

**HALLIBURTON**

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**WILLIAMS PRODUCTION RMT INC - EBUS**

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**GM 512-23  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing**

**23-Jul-2011**

**Post Job Surface PJR**



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		20.00	bbl	8.34	.0	.0	.0	
2	Tail Cement	VERSACEM (TM) SYSTEM (452010)	250.0	sacks	12.8	2.11	11.75		11.75
3	Displacement Fluid		72.00	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	38.4 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					

*The Road to Excellence Starts with Safety*

Sold To #: 300721	Ship To #: 2865864	Quote #:	Sales Order #: 8321371
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Customer Rep: Hartl, Al	
Well Name: GM	Well #: 512-23	API/UWI #: 05-045-20464	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
<b>Legal Description:</b>			
Lat: N 39.506 deg. OR N 39 deg. 30 min. 22.619 secs.		Long: W 108.083 deg. OR W -109 deg. 55 min. 0.548 secs.	
Contractor: NABORS 576		Rig/Platform Name/Num: NABORS 576	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: KOHL, KYLE		Srvc Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Other Job or Site	07/23/2011 18:00							RIG RUNNING CASEING.
Assessment Of Location Safety Meeting	07/23/2011 19:00							ALL HES PERSONEL
Rig-Up Equipment	07/23/2011 19:16							
Pre-Job Safety Meeting	07/23/2011 20:50							ALL HES PERSONEL AND RIG CREW
Start Job	07/23/2011 21:05							TD 980', TP 962.14", SJ 38.4', OH 14.75", CSG 9.625" 32.3 # H 40 , MUD 10.1 PPG.
Other	07/23/2011 21:06		2	2			25.0	FILL LINES, USED 6X5 TO FILL LINES
Pressure Test	07/23/2011 21:11		0.5	0.5				LOW PSI TEST, ALL LINES HELD 1240 PSI
Pressure Test	07/23/2011 21:12		0.5	0.5				HIGH PSI TEST, ALL LINES HELD 3011 PSI
Pump Spacer 1	07/23/2011 21:16		4	20			100.0	FRESH WATER
Pump Tail Cement	07/23/2011 21:23		8	93.9			360.0	250 SKS, 12.8 PPG, 2.11 FT3/ SK, 11.75 GAL/SK, SET UP TIME 2:22 @ 70 BC
Shutdown	07/23/2011 21:36							WASH UP ON TOP OF PLUG, PER COMP REP.
Drop Top Plug	07/23/2011 21:38							PLUG WENT
Pump Displacement	07/23/2011 21:39		10	62.7			535.0	FRESH WATER
Slow Rate	07/23/2011 21:48		2	10			240.0	
Bump Plug	07/23/2011 21:51						875.0	PLUG BUMPED

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8321371

SUMMIT Version: 7.20.130

Saturday, July 23, 2011 10:17:00

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Check Floats	07/23/2011 21:53							FLOATS HELD
End Job	07/23/2011 21:53							GOOD CIRCULATION THROUGHOUT JOB, 10 BBLS OF CEMENT TO SURFACE, PIPE WAS NOT MOVED DURRING THE JOB.
Post-Job Safety Meeting (Pre Rig-Down)	07/23/2011 21:55							ALL HES PERSONEL
Rig-Down Completed	07/23/2011 22:45							
Depart Location Safety Meeting	07/23/2011 22:55							ALL HES PERSONEL
Crew Leave Location	07/23/2011 23:00							
Other	07/23/2011 23:00							THANK YOU FOR CHOOSING HALLIBURTON, CHRIS SMITH AND CREW