
WILLIAMS PRODUCTION RMT INC - EBUS

**KP 544-21
MAMM CREEK
Garfield County , Colorado**

Cement Surface Casing
04-Dec-2011

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2891222	Quote #:	Sales Order #: 9067600
Customer: WILLIAMS PRODUCTION RMT INC - EBUS	Customer Rep: Duniho, Al		
Well Name: KP	Well #: 544-21	API/UWI #: 05-045-20703	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.506 deg. OR N 39 deg. 30 min. 20.207 secs.	Long: W 107.552 deg. OR W -108 deg. 26 min. 54.326 secs.		
Contractor: CYCLONE 30	Rig/Platform Name/Num: CYCLONE 30		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: MAYO, MARK	Srv Supervisor: JAMISON, PRICE	MBU ID Emp #: 229155	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
COURTNEY, TREVOR	8.5	509351	DEUSSEN, EDWARD Eric	8.5	485182	JAMISON, PRICE W	8.5	229155
JENSEN, SHANE Lynn	8.5	441759	KUKUS, CARLTON Dean	8.5	458577			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10001431	60 mile	10564022	60 mile	10724643	60 mile	10867425	60 mile
10897891	60 mile	11560046	60 mile	11562538	60 mile	11583934	60 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12/4/11	8.5	3						

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	03 - Dec - 2011	21:00	MST
Form Type	BHST		Job Started	04 - Dec - 2011	01:30	MST
Job depth MD	1334.4 ft	Job Depth TVD	1350. ft	Job Completed	04 - Dec - 2011	08:00
Water Depth		Wk Ht Above Floor	4. ft	Job Completed	04 - Dec - 2011	09:08
Perforation Depth (MD)	From	To	Departed Loc	04 - Dec - 2011	10:00	MST

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				.	1350.	.	1350.
SURFACE CASING	Unknown		9.625	9.001	32.3		H-40	.	1334.4	.	1334.4

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		

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			
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	8.4	.0	.0	6.0	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	220.0	sacks	12.3	2.38	13.75	8.0	13.75
	13.75 Gal	FRESH WATER							
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	8.0	11.75
	11.75 Gal	FRESH WATER							
4	Displacement Fluid		101.5	bbl	8.4	.0	.0	10.0	
Calculated Values		Pressures		Volumes					
Displacement	101.5	Shut In: Instant		Lost Returns	NO	Cement Slurry	153.4	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement	101.5	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	275
Rates									
Circulating	10	Mixing	8	Displacement	10	Avg. Job	8		
Cement Left In Pipe	Amount	44.6 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					

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Well Name: KP	Well #: 544-21	API/UWI #: 05-045-20703	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.506 deg. OR N 39 deg. 30 min. 20.207 secs.		Long: W 107.552 deg. OR W -108 deg. 26 min. 54.326 secs.	
Contractor: CYCLONE 30		Rig/Platform Name/Num: CYCLONE 30	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srv Supervisor: JAMISON, PRICE	MBU ID Emp #: 229155

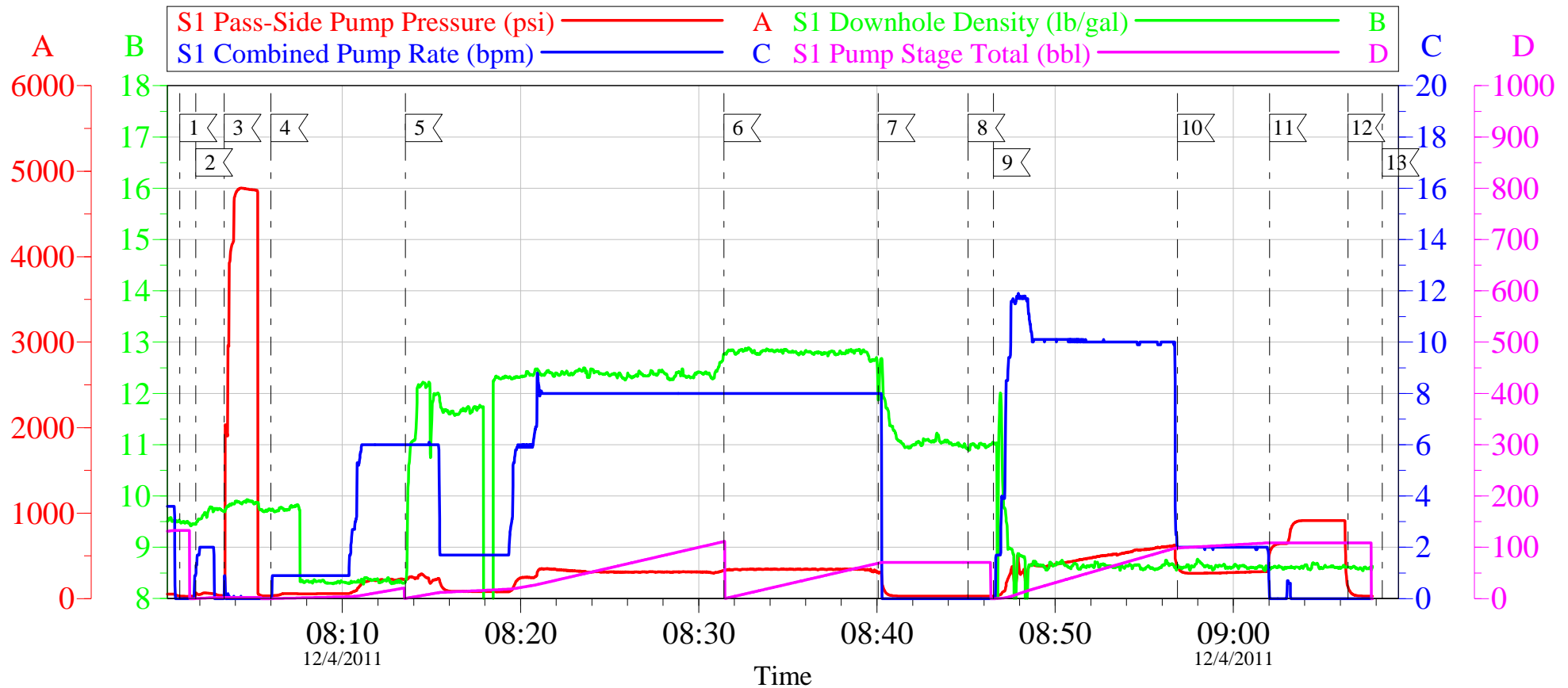
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/03/2011 21:00							TD 1350 HOLE SIZE 13.5 TP 1334.4 CASING 9.625 32.3 # H-40 SHOE JOINT 44.62 FT MUD 9.4 PPG
Depart Yard Safety Meeting	12/03/2011 23:20							
Crew Leave Yard	12/03/2011 23:30							
Arrive At Loc	12/04/2011 01:30							
Assessment Of Location Safety Meeting	12/04/2011 01:45							
Pre-Rig Up Safety Meeting	12/04/2011 04:00							
Pre-Job Safety Meeting	12/04/2011 07:30							
Start Job	12/04/2011 08:00							
Prime Pumps	12/04/2011 08:01		2	2			66.0	FRESH WATER
Test Lines	12/04/2011 08:03						5000. 0	
Pump Spacer 1	12/04/2011 08:06		6	20			231.0	FRESH WATER
Pump Lead Cement	12/04/2011 08:13		8	93.3			349.0	MIXED @ 12.3 PPG YIELD 2.38 WAT/REQ 13.75 220 SKS
Pump Tail Cement	12/04/2011 08:31		8	60.1			348.0	MIXED @ 12.8 PPG YIELD 2.11 WAT/REQ 11.75 160 SKS
Shutdown	12/04/2011 08:40							
Drop Plug	12/04/2011 08:45							

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	12/04/2011 08:46		10					FRESH WATER
Slow Rate	12/04/2011 08:56		4	91			620.0	
Bump Plug	12/04/2011 09:02		4	101.5			311.0	PRESSURE UP TO 914 PSI
Check Floats	12/04/2011 09:06							FLOATS HELD
End Job	12/04/2011 09:08							CEMENT BACK TO SURFACE 20 BBLS
Post-Job Safety Meeting (Pre Rig-Down)	12/04/2011 09:10							GOOD RETURNS THROUGHOUT JOB
Depart Location Safety Meeting	12/04/2011 09:50							CASING WAS NOT MOVED THROUGHOUT JOB
Crew Leave Location	12/04/2011 10:00							THANKS FOR USING HALLIBURTON BILL JAMISON & CREW

WILLIAMS KP 544-21

9.625 SURFACE CASING



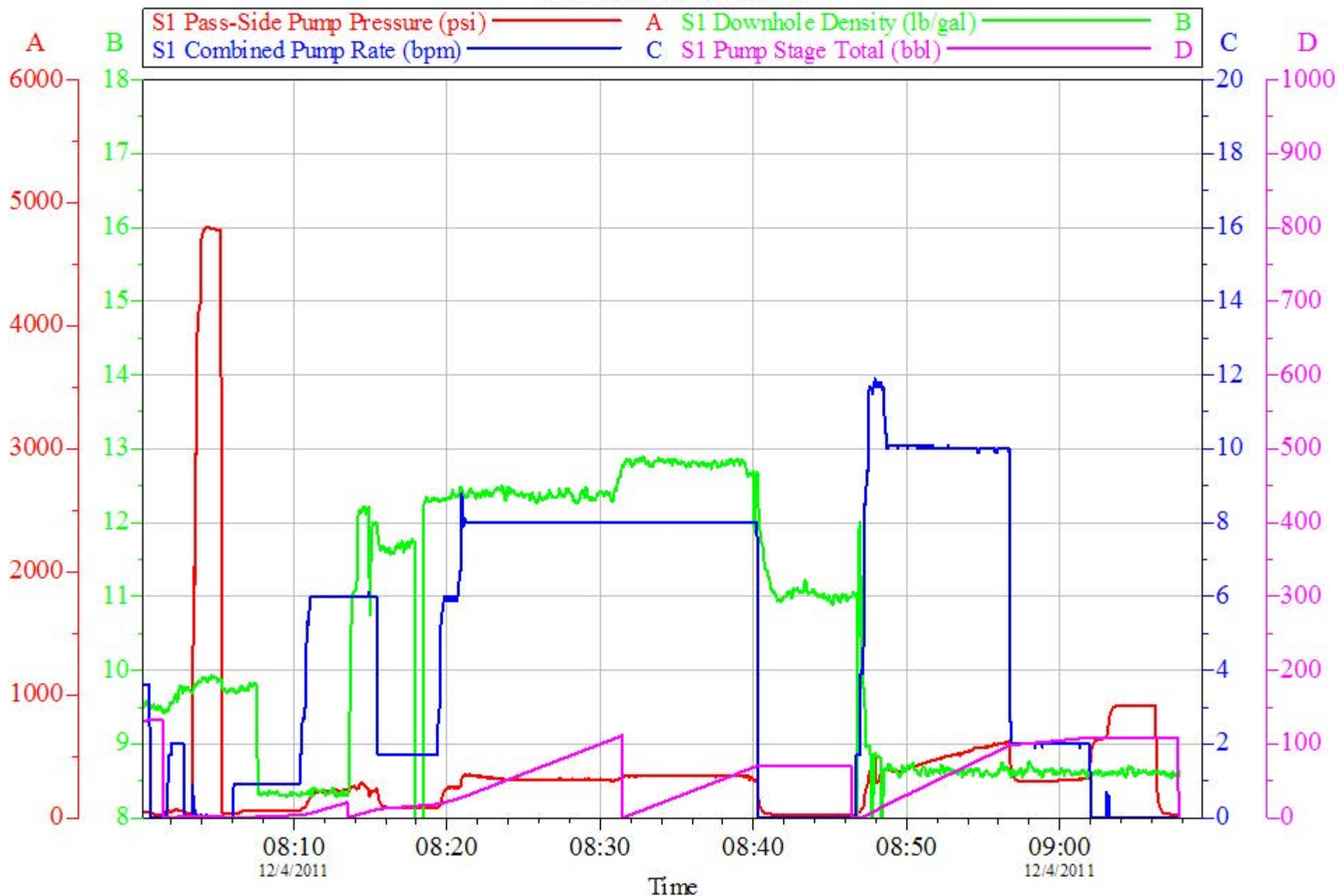
Local Event Log					
1	START JOB	08:00:53	2	PRIME LINES	08:01:46
3	TEST LINES	08:03:22	4	START FRESH WATER SPACER	08:06:00
5	START LEAD CEMENT	08:13:32	6	START TAIL CEMENT	08:31:24
7	SHUT DOWN	08:40:04	8	DROP PLUG	08:45:07
9	START DISPLACEMENT	08:46:32	10	SLOW RATE	08:56:52
11	BUMP PLUG	09:02:02	12	CHECK FLOATS	09:06:26
13	END JOB	09:08:21			

Customer:	WILLIAMS	Job Date:	04-Dec-2011	Sales Order #:	9067600
Well Description:	KP 544-21	Job Type:	CEMENT	ADC Used:	YES
Company Rep:	AL DUNIHO	Cement Supervisor:	BILL JAMISON	Elite # 5	SHANE JENSEN

OptiCem v6.4.10
04-Dec-11 09:10

WILLIAMS KP 544-21

9.625 SURFACE CASING



Customer: WILLIAMS
Well Description: KP 544-21
Company Rep: AL DUNIHO

Job Date: 04-Dec-2011
Job Type: CEMENT
Cement Supervisor: BILL JAMISON

Sales Order #: 9067600
ADC Used: YES
Elite # 5 SHANE JENSEN

OptiCem v6.4.10
04-Dec-11 09:09

HALLIBURTON

Water Analysis Report

Company: WILLIAMS PRODUCTION

Submitted by: BILL JAMISON

Attention: JOHN TROUT

Lease KP

Well # 544-21

Date: 12/4/2011

Date Rec.: 12/4/2011

S.O.# 9067600

Job Type: 9 5/8" SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>200</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>120</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>-200</i> Mg / L
Chlorine (Cl ₂)		<i>0</i> Mg / L
Temp	<i>40-80</i>	<i>40</i> Deg
Total Dissolved Solids		<i>210</i> Mg / L

Respectfully: BILL JAMISON

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

Sales Order #: 9067600	Line Item: 10	Survey Conducted Date: 12/4/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL DUNIHO		API / UWI: (leave blank if unknown) 05-045-20703
Well Name: KP		Well Number: 544-21
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	12/4/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	PRICE JAMISON (HAL9235)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	AL DUNIHO
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	GOOD JOB MEN

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	12/4/2011

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
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	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: KP		Well Number: 544-21
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