

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 541-27

Nabors 576

Post Job Summary

Cement Production Casing

Date Prepared: 11/16/2014
Job Date: 11/10/2014

Submitted by: Aaron Katz – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3207564	Quote #:	Sales Order #: 0901813587
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: RICK OAKS	
Well Name: FEDERAL		Well #: PA 541-27	API/UWI #: 05-045-22244-00
Field: PARACHUTE	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 27-6S-95W-2390FNL-649FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 576	
Job BOM: 7523			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: JAVIER CASTILLO	

Job

Formation Name	
Formation Depth (MD)	Top 2937ft Bottom 8781ft
Form Type	BHST
Job depth MD	8781ft 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	NEW	9.625	9.001	32.3			0	2937		0
Casing		4.5	4	11.6			0	8771		0
Open Hole Section			8.75				2790	8781	0	0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe					Top Plug	4.5	1	HES
Float Shoe	4.5	1	WTF	8771	Bottom Plug			
Float Collar	4.5	1	WTF	8741	SSR plug set			
Insert Float					Plug Container	4.5	1	HES
Stage Tool					Centralizers	4.5		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	10	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	

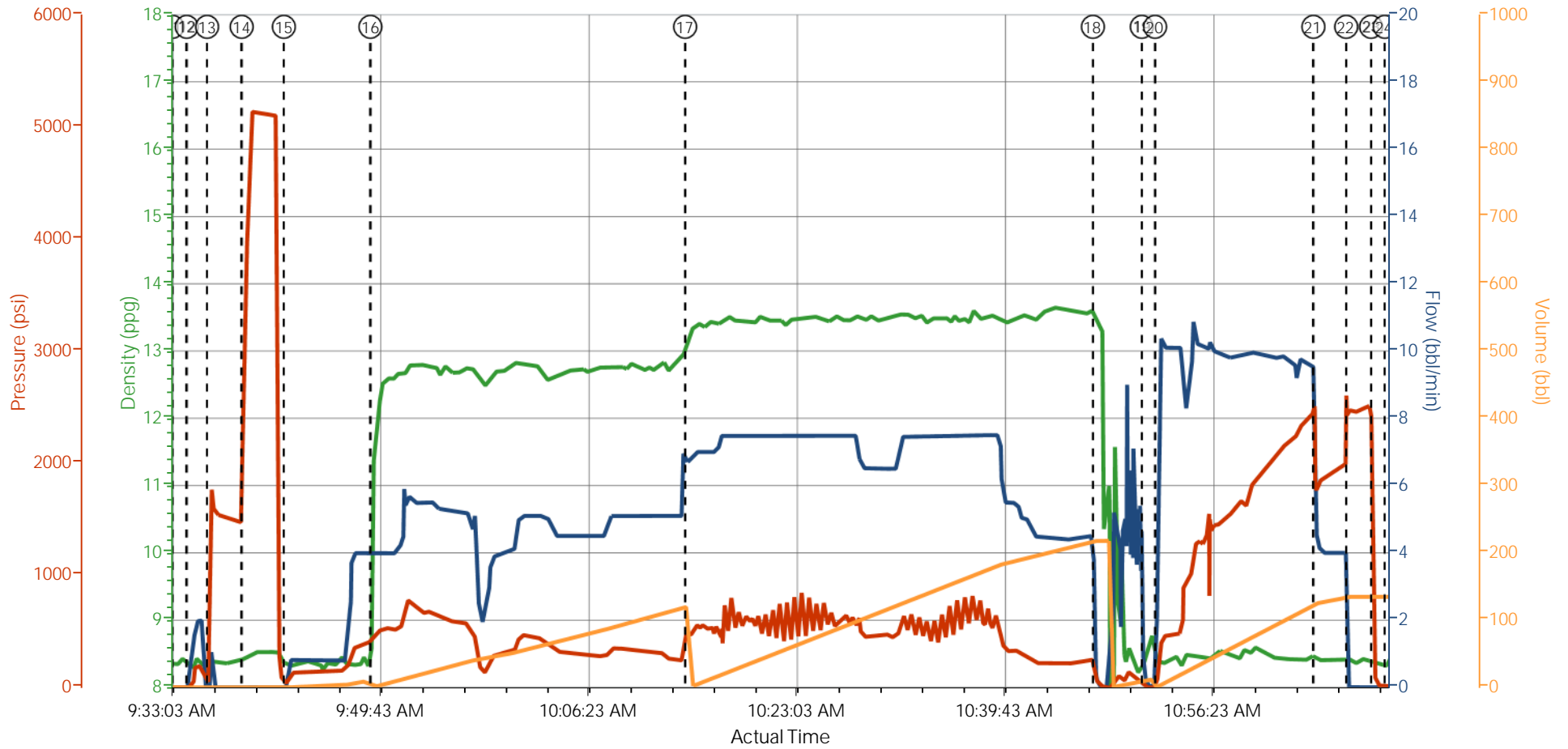
2	EconoCem GJ2	ECONOCEM (TM) SYSTEM	390	sack	12.7	1.66		5	8.51
8.69 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	ThermaCem GJ2	THERMACEM (TM) SYSTEM	665	sack	13.5	1.74		7.5	7.61
7.72 Gal		FRESH 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	Fresh Water Displacement	Fresh Water Displacement	135	bbl	8.34			10	
Cement Left In Pipe		Amount	29 ft		Reason		Shoe Joint		
Comment									

1.1 Job Event Log

Graph Label	Date	Time	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
CALL OUT	11/9/2014	17:00:00					ON LOCATION AT 04:00 HRS 11/10/14
DEPART YARD SAFETY MEETING	11/9/2014	23:50:00					
CREW LEAVE THE YARD	11/10/2014	00:15:00					
ARRIVE ON LOCATION	11/10/2014	02:00:00					RIG WAS STILL RUNNING CASING
RIG LAND CASING	11/10/2014	06:00:00					RIG STARTED CIRCULATING THE WELL
STAGE TRUCKS	11/10/2014	07:00:00					SPOT TRUCKS AFTER CASING CREW CLEARED THE LOCATION
RIG UP MEETING	11/10/2014	07:30:00					
RIG UP	11/10/2014	07:35:00					1-ELITE, 1-660, 1-1700FT3 SILO, 2" PUMING IRON, 4.5" PLUG CONTAINER, QUICK CONNECT, AND BALE BASKET
RIG UP COMPLETE	11/10/2014	08:50:00					
PRE-JOB SAFETY MEETING	11/10/2014	09:00:00					ALL HES PERSONEL AND RIG CREW
START JOB	11/10/2014	09:33:23					TD-8781', SET DEPTH-8771' , OH-8.75", SJ-29.67', FC-8741.54', CSG-4.5", 11.6#, I-80, MUD-11.6 PPG, FV-51, PV-24, YP-21, pH- 8.9, TEMP-101
FILL LINES	11/10/2014	09:34:30	8.33 PG	2 BPM	206 PSI	2 BBLS	FRESH WATER
STALL OUT	11/10/2014	09:36:08					HELD PRESSURE AT 1545 PSI
TEST LINES	11/10/2014	09:38:54					HELD PRESSURE AT 5138 PSI
WATER SPACER	11/10/2014	09:42:17	8.33 PPG	4 BPM	420 PSI	10 BBLS	FRESH WATER

	4						
LEAD SLURRY	11/10/2014	09:49:13	12.7 PPG	5 BPM	400 PSI	115 BBLS	390 SKS, 12.7 PPG, 1.66 FT3/SK, 8.51 GAL/SK, SETUP TIME 6:51 HRS AT 70 BC
TAIL SLURRY	11/10/2014	10:14:24	13.5 PPG	7.5 BPM	550 PSI	206 BBLS	665 SKS, 13.5 PPG, 1.74 FT3/SK, 7.61 GAL/SK, SETUP TIME 2:14 HRS AT 70 BC
SHUTDOWN	11/10/2014	10:47:02					GOOD RETURN THROUGH OUT CEMENTING
DROP TOP PLUG	11/10/2014	10:50:56					VERIFIED BY COMPANY-MAN AND DRILLER
DISPLACEMENT	11/10/2014	10:52:00	8.4 PPG	10 BPM	2500 PSI	125 BBLS	KCL + 3 LBS BE-6, 1-GAL MMCR
SLOW RATE	11/10/2014	11:04:40	8.4 PPG	4 BPM	1993 PSI	10 BBLS	
BUMP PLUG	11/10/2014	11:07:18			2545 PSI	TOTAL DISP. 135 BBLS	GOOD CIRCULATION THROUGH OUT DISPLACEMENT
CHECK FLOATS	11/10/2014	11:09:17					FLOATS HELD WITH 1.25 BBLS FLOW BACK
END JOB	11/10/2014	11:10:23					
RIG DOWN SAFETY MEETING	11/10/2014	11:13:00					
RIG DOWN	11/10/2014	11:17:00					
RIG DOWN COMPLETE	11/10/2014	12:30:00					
DEPART LOCATION SAFETY MEETING	11/10/2014	12:35:00					NO INJURIES WERE REPORTED AFTER THE JOB
CREW LEAVE LOCATION	11/10/2014	13:00:00					
THANK YOU	11/10/2014	13:01:00					THANK YOU FOR YOUR BUSINESS FROM JAVIER CASTILLO AND CREW

WPX PA 541-27 PRODUCTION



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

- | | | | | |
|---|---|---|---|---|
| • CALL OUT n/a;n/a;n/a;n/a | • STAGE TRUCKS n/a;n/a;n/a;n/a | • START JOB 8.31;0;-1;0 | • LEAD SLURRY 11.55;4;435;1.1 | 21 SLOW RATE 8.41;4 |
| • DEPART YARD SAFETY MEETING n/a;n/a;n/a;n/a | • RIG UP MEETING n/a;n/a;n/a;n/a | • FILL LINES 8.34;0.9;2;0.1 | • TAIL SLURRY 13.29;6.7;489.96;65.07 | 22 BUMP PLUG 8.4;0; |
| • CREW LEAVE THE YARD n/a;n/a;n/a;n/a | • RIG UP n/a;n/a;n/a;n/a | • STALL OUT 8.37;1.1;41;1.8 | • SHUTDOWN 13.55;0.2;58;217.8 | 23 CHECK FLOATS 8.; |
| • ARRIVE ON LOCATION n/a;n/a;n/a;n/a | • RIG UP COMPLETE n/a;n/a;n/a;n/a | • TEST LINES 8.39;0;2974;1.8 | • DROPTOP PLUG 8.29;0.2;12;11.7 | 24 END JOB 8.42;0;0; |
| • RIG LAND CASING n/a;n/a;n/a;n/a | • PRE-JOB SAFETY MEETING 8.36;0;0;16.3 | • WATER SPACER 8.35;0.9;29;0.1 | 20 DISPLACEMENT 8.37;6.6;202;1.2 | 25 RIG DOWN SAFET |

▼ HALLIBURTON | iCem® Service

Created: 2014-11-10 08:54:53, Version: 3.0.121

Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date : 11/10/2014 8:55:45 AM

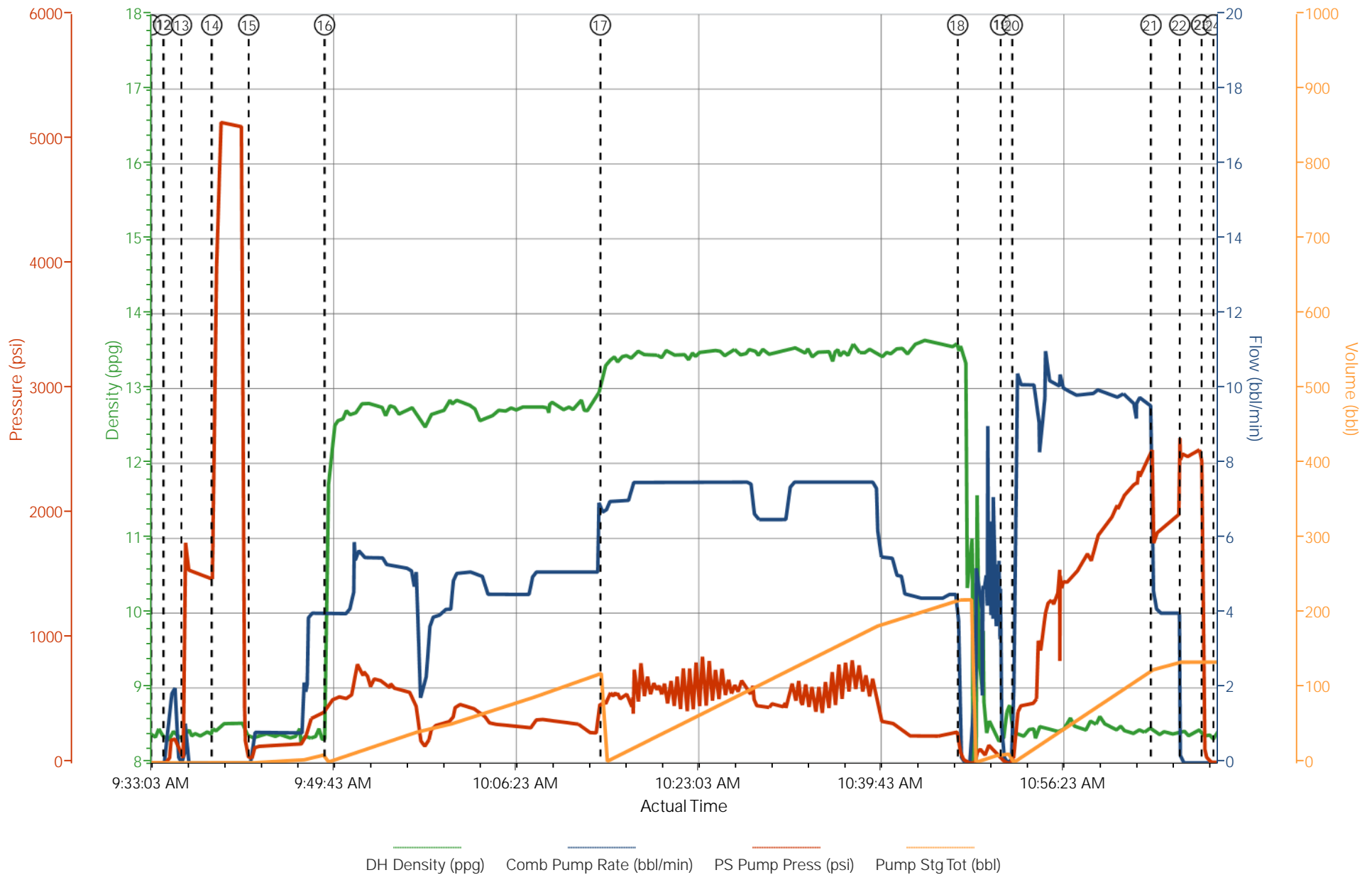
Well : PA 541-27

Representative: RICK OAKS

Sales Order # : 901813587

ELITE #2: J. CASTILLO / DAN SINCLAIR

WPX PA 541-27 PRODUCTION



HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: JAVIER CASTILLO

Attention: Chuck Ross

Lease: PA

Well #: 541-27

Date: 11/10/2014

Date Rec.: 11/10/2014

S.O.#: 901813587

Job Type: PRODUCTION

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>	60 Deg
Total Dissolved Solids		730 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 its use.

Sales Order #: 0901813587	Line Item: 10	Survey Conducted Date: 11/10/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: RICK OAKS		API / UWI: (leave blank if unknown) 05-045-22244-00
Well Name: FEDERAL		Well Number: 0080244822
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	11/10/2014
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	RICK OAKS
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	11/10/2014

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.	11
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.	2
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