

WPX Energy Rocky Mountain LLC- EBUS

RU 543-7

Nabors 576

Post Job Summary

Cement Production Casing

Date Prepared: 02/22/2015
Job Date: 02/17/2015

Submitted by: Evan Russell – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3599835	Quote #:	Sales Order #: 0902135014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: AL HARTL	
Well Name: YOUNBERG RU	Well #: 543-7	API/UWI #: 05-045-22516-00	
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE SE-7-7S-93W-1162FSL-1181FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 576	
Job BOM: 7523			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srv Supervisor: Dustin Smith	

Job

Formation Name	
Formation Depth (MD)	Top
Form Type	BHST
Job depth MD	9979ft
Water Depth	
Perforation Depth (MD)	From

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			0	1307		0
Casing		4.5	4	11.6		P-110	0	9979		0
Open Hole Section			8.75				1307	9990	0	0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	4.5			9979	Top Plug	4.5	1	HES
Float Shoe	4.5							
Float Collar	4.5			9949.42				
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 ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	10	bbl	8.33			4.0		
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	275	sack	12.7	1.66		8.0	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	790	sack	13.5	1.74		8.0	7.6
7.60 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	154.2	bbl	8.4			10.0	
Cement Left In Pipe		Amount	29.58 ft		Reason			Shoe Joint	
Mix Water:		pH 7	Mix Water Chloride:		Mix Water Temperature:			40°F °C	
Cement Temperature:			Plug Displaced by:		Disp. Temperature:				
Plug Bumped?		Yes	Bump Pressure:		Floats Held?			Yes	
Cement Returns:			Returns Density:		Returns Temperature:				
Comment									

1.0 Real-Time Job Summary

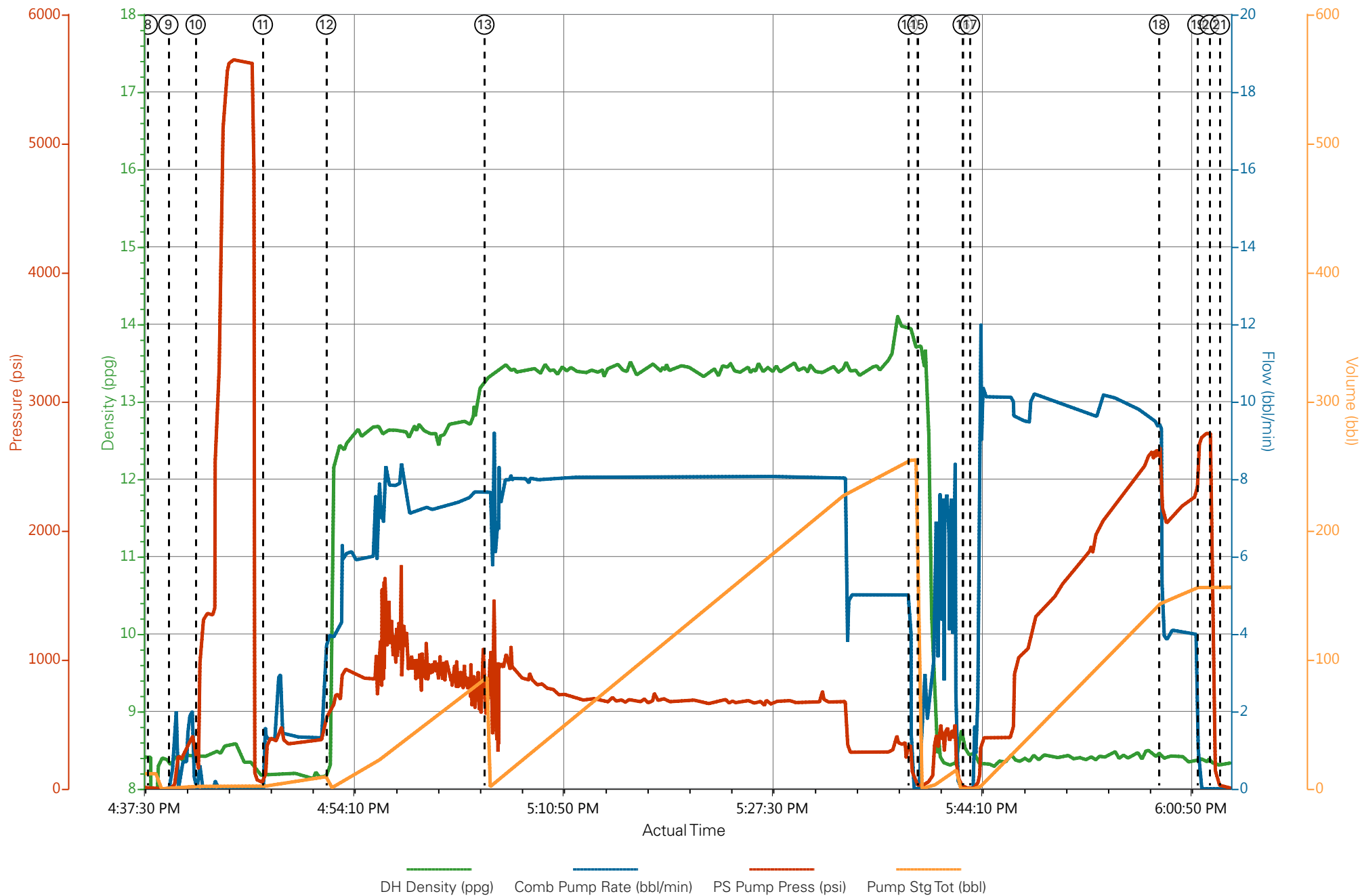
1.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	2/17/2015	09:00:00	USER					ELITE # 2
Event	2	Pre-Convoy Safety Meeting	2/17/2015	11:30:00	USER					ALL HES EMPLOYEES
Event	3	Arrive At Loc	2/17/2015	13:30:00	USER					ARRIVED ON LOCATION 1/2 HOUR EARLY DIDNT START CHARGING TIME UNTIL REQUESTED ON LOCATION TIME RIG RUNNING CASING UPON HES ARRIVAL
Event	4	Assessment Of Location Safety Meeting	2/17/2015	13:35:00	USER					ALL HES EMPLOYEES
Event	5	Pre-Rig Up Safety Meeting	2/17/2015	13:40:00	USER					ALL HES EMPLOYEES
Event	6	Rig-Up Equipment	2/17/2015	13:45:00	USER					1 HT-400 PUMP TRUCK (ELITE #2) 1 660 BULK TRUCK 1 SILO 1 F-550 PICKUP
Event	7	Pre-Job Safety Meeting	2/17/2015	16:15:00	USER					ALL HES EMPLOYEES AND RIG CREW RIG CIRCULATED FOR 1 1/2 HOURS PRIOR TO THE JOB @ 12 BPM GAS @ 100 PRIOR TO STARTING THE JOB
Event	8	Start Job	2/17/2015	16:38:00	USER					TD:9990 TP: 9979 SJ: 29.58 CSG: 4 1/2 11.6 P-110 IH: 8 3/4 MUD WT: 11.5 PPG SURFACE CSG @ 1307
Event	9	Prime Pumps	2/17/2015	16:39:38	COM5	8.33	2.0	402	2.0	PRIME LINES WITH 2 BBLs FRESH WATER

Event	10	Test Lines	2/17/2015	16:41:48	COM5	8.33	0.0	5652	2.0	PRESSURE TEST OK
Event	11	Pump Spacer 1	2/17/2015	16:47:09	COM5	8.33	4.0	600	10	PUMP 10 BBL FRESH WATER SPACER
Event	12	Pump Lead Cement	2/17/2015	16:52:11	COM5	12.7	8.0	1200	81.3	275 SKS 12.7 PPG 1.66 YIELD 8.51 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES
Event	13	Pump Tail Cement	2/17/2015	17:04:47	COM5	13.5	8.0	870	244.8	790 SKS 13.5 PPG 1.74 YIELD 7.6 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES
Event	14	Shutdown	2/17/2015	17:38:31	USER					
Event	15	Clean Lines	2/17/2015	17:39:16	USER	8.33			10	CLEAN PUMPS AND LINES TO THE PIT
Event	16	Drop Top Plug	2/17/2015	17:42:52	USER					PLUG AWAY NO PROBLEMS
Event	17	Pump Displacement	2/17/2015	17:43:27	COM5	8.4	10.0	2680	154.2	1 GAL MMCR 3 BAGS BE-6 1 BAG/ 10 BBL KCL DISPLACEMENT
Event	18	Other	2/17/2015	17:58:30	COM5	8.4	4.0	2200	144.2	SLOW RATE TO BUMP PLUG
Event	19	Bump Plug	2/17/2015	18:01:33	COM5	8.4	4.0	2760	154.2	PSI BEFORE BUMPING PLUG @ 2200 BUMPED PLUG UP TO 2760 PSI
Event	20	Other	2/17/2015	18:02:31	COM5					FLOATS HELD 1 1/2 BBL BACK TO DISPLACEMENT TANKS
Event	21	End Job	2/17/2015	18:03:21	COM5					GOOD RETURNS THROUGHOUT JOB PIPE STATIC THROUGHOUT THE JOB
Event	22	Pre-Rig Down Safety Meeting	2/17/2015	18:10:00	USER					ALL HES EMPLOYEES
Event	23	Rig-Down Equipment	2/17/2015	18:20:00	USER					

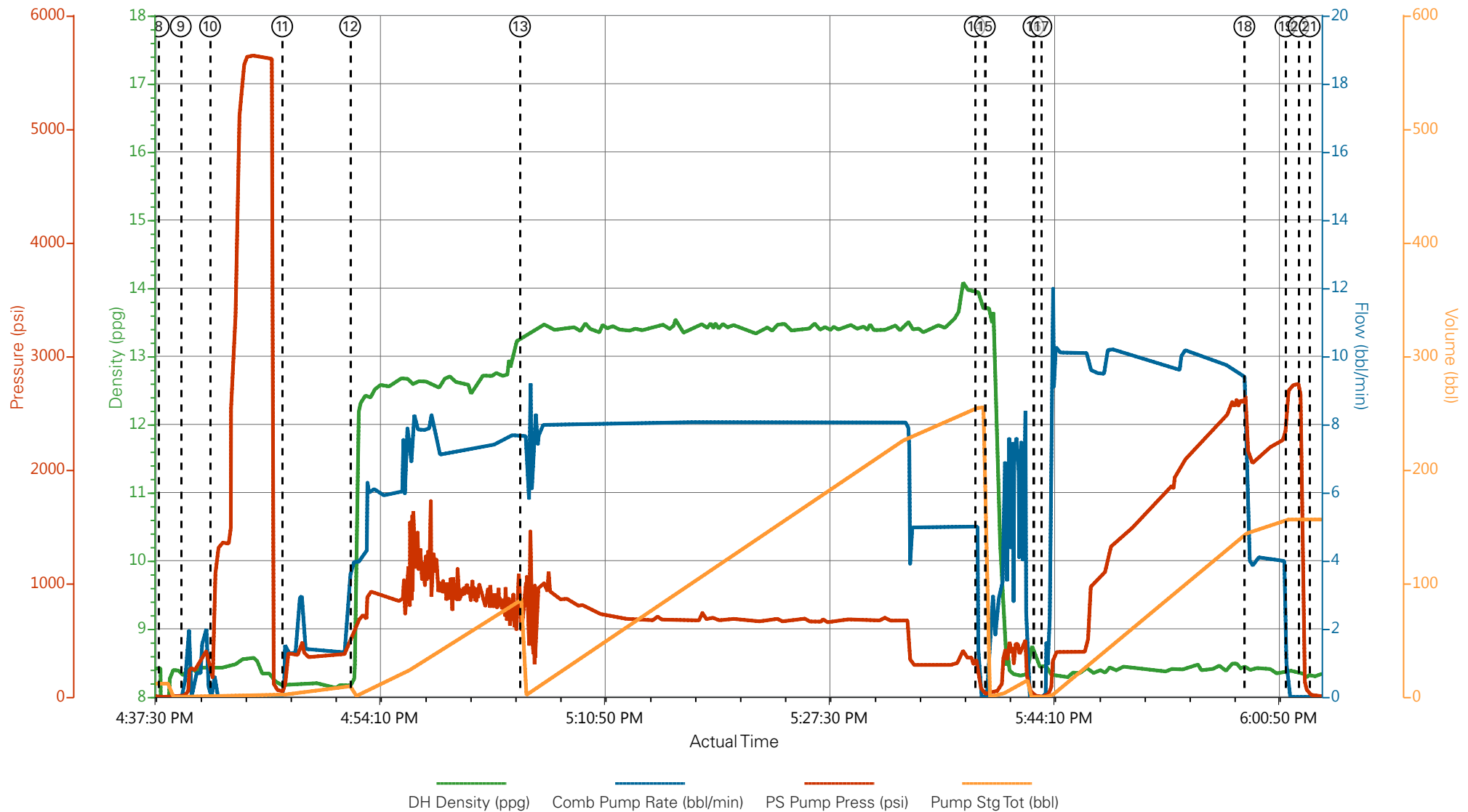
Event	24	Pre-Convoy Safety Meeting	2/17/2015	19:50:00	USER	ALL HES EMPLOYEES
Event	25	Crew Leave Location	2/17/2015	20:00:00	USER	THANK YOU FOR USING HALLIBURTON CEMENT DUSTIN SMITH AND CREW

WPX - RU 543-7 - 4 1/2 PRODUCTION



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

WPX - RU 543-7 - 4 1/2 PRODUCTION



- | | | | | |
|---|--------------------------|---------------------------|---------------------|--------------------------------|
| ① Call Out | ⑥ Rig-Up Equipment | ⑪ Pump Fresh Water Spacer | ⑯ 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: 2015-02-17 09:44:19, Version: 4.1.107

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 2/17/2015 3:09:24 PM

Well: RU 543-7

Representative: AL HARTL

Sales Order #: 0902135014

ELITE # 2: DUSTIN SMITH / DILLON MARTIN

HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: DUSTIN SMITH

Attention:

Lease RU

Well # 543-7

Date: 2/17/2015

Date Rec.:

S.O.# 902135014

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>	40 Deg
Total Dissolved Solids		700 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 #: 0902135014	Line Item: 10	Survey Conducted Date: 2/17/2015
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM.
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-22516-00
Well Name: YOUBERG RU		Well Number: 0080688957
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	2/17/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX37079
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	AL HARTL
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	2/17/2015

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.	4
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
Pumping Hours Total number of hours pumping fluid on this job. Enter in decimal format.	1.5
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	6
Was this a Primary Cement Job (Yes / No) Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Customer Non-Productive Rig Time (hrs)	0

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Well Name: YOUBERG RU		Well Number: 0080688957
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)	No
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