

WPX Energy Rocky Mountain LLC-EBUS

RU 544-7

Nabors 576

Post Job Summary

Cement Surface Casing

Date Prepared: 5/15/2015
Job Date: 5/2/2015

Submitted by: Keven Nye – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3599722	Quote #:	Sales Order #: 0902378694
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: AL HARTL	
Well Name: YOUNBERG RU	Well #: 544-7	API/UWI #: 05-045-22518-00	
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE SE-7-7S-93W-1121FSL-1184FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 576	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: DAVID CAMPBELL	

Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1370ft Job Depth TVD
Water Depth	Wk Ht Above Floor 5 FT
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	0	9.625	9.001	32.3	8 RD (LT&C)	H-40	0	1352		0
Open Hole Section			13.5				0	1370		0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		1352	Top Plug	9.625	1	HES
Float Shoe	9.625				Bottom Plug	9.625		
Float Collar	9.625	1		1307.8	SSR plug set	9.625		
Insert Float	9.625				Plug Container	9.625	1	HES
Stage Tool	9.625				Centralizers	9.625		

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	20	bbl	8.33			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	VariCem GJ1	VARICEM (TM) CEMENT	175	sack	12.3	2.38		8	13.77	

13.77 Gal		FRESH WATER							
0.25 lbm		POLY-E-FLAKE (101216940)							
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	VariCem GJ1	VARICEM (TM) CEMENT	175	sack	12.8	2.11		8	11.78
0.25 lbm		POLY-E-FLAKE (101216940)							
11.78 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	102.9	bbl	8.4			10.2	
Cement Left In Pipe	Amount	44 ft			Reason			Shoe Joint	
Mix Water:	7PH	Mix Water Chloride:	0		Mix Water Temperature:		57 °F		
Cement Temperature:		Plug Displaced by:	8.4 PPG		Disp. Temperature:		57°F		
Plug Bumped?	Yes	Bump Pressure:	360 PSI		Floats Held?		Yes		
Cement Returns:		Returns Density:			Returns Temperature:				
Comment									

1.0 Real-Time Job Summary

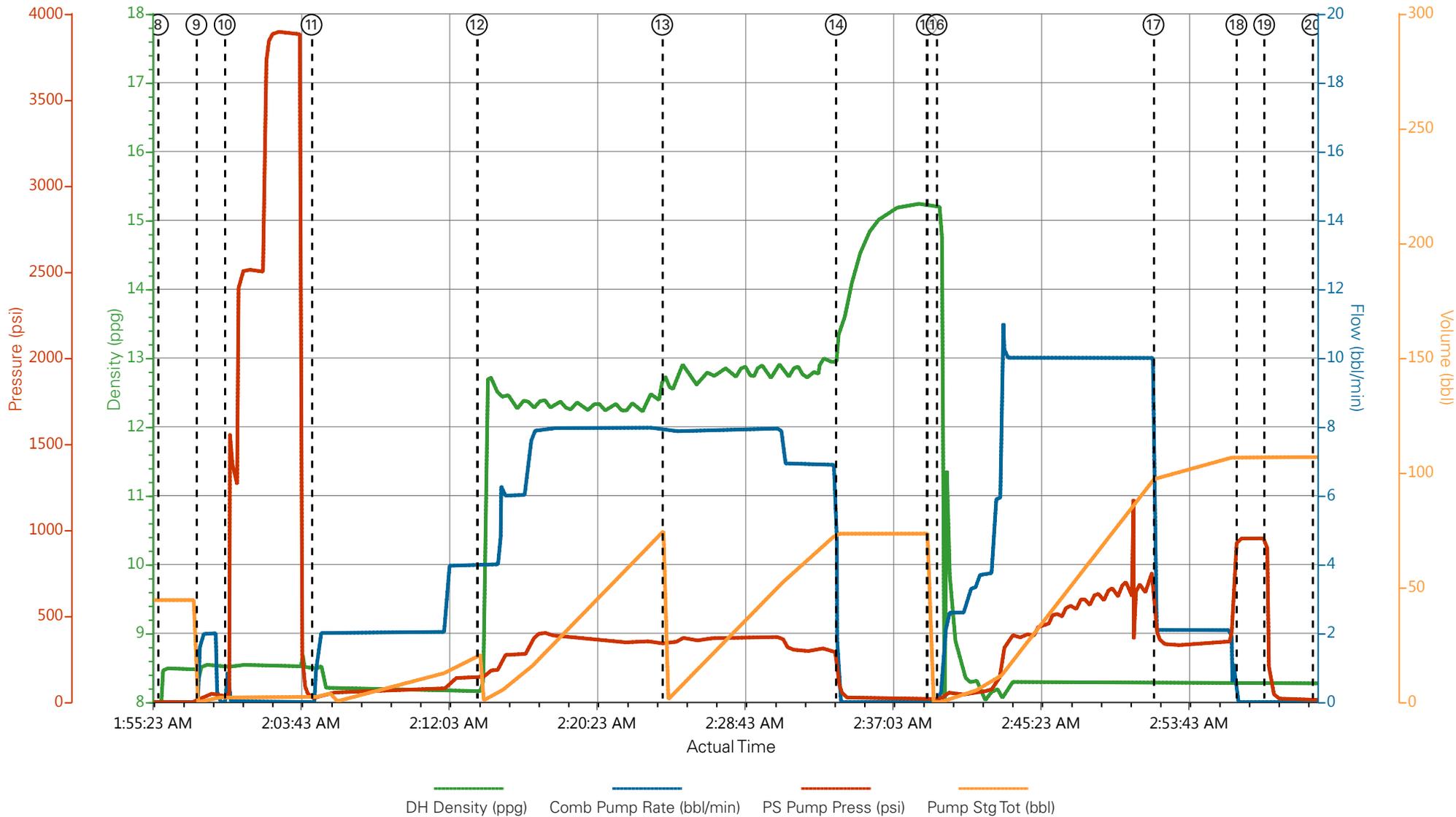
1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	Call Out	5/2/2015	15:00:00	USER					ELITE #4
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	5/2/2015	18:00:00	USER					ALL HES EMPLOYEES
Event	3	Arrive At Loc	Arrive At Loc	5/2/2015	20:00:00	USER					ARRIVED 1 HOUR EARLY DID NOT START CHARGING HOURS UNTIL REQUESTED ON LOCATION TIME
Event	4	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	5/2/2015	20:30:00	USER					ALL HES EMPLOYEES
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	5/2/2015	20:45:00	USER					ALL HES EMPLOYEES
Event	6	Rig-Up Equipment	Rig-Up Equipment	5/2/2015	21:00:00	USER					1 HT-400 PUMP TRUCK (ELITE #4) 1 660 BULK TRUCK 1 F-550 PICKUP
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	5/3/2015	01:30:00	USER					ALL HES EMPLOYEES AND RIG CREW RIG CIRCULATED FOR 30 MIN AT 12 BBL/ MIN PRIOR TO JOB
Event	8	Start Job	Start Job	5/3/2015	01:55:49	COM5					TD: 1370 TP: 1352 CSG 9 5/8 32.3# H-40 SJ: 44.12 OH: 13 1/2 MUD WEIGHT 10.7 PPG
Event	9	Prime Pumps	Fill Lines	5/3/2015	01:57:59	COM5	8.33	2.0	57.0	2.0	FILL LINES WITH 2 BBL FRESH WATER
Event	10	Test Lines	Test Lines	5/3/2015	01:59:35	COM5	8.33		3892.0	2.0	PRESSURE TEST OK
Event	11	Pump Spacer 1	Pump Spacer 1	5/3/2015	02:04:28	COM5	8.33	4.0	145.0	20.0	20 BBL FRESH WATER SPACER

Event	12	Pump Lead Cement	Pump Lead Cement	5/3/2015	02:13:47	COM5	12.3	8.0	395.0	74.2	175 SKS 12.3 PPG 2.38 YIELD 13.77 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES
Event	13	Pump Tail Cement	Pump Tail Cement	5/3/2015	02:24:13	COM5	12.8	8.0	375.0	65.7	175 SKS 12.8 PPG 2.11 YIELD 11.78 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES
Event	14	Shutdown	Shutdown	5/3/2015	02:34:00	USER					
Event	15	Pump Displacement	Pump Displacement	5/3/2015	02:39:07	COM5	8.4	10.0	740.0	102.9	FRESH WATER DISPLACEMENT WASH UP ON TOP OF PLUG AS PER COMPANY REP.
Event	16	Drop Top Plug	Drop Top Plug	5/3/2015	02:39:40	USER					PLUG AWAY NO PROBLEMS
Event	17	Slow Rate	Slow Rate	5/3/2015	02:51:53	USER	8.4	2.00	412.0	92.9	SLOW RATE TO BUMP PLUG
Event	18	Bump Plug	Bump Plug	5/3/2015	02:56:33	COM5	8.4	2.0	360.0	102.9	PSI BEFORE BUMPING PLUG AT 360 PSI BUMPED PLUG UP TO 952 PSI
Event	19	Check Floats	Check Floats	5/3/2015	02:58:06	USER					FLOATS HELD 1/2 BBL TO TRUCKS DISPLACEMENT TANK
Event	20	End Job	End Job	5/3/2015	03:00:49	COM5					GOOD RETURNS THROUGHOUT JOB PIPE WAS STATIC THROUGHOUT JOB 30 BBL OF CEMENT CIRCULATED TO SURFACE
Event	21	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	5/3/2015	03:15:00	USER					ALL HES EMPLOYEES
Event	22	Rig-Down Equipment	Rig-Down Equipment	5/3/2015	03:30:00	USER					
Event	23	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	5/3/2015	04:00:00	USER					ALL HES EMPLOYEES
Event	24	Crew Leave Location	Crew Leave Location	5/3/2015	04:30:00	USER					THANKS FOR USING HALLIBURTON CEMENT DAVID CAMPBELL AND

CREW

WPX - YOUBERG RU 544-7 - 9 5/8 SURFACE



- | | | | | |
|---|--------------------------|---------------------|-----------------|--------------------------------|
| ① Call Out | ⑥ Rig-Up Equipment | ⑪ Pump Spacer 1 | ⑯ Drop Top Plug | 21 Pre-Rig Down Safety Meeting |
| ② Pre-Convoy Safety Meeting | ⑦ Pre-Job Safety Meeting | ⑫ Pump Lead Cement | ⑰ Slow Rate | 22 Rig-Down Equipment |
| ③ Arrive At Loc | ⑧ Start Job | ⑬ Pump Tail Cement | ⑱ Bump Plug | 23 Pre-Convoy Safety Meeting |
| ④ Assessment Of Location Safety Meeting | ⑨ Fill Lines | ⑭ Shutdown | ⑲ Check Floats | 24 Crew Leave Location |
| ⑤ Pre-Rig Up Safety Meeting | ⑩ Test Lines | ⑮ Pump Displacement | 20 End Job | |

▼ **HALLIBURTON** | iCem® Service

Created: 2015-05-02 16:19:03, Version: 4.1.107

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 5/2/2015 11:21:19 PM

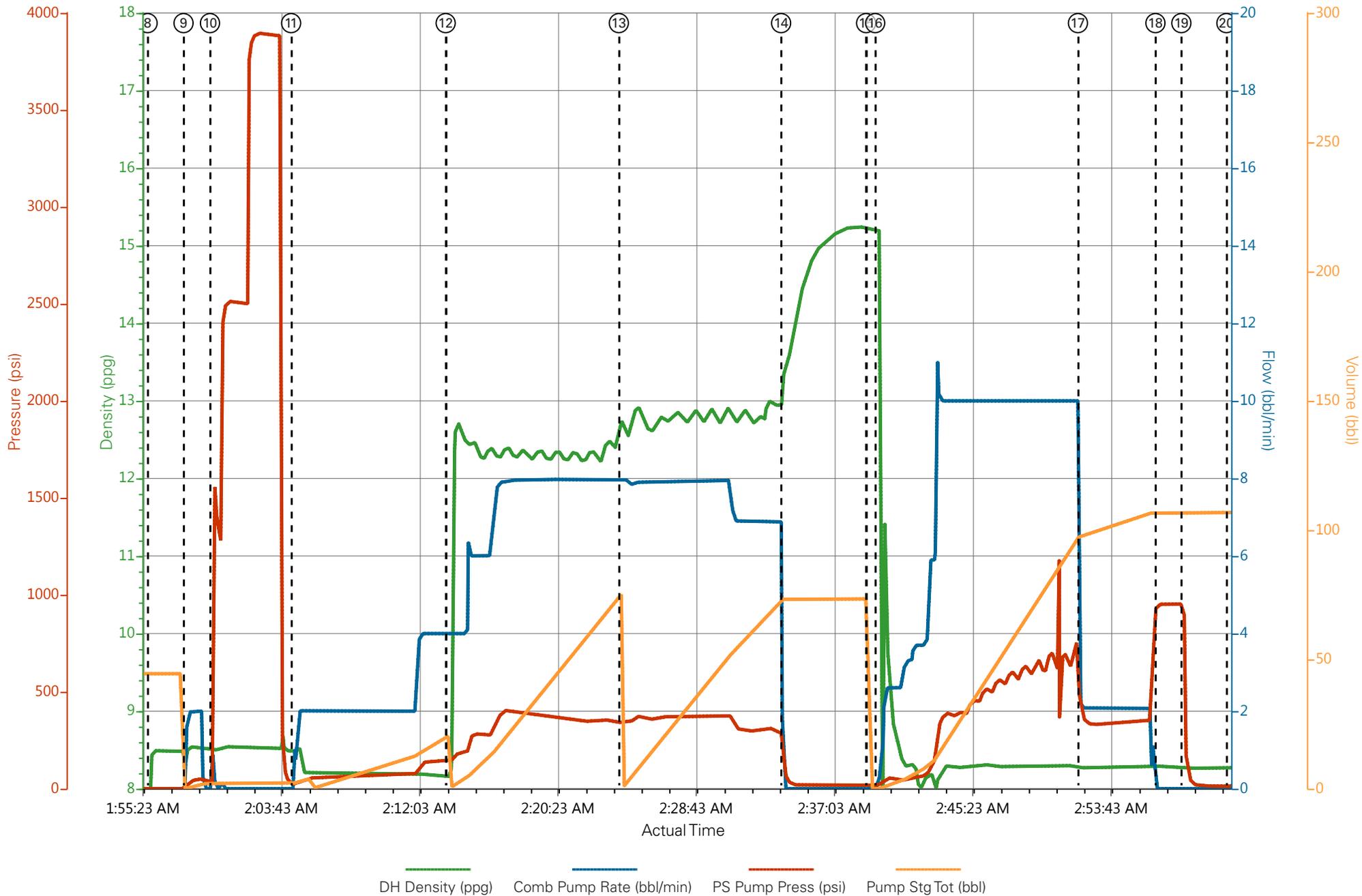
Well: YOUBERG RU 444-7

Representative: AL HARTL

Sales Order #: 0902378694

ELITE # 4: DAVID CAMPBELL/ JUSTIN BROWN

WPX - YOUBERG RU 544-7 - 9 5/8 SURFACE



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

HALLIBURTON

Water Analysis Report

Company: WPX

Date: 5/2/2015

Submitted by: DAVID CAMPBELL

Date Rec.: 5/2/2015

Attention: J. TROUT/C.MARTINEZ

S.O.# 902378694

Lease RU

Job Type: SURFACE

Well # 544-7

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	400 Mg / L
Calcium (Ca)	<i>500</i>	150 Mg / L
Iron (FE2)	<i>300</i>	0 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>40-90</i>	57 Deg
Total Dissolved Solids		120 Mg / L

Respectfully: DAVID CAMPBELL

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 #: 0902378694	Line Item: 10	Survey Conducted Date: 5/3/2015
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22518-00
Well Name: YOUBERG RU		Well Number: 0080688943
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	5/3/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX37079
Customer Participation	Did the customer participate in this survey? (Y/N)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

CUSTOMER SIGNATURE

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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	5/3/2015
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	4
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Pumping Hours	2
Total number of hours pumping fluid on this job. Enter in decimal format.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	6
Number Of Jsas Performed	
Was this a Primary Cement Job (Yes / No)	Yes
Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Customer Non-Productive Rig Time (hrs)	0

Sales Order #: 0902378694	Line Item: 10	Survey Conducted Date: 5/3/2015
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Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22518-00
Well Name: YOUBERG RU		Well Number: 0080688943
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

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.	
Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment? Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?	No
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
If a top plug was run, was the plug bumped? (Yes/No/N/A) If a top plug was run, was the plug bumped? (Yes/No/N/A)	Yes
If applicable, was Halliburton float equipment used? (Yes/No/N/A) If applicable, was Halliburton float equipment used? (Yes/No/N/A)	Not Available
If applicable, did the floats hold? (Yes/No/N/A) If applicable, did the floats hold? (Yes/No/N/A)	Yes
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	90
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	90
If applicable, were there returns throughout the job? (Yes/No/N/A) If applicable, were there returns throughout the job? (Yes/No/N/A)	Yes
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