
WILLIAMS PRODUCTION RMT INC - EBUS

**SP 431-14
PARACHUTE
Garfield County , Colorado**

Cement Surface Casing

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2891550	Quote #:	Sales Order #: 8490153
Customer: WILLIAMS PRODUCTION RMT INC - EBUS	Customer Rep: SCHULTS, MIKE		
Well Name: SP	Well #: 431-14	API/UWI #:	05-045-19704
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.438 deg. OR N 39 deg. 26 min. 17.282 secs.		Long: W 107.965 deg. OR W -108 deg. 2 min. 5.647 secs.	
Contractor: H&P 271	Rig/Platform Name/Num: H&P 271		
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: KOHL, KYLE	Srv Supervisor: ROSS, CHARLES	MBU ID Emp #:	453128

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/20/2011 11:30							
Pre-Convoy Safety Meeting	11/20/2011 14:50							WITH ALL HES EE'S
Depart from Service Center or Other Site	11/20/2011 15:00							
Arrive at Location from Service Center	11/20/2011 17:23							
Assessment Of Location Safety Meeting	11/20/2011 17:43							WITH ALL HES EE'S
Pre-Rig Up Safety Meeting	11/20/2011 17:53							WITH ALL HES EE'S
Rig-Up Equipment	11/20/2011 18:00							1-F550 PICKUP, 1- ELITE PUMP TRUCK, 2- 660 CEMENT BULK TRUCKS, 1-HARD LINE TO RIG AND WASH UP OUT TO THE CELLAR FROM MANIFOLD, 1- 9 5/8" PLUG CONTAINER.
Pre-Job Safety Meeting	11/20/2011 19:24							WITH ALL HES EE'S AND RIG CREW
Start Job	11/20/2011 19:38							TD 2418, 9 5/8 32.3# CASING SET @ 2403, SJ 44.0, FC 2359 MW# 9.8, RIG CIRCULATED 1 HR PRIOR TO CEMENT JOB, HEAD AND CASING CHAINED DOWN BECAUSE OF PSI TO LIFT
Pump Water	11/20/2011 19:38		2	2			24.0	FILL LINES, FRESH WATER
Test Lines	11/20/2011 19:40							TEST TO 3000 PSI

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	11/20/2011 19:49		4	20			96.0	FRESH WATER
Pump Lead Cement	11/20/2011 19:54		7	190.7			250.0	450 SKS OF VERSACEM PUMPED @ 12.3 PPG, YIELD 2.38, WATER 13.75
Pump Tail Cement	11/20/2011 20:26		7	60.1			245.0	160 SKS OF VERSACEM PUMPED @ 12.8 PPG, YIELD 2.11, WATER 11.75
Shutdown	11/20/2011 20:38							
Drop Plug	11/20/2011 20:47							TOP PLUG, PLUG WENT
Pump Displacement	11/20/2011 20:47		10	75			610.0	FRESH WATER
Slow Rate	11/20/2011 21:11		2	10.7			330.0	RATE SLOWED 10 BBL PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	11/20/2011 21:14		2		185.7		340.0	PLUG LANDED. PRESSURED UP TO 755 PSI.
Check Floats	11/20/2011 21:16							FLOATS HELD
End Job	11/20/2011 21:17							NO RETURNS UNTIL 40 BBL PUMPED, THEN GOOD RETURNS UNTIL SHUT DOWN. NO RETURNS ON DISPLACEMENT UNTIL 75 BBL PUMPED. LOST RETURNS AT 125 BBL PUMPED. NO MOVEMENT OF PIPE THROUGHOUT JOB.
Post-Job Safety Meeting (Pre Rig-Down)	11/20/2011 21:20							WITH ALL HES EE'S
Rig-Down Equipment	11/20/2011 21:25							WAITING ON TOP OUT INFORMATION FROM CO REP.
Comment	11/20/2011 23:38							INFORMED THAT WE WILL NOT BE DOING THE TOP OUT AT THIS TIME.
Pre-Convoy Safety Meeting	11/21/2011 00:15							WITH ALL HES EE'S
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

Cementing Job Log

		#		Stage	Total	Tubing	Casing	
Depart Location for Service Center or Other Site	11/21/2011 00:20							THANKS FOR USING GRAND JUNCTION HALLIBURTON CEMENT DEPARTMENT, CHUCK ROSS AND CREW

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2891550	Quote #:	Sales Order #: 8490153
Customer: WILLIAMS PRODUCTION RMT INC - EBUS	Customer Rep: SCHULTS, MIKE		
Well Name: SP	Well #: 431-14	API/UWI #: 05-045-19704	
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.438 deg. OR N 39 deg. 26 min. 17.282 secs.	Long: W 107.965 deg. OR W -108 deg. 2 min. 5.647 secs.		
Contractor: H&P 271	Rig/Platform Name/Num: H&P 271		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: KOHL, KYLE	Srv Supervisor: ROSS, CHARLES	MBU ID Emp #: 453128	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BATH, KYLE Thomas		477632	BECK, MICHAEL George		489151	ROMKEE, DALE Alan		488215
ROSS, CHARLES Raymond		453128						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10722398	60 mile	10867531	60 mile	10989685	60 mile	11139330	60 mile
11259881	60 mile	11560046	60 mile	11562538	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	20 - Nov - 2011	11:30	MST
Form Type				BHST		On Location	20 - Nov - 2011	17:23	MST
Job depth MD	2418. ft			Job Depth TVD	2418. ft	Job Started	20 - Nov - 2011	19:38	MST
Water Depth				Wk Ht Above Floor	5.5 ft	Job Completed	20 - Nov - 2011	21:14	MST
Perforation Depth (MD)	From			To		Departed Loc	21 - Nov - 2011	00:20	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 1/2" OPEN HOLE				13.5				.	2418.		
9 5/8" SURFACE CASING	Unknown		9.625	9.001	32.3			.	2403.		

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			

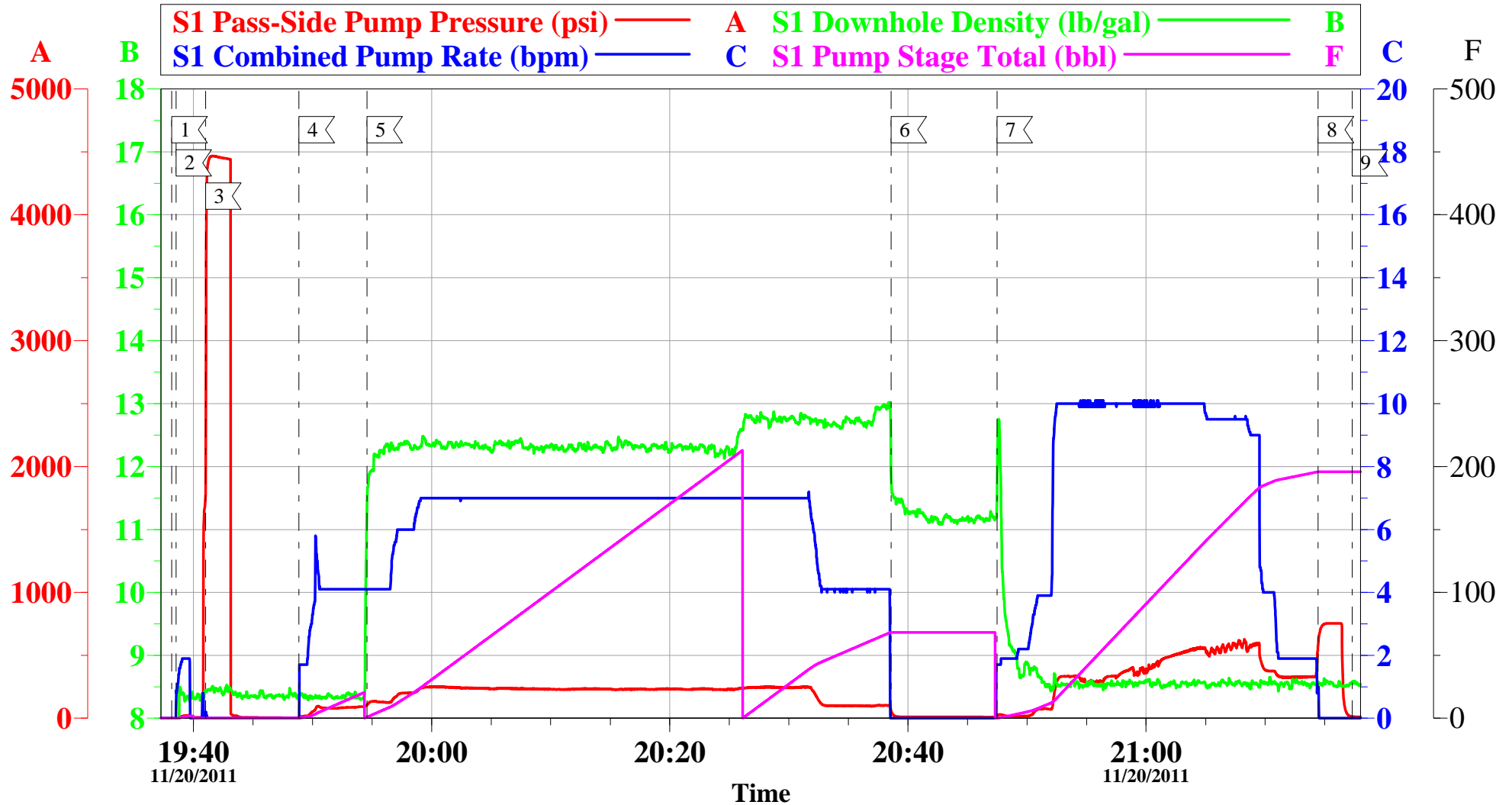
Miscellaneous Materials

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	8.34	.0	.0	.0		
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	450.0	sacks	12.3	2.38	13.75		13.75	
		13.75 Gal FRESH WATER								
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75		11.75	
		11.75 Gal FRESH WATER								
4	Displacement Fluid		185.00	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						

Williams - SP 431-14

Surface



Local Event Log

1 START JOB	19:38:11	2 FILL LINES	19:38:32	3 PRESSURE TEST	19:41:01
4 PUMP SPACER	19:48:51	5 PUMP CEMENT	19:54:34	6 SHUT DOWN	20:38:35
7 PUMP DISPLACEMENT	20:47:29	8 BUMP PLUG / SHUT DOWN	21:14:27	9 END JOB	21:17:18

Customer: Williams
Well Description: SP 431-14
Customer Rep: Mike Schultz

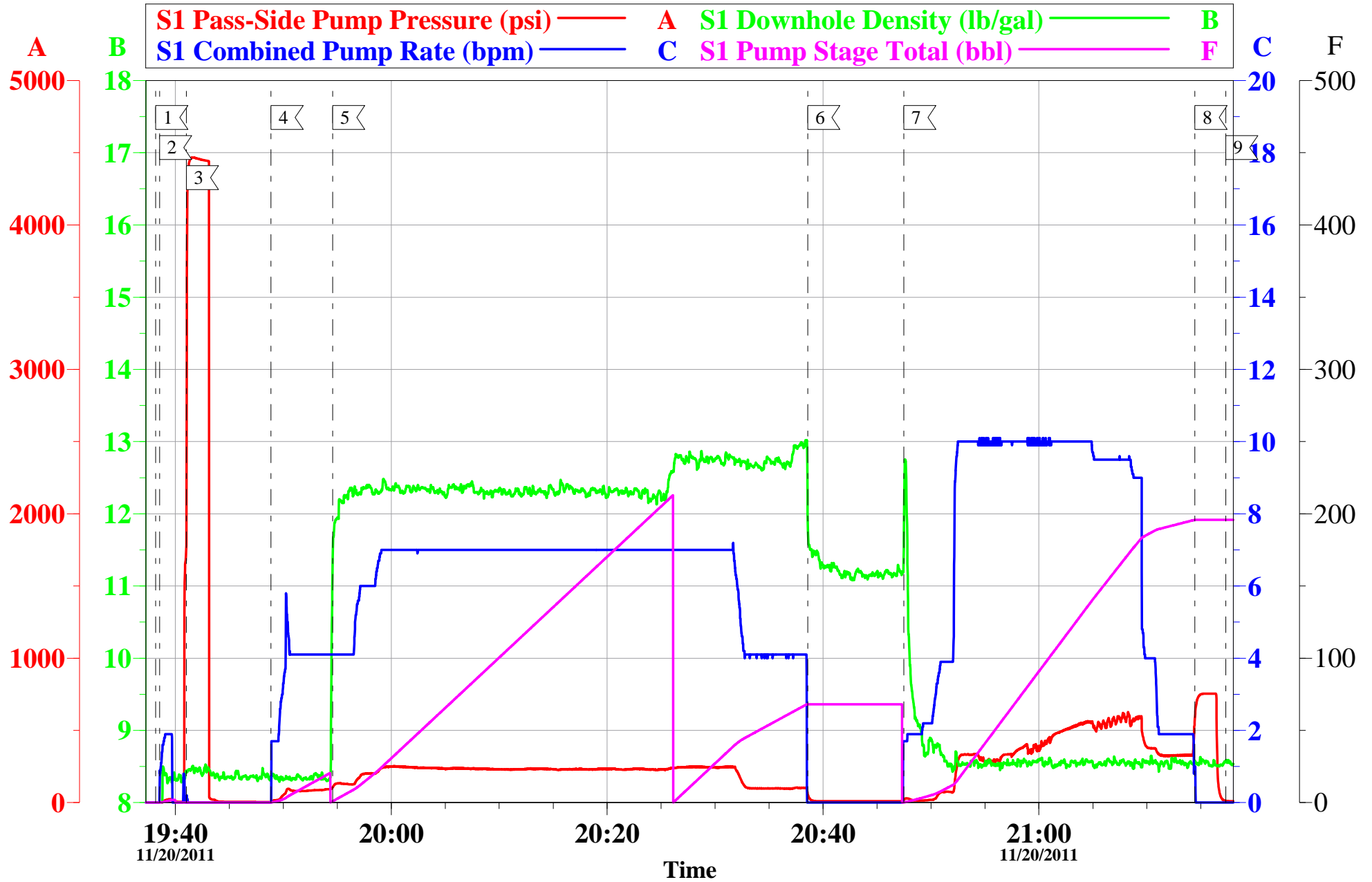
Job Date: 20-Nov-2011
Job type: Surface
Service Supervisor: Chuck Ross

Sales Order #: 8490153
ADC Used: Yes
Operator/ Pump: Mike Beck

OptiCem v6.4.10
20-Nov-11 21:32

Williams - SP 431-14

Surface



Customer: Williams	Job Date: 20-Nov-2011	Sales Order #: 8490153
Well Description: SP 431-14	Job type: Surface	ADC Used: Yes
Customer Rep: Mike Schultz	Service Supervisor: Chuck Ross	Operator/ Pump: Mike Beck

OptiCem v6.4.10
20-Nov-11 21:32

HALLIBURTON

Water Analysis Report

Company: WILLIAMS

Submitted by: CHUCK ROSS

Attention: JON TROUT

Lease SP

Well # 431-14

Date: 11/20/2011

Date Rec.: 11/20/2011

S.O.# 8490153

Job Type: 9 5/8" SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	8
Potassium (K)	<i>5000</i>	300 Mg / L
Calcium (Ca)	<i>500</i>	Mg / L
Iron (FE2)	<i>300</i>	15 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	300 Mg / L
Chlorine (Cl ₂)		NA Mg / L
Temp	<i>40-80</i>	48 Deg
Total Dissolved Solids		490 Mg / L

Respectfully: CHUCK ROSS

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

NOTICE:

This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or

Sales Order #: 8490153	Line Item: 10	Survey Conducted Date: 11/20/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MIKE SCHULTS		API / UWI: (leave blank if unknown) 05-045-19704
Well Name: SP		Well Number: 431-14
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	11/20/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHARLES ROSS (HB20648)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	MIKE SCHULTS
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	

CUSTOMER SIGNATURE

Sales Order #: 8490153	Line Item: 10	Survey Conducted Date: 11/20/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MIKE SCHULTS		API / UWI: (leave blank if unknown) 05-045-19704
Well Name: SP		Well Number: 431-14
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	11/20/2011
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Deviated
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	4.5
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Operating Hours (Pumping Hours)	1.58
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	0
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.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	5
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

Sales Order #: 8490153	Line Item: 10	Survey Conducted Date: 11/20/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MIKE SCHULTS		API / UWI: (leave blank if unknown) 05-045-19704
Well Name: SP		Well Number: 431-14
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? Did We Run Top And Bottom Casing Wiper Plugs?	Top
Mixing Density of Job Stayed in Designed Density Range (0-100%) Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	98
Was Automated Density Control Used? Was Automated Density Control (ADC) Used ?	Yes
Pump Rate (percent) of Job Stayed At Designed Pump Rate 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	98
Nbr of Remedial Sqz Jobs Rqd - Competition Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
Nbr of Remedial Plug Jobs Rqd - HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
Nbr of Remedial Sqz Jobs Rqd - HES Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0