
WILLIAMS PRODUCTION RMT INC - EBUS

**PA 524-20
PARACHUTE
Garfield County , Colorado**

**Cement Surface Casing
18-Nov-2011**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 2889036		Quote #:		Sales Order #: 9040771	
Customer: WILLIAMS PRODUCTION RMT INC - EBUS				Customer Rep: David, Buddy			
Well Name: PA			Well #: 524-20		API/UWI #: 05-045-20249		
Field: PARACHUTE		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Lat: N 39.504 deg. OR N 39 deg. 30 min. 14.141 secs.				Long: W 108.019 deg. OR W -109 deg. 58 min. 51.128 secs.			
Contractor: NABORS 577			Rig/Platform Name/Num: NAB 577				
Job Purpose: Cement Surface Casing							
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: MAYO, MARK			Srvc 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	11	477632	BECK, MICHAEL George	11	489151	LYNGSTAD, FREDRICK D	11	403742
ROSS, CHARLES Raymond	11	453128						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10592964	60 mile	10744549	60 mile	10744648C	60 mile	10998508	60 mile
11259881	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
NOV 18, 2011	9	2						

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	18 - Nov - 2011	08:15 MST
Form Type		BHST			On Location	18 - Nov - 2011	12:10 MST
Job depth MD	1000. ft	Job Depth TVD	1000. ft		Job Started	18 - Nov - 2011	20:07 MST
Water Depth		Wk Ht Above Floor	6. ft		Job Completed	18 - Nov - 2011	21:11 MST
Perforation Depth (MD)	From	To			Departed Loc	18 - Nov - 2011	22:35 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				.	1000.		
9 5/8" Surface casing	Unknown		9.625	9.001	32.3		H-40	.	985.5		

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		
R/A DENSOMETER W/CHART RECORDER,/JOB,ZI	1	JOB		
PORT. DAS W/CEMWIN;ACQUIRE W/HES, ZI	1	JOB		
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB		

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	9 5/8"	1	
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
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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		
1	Water Spacer				20.00	bbl	8.34	.0	.0	.0			
2	Tail Cement	VERSACEM (TM) SYSTEM (452010)			300.0	sacks	12.8	2.11	11.75		11.75		
		11.75 Gal			FRESH WATER								
3	Displacement Fluid				74.00	bbl	8.34	.0	.0	.0			
Calculated Values		Pressures			Volumes								
Displacement	74.1	Shut In: Instant			Lost Returns	NONE	Cement Slurry		112.7	Pad			
Top Of Cement	SURF	5 Min			Cement Returns	27	Actual Displacement		74.1	Treatment			
Frac Gradient		15 Min			Spacers	20	Load and Breakdown			Total Job	207		
Rates													
Circulating	14	Mixing			7	Displacement			10	Avg. Job		3.2	
Cement Left In Pipe		Amount	43.4 ft	Reason	Shoe Joint								
Frac Ring # 1 @		ID		Frac ring # 2 @		ID		Frac Ring # 3 @		ID		Frac Ring # 4 @	
The Information Stated Herein Is Correct					Customer Representative Signature								

The Road to Excellence Starts with Safety

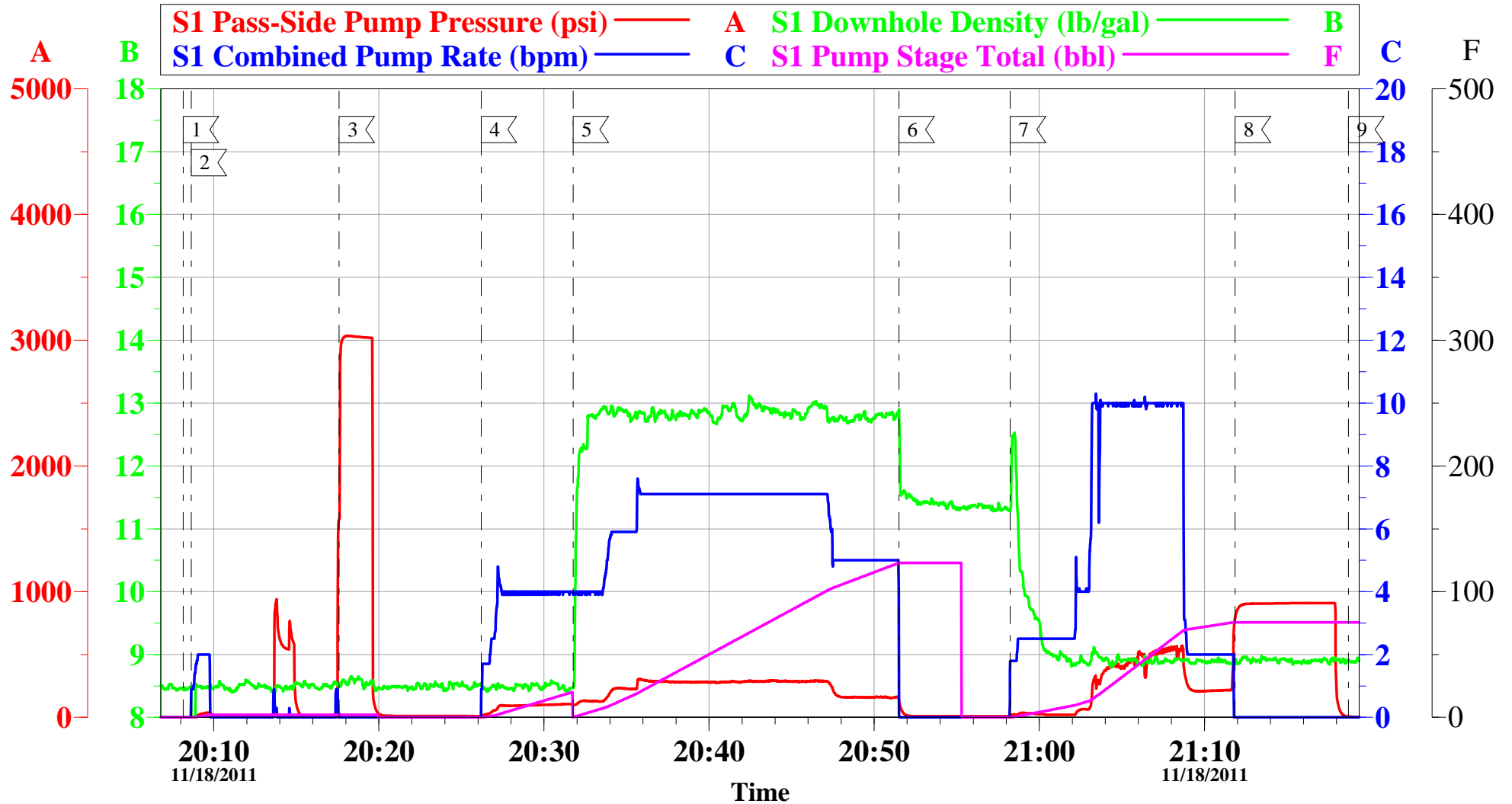
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Well Name: PA	Well #: 524-20	API/UWI #: 05-045-20249	
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.504 deg. OR N 39 deg. 30 min. 14.141 secs.		Long: W 108.019 deg. OR W -109 deg. 58 min. 51.128 secs.	
Contractor: NABORS 577		Rig/Platform Name/Num: NAB 577	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc 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	11/18/2011 08:15							
Pre-Convoy Safety Meeting	11/18/2011 10:10							WITH ALL HES EE'S
Depart from Service Center or Other Site	11/18/2011 10:20							
Arrive at Location from Service Center	11/18/2011 12:10							
Assessment Of Location Safety Meeting	11/18/2011 18:30							WITH ALL HES EE'S
Pre-Rig Up Safety Meeting	11/18/2011 18:45							WITH ALL HES EE'S
Rig-Up Equipment	11/18/2011 18:50							1-F550 PICKUP, 1-ELITE PUMP TRUCK, 1-660 CEMENT BULK TRUCK, 1-HARD LINE TO RIG AND WASH UP OUT TO THE CELLAR FROM MANIFOLD, 1 9 5/8" PLUG CONTAINER.
Pre-Job Safety Meeting	11/18/2011 20:00							WITH ALL HES EE'S AND RIG CREW
Start Job	11/18/2011 20:07							TD 1000, 9 5/8 32.3# CASING SET @ 985.5, SJ 43.43, FC 942.1 MW# 9.8, RIG CIRCULATED 1 HR PRIOR TO CEMENT JOB, HEAD AND CASING CHAINED DOWN BECAUSE OF PSI TO LIFT
Pump Water	11/18/2011 20:07		2	2			38.0	FILL LINES, FRESH WATER
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Test Lines	11/18/2011 20:09							TEST TO 3000 PSI
Pump Spacer 1	11/18/2011 20:26		4	20			107.0	FRESH WATER
Pump Tail Cement	11/18/2011 20:31		7	112.7			300.0	300 SKS OF VERSACEM PUMPED @ 12.8 PPG, YIELD 2.11, WATER 11.75
Shutdown	11/18/2011 20:51							
Drop Plug	11/18/2011 20:57							TOP PLUG, PLUG WENT
Pump Displacement	11/18/2011 20:57		10	64			540.0	FRESH WATER
Slow Rate	11/18/2011 21:07		2	10.1			217.0	RATE SLOWED 10 BBL PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	11/18/2011 21:11		2		74.1		220.0	PLUG LANDED. PRESSURED UP TO 908 PSI.
Check Floats	11/18/2011 21:17							FLOATS HELD
End Job	11/18/2011 21:18							GOOD RETURNS THROUGHOUT JOB, NO MOVEMENT OF PIPE THROUGHOUT JOB, 27 BBLS OF CEMENT CIRCULATED TO THE PIT=72 SKS
Post-Job Safety Meeting (Pre Rig-Down)	11/18/2011 21:23							WITH ALL HES EE'S
Rig-Down Equipment	11/18/2011 21:28							
Pre-Convoy Safety Meeting	11/18/2011 22:30							WITH ALL HES EE'S
Depart Location for Service Center or Other Site	11/18/2011 22:35							THANKS FOR USING GRAND JUNCTION HALLIBURTON CEMENT DEPARTMENT, CHUCK ROSS AND CREW

Williams - PA 524-20

Surface

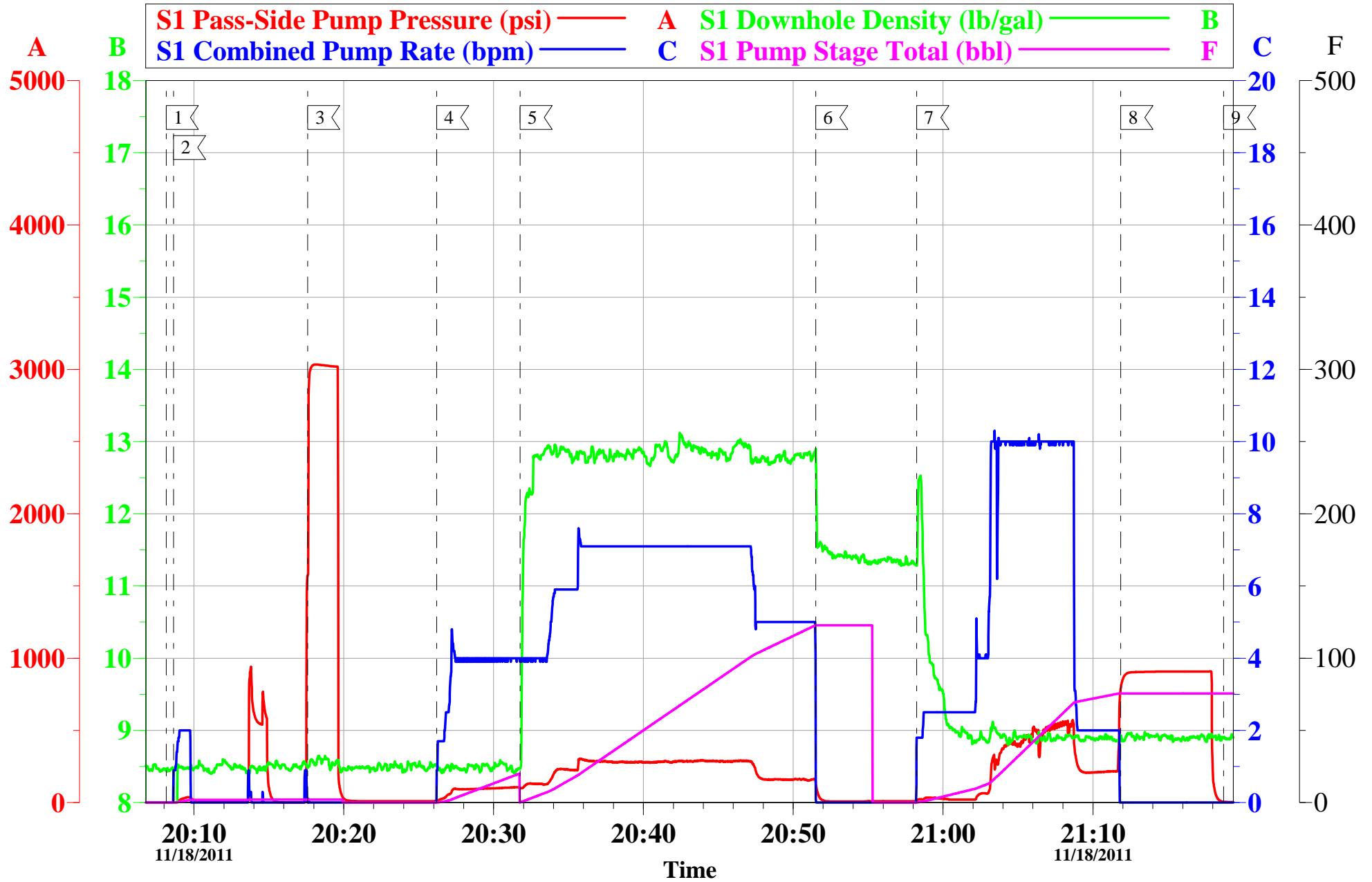


Customer: Williams	Job Date: 18-Nov-2011	Sales Order #: 9040771
Well Description: PA 524-20	Job type: Surface	ADC Used: Yes
Customer Rep: Buddy David	Service Supervisor: Chuck Ross	Operator/ Pump: Mike Beck

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18-Nov-11 21:37

Williams - PA 524-20

Surface



Customer: Williams	Job Date: 18-Nov-2011	Sales Order #: 9040771
Well Description: PA 524-20	Job type: Surface	ADC Used: Yes
Customer Rep: Buddy David	Service Supervisor: Chuck Ross	Operator/ Pump: Mike Beck

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18-Nov-11 21:36

HALLIBURTON

Water Analysis Report

Company: WILLIAMS
Submitted by: CHUCK ROSS
Attention: JON TROUT
Lease: PA
Well #: 524-20

Date: 11/18/2011
Date Rec.: 11/18/2011
S.O.#: 9040771
Job Type: 9 5/8" SURFACE

Specific Gravity	MAX	1
pH	8	7
Potassium (K)	5000	250 Mg / L
Calcium (Ca)	500	Mg / L
Iron (FE2)	300	10 Mg / L
Chlorides (Cl)	3000	0 Mg / L
Sulfates (SO ₄)	1500	300 Mg / L
Chlorine (Cl ₂)		NA Mg / L
Temp	40-80	52 Deg
Total Dissolved Solids		390 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 its use.

Sales Order #: 9040771	Line Item: 10	Survey Conducted Date: 11/18/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: BUDDY DAVID		API / UWI: (leave blank if unknown) 05-045-20249
Well Name: PA		Well Number: 524-20
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	11/18/2011
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	BUDDY DAVID
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

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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	11/18/2011

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.	Deviated
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	3.67
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.	1.1
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	5
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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Well Name: PA		Well Number: 524-20
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