HALLIBURTON

WILLIAMS PRODUCTION RMT INC - EBUS
DO NOT MAIL - PO BOX 3102
TOWER 3 SUITE 1000
TULSA, Oklahoma

GM 534-22

H&P 280

Post Job Summary
Cement Surface Casing

Prepared for: W.C. WILSON
Date Prepared: AUGUST 9, 2011
Version: 1

Service Supervisor: ROSS, CHARLES

Submitted by:

HALLIBURTON

HALLIBURTON

Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 2867044	**Quote #:**	**Sales Order #:** 8335163
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		**Customer Rep:** Wilson, W.C	
Well Name: GM	**Well #:** 534-22		**API/UWI #:** 05-045-20228
Field: GRAND VALLEY	**City (SAP):** PARACHUTE	**County/Parish:** Garfield	**State:** Colorado
Legal Description:			
Lat: N 39.5 deg. OR N 39 deg. 29 min. 58.906 secs.		**Long:** W 108.088 deg. OR W -109 deg. 54 min. 44.104 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: SCOTT, KYLE	**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	08/09/2011 12:00							
Pre-Convoy Safety Meeting	08/09/2011 14:05							WITH ALL HES EE'S
Depart from Service Center or Other Site	08/09/2011 14:15							
Arrive at Location from Service Center	08/09/2011 15:48							
Assessment Of Location Safety Meeting	08/09/2011 16:15							WITH ALL HES EE'S
Pre-Rig Up Safety Meeting	08/09/2011 16:20							WITH ALL HES EE'S
Rig-Up Equipment	08/09/2011 16:25							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	08/09/2011 18:35							WITH ALL HES EE'S AND RIG CREW
Start Job	08/09/2011 18:46							TD 2165, 9 5/8 32.3# CASING SET @ 2153.4, SJ 40.4, FC 2113 MW# 10.1, RIG CIRCULATED 1 HR PRIOR TO CEMENT JOB, HEAD AND CASING CHAINED DOWN BECAUSE OF PSI TO LIFT
Pump Water	08/09/2011 18:46		2	2			60.0	FILL LINES, FRESH WATER
Test Lines	08/09/2011 18:48							TEST TO 3000 PSI

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	08/09/2011 18:52		4	20			138.0	FRESH WATER
Pump Lead Cement	08/09/2011 19:04		6	156.8			275.0	370 SKS OF VERSACEM PUMPED @ 12.3 PPG, YIELD 2.38, WATER 13.75
Pump Tail Cement	08/09/2011 19:29		6	60.1			280.0	160 SKS OF VERSACEM PUMPED @ 12.8 PPG, YIELD 2.11, WATER 11.75
Shutdown	08/09/2011 19:39							
Drop Plug	08/09/2011 19:45							TOP PLUG, PLUG WENT
Pump Displacement	08/09/2011 19:45		10	166.3			840.0	FRESH WATER
Slow Rate	08/09/2011 20:04		2	156			450.0	RATE SLOWED 10 BBL PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	08/09/2011 20:08		2	166.3			520.0	PLUG LANDED. PRESSURED UP TO 1080 PSI.
Check Floats	08/09/2011 20:10							FLOATS HELD
End Job	08/09/2011 20:11							GOOD RETURNS THROUGHOUT JOB, NO MOVEMENT OF PIPE THROUGHOUT JOB, SOME CEMENT COLOR AT 111 BBLS, SOLID CEMENT RETURNS AT 128 BBL, 38 BBLS OF CEMENT CIRCULATED TO THE PIT=90 SKS
Post-Job Safety Meeting (Pre Rig-Down)	08/09/2011 20:20							WITH ALL HES EE'S
Rig-Down Equipment	08/09/2011 20:25							
Pre-Convoy Safety Meeting	08/09/2011 21:25							WITH ALL HES EE'S
Depart Location for Service Center or Other Site	08/09/2011 21:30							THANKS FOR USING GRAND JUNCTION HALLIBURTON CEMENT DEPARTMENT, CHUCK ROSS AND CREW

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 2867044	**Quote #:**	**Sales Order #:** 8335163
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		**Customer Rep:** Wilson, W.C	
Well Name: GM	**Well #:** 534-22		**API/UWI #:** 05-045-20228
Field: GRAND VALLEY	**City (SAP):** PARACHUTE	**County/Parish:** Garfield	**State:** Colorado
Lat: N 39.5 deg. OR N 39 deg. 29 min. 58.906 secs.		**Long:** W 108.088 deg. OR W -109 deg. 54 min. 44.104 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: SCOTT, KYLE	**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 #
DOUT, JACOB J	6	430298	KUKUS, CHRISTOPHER A	6	413952	ROSS, CHARLES Raymond	6	453128
WOLFE, JON P	6	485217						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
8/9/2011	4	2						
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name					
Formation Depth (MD)	**Top**		**Bottom**		
Form Type		**BHST**			
Job depth MD	2165. ft	**Job Depth TVD**	2165. ft		
Water Depth		**Wk Ht Above Floor**	6. ft		
Perforation Depth (MD)	**From**		**To**		

Job Times

	Date	Time	Time Zone
Called Out	09 - Aug - 2011	12:00	MST
On Location	09 - Aug - 2011	15:48	MST
Job Started	09 - Aug - 2011	18:46	MST
Job Completed	09 - Aug - 2011	20:08	MST
Departed Loc	09 - Aug - 2011	21:30	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
13 1/2" OPEN HOLE				13.5				.	2165.		
9 5/8" SURFACE CASING	New		9.625	9.001	32.3		H-40	.	2153.4		

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		
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB		
PORT. DAS W/CEMWIN;ACQUIRE W/HES, 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**	**%**
Treatment Fld		**Conc**		**Inhibitor**		**Conc**		**Sand Type**		**Size**		**Qty**	

HALLIBURTON

Cementing Job Summary

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	Fresh Water Spacer		20.00	bbl	8.33	.0	.0	.0	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	370.0	sacks	12.3	2.38	13.75		13.75
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		167.00	bbl	8.34	.0	.0	.0	

Calculated Values		Pressures		Volumes					
Displacement	166.3	Shut In: Instant		Lost Returns	NONE	Cement Slurry	218	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	38	Actual Displacement	166.3	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	405

Rates

Circulating	20	Mixing	6	Displacement	10	Avg. Job	7.7

Cement Left In Pipe	Amount	40.4 ft	Reason	Shoe Joint

Frac Ring # 1 @		ID		Frac ring # 2 @		ID		Frac Ring # 3 @		ID		Frac Ring # 4 @		ID	

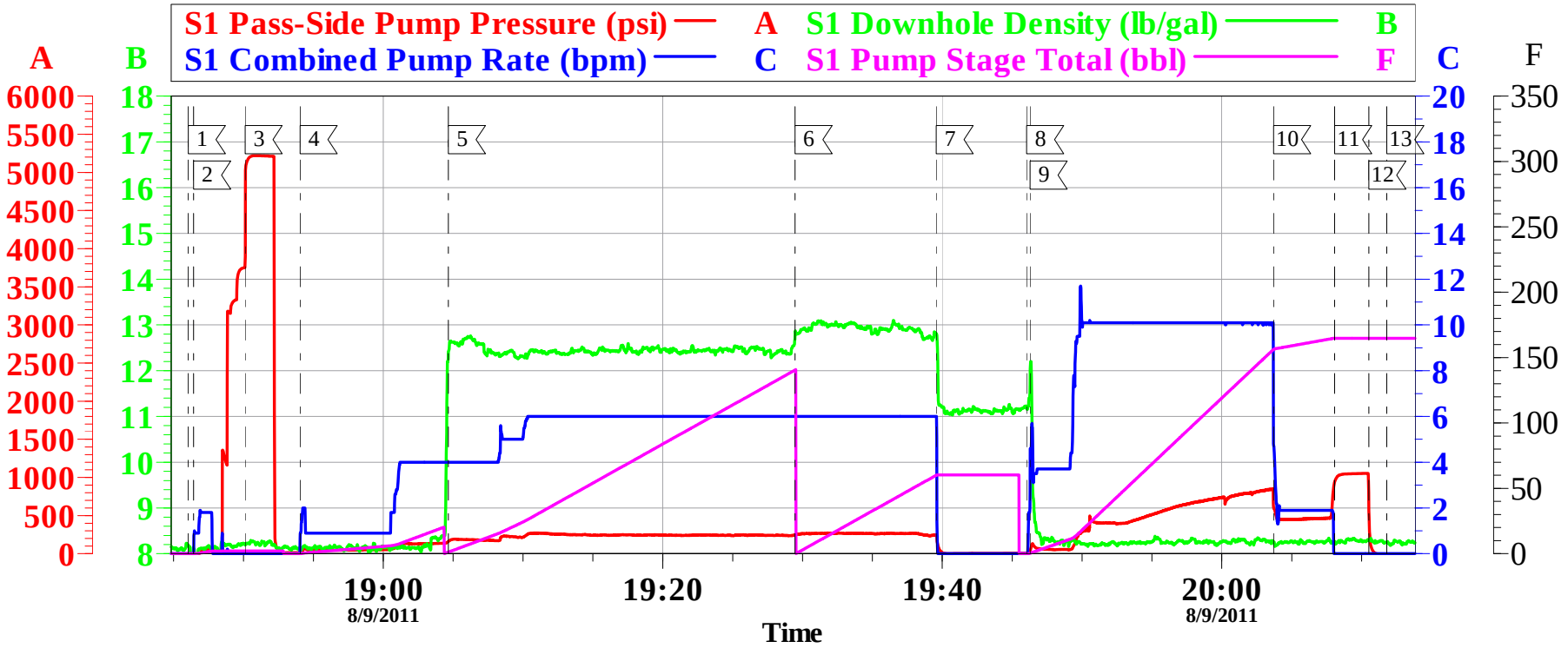
The Information Stated Herein Is Correct	Customer Representative Signature

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job		1120 Max Psi			
6	Test Lines	2500.0				
9	H2O Spacer	20.0				
	Lead Cement	156.8	370	12.3	2.38	13.75
15	Tail Cement	60.1	160	12.8	2.11	11.75
22	Drop Plug	0.0				
23	Displace with H2O	166.3				
26	Land Plug	451.7	500 over			
2	Release Psi / Job Over	0.0				
			Do Not Overdisplace			

DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH	FLOAT COLLAR	BBL/FT	H2O REQ.
166.29	2153.4	40.40	2113.00	0.0787	412
Pressure to Lift	800	******Use Mud Scales on Each Tier******			
Total Displacement	166.29				
CALCULATED DIFFERENTIAL PSI		452	TOTAL FLUID PUMPED		403
Collapse	1400	Burst	2270	SO#	8335163

WILLIAMS

CEMENT 9 5/8" SURFACE CASING GM 534-22



Local Event Log

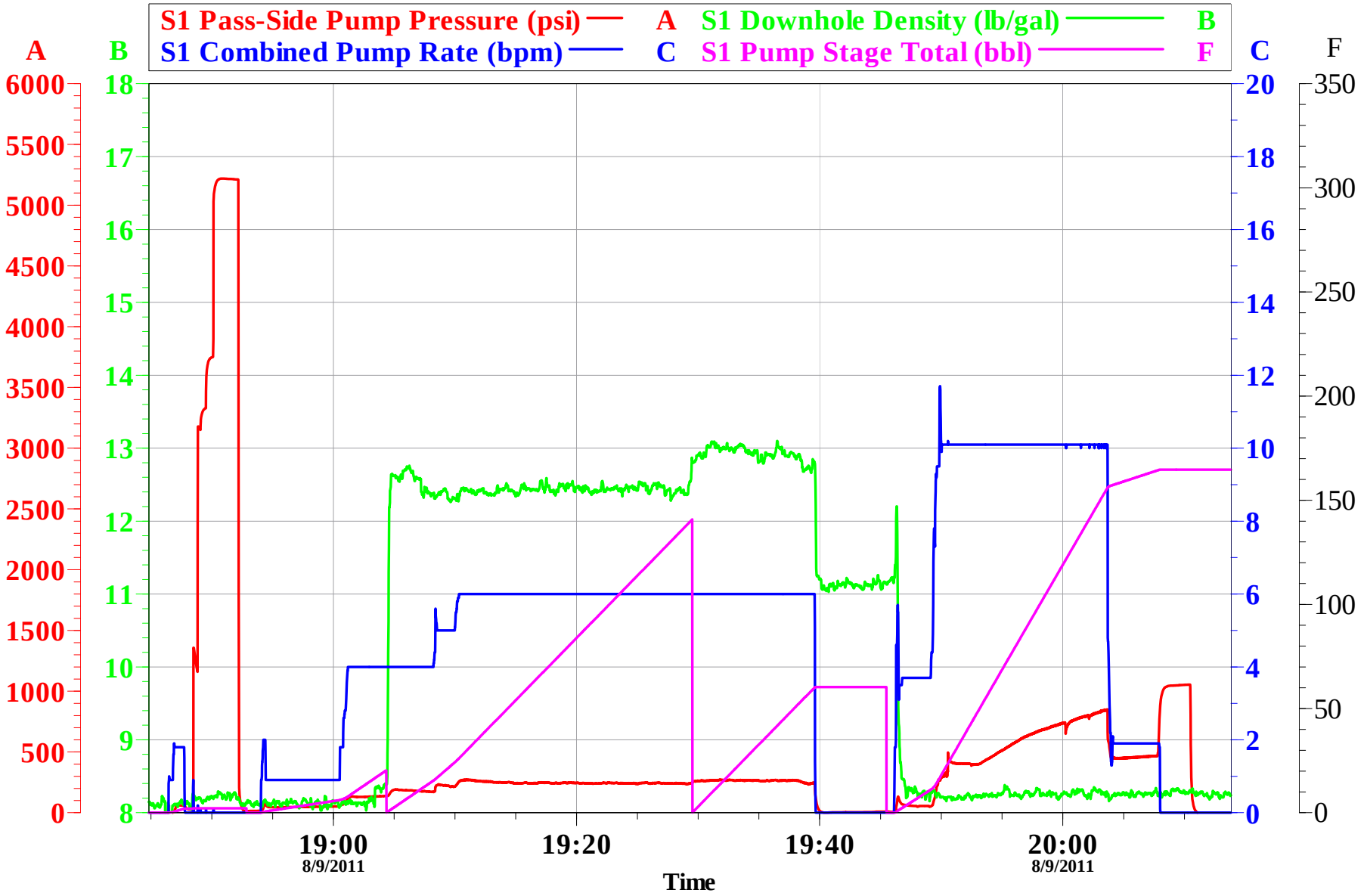
	Maximum		SPPP		Maximum		SPPP
1	START JOB	18:46:03	-2.000	2	PRIME LINES	18:46:26	3826
3	PRESSURE TEST	18:50:07	5219	4	PUMP FRESH WATER SPACER	18:54:03	160.2
5	PUMP LEAD CEMENT	19:04:39	274.0	6	PUMP TAIL CEMENT	19:29:28	274.0
7	SHUT DOWN	19:39:34	248.0	8	DROP PLUG	19:46:02	23.52
9	PUMP DISPLACEMENT	19:46:17	850.0	10	SLOW RATE	20:03:42	942.7
11	BUMP PLUG	20:08:05	1054	12	CHECK FLOATS	20:10:31	561.0
13	END JOB	20:11:49	-7.000				

Customer:	WILLIAMS	Job Date:	09-Aug-2011	Sales Order #:	8335163
Well Description:	GM 534-22	Job type:	SURFACE	ADC Used:	YES
Customer Rep:	W.C. WILSON	Service Supervisor:	CHUCK ROSS	Operator/ Pump:	JACOB DOUT

OptiCem v6.4.10
09-Aug-11 20:25

WILLIAMS

CEMENT 9 5/8" SURFACE CASING GM 534-22



Customer:	WILLIAMS	Job Date:	09-Aug-2011	Sales Order #:	8335163
Well Description:	GM 534-22	Job type:	SURFACE	ADC Used:	YES
Customer Rep:	W.C. WILSON	Service Supervisor:	CHUCK ROSS	Operator/ Pump:	JACOB DOUT

OptiCem v6.4.10
09-Aug-11 20:24

HALLIBURTON

Water Analysis Report

Company:	**OXY**	**Date:**	**8/9/2011**
Submitted by:	**CHUCK ROSS**	**Date Rec.:**	**8/9/2011**
Attention:	**JON TROUT**	**S.O.#**	**8335163**
Lease	**GM**	**Job Type:**	**9 5/8" SURFACE**
Well #	**534-22**		

Specific Gravity	***MAX***	**1**	
pH	***8***	**7.4**	
Potassium (K)	***5000***	**0**	**Mg / L**
Calcium (Ca)	***500***	**250**	**Mg / L**
Iron (FE2)	***300***	**0**	**Mg / L**
Chlorides (Cl)	***3000***	**0**	**Mg / L**
Sulfates (SO_4)	***1500***	**<200**	**Mg / L**
Chlorine (Cl_2)		**NA**	**Mg / L**
Temp	***40-80***	**78**	**Deg**
Total Dissolved Solids		**140**	**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

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
8335163	10	8/9/2011
Customer:		**Job Type (BOM):**
WILLIAMS PRODUCTION RMT INC - EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
W.C. WILSON		05-045-20228
Well Name:		**Well Number:**
GM		534-22
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
No	Colorado	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**	**8/9/2011**
Survey Interviewer	**The survey interviewer is the person who initiated the survey.**	**CHARLES ROSS (HB20648)**
Customer Participation	**Did the customer partipcipate in this survey? (Y/N)**	**Yes**
Customer Representative	**Enter the Customer representative name**	**W.C. 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**	**DONE A VERY GOOD JOB**
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

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
8335163	10	8/9/2011
Customer:		**Job Type (BOM):**
WILLIAMS PRODUCTION RMT INC - EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
W.C. WILSON		05-045-20228
Well Name:		**Well Number:**
GM		534-22
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
No	Colorado	Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	8/9/2011

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.	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.	1.37
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

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
8335163	10	8/9/2011
Customer:		**Job Type (BOM):**
WILLIAMS PRODUCTION RMT INC - EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
W.C. WILSON		05-045-20228
Well Name:		**Well Number:**
GM		534-22
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
No	Colorado	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 cment 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