

HALLIBURTON

WILLIAMS PRODUCTION RMT INC - EBUS

**GM 512-27
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing
07-May-2011

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2850916	Quote #:	Sales Order #: 8133967
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Customer Rep: Geary, Scott	
Well Name: GM	Well #: 512-27	API/UWI #: 05-045-19745	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.491 deg. OR N 39 deg. 29 min. 27.906 secs.		Long: W 108.095 deg. OR W -109 deg. 54 min. 17.197 secs.	
Contractor:	Rig/Platform Name/Num: H&P 278		
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: KOHL, KYLE		Srv Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BATH, KYLE Thomas		477632	CARTER, ERIC Earl		345598	RAMSEY, DANIEL Thomas		488923
SALAZAR, PAUL Omar		445614	SMITH, CHRISTOPHER Scott		452619			

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	10951251	60 mile
10998508	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name							Date	Time	Time Zone	
Formation Depth (MD)		Top	Bottom			Called Out	07 - May - 2011	12:30	MST	
Form Type		BHST				On Location	07 - May - 2011	16:30	MST	
Job depth MD		1289. ft		Job Depth TVD		1289. ft	Job Started	07 - May - 2011	19:50	MST
Water Depth				Wk Ht Above Floor		4. ft	Job Completed	07 - May - 2011	20:42	MST
Perforation Depth (MD)		From			To		Departed Loc	07 - May - 2011	21:55	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
13.25" OPEN HOLE				13.25				.	1300.		
9.625" SURFACE CASEING	Unknown		9.625	9.001	32.3		H-40	.	1289.		

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			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
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 ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer		20.00	bbl	8.33	.0	.0	.0	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.3	2.38	13.75		13.75
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75		11.75
4	Displacement Fluid		98.00	bbl	8.34	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe		Amount	44 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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Well Name: GM			Well #: 512-27		API/UWI #: 05-045-19745		
Field: GRAND VALLEY		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Legal Description:							
Lat: N 39.491 deg. OR N 39 deg. 29 min. 27.906 secs.				Long: W 108.095 deg. OR W -109 deg. 54 min. 17.197 secs.			
Contractor:			Rig/Platform Name/Num: H&P 278				
Job Purpose: Cement Surface Casing					Ticket Amount:		
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: KOHL, KYLE			Srv Supervisor: SMITH, CHRISTOPHER			MBU ID Emp #: 452619	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Convoy Safety Meeting	05/07/2011 14:00							ALL HES PERSONEL
Crew Leave Yard	05/07/2011 14:30							
Arrive At Loc	05/07/2011 16:30							RIG RUNNING CASEING.
Assessment Of Location Safety Meeting	05/07/2011 16:45							ALL HES PERSONEL
Rig-Up Equipment	05/07/2011 19:30							
Pre-Job Safety Meeting	05/07/2011 19:40							ALL HES PERSONEL AND RIG CREW
Start Job	05/07/2011 19:50							TD 1300', TP 1289', SJ 44', OH 13.25", CSG 9.625" 32.3# H40 , MUD 10 PPG.
Other	05/07/2011 19:51		2	2			66.0	FILL LINES
Pressure Test	05/07/2011 19:53		0.5	0.5				ALL LINES HELD PRESSURE @ 2120 PSI
Pump Spacer 1	05/07/2011 19:56		6	20			300.0	FRESH WATER
Pump Lead Cement	05/07/2011 20:02		8	67.8			360.0	160 SKS, 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK, SET UP TIME 2:53 @ 70 BC.
Pump Tail Cement	05/07/2011 20:12		8	60			370.0	160 SKS, 12.8 PPG, 2.11 FT3/ SK, 11.75 GAL/SK, SET UP TIME 2:22 @ 70 BC
Shutdown	05/07/2011 20:20							
Drop Top Plug	05/07/2011 20:26							

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Quote # :

Sales Order # : 8133967

SUMMIT Version: 7.20.130

Thursday, May 12, 2011 01:48:00

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	05/07/2011 20:26		10	87.9			590.0	FRESH WATER
Slow Rate	05/07/2011 20:37		2	10			350.0	
Bump Plug	05/07/2011 20:40						880.0	PLUG BUMPED
Check Floats	05/07/2011 20:42							FLOATS HELD
End Job	05/07/2011 20:43							GOOD CIRCULATION THROUGHOUT JOB, 10 BBLs OF CEMENT TO SURFACE, PIPE WAS MOVED DURING THE JOB.
Post-Job Safety Meeting (Pre Rig-Down)	05/07/2011 20:55							ALL HES PERSONEL
Rig-Down Completed	05/07/2011 21:30							
Depart Location Safety Meeting	05/07/2011 21:45							ALL HES PERSONEL
Crew Leave Location	05/07/2011 21:55							
Other	05/07/2011 21:56							THANK YOU FOR CHOOSING HALLIBURTON, CHRIS SMITH AND CREW

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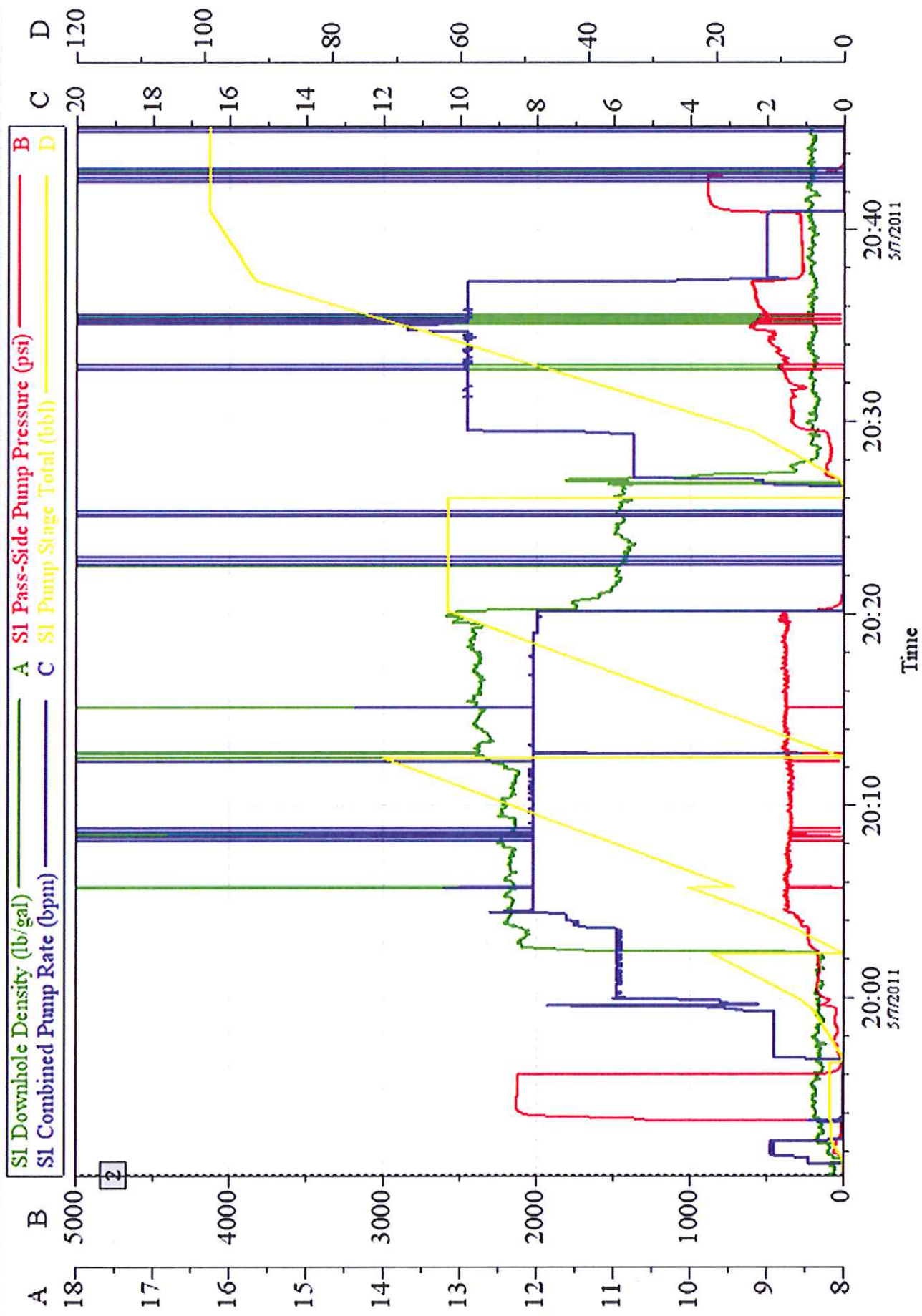
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Quote # :

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Customer: WILLIAMS PRODUCTION RMT INC - EBUS Well Description: GM 512-27	Job Date: 07-May-2011 UWI: 05-045-19745	Sales Order #: 8133967	OptiCem v6.4.10 12-May-11 13:45
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Sales Order #: 8133967	Line Item: 10	Survey Conducted Date: 5/7/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: SCOTT GEARY		API / UWI: (leave blank if unknown) 05-045-19745
Well Name: GM		Well Number: 512-27
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

CUSTOMER SATISFACTION SURVEY

CATEGORY	CUSTOMER SATISFACTION RESPONSE	
Survey Conducted Date	The date the survey was conducted	5/7/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER SMITH (HB20137)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	SCOTT GEARY
HSE	Was our HSE performance satisfactory? Circle Y or N	Yes
Equipment	Were you satisfied with our Equipment? Circle Y or N	Yes
Personnel	Were you satisfied with our people? Circle Y or N	Yes
Customer Comment	Customer's Comment	GREAT JOB
Job DVA	Did we provide job DVA above our normal service today? Circle Y or N	No
Time	Please enter hours in decimal format to nearest quarter hour.	
Other	Enter short text for other efficiencies gained.	
Customer Initials	Customer's Initials	
Please provide details	Please describe how the job efficiencies were gained.	

CUSTOMER SIGNATURE

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Customer Representative: SCOTT GEARY		API / UWI: (leave blank if unknown) 05-045-19745
Well Name: GM		Well Number: 512-27
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	5/7/2011

Cementing KPI Survey	
Type of Job Select the type of job. (Cementing or Non-Cementing)	0
Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	1.5
HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only.	No
Was the job purpose achieved? Was the job delivered correctly as per customer agreed design?	Yes
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format.	1
Customer Non-Productive Rig Time (hrs) Lost time due to Halliburton in the start, execution, or completion of an ordered service or product, or delays in a follow-on service. Enter in decimal format. 0 if none.	0
Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
Number Of JSAs Performed Number Of Jsas Performed	7
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Was this a Primary Cement Job (Yes / No)	Yes

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Customer Representative: SCOTT GEARY		API / UWI: (leave blank if unknown) 05-045-19745
Well Name: GM		Well Number: 512-27
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Did We Run Wiper Plugs?	Top
Did We Run Top And Bottom Casing Wiper Plugs?	
Mixing Density of Job Stayed in Designed Density Range (0-100%)	97
Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	
Was Automated Density Control Used?	Yes
Was Automated Density Control (ADC) Used ?	
Pump Rate (percent) of Job Stayed At Designed Pump Rate	96
Pump Rate range defined as +/- 1bbl/min. Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped, multiplied by 100	
Nbr of Remedial Sqz Jobs Rqd - Competition	0
Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	
Nbr of Remedial Plug Jobs Rqd - HES	0
Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	
Nbr of Remedial Sqz Jobs Rqd - HES	0
Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	