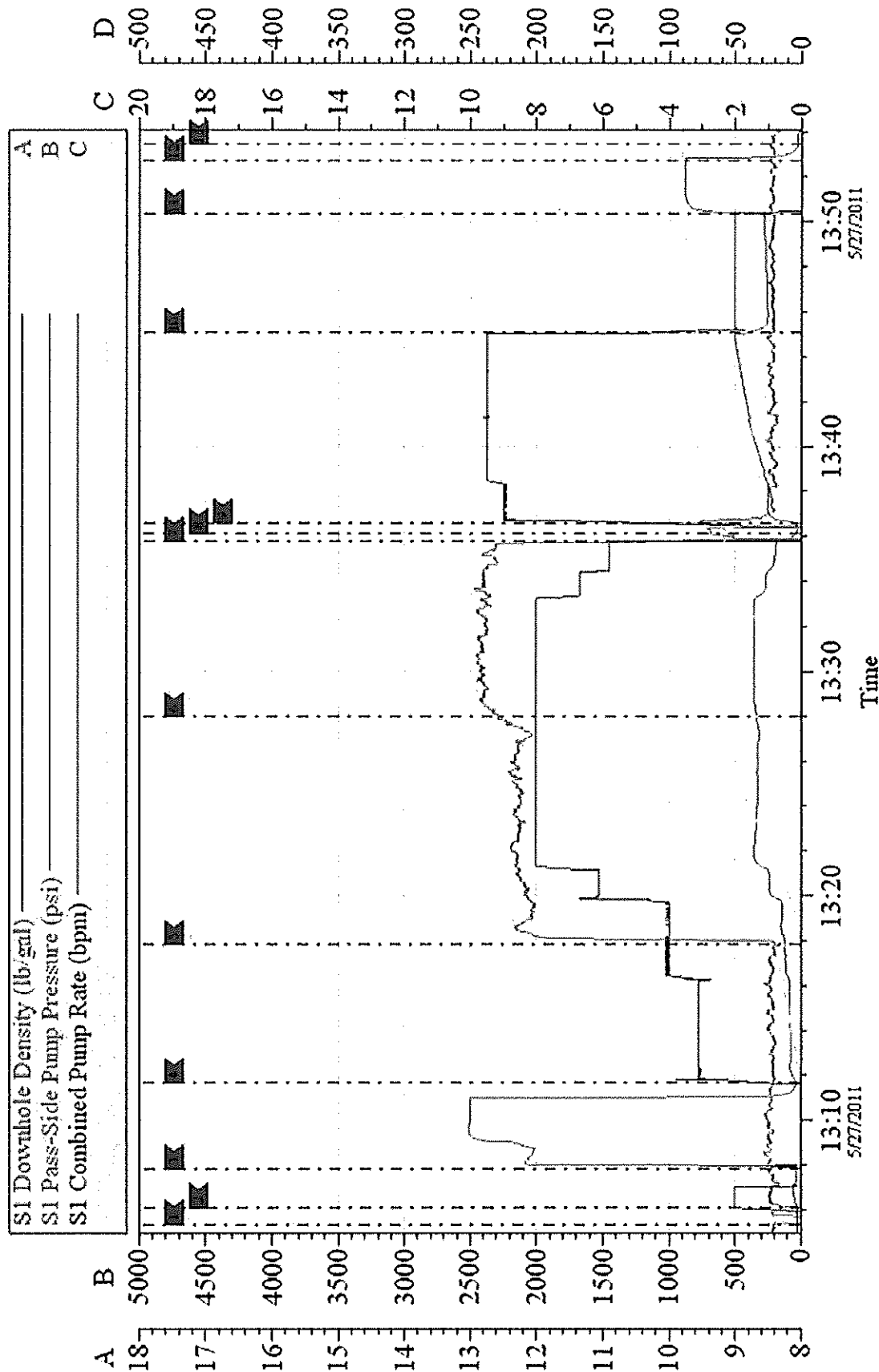
Customer: Williams	Job Date: 27-May-2011	Sales Order #: 8165945
Well Description: RWF 13-14	Job Type: 9 5/8 Surface	ADC Used: Yes
Company Rep: Al Dunahoo	Cement Supervisor: Ed Arnold	Elite #1: Tanner Cunningham

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27-May-11 13:56

WILLIAMS

9 5/8 Surface

RWF 13-14



Customer: Williams	Job Date: 27-May-2011	Sales Order # 8165945
Well Description: RWF 13-14	Job Type: 9 5/8 Surface	ADC Used: Yes
Company Rep: Al Durahoo	Cement Supervisor: Ed Arnold	Elite #1: Tanner Cunningham

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27-May-11 13:56