

WPX Energy Rocky Mountain LLC - EBUS

RU 544-7

Nabors 576

Post Job Summary

Cement Production Casing

Date Prepared: 5/26/2015

Job Date: 5/10/2015

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3599722	Quote #:	Sales Order #: 0902388495
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: 7523			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: DUSTIN SMITH	
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	10062ft 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		9.625	9.001	32.3	8 RD	J-55	0	1352		0
Casing		4.5	4	11.6	8 RD	P-110	0	10062		0
Open Hole Section			8.75				1352	10071	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	4.5	1		10062		Top Plug	4.5	1	HES
Float Shoe	4.5								
Float Collar	4.5	1		10033.54					
Insert Float	4.5					Plug Container	4.5	1	HES
Stage Tool	4.5					Centralizers	4.5		

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 /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Fresh Water	Fresh Water	10	bbl	8.34			4.0	

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	EconoCem GJ2	ECONOCHEM (TM) SYSTEM	270	sack	12.7	1.66		8	8.53

		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	790	sack	13.5	1.75		8	7.63
KOL-SEAL, BULK (100064233)									
FRESH WATER									
HR-601, 50 LB BAG (101328348)									
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	KCL Displacement	KCL DISPLACEMENT	155.5	bbl	8.4			10.4	
MICRO MATRIX CEMENT RETARDER, 1 GAL PAIL (100003780)									
BE-6, 48 LB FIBER DRUM (100003800)									
Cement Left In Pipe	Amount	28.46 ft			Reason			Shoe Joint	
Mix Water:	pH 7	Mix Water Chloride:	0 ppm		Mix Water Temperature:			60 °F °	
Cement Temperature:	## °F °C	Plug Displaced by:	8.4 lb/gal		Disp. Temperature:				
Plug Bumped?	Yes	Bump Pressure:	2328 psi		Floats Held?			Yes/	
Comment									

1.0 Real-Time Job Summary

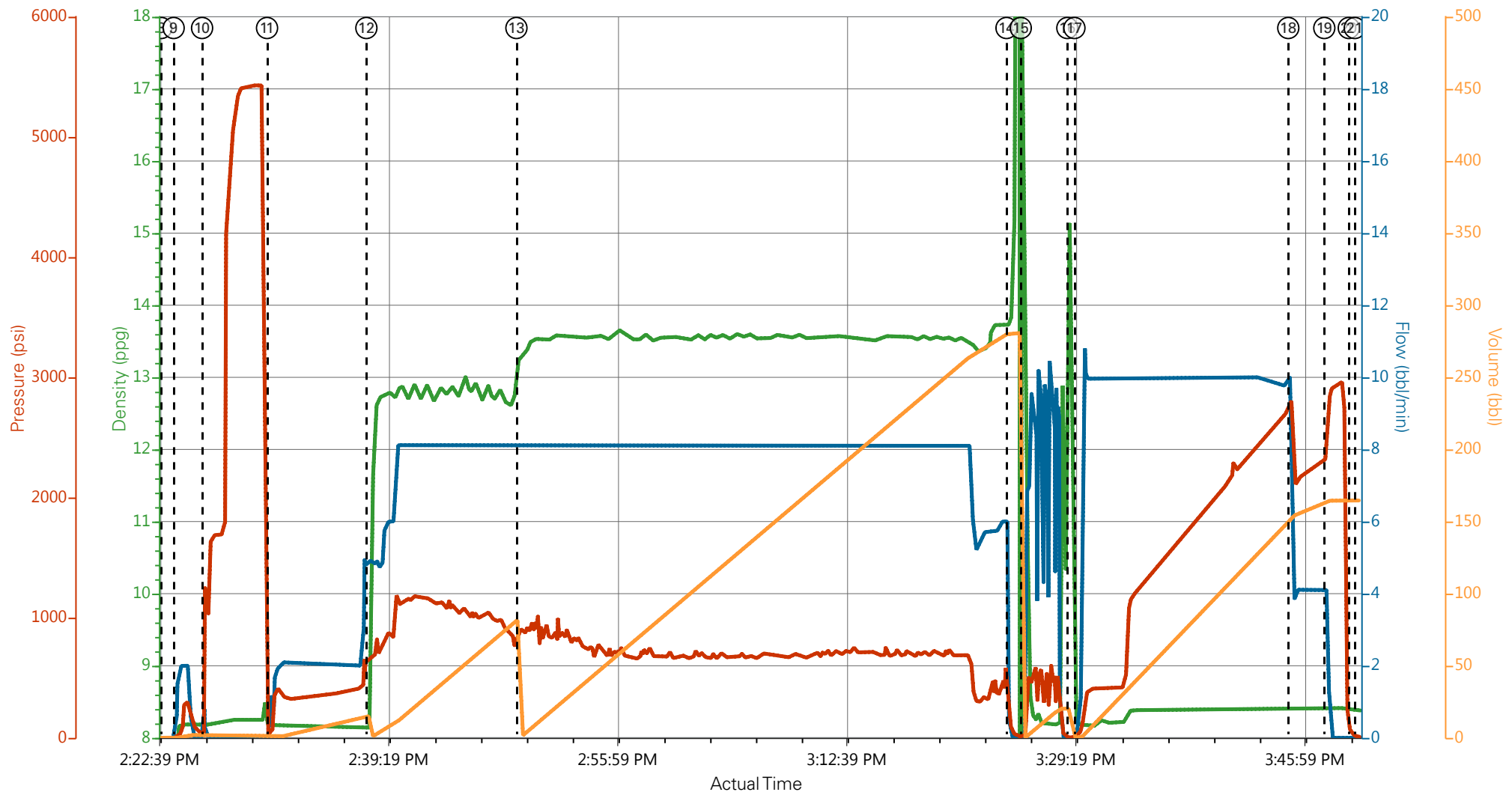
1.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	5/10/2015	07:00:00	USER					ELITE # 4
Event	2	Pre-Convoy Safety Meeting	5/10/2015	10:30:00	USER					ALL HES EMPLOYEES
Event	3	Arrive At Loc	5/10/2015	12:00:00	USER					ARRIVED ON LOCATION 1 HOUR EARLY DIDNT START CHARGING TIME UNTIL REQUESTED ON LOCATION TIME RIG FINISHING RUNNIG CASING
Event	4	Assessment Of Location Safety Meeting	5/10/2015	12:10:00	USER					ALL HES EMPLOYEES
Event	5	Pre-Rig Up Safety Meeting	5/10/2015	12:20:00	USER					ALL HES EMPLOYEES
Event	6	Rig-Up Equipment	5/10/2015	12:30:00	USER					1 HT-400 PUMP TRUCK (ELITE #4) 1 660 BULK TRUCK 1 F-550 PICKUP 1 IRON TRAILER 1 SILO
Event	7	Pre-Job Safety Meeting	5/10/2015	14:17:07	USER					ALL HES EMPLOYEES AND RIG CREW RIG CIRCULATED FOR 2 HOURS PRIOR TO THE JOB @ 12 BPM GAS @ 280 PRIOR TO STARTING THE JOB
Event	8	Start Job	5/10/2015	14:23:00	COM5					TD:10071 TP: 10062 SJ: 28.46 CSG: 4 1/2 11.6# P-110 OH: 8 3/4 SURFACE CASING @ 1352 9 5/8 32.3# MUD WT: 11.4 PPG
Event	9	Prime Pumps	5/10/2015	14:23:53	COM5	8.33	2.0	300	2.0	PRIME LINES WITH 2 BBLS FRESH WATER
Event	10	Test Lines	5/10/2015	14:25:58	COM5	8.33	0.0	5430	2.0	PRESSURE TEST OK
Event	11	Pump Spacer 1	5/10/2015	14:30:41	COM5	8.33	4.0	650	10	PUMP 10 BBL FRESH WATER SPACER
Event	12	Pump Lead Cement	5/10/2015	14:37:55	COM5	12.7	8.0	1200	79.8	270 SKS 12.7 PPG 1.66 YIELD 8.53 GAL/SK LEAD

CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD
SCALES

Event	13	Pump Tail Cement	5/10/2015	14:48:50	COM5	13.5	8.0	825	246.2	790 SKS 13.5 PPG 1.75 YIELD 7.63 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES
Event	14	Shutdown	5/10/2015	15:24:29	USER					SWAP MANIFOLD TO WASH UP
Event	15	Clean Lines	5/10/2015	15:25:32	USER					CLEAN PUMPS AND LINES TO THE PIT
Event	16	Drop Top Plug	5/10/2015	15:28:55	USER					PLUG AWAY NO PROBLEMS
Event	17	Pump Displacement	5/10/2015	15:29:26	COM5	8.4	10.0	2815	155.5	1 GAL MMCR 3#S BE-6 1 BAG/10 BBL KCL DISPLACEMENT
Event	18	Slow Rate	5/10/2015	15:45:00	USER	8.4	4.0	2328	145.0	SLOW RATE TO BUMP PLUG
Event	19	Bump Plug	5/10/2015	15:47:37	COM5	8.4	4.0	2901	155.5	PSI BEFORE BUMPING PLUG @ 2328 BUMPED PLUG UP TO 2901 PSI
Event	20	Check Floats	5/10/2015	15:49:24	USER					FLOATS HELD 1 1/2 BBLs BACK TO DISPLACEMENT TANKS
Event	21	End Job	5/10/2015	15:49:50	COM5					GOOD RETURNS THROUGHOUT THE JOB PIPE STATIC THROUGHOUT JOB
Event	22	Pre-Rig Down Safety Meeting	5/10/2015	16:00:00	USER					ALL HES EMPLOYEES
Event	23	Rig-Down Equipment	5/10/2015	16:15:00	USER					
Event	24	Pre-Convoy Safety Meeting	5/10/2015	17:45:00	USER					ALL HES EMPLOYEES
Event	25	Crew Leave Location	5/10/2015	18:00:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT DUSTIN SMITH AND CREW

WPX - YOUBERG RU 544-7 - 4 1/2 PRODUCTION



- | | | | | |
|---|--------------------------|---------------------------|---------------------|-------------------------------|
| ① Call Out | ⑥ Rig-Up Equipment | ⑪ Pump Fresh Water Spacer | ⑮ Drop Top Plug | ㉑ End Job |
| ② Pre-Convoy Safety Meeting | ⑦ Pre-Job Safety Meeting | ⑫ Pump Lead Cement | ⑰ Pump Displacement | ㉒ Pre-Rig Down Safety Meeting |
| ③ Arrive At Loc | ⑧ Start Job | ⑬ Pump Tail Cement | ⑱ Slow Rate | ㉓ Rig-Down Equipment |
| ④ Assessment Of Location Safety Meeting | ⑨ Prime Lines | ⑭ Shutdown | ⑲ Bump Plug | ㉔ Pre-Convoy Safety Meeting |
| ⑤ Pre-Rig Up Safety Meeting | ⑩ Test Lines | ⑮ Clean Lines | ⑳ Check Floats | ㉕ Crew Leave Location |

▼ **HALLIBURTON** | iCem® Service

Created: 2015-05-10 09:07:59, Version: 4.1.107

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 5/10/2015 1:53:47 PM

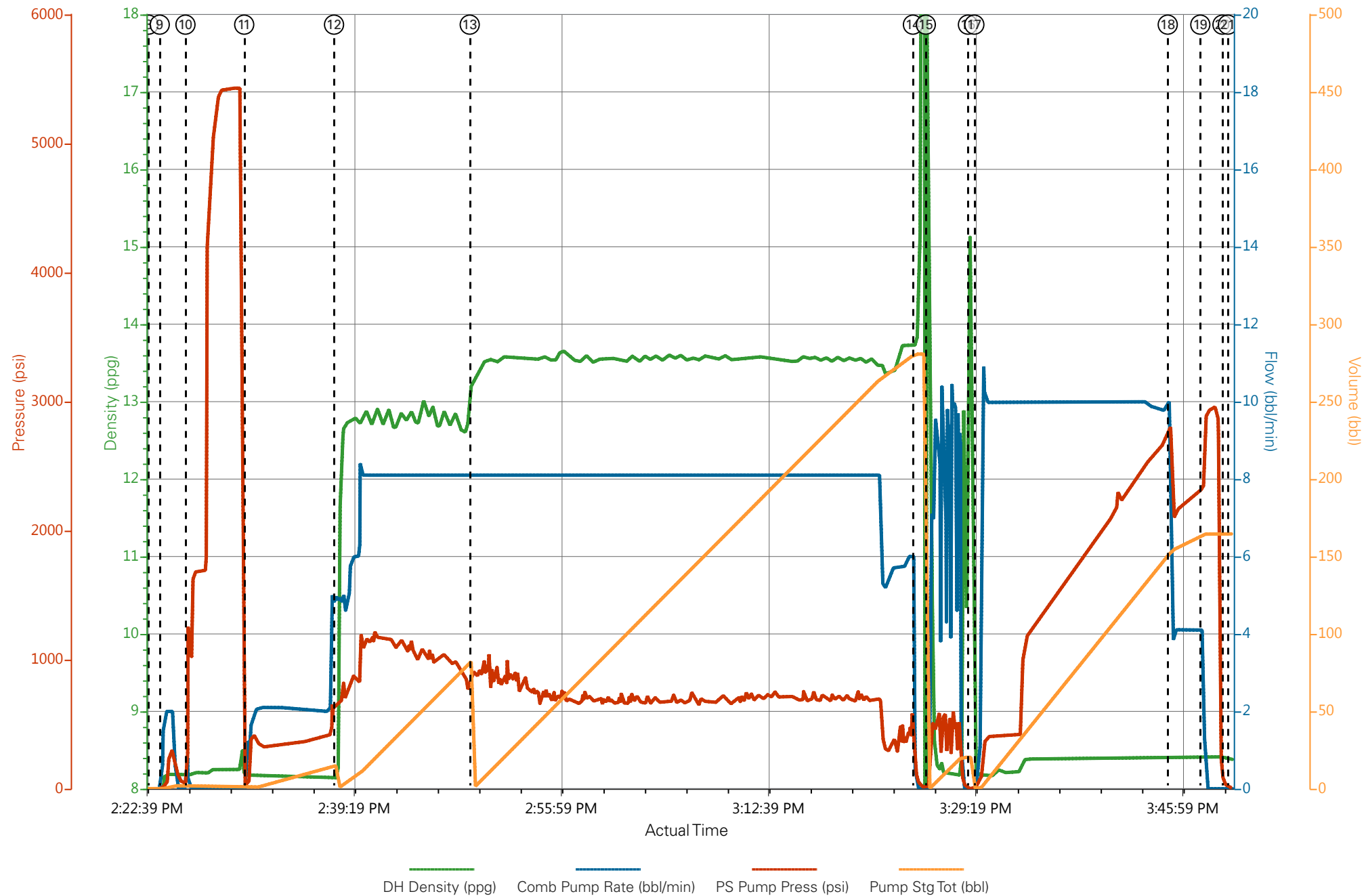
Well: YOUBERG RU 544-7

Representative: AL HARTL

Sales Order #: 0902388495

ELITE # 4: DUSTIN SMITH / JUSTIN BROWN

WPX - YOUBERG RU 544-7 - 4 1/2 PRODUCTION



HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: DUSTIN SMITH
Attention: _____
Lease: YOUBERG RU
Well #: 544-7

Date: 5/11/2015
Date Rec.: _____
S.O.#: 902388495
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>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-90</i>	58 Deg
Total Dissolved Solids		370 Mg / L

Respectfully: DUSTIN SMITH

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 #: 0902388495	Line Item: 10	Survey Conducted Date: 5/11/2015
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION 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	5/11/2015
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	5/11/2015
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

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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