

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

PA
PA 534-20

NABORS 577

Post Job Summary

Cement Surface Casing

Prepared for: Jeremy Harrison
Date Prepared: July 17, 2011
Version: 1

Service Supervisor: MAGERS, MICHAEL

Submitted by: Mike Magers

HALLIBURTON

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 2864463		Quote #:		Sales Order #: 8306340	
Customer: WILLIAMS PRODUCTION RMT INC - EBUS				Customer Rep: Harrison, Jeremy			
Well Name: PA			Well #: 534-20			API/UWI #: 05-045-20252	
Field: PARACHUTE		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Lat: N 39.504 deg. OR N 39 deg. 30 min. 14.209 secs.				Long: W 108.019 deg. OR W -109 deg. 58 min. 51.172 secs.			
Contractor: NABORS 577			Rig/Platform Name/Num: NABORS 577				
Job Purpose: Cement Surface Casing							
Well Type: Development Well				Job Type: Cement Surface Casing			
Sales Person: KOHL, KYLE			Srvc Supervisor: MAGERS, MICHAEL			MBU ID Emp #: 339439	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BLUST, CHARLES Thomas	8	386662	BORSZICH, STEPHEN A	8	412388	MAGERS, MICHAEL Gerard	8	339439
MCKAY, PATRICK Joseph	8	496671	ZUMWALT, ORVILLE Raymond	8	398157			

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	10867094	60 mile	10872429	60 mile
10897925	60 mile	11259886	60 mile	11360883	60 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
07/17/2011	6	0	07/18/2011	2	1			

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	17 - Jul - 2011	09:00 MST
Form Type	BHST			On Location	17 - Jul - 2011	18:00 MST
Job depth MD	1146. ft	Job Depth TVD	1146. ft	Job Started	18 - Jul - 2011	00:08 MST
Water Depth		Wk Ht Above Floor	3. ft	Job Completed	18 - Jul - 2011	01:08 MST
Perforation Depth (MD)	From	To		Departed Loc	18 - Jul - 2011	02:00 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
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	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	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	8.33	.0	.0	.0	
2	Tail Cement	VERSACEM (TM) SYSTEM (452010)	390.0	sacks	12.8	2.11	11.75		11.75
3	Displacement Fluid		86.00	bbl	8.34	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement	86.1	Shut In: Instant		Lost Returns	0	Cement Slurry	147	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	40	Actual Displacement	86	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	253
Rates									
Circulating	RIG	Mixing	7.5	Displacement	10/2	Avg. Job			8
Cement Left In Pipe	Amount	42.4 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID	ID	ID
The Information Stated Herein Is Correct				Customer Representative Signature					

The Road to Excellence Starts with Safety

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Well Name: PA	Well #: 534-20	API/UWI #: 05-045-20252	
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.504 deg. OR N 39 deg. 30 min. 14.209 secs.		Long: W 108.019 deg. OR W -109 deg. 58 min. 51.172 secs.	
Contractor: NABORS 577		Rig/Platform Name/Num: NABORS 577	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: KOHL, KYLE		Srvc Supervisor: MAGERS, MICHAEL	MBU ID Emp #: 339439

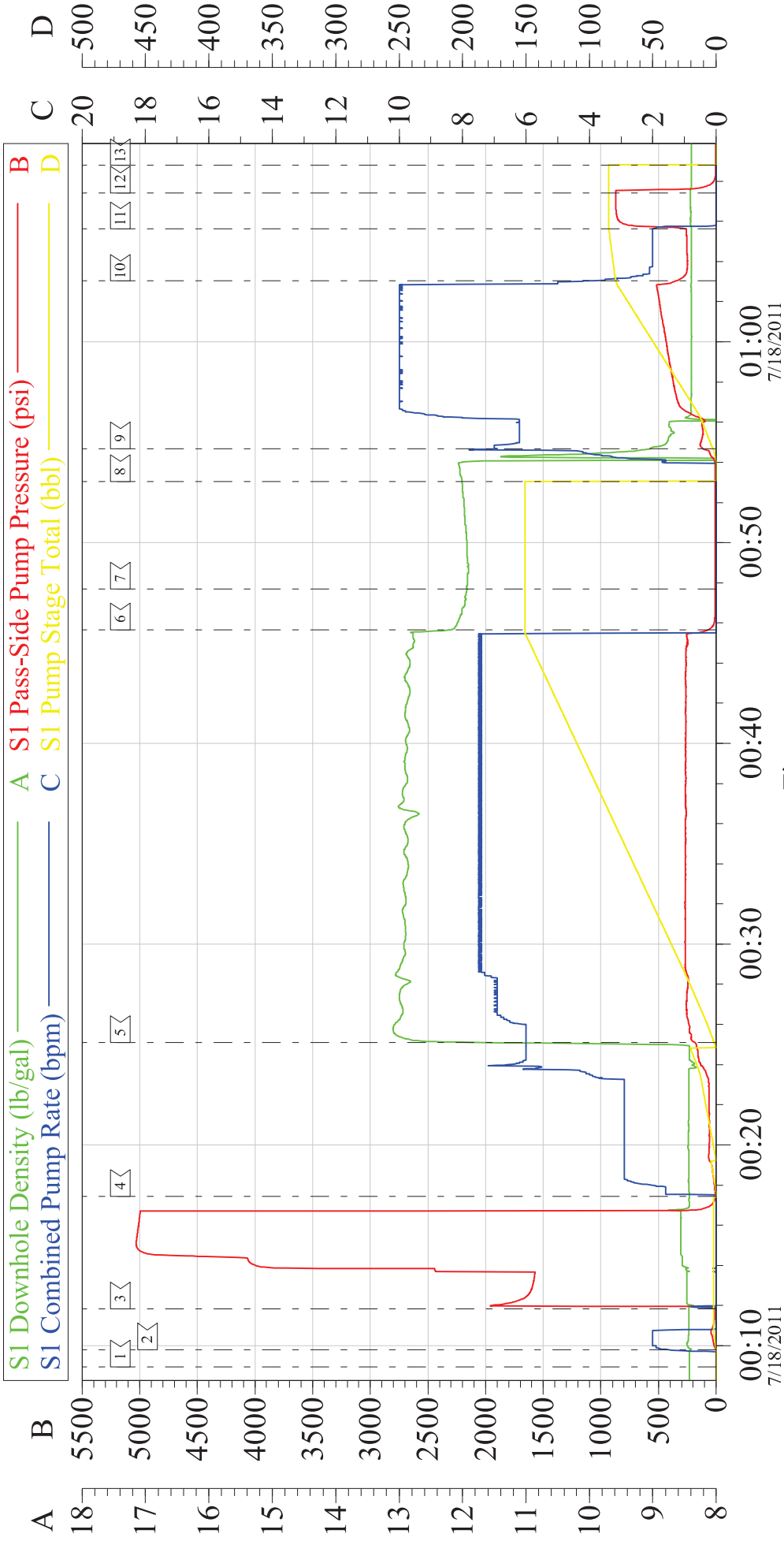
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Crew Leave Yard	07/17/2011 10:18							HES ALL PRESENT/COMPANY REP CALLED IN AND CHANGED ON LOCATION TIME TO 18:00/STAGED EQUIPMENT ON OLD LOCATION UNTIL THAT TIME
Arrive At Loc	07/17/2011 18:00							WIRELINE RIGGING DOWN EQUIPMENT/CASERS RIGGED UP EQUIPMENT RAN CASING/RIG CIRCULATED THRU THE PLUG CONTAINER WHILE HES RIGGED UP
Assessment Of Location Safety Meeting	07/17/2011 18:10							LOCATION IN GOOD CONDITION/NEW FIRST HOLE DRILLED
Rig-Up Equipment	07/17/2011 23:00							1 PICKUP 1 ELITE 2 BULK TRUCKS
Pre-Rig Up Safety Meeting	07/17/2011 23:15							JSA ON RIGGING UP
Safety Huddle	07/17/2011 23:50							RIG CREW AND HES ALL PRESENT
Start Job	07/18/2011 00:08							TD-1146 TP-1136 SJ-42.4 MW-9.9 CSG-9.625 32.3# H-40 OH-13.5
Other	07/18/2011 00:09		2	2			46.0	FILL LINES
Pressure Test	07/18/2011 00:11		0.5	0.5			5079.0	PSI TEST OK

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	07/18/2011 00:17		3	20			63.0	FRESH WATER
Pump Tail Cement	07/18/2011 00:25		8	146.5			269.0	VERSACEM 390 SKS 12.8 PPG 2.11 FT3/SK 11.75 GAL/SK
Shutdown	07/18/2011 00:45							
Drop Plug	07/18/2011 00:53							PLUG AWAY NO PROBLEMS
Pump Displacement	07/18/2011 00:54		10	86.1			499.0	FRESH WATER
Slow Rate	07/18/2011 01:03		2	76			250.0	GOT 40 BBLS OF CEMENT TO SURFACE
Bump Plug	07/18/2011 01:05		2	86.1			264.0	BUMPED PLUG
Check Floats	07/18/2011 01:07			86.1			866.0	FLOATS HELD/GOT 1/2 BBL BACK INTO DISPLACEMENT TANK
End Job	07/18/2011 01:08							HAD GOOD CIRCULATION THROUGHOUT JOB/THANKS FOR USING HES AND THE CREW OF MIKE MAGERS

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job		1120 <u>Max Psi</u>			
6	Test Lines	5000.0				
9	H2O Spacer	20.0	3 bbls/min			
15	Pump Tail Cement	146.6	390	12.8	2.11	11.75
48	Shut Down					
32	Drop Plug					
23	Pump Frsh Wtr Displacement	86.1	10 bbls/min			
1085	Slow Rate	76.0	2 bbls/min			
26	Bump Plug	254 PSI	Plus	500	Over	754 PSI
511	Check Floats					
2	Release Psi / Job Over					
Do Not Overdisplace						
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH		FLOAT COLLAR	BBL/FT	H2O REQ.
86.07	1136	42.40		1093.60	0.0787	250
PSI to Lift Pipe	428	*****Use Mud Scales on Each Tier*****				
Total Displacement	86.07					
CALCULATED DIFFERENTIAL PSI		254		TOTAL FLUID PUMPED		253
Collapse	1400	Burst	2370		SO#	8306340

WILLIAMS NABORS 577

9.625 SURFACE

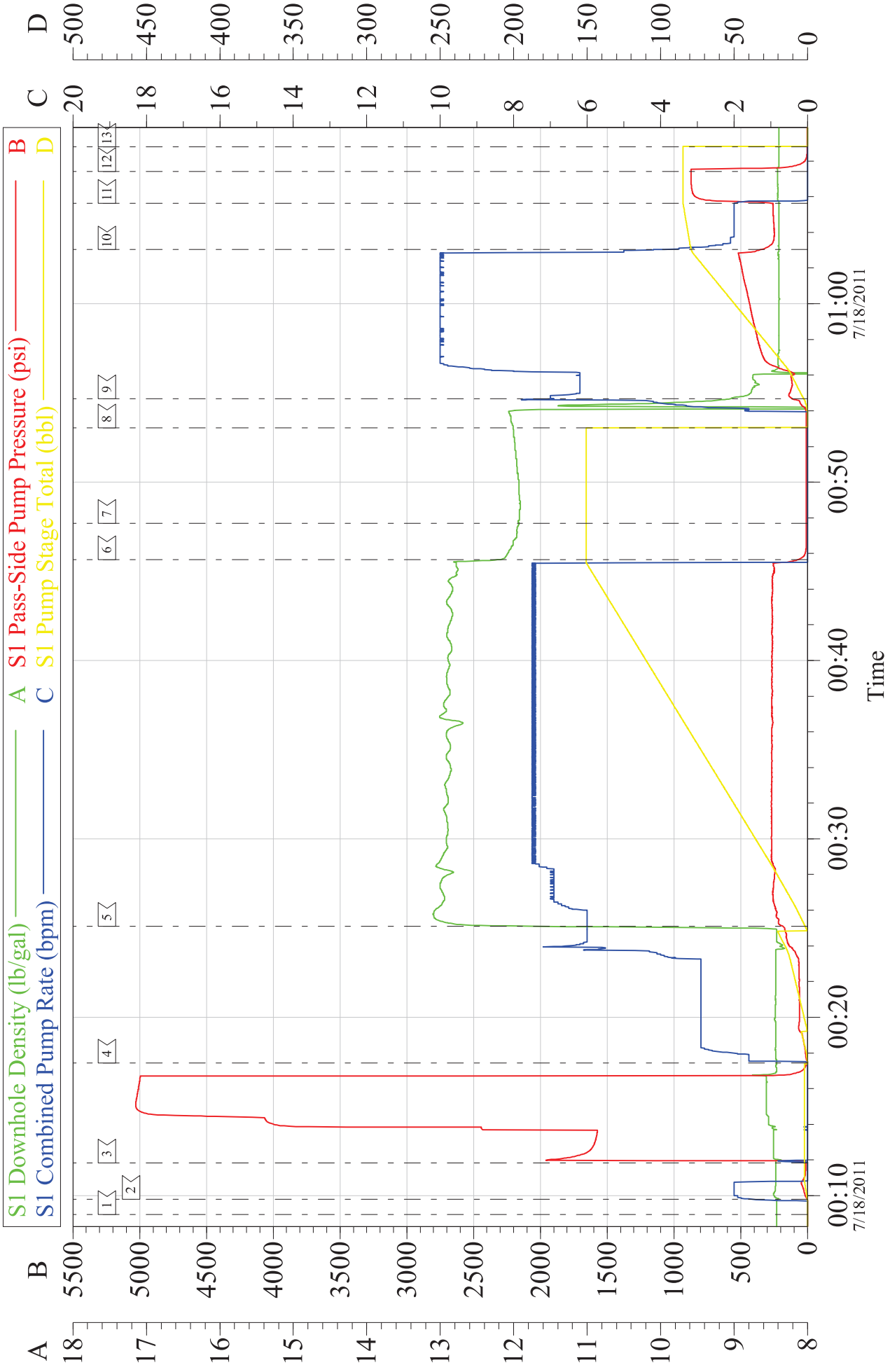


Local Event Log								
1	START JOB	00:08:57	2	FILL LINES	00:09:47	3	PRESSURE TEST	00:11:50
4	PUMP SPACER	00:17:27	5	PUMP TAIL CEMENT	00:25:07	6	SHUT DOWN	00:45:39
7	WASH UP TUB	00:47:42	8	DROP PLUG	00:53:03	9	PUMP FRSH WTR DISPLACEMENT	00:54:41
10	SLOW RATE	01:03:02	11	BUMP PLUG	01:05:38	12	CHECK FLOATS	01:07:25
13	END JOB	01:08:47						

Customer:	WILLIAMS NABORS 577	Job Date:	17-Jul-2011	Sales Order #:	8306340
Well Description:	PA 534-20	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	JEREMY HARRISON	Cement Supervisor:	MIKE MAGERS	Elite #:	7
					STEVE BORSZICH

WILLIAMS NABORS 577

9.625 SURFACE



Customer: WILLIAMS NABORS 577	Job Date: 17-Jul-2011	Sales Order #: 8306340
Well Description: PA 534-20	Job Type: SURFACE	ADC Used: YES
Company Rep: JEREMY HARRISON	Cement Supervisor: MIKE MAGERS	Elite #: 7 STEVE BORSZICH

HALLIBURTON

Water Analysis Report

Company: WILLIAMS NABORS 577

Date: 7/17/2011

Submitted by: MIKE MAGERS

Date Rec.: 7/17/2011

Attention: J.Trout/ C.Martinez

S.O.# 8306340

Lease PA

Job Type: SURFACE

Well # 534-20

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7.5
Potassium (K)	<i>5000</i>	0 Mg / L
Calcium (Ca)	<i>500</i>	425 Mg / L
Iron (FE2)	<i>300</i>	3 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	65 Deg
Total Dissolved Solids		130 Mg / L

Respectfully: MIKE MAGERS

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 i

Sales Order #: 8306340	Line Item: 10	Survey Conducted Date: 7/18/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: JEREMY HARRISON		API / UWI: (leave blank if unknown) 05-045-20252
Well Name: PA		Well Number: 534-20
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	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	7/18/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	MICHAEL MAGERS (HX13672)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	JEREMY HARRISON
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 #: 8306340	Line Item: 10	Survey Conducted Date: 7/18/2011
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Customer Representative: JEREMY HARRISON		API / UWI: (leave blank if unknown) 05-045-20252
Well Name: PA		Well Number: 534-20
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	7/18/2011

Cementing KPI Survey	
Type of Job Select the type of job <input type="checkbox"/> Cementing or Non-Cementing <input type="checkbox"/>	0
Select the Maximum Deviation range for this Job What is the biggest 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 <input type="checkbox"/> Pumping <input type="checkbox"/> Rig-down <input type="checkbox"/> Enter in decimal format	2
HSE Incident <input type="checkbox"/> Accident <input type="checkbox"/> Injury HSE Incident <input type="checkbox"/> Accident <input type="checkbox"/> Injury <input type="checkbox"/> This should be recordable incidents only	No
Was the job purpose achieved? Was the job delivered correct <input type="checkbox"/> as per customer agreed design <input type="checkbox"/>	Yes
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job <input type="checkbox"/> Enter in decimal format	1
Customer Non-Productive Rig Time (hrs) Lost time due to Halliburton in the start <input type="checkbox"/> execution <input type="checkbox"/> or completion of an ordered service or product <input type="checkbox"/> or delays in a follow-on service <input type="checkbox"/> Enter in decimal format: 0 if none	0
Type of Rig Classification Job Was Performed Type Of Rig <input type="checkbox"/> classification <input type="checkbox"/> Job Was Performed On	Drilling Rig <input type="checkbox"/> Portable <input type="checkbox"/>
Number Of JSAs Performed Number Of Jsas Performed	4
Number of Unplanned Shutdowns Unplanned shutdown is <input type="checkbox"/> open injection stops for an <input type="checkbox"/> period of time <input type="checkbox"/>	0
Was this a Primary Cement Job (Yes / No)	Yes

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Well Name: PA		Well Number: 534-20
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

Primar <input type="checkbox"/> Cement Job <input type="checkbox"/> Casing Job <input type="checkbox"/> Liner Job <input type="checkbox"/> or Tie-back <input type="checkbox"/> Job <input type="checkbox"/>	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs <input type="checkbox"/>	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	5
Was Automated Density Control Used? Was Automated Density Control (ADC) Used <input type="checkbox"/>	Yes
Pump Rate (percent) of Job Stayed At Designed Pump Rate Pump Rate range defined as +/- 1 bbl/min Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped multiplied by 100	5
Nbr of Remedial Square Jobs Required After Primary Job Performed Because of Competition Number Of Remedial Square Jobs Required After Primary Job Performed Because of Competition	0
Nbr of Remedial Plug Jobs Required Because of HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped Because of HES	0
Nbr of Remedial Square Jobs Required Because of HES Number Of Remedial Square Jobs Required After Primary Job Performed Because of HES	0