

HALLIBURTON

WILLIAMS PRODUCTION RMT INC - EBUS

**GM 422-26
GRAND VALLEY
Garfield County , Colorado**

**Cement Surface Casing
01-Sep-2011**

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2870103	Quote #:	Sales Order #: 8371173
Customer: WILLIAMS PRODUCTION RMT INC - EBUS	Customer Rep: Wilson, W.C.		
Well Name: GM	Well #: 422-26	API/UWI #: 05-045-20217	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.5 deg. OR N 39 deg. 29 min. 58.733 secs.	Long: W 108.088 deg. OR W -109 deg. 54 min. 44.161 secs.		
Contractor: H&P 280	Rig/Platform Name/Num: H&P 280		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: KOHL, KYLE	Srv Supervisor: KUKUS, CRAIG	MBU ID Emp #: 369124	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARNOLD, EDWARD John	0	439784	BRENNECKE, ANDREW Bailey	8	486345	KUKUS, CARLTON Dean	8	458577
KUKUS, CRAIG A	8	369124	MILLER II, MATTHEW Reginald	8	425164	SPARKS, CLIFFORD Paul	8	502476

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248065	60 mile	10551730C	60 mile	10829469	60 mile	10867322	60 mile
10973571	60 mile	10998512	60 mile				

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
8/31/11	4	1	9/1/11	4	2			

TOTAL	Total is the sum of each column separately							
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Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	31 - Aug - 2011	15:30	MST
Form Type		BHST	Job Started	31 - Aug - 2011	20:00	MST
Job depth MD	1400. ft	Job Depth TVD	Job Completed	01 - Sep - 2011	02:05	MST
Water Depth		Wk Ht Above Floor	Departed Loc	01 - Sep - 2011	02:57	MST
Perforation Depth (MD)	From	To		01 - Sep - 2011	04:30	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
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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	9 5/8	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	1	HES
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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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	4	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	190.0	sacks	12.3	2.38	13.75	6	13.75
	13.75 Gal	FRESH WATER							
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	6	11.75
	11.75 Gal	FRESH WATER							
4	Displacement Fluid		105.00	bbl	8.34	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	105	Shut In: Instant		Lost Returns	0	Cement Slurry	141	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	28	Actual Displacement	105	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	266
Rates									
Circulating	RIG	Mixing	6	Displacement	10	Avg. Job	8		
Cement Left In Pipe	Amount	42.35 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

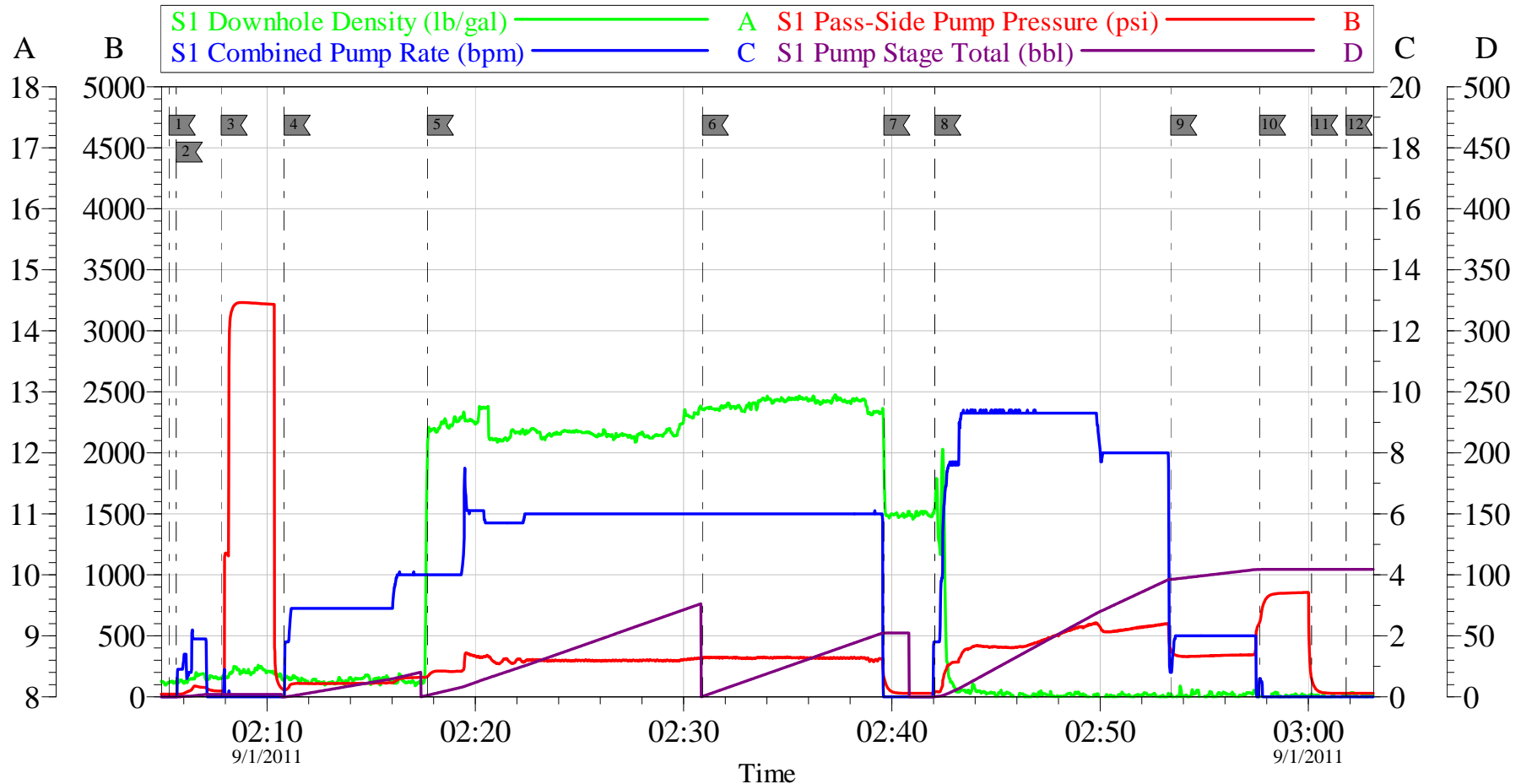
Sold To #: 300721	Ship To #: 2870103	Quote #:	Sales Order #: 8371173
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Well Name: GM	Well #: 422-26	API/UWI #: 05-045-20217	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.5 deg. OR N 39 deg. 29 min. 58.733 secs.		Long: W 108.088 deg. OR W -109 deg. 54 min. 44.161 secs.	
Contractor: H&P 280		Rig/Platform Name/Num: H&P 280	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: KOHL, KYLE		Srv Supervisor: KUKUS, CRAIG	MBU ID Emp #: 369124

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	08/31/2011 15:00							
Depart Yard Safety Meeting	08/31/2011 18:00							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Arrive At Loc	08/31/2011 20:00							RIG PULLING D/P
Assessment Of Location Safety Meeting	08/31/2011 20:10							ASSESSMENT OF LOCATION INVOLVING THE ENTIRE CMT CREW
Pre-Rig Up Safety Meeting	08/31/2011 20:30							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Rig-Up Equipment	08/31/2011 20:35							RIG IRON TO STAND PIPE / AND RUN IRON TO PIT FOR CLEAN UP/ WATER HOOK UP TO UP RIGHT AND DAY TANK
Circulate Well	09/01/2011 01:00							RIG CIRCULATE WELL THRU HES HEAD
Pre-Job Safety Meeting	09/01/2011 01:45							SAFETY MEETING INVOLVING EVERYONE ON LOCATION
Start Job	09/01/2011 02:05							TD 1400 FT TP 1385.33 FT SJ 42.35 FT OH 13.5 IN MUD WT 9.9 # PIPE 30 JTS 9 5/8 IN H 40 32.3 1 JT 9 5/8 IN 36#
Other	09/01/2011 02:05		2	2			103.0	FILL LINES WITH FRESH WATER
Pressure Test	09/01/2011 02:07		0.5			3500.0		PRESSURE TEST GOOD

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	09/01/2011 02:10		4	20			145.0	FRESH WATER SPACER
Pump Lead Cement	09/01/2011 02:17		6	80.5			310.0	PUMP 190 SKS LEAD CEMENT AT 12.3 PPG 2.38 Y 13.75 GAL/SK
Pump Tail Cement	09/01/2011 02:30		6	60.1			340.0	PUMP 160 SKS TAIL CEMENT AT 12.8 PPG 2.11 Y 11.75 GAL/SK
Shutdown	09/01/2011 02:39							
Drop Top Plug	09/01/2011 02:39							PLUG LEFT THE PLUG CONTAINER
Pump Displacement	09/01/2011 02:42		9.5	105.7			615.0	PUMP FRESH WATER DISPLACEMENT
Slow Rate	09/01/2011 02:53		2	95			346.0	SLOW RATE TO 2 BBL MIN LAST 10 BBLS
Bump Plug	09/01/2011 02:57		2	105.7			867.0	PLUG LANDED AT 367 PSI
Check Floats	09/01/2011 03:00							FLOATS HELD / GOT 1 BBL BACK TO TANKS
End Job	09/01/2011 03:01							HAD GOOD CIRCULATION THRU OUT THE JOB / GOT CEMENT TO SURFACE TOTAL 28 BBLS BACK
Pre-Rig Down Safety Meeting	09/01/2011 03:02							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Rig-Down Equipment	09/01/2011 03:10							RIG DOWN / WASH UP TO PIT
Safety Meeting - Departing Location	09/01/2011 04:15							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Comment	09/01/2011 04:30							THANK YOU FOR USING HALLIBURTON, CRAIG KUKUS AND CREW

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job		MAX 1120			
	FILL LINES	2				
6	Test Lines	3500.0				
9	H2O Spacer	20.0		8.3		
13	LEAD CEMENT	80.5	190	12.3	2.38	13.75
15	TAIL CEMENT	60.1	160	12.8	2.11	11.75
	SHUTDOWN					
	DROP TOP PLUG					
25	H2O DISPLACE	105.7		8.3		
	SLOW RATE	95.0	2BBL	slow	2BBL	
	LAND PLUG	295.0	PLUS	500	OVER	
	CHECK FLOATS					
	END JOB		Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH		FLOAT COLLAR	BBL/FT	H2O REQ.
105.70	1385.33	42.35		1342.98	0.0787	280
PSI TO LIFT	522	*****Use Mud Scales on Each Tier*****				
Total Displacement	105.70					
CALCULATED PSI LAND		295		TOTAL FLUID PUMPED		266
Collapse	2270	Burst	1400		SO#	8371173

WILLIAMS PRODUCTION SURFACE



Local Event Log

1 START JOB	02:05:18	2 PRIME LINES	02:05:38	3 PRESSURE TEST	02:07:48
4 PUMP H2O SPACER	02:10:49	5 PUMP LEAD CEMENT	02:17:42	6 PUMP TAIL CEMENT	02:30:54
7 SHUT DOWN/DROP PLUG	02:39:37	8 PUMP H2O DISPLACEMENT	02:42:03	9 SLOWRATE	02:53:23
10 BUMPPUG	02:57:39	11 CHECK FLOATS	03:00:09	12 END JOB	03:01:49

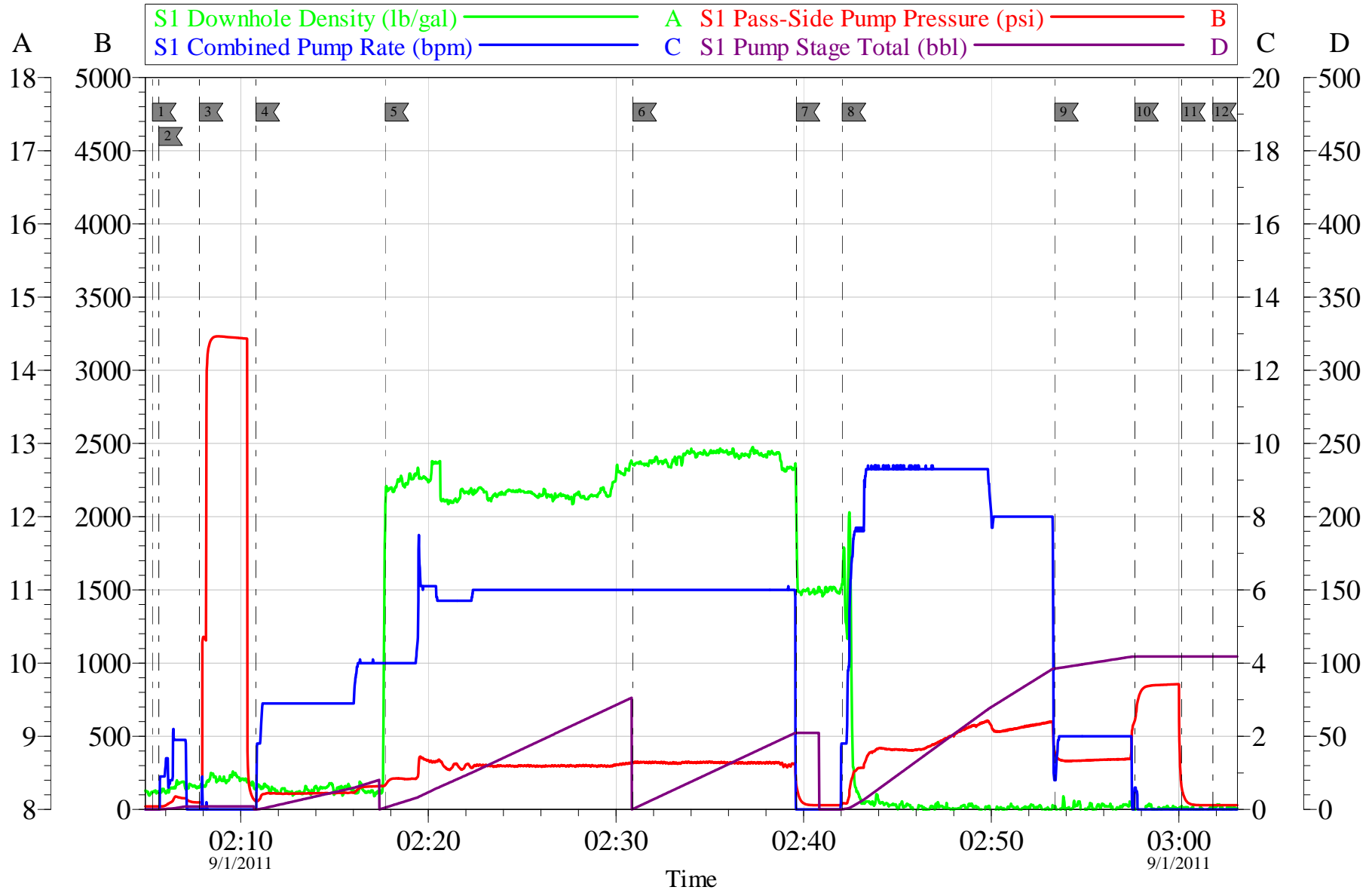
Customer: **WILLIAMS**
 Well Description: **GM 422-26**
 Company Rep: **Wc.WILSON**

Job Date: **01-Sep-2011**
 Job Type: **SURFACE**
 Cement Supervisor: **CRAIG KUKUS**

Sales Order #: **8371173**
 ADC Used: **YES**
 Elite #/Operator: **ELITE 2 ANDREW BRENNKECKE**

OptiCem v6.4.8
 01-Sep-11 03:27

WILLIAMS PRODUCTION SURFACE



Customer: WILLIAMS	Job Date: 01-Sep-2011	Sales Order #: 8371173
Well Description: GM 422-26	Job Type: SURFACE	ADC Used: YES
Company Rep: Wc.WILSON	Cement Supervisor: CRAIG KUKUS	Elite #/Operator: ELITE 2 ANDREW BRENNKECKE

OptiCem v6.4.8
01-Sep-11 03:31

HALLIBURTON

Water Analysis Report

Company: WILLIAMS

Submitted by: CRAIGKUKUS

Attention:

Lease GM

Well # 422-26

Date: 8/31/2011

Date Rec.: 8/31/2011

S.O.# 8371173

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>250</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>0</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i>below200</i> Mg / L
Chlorine (Cl ₂)		<i>120</i> Mg / L
Temp	<i>40-80</i>	<i>65</i> Deg
Total Dissolved Solids		<i>410</i> Mg / L

Respectfully: CRAIGKUKUS

Title: CEMENTING SUPERVISOR

Location: GRANDJUNCTION 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 #: 8371173	Line Item: 10	Survey Conducted Date: 9/1/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: WC.WILSON		API / UWI: (leave blank if unknown) 05-045-20217
Well Name: GM		Well Number: 422-26
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	9/1/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CRAIG KUKUS (HX19742)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	WC.WILSON
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	
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

Sales Order #: 8371173	Line Item: 10	Survey Conducted Date: 9/1/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: WC.WILSON		API / UWI: (leave blank if unknown) 05-045-20217
Well Name: GM		Well Number: 422-26
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	9/1/2011

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.	2.5
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	6
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

Sales Order #: 8371173	Line Item: 10	Survey Conducted Date: 9/1/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: WC.WILSON		API / UWI: (leave blank if unknown) 05-045-20217
Well Name: GM		Well Number: 422-26
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	97
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