

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RWF 323-25

Nabors 577

Post Job Summary

Cement Surface Casing

Date Prepared: 04/20/2014

Submitted by: Grand Junction Cement Engineering

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123570	Quote #:	Sales Order #: 0901264943
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep:		
Well Name: SAVAGE	Well #: RWF 323-25	API/UWI #: 05-045-21990-00	
Field: RULISON	City (SAP): RIF	County/Parish: GARFIELD	State: COLORADO
Legal Description: NE SW-25-6S-94W-1662FSL-2304FWL			
Contractor: NABORS DRLG	Rig/Platform Name/Num: NABORS 577		
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\H105431	Srvc Supervisor: Francisco Javier Castillo		
Job			

Formation Name			
Formation Depth (MD)	Top	Bottom	1211
Form Type		BHST	
Job depth MD	1211ft	Job Depth TVD	
Water Depth		Wk Ht Above Floor	
Perforation Depth (MD)	From	To	

Well Data										
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		9.625	9.001	32.3	8 RD	H-40	0	1164	0	0
Open Hole Section			13.5				0	1211	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1	WTF	1164		Top Plug	9.625	1	HES
Float Shoe						Bottom Plug			
Float Collar	9.625	1	WTF	1124.5		Turbolizers	9.625	2	WTF
Insert Float						Plug Container	9.625	1	HES
Stage Tool						Centralizers	9.625	6	WTF

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/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	30	bbl	8.34			4		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	Lead Cement	VARICEM (TM) CEMENT	140	sack	12.3	2.38		7	13.77	
13.70 Gal			FRESH WATER							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Tail Cement	VARICEM (TM) CEMENT	170	sack	12.8	2.11		7	11.77
11.71 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Displacement	Displacement	89	bbl	8.33			10	
Cement Left In Pipe		Amount	39.01 ft		Reason		Shoe Joint		
Comment									

Summary Report



Crew: _____

Job Start Date: 4/15/2014

Sales Order #: 0901264943
WO #: 0901264943
PO/AFE #: NA

Customer:	WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Field:	RULISON	Job Type:	CMT SURFACE CASING BOM
UWI / API Number:	05-045-21990-00	County/Parish:	GARFIELD	Service Supervisor:	Francisco Castillo
Well Name:	SAVAGE	State:	COLORADO		
Well No:	RWF 323-25	Latitude:	39.494032	Cust Rep Name:	
		Longitude:	-107.837851	Cust Rep Phone #:	
		Sect / Twn / Rng:	25/6/94		

Remarks:

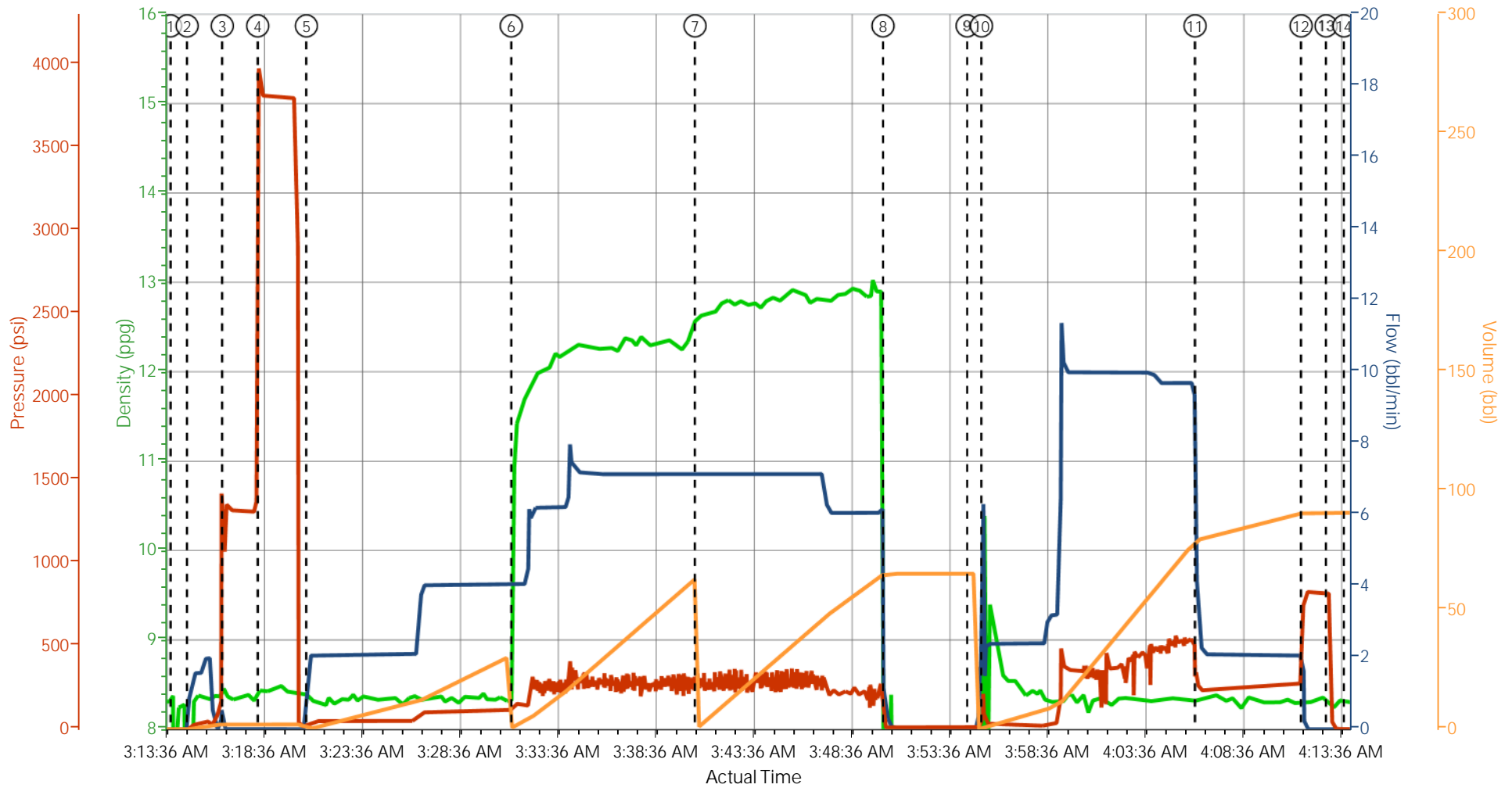
The Information Stated Herein Is Correct	Customer Representative Signature	Date
	Customer Representative Printed Name	

1.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	Density	Rate	Pressure	Total	Comment
Event	1	CALL OUT	4/14/2014	17:00:00	USER					ON LOCATION AT MIDNIGHT
Event	2	DEPART YARD SAFETY MEETING	4/14/2014	18:50:00	USER					ALL HES PERSONEL
Event	3	CREW LEAVE THE YARD	4/14/2014	19:00:00	USER					
Event	4	ARRIVE ON LOCATION	4/14/2014	20:30:00	USER					RIG WAS BEGINING TO PULL DRILL PIPE OUT OF THE HOLE
Event	5	PRE-RIG UP SAFETY MEETING	4/14/2014	21:00:00	USER					RIG UP COMPLETE AT 22:00 HRS
Event	6	PRE-JOB SAFETY MEETING	4/15/2014	03:00:00	USER					ALL HES PERSONEL AND RIG CREW
Event	7	START JOB	4/15/2014	03:13:00	USER					TD-1211', OH-13.5", TP-1163.51', SJ-39.01', FC-1124.51', CSG-9.625", 32.3#, H-40, MUD-9.8, FV-139, PV-55, YP-39, pH-9.5, TEMP-62
Event	8	FILL LINES	4/15/2014	03:14:00	USER	8.33 PPG	2 BPM	47 PSI	2 BBLS	FRESH WATER
Event	9	STALL OUT	4/15/2014	03:15:00	USER					LOW PRESSURE TEST AT 1312 PSI
Event	10	TEST LINES	4/15/2014	03:17:00	USER					HIGH PRESSURE TEST AT 3802 PSI
Event	11	FRESH WATER SPACER	4/15/2014	03:20:00	USER	8.33 PPG	4 BPM	114 PSI	30 BBLS	FRESH WATER
Event	12	LEAD SLURRY	4/15/2014	03:30:00	USER	12.3 PPG	7 BPM	271 PSI	60 BBLS	140 SKS, 2.38 FT3/SK, 13.77 GAL/SK, SETUP TIME 2:38 HRS AT 70 BC
Event	13	TAIL SLURRY	4/15/2014	03:39:00	USER	12.8 PPG	7 BPM	286 PSI	64 BBLS	170 SKS, 2.11 FT3/SK, 11.77 GAL/SK, SETUP TIME 1:51 HRS AT 70 BC
Event	14	SHUTDOWN	4/15/2014	03:49:00	USER					
Event	15	DROP TOP PLUG	4/15/2014	03:54:00	USER					VERIFIED BY CUSTOMER AND DRILLER
Event	16	PUMP DISPLACEMENT	4/15/2014	03:54:30	USER	8.33 PPG	10 BPM	568 PSI	78 BBLS	FRESH WATER

Event	17	SLOW RATE	4/15/2014	04:05:00	USER	8.33 PPG	2 BPM	263 PSI	10 BBLS	
Event	18	BUMP PLUG	4/15/2014	04:12:00	USER			850 PSI	TOTAL DISP. 89 BBLS	CIRCULATED 3 BBLS / 7 SKS OF CEMENT TO THE PIT
Event	19	CHECK FLOATS	4/15/2014	04:14:00	USER					FLOATS HELD / FLOW BACK TO DISPLACEMENT TANK .75 BBL
Event	20	END JOB	4/15/2014	04:16:00	USER					USED 40 LBS OF SUGAR. GOOD CIRCULATION THROUGH OUT THE ENTIRE JOB.
Event	21	RIG DOWN SAFETY MEETING	4/15/2014	04:20:00	USER					RIG DOWN COMPLETE AT 05:45 HRS
Event	22	DEPART LOCATION SAFETY MEETING	4/15/2014	05:50:00	USER					NO INJURIES WERE REPORTED AFTER THE JOB
Event	23	CREW LEAVE LOCATION	4/15/2014	06:00:00	USER					
Event	24	THANK YOU	4/15/2014	06:01:00	USER					THANK YOU FOR YOUR BUSINESS FROM JAVIER CASTILLO AND CREW

WPX RWF 323-25 SURFACE



DH Density (ppg) Comb Pump Rate (bbl/min) PS Pump Press (psi) Pump Stg Tot (bbl)

- START JOB 5.81;0;-5.14;0
- STALL OUT 8.41;0;1359.89;2.04
- WATER SPACER 8.32;2.09;40.8;0.23
- TAIL SLURRY 12.61;7.14;318.31;1.07
- DROP PLUG 0.08;0;8.93;65.27
- FILL LINES 4.02;0.91;0.49;0.16
- TEST LINES 8.44;0;3810.55;2.05
- LEAD SLURRY 11.18;4.06;147.68;1.36
- SHUTDOWN 0.11;0.52;9.86;65.21
- PUMP DISPLACEMENT 10.13;1.47;26.74

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Created: 2014-04-15 07:10:20, Version: 3.0.121

Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date : 4/15/2014 2:03:00 AM

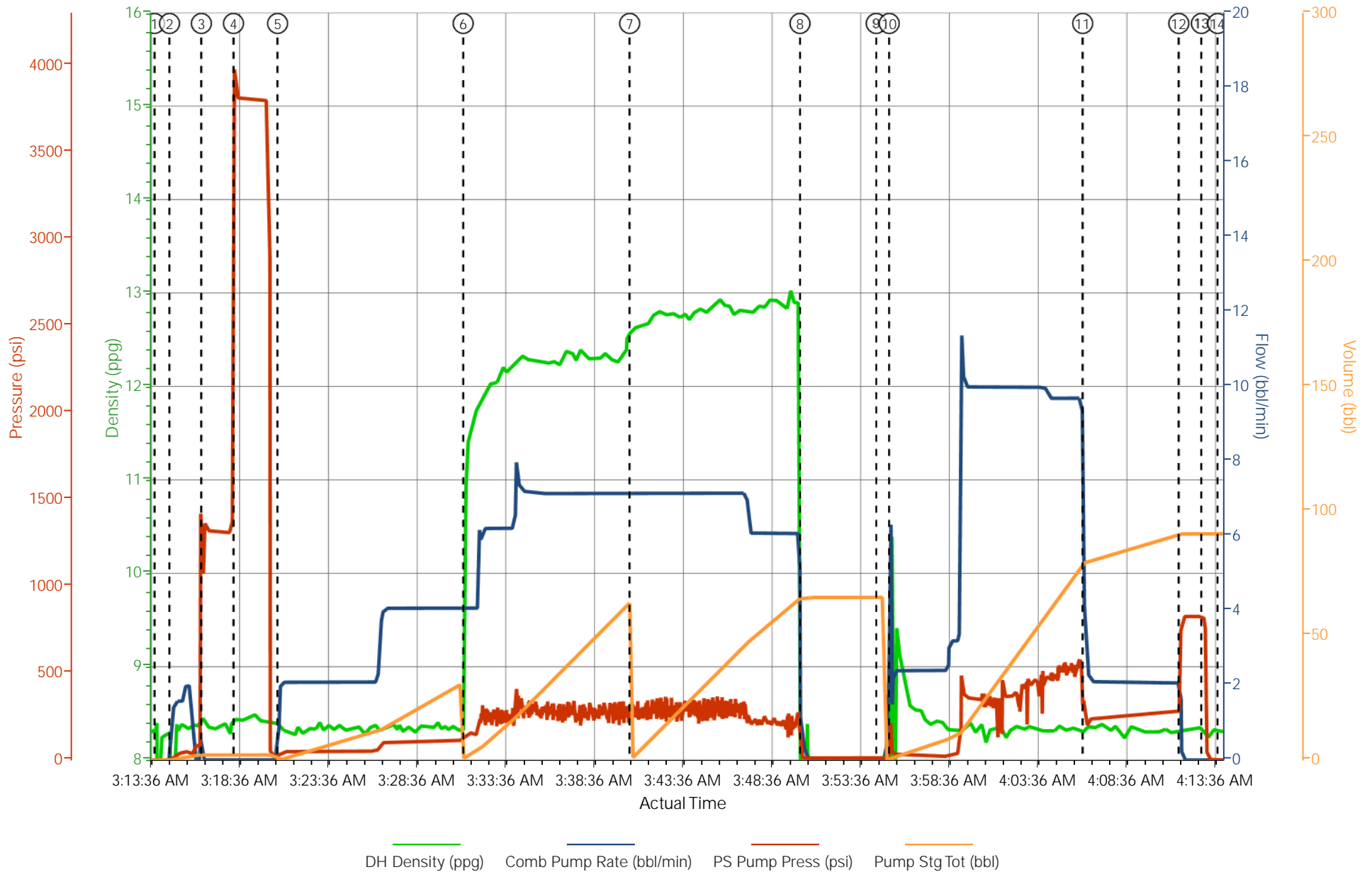
Well : RWF 323-25

Representative: SCOTT GEARY

Sales Order #: 901264943

ELITE #2: J. CASTILLO / DAN SINCLAIR

WPX RWF 323-25 SURFACE



HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: JAVIER CASTILLO

Attention: Chuck Ross

Lease RWF

Well # 323-25

Date: 4/14/2014

Date Rec.: 4/14/2014

S.O.# 901264943

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	200 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	40 Deg
Total Dissolved Solids		1130 Mg / L

Respectfully: JAVIER CASTILLO

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 if

Sales Order #: 0901264943	Line Item: 10	Survey Conducted Date: 4/15/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: SCOTT GEARY		API / UWI: (leave blank if unknown) 05-045-21990-00
Well Name: SAVAGE		Well Number: 0080125645
Well Type: DIRECTIONAL GAS	Well Country: USA	
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	4/15/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB85312
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	SCOTT GEARY
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	

CUSTOMER SIGNATURE

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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	4/15/2014

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.	9
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 Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	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	95
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	95
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