

**HALLIBURTON**

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

GM  
GM 44-31

**H&P 278/H&P/278**

## **Post Job Summary Cement Surface Casing**

Prepared for:  
Date Prepared:  
Version: 1

Service Supervisor: SMITH, DUSTIN

Submitted by:

**HALLIBURTON**

# HALLIBURTON

## Cementing Job Summary

*The Road to Excellence Starts with Safety*

The Road to Excellence Starts With Safety

Sold To #: 300721	Ship To #: 2820529	Quote #:	Sales Order #: 7784475
Customer: WILLIAMS PRODUCTION RMT INC EBUSINE		Customer Rep: Oaks, Rick	
Well Name: GM		Well #: 44-31	API/UWI #: 05-045-19434
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.479 deg. OR N 39 deg. 28 min. 45.52 secs.		Long: W 108.147 deg. OR W -109 deg. 51 min. 9.331 secs.	
Contractor: H&P 278		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, DUSTIN	MBU ID Emp #: 418015

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BRUN, JUSTIN M	8	459269	HOEFER, FREEMAN Dennis	8	369666	NICKLE, RYAN	8	454759
SMITH, DUSTIN Michael	8	418015	WOLFE, JON	8	485217			

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10296152C	60 mile	10533645	60 mile	10897797	60 mile	10951248	60 mile
11139328	60 mile						

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12/07/10	8	3.5						

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

### Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To
				BHST	1138. ft	1126.3 ft				
						5. ft				

### 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
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### 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		

### 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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
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# HALLIBURTON

## Cementing Job Summary

1	Water Spacer		20.00	bbl	8.4	.0	.0	6.0	
2	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	315.0	sacks	12.8	2.11	11.76	7.0	11.76
	0.333 Gal	FRESH WATER							
3	Displacement Fluid		85.00	bbl	8.4	.0	.0	10.0	
Calculated Values		Pressures		Volumes					
Displacement	85.1	Shut In: Instant		Lost Returns	0	Cement Slurry	118.4	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement	85.1	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	223.5
Rates									
Circulating		Mixing	7	Displacement	10	Avg. Job			8
Cement Left In Pipe	Amount	45.04 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					

# HALLIBURTON

## Cementing Job Log

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Job Purpose: Cement Surface Casing	Ticket Amount:		
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: KOHL, KYLE	Srv Supervisor: SMITH, DUSTIN	MBU ID Emp #: 418015	

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/07/2010 00:00							ELITE # 9
Depart Yard Safety Meeting	12/07/2010 02:30							ALL HES EMPLOYEES
Arrive At Loc	12/07/2010 04:00							ARRIVED ON LOCATION 1 HOUR EARLY DIDNT START CHARGING TIME UNTIL REQUESTED ON LOCATION TIME
Assessment Of Location Safety Meeting	12/07/2010 04:30							ALL HES EMPLOYEES
Pre-Rig Up Safety Meeting	12/07/2010 04:45							ALL HES EMPLOYEES
Rig-Up Equipment	12/07/2010 05:00							1 F-450 PICKUP 1 HT- 400 PUMP TRUCK 1 660 BULK TRUCK
Pre-Job Safety Meeting	12/07/2010 07:40							ALL HES EMPLOYEES AND RIG CREW
Rig-Up Completed	12/07/2010 08:15							RIG CIRCULATED FOR 1 HOUR PRIOR TO JOB PIPE RECIPROCATED DURING CIRCULATION MUD: PV:35 YP: 34 TEMP: 81
Start Job	12/07/2010 08:16							TD: 1138 TP: 1126.28 SJ: 45.04 MUD WT: 9.1 9 5/8 32.3# CSG 13 1/2 OH
Test Lines	12/07/2010 08:16					4790. 0		PRESSURE TEST OK
Pump Spacer	12/07/2010 08:20		6	10	10		245.0	FRESH WATER
Pump Tail Cement	12/07/2010 08:29		8	118.4	118.4		300.0	315 SKS 12.8 PPG 2.11 YIELD 11.75 GAL/SK

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Quote #:

Sales Order #: 7784475

SUMMIT Version: 7.20.130

Tuesday, December 07, 2010 09:47:00

# HALLIBURTON

## Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	12/07/2010 08:46							
Drop Plug	12/07/2010 08:46							PLUG AWAY NO PROBLEMS
Pump Displacement	12/07/2010 08:53		10	85.1	85.1		600.0	FRESH WATER
Slow Rate	12/07/2010 09:01		2	75.1	75.1		340.0	
Bump Plug	12/07/2010 09:05		2	85.1	85.1		880.0	20 BBLS CEMENT TO SURFACE
Check Floats	12/07/2010 09:08							FLOATS HELD
End Job	12/07/2010 09:08							GOOD CIRCULATION THROUGHOUT JOB NO PIPE MOVEMENT DURING JOB
Pre-Rig Down Safety Meeting	12/07/2010 09:30							ALL HES EMPLOYEES
Rig-Down Equipment	12/07/2010 10:00							
Pre-Convoy Safety Meeting	12/07/2010 11:30							ALL HES EMPLOYEES
Crew Leave Location	12/07/2010 12:00							THANK YOU FOR USING HALLIBURTON CEMENT DUSTIN SMITH AND CREW

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Quote # :

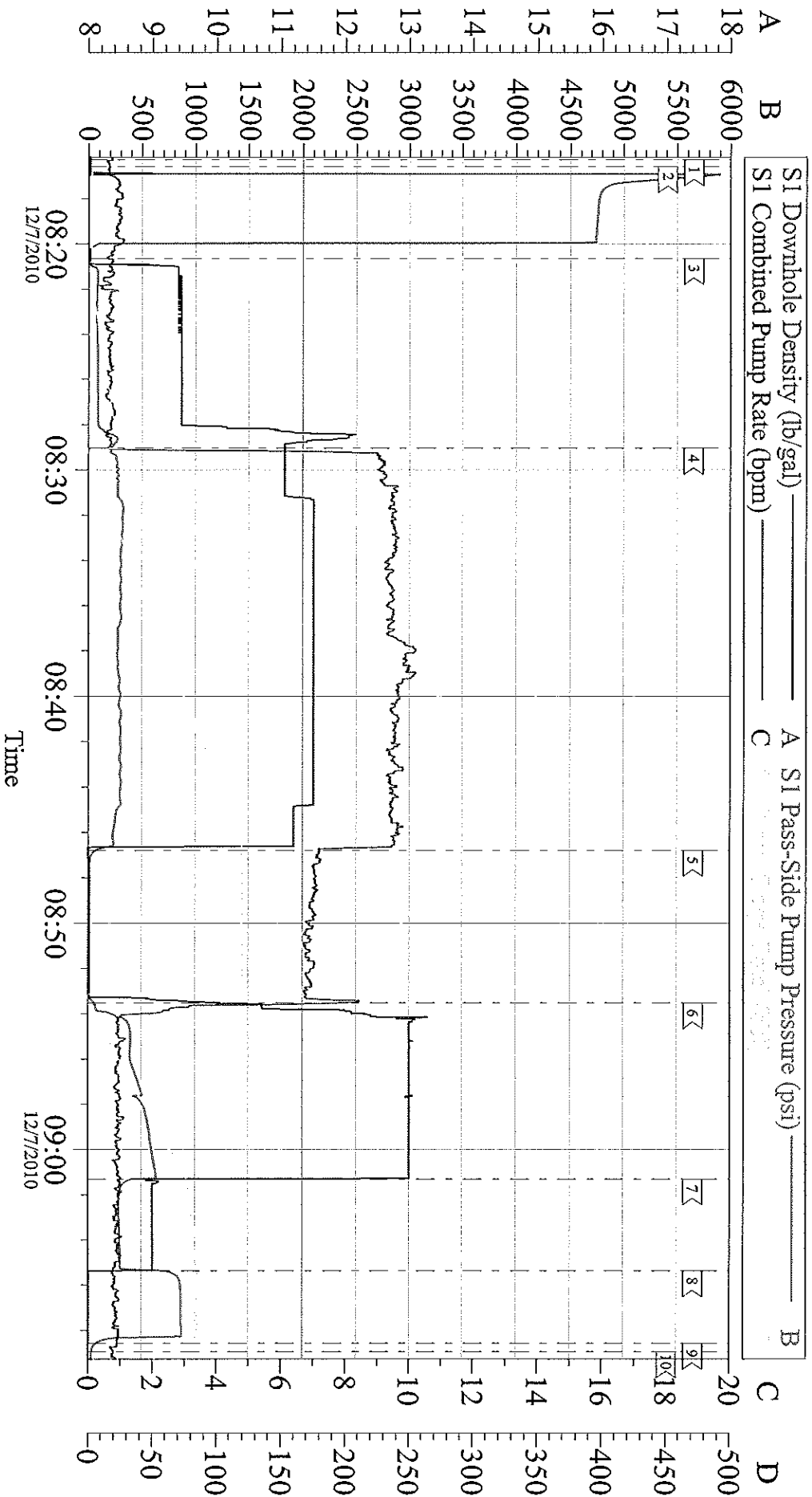
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Tuesday, December 07, 2010 09:47:00

# WILLIAMS PRODUCTION

## GM 44-31 9 5/8 SURFACE



Local Event Log			
1 START JOB	2 TEST LINES	3 PUMP SPACER	08:20:39
4 PUMP TAIL CEMENT	5 SHUTDOWN/ DROP PLUG	6 PUMP DISPLACEMENT	08:53:31
7 SLOW RATE	8 BUMP PLUG	9 CHECK FLOATS	09:08:34
10 END JOB			

Customer: WILLIAMS PRODUCTION	Job Date: 07-Dec-2010	Sales Order #: 7784475
Well Description: GM 44-31	Job Type: 9 5/8 SURFACE	ADC Used: YES
Company Rep: RICK OAKS	Cement Supervisor: DUSTIN SMITH	Elite #: 9 DENNIS HOEFER