
WILLIAMS PRODUCTION RMT INC - EBUS

**GM 533-23
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing
07-Oct-2011

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2880030	Quote #:	Sales Order #: 8490124
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Customer Rep: Hartl, Al	
Well Name: GM		Well #: 533-23	API/UWI #: 05-045-20468
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
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. 1.049 secs.	
Contractor: NABORS		Rig/Platform Name/Num: NABORS 576	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: KOHL, KYLE		Srvc Supervisor: CHASTAIN, DERICK	MBU ID Emp #: 455848

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BROWN, TRAVIS A	7	396848	CHASTAIN, DERICK Allan	7	455848	LESTER, LEVI William	7	474117
MUHLESTEIN, RYAN Herrick	7	453609						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10551730C	60 mile	10867304	60 mile	10951250	60 mile	10973571	60 mile
10998054	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/7/2011	7	2						
TOTAL			<i>Total is the sum of each column separately</i>					

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	07 - Oct - 2011	00:30	MST
Form Type	BHST		Job Started	07 - Oct - 2011	04:42	MST
Job depth MD	1176. ft	Job Depth TVD	1176. ft	Job Completed	07 - Oct - 2011	05:33
Water Depth		Wk Ht Above Floor	4. ft	Departed Loc	07 - Oct - 2011	07:00
Perforation Depth (MD)	<i>From</i>	<i>To</i>				

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbf/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
OPEN HOLE				13.5				.	1165.	.	1165.
SURFACE CASING	Unknown		9.625	9.001	32.3		H-40	.	1154.3	.	1154.3

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 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)	160.0	sacks	12.3	2.38	13.75	7	13.75
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	7	11.75
4	Displacement Fluid		87.00	bbl	8.34	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	87.4	Shut In: Instant		Lost Returns	0	Cement Slurry	128	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	25	Actual Displacement	87.4	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	236
Rates									
Circulating	12	Mixing	7	Displacement	10	Avg. Job	9		
Cement Left In Pipe	Amount	43.6 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

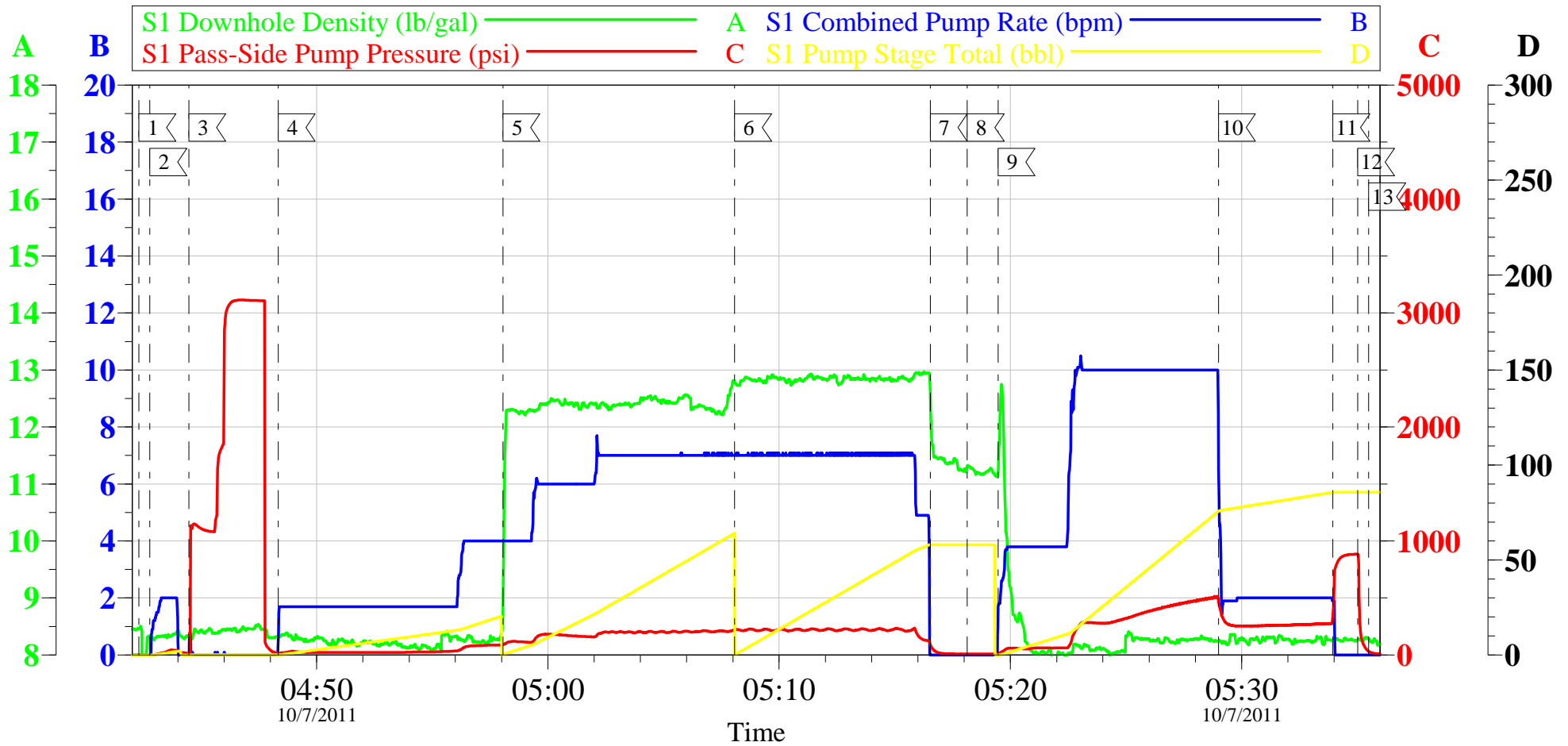
Sold To #: 300721	Ship To #: 2880030	Quote #:	Sales Order #: 8490124
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Well Name: GM		Well #: 533-23	API/UWI #: 05-045-20468
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
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Contractor: NABORS		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: CHASTAIN, DERICK	MBU ID Emp #: 455848

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/06/2011 21:00							
Pre-Convoy Safety Meeting	10/06/2011 23:00							WITH ALL HES PERSONNEL
Arrive at Location from Service Center	10/07/2011 00:30							CASING CREW RIGGING UP.
Assessment Of Location Safety Meeting	10/07/2011 00:45							WITH ALL HES PERSONNEL
Other	10/07/2011 02:30							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	10/07/2011 02:50							WITH ALL HES PERSONNEL
Rig-Up Equipment	10/07/2011 03:00							IRON TO RIG FLOOR, WATER FROM UPRIGHT AND RIG TANK, WASH UP INTO TRANSPORT.
Pre-Job Safety Meeting	10/07/2011 04:30							WITH ALL PERSONNEL ON LOCATION
Start Job	10/07/2011 04:42							TD-1165', TP-1154.25', SJ-43.61', CSG- 9 5/8" 32.3# H-40, OH- 13 1/2" MUD- 9.6 PPG,
Other	10/07/2011 04:42		2	2			45.0	FILL LINES
Test Lines	10/07/2011 04:44							STAGED TEST AT 1050 PSI THEN TESTED TO 3000 PSI.
Pump Spacer 1	10/07/2011 04:48		4	20			75.0	FRESH WATER
Pump Lead Cement	10/07/2011 04:58		7	67.7			245.0	160 SKS, 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK.
Pump Tail Cement	10/07/2011 05:08		7	60.1			245.0	160 SKS, 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	10/07/2011 05:16							
Drop Top Plug	10/07/2011 05:18							PLUG LAUNCHED
Pump Displacement	10/07/2011 05:19		10	87.4			510.0	FRESH WATER
Slow Rate	10/07/2011 05:29		2	77			270.0	SLOW RATE 10 BBLs PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	10/07/2011 05:33		2	87.4			850.0	PLUG BUMPED AT 270 PSI THEN PRESSURED UP TO 850 PSI
Check Floats	10/07/2011 05:35							FLOATS HELD. 0.5 BBL BACK TO TRUCK.
End Job	10/07/2011 05:35							3 ADD HOURS, NO DEREK CHARGE, 30 LBS SUGAR USED.
Pre-Rig Down Safety Meeting	10/07/2011 05:50							WITH ALL HES PERSONNEL
Rig-Down Equipment	10/07/2011 06:00							
Pre-Convoy Safety Meeting	10/07/2011 06:50							WITH ALL HES PERSONNEL
Crew Leave Location	10/07/2011 07:00							FREE OF DEBRESS.
Comment	10/07/2011 07:00							THANK YOU FOR USING HALLIBURTON CEMENT. DERICK CHASTAIN AND CREW

WILLIAMS

GM 533-23 SURFACE CASING

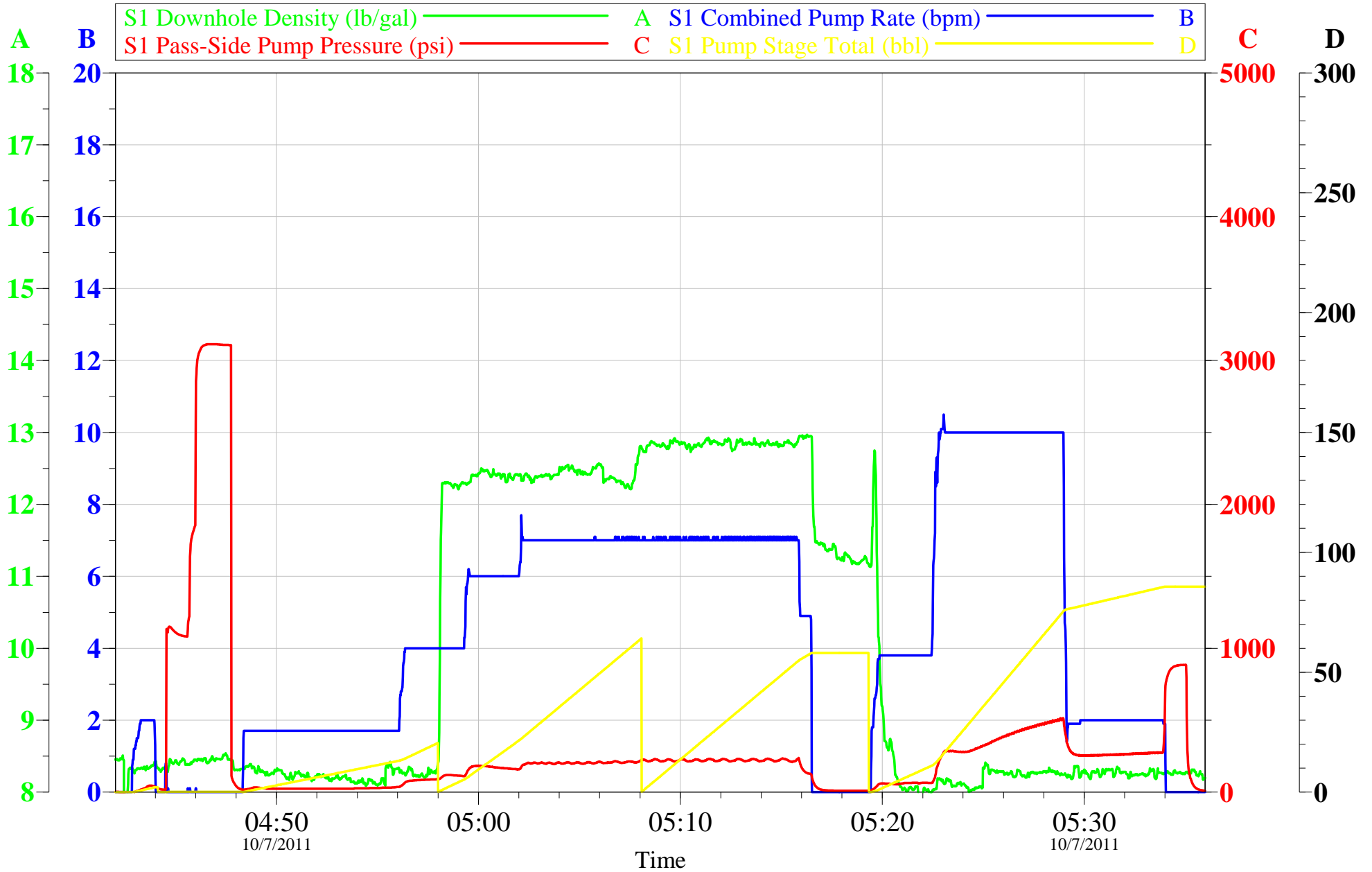


1	START JOB	04:42:19	2	FILL LINES	04:42:47	3	TEST LINES	04:44:28
4	PUMP H2O SPACER	04:48:20	5	PUMP LEAD CEMENT	04:58:04	6	PUMP TAIL CEMENT	05:08:05
7	SHUT DOWN	05:16:32	8	DROP PLUG	05:18:08	9	PUMP DISPLACEMENT	05:19:28
10	SLOW RATE	05:29:00	11	BUMP PLUG	05:33:57	12	CHECK FLOATS	05:35:01
13	END JOB	05:35:30						

Customer:	WILLIAMS	Job Date:	07-Oct-2011	Sales Order #:	8490124
Well Description:	GM 533-23	Job Type:	SURFACE	ADC Used:	YES
Customer Rep:	AL HARTL	Service Supervisor:	DERICK CHASTAIN	Pump # 2 /Operator:	TRAVIS BROWN

WILLIAMS

GM 533-23 SURFACE CASING



Customer: WILLIAMS	Job Date: 07-Oct-2011	Sales Order #: 8490124
Well Description: GM 533-23	Job Type: SURFACE	ADC Used: YES
Customer Rep: AL HARTL	Service Supervisor: DERICK CHASTAIN	Pump # 2 /Operator: TRAVIS BROWN

HALLIBURTON

Water Analysis Report

Company: WILLIAMS

Date: 10/7/2011

Submitted by: DERICK CHASTAIN

Date Rec.: 10/7/2011

Attention: J. Trout

S.O.# 84900124

Lease GM

Job Type: SURFACE

Well # 533-23

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	3000 Mg / L
Calcium (Ca)	<i>500</i>	200 Mg / L
Iron (FE2)	<i>300</i>	240 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	100 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	43 Deg
Total Dissolved Solids		400 Mg / L

Respectfully: DERICK CHASTAIN

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

Sales Order #: 8490124	Line Item: 10	Survey Conducted Date: 10/7/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-20468
Well Name: GM		Well Number: 533-23
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	10/7/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	DERICK CHASTAIN (HB23225)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	AL HARTL
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	NONE
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

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Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-20468
Well Name: GM		Well Number: 533-23
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	10/7/2011
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	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	2
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
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	6
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

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Well Name: GM		Well Number: 533-23
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	99
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	99
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