

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

AP 524-17-695

**Nabors 573**

# **Post Job Summary**

## **Cement Surface Casing**

Date Prepared: 8/8/2014

Job Date: 8/6/2014

Submitted by: Tony Eschete - Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123287	Quote #:	Sales Order #: 0901561733
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep:	
Well Name: AP	Well #: 524-17-695	API/UWI #: 05-045-21385-00	
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: NE NW-20-6S-95W-54FNL-2493FWL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 573	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: Bill Jamison	
<b>Job</b>			

**CEMENT TO SURFACE 10 BBLs**

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	2547.45ft Job Depth TVD 2555
Water Depth	Wk Ht Above Floor 3
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
Open Hole Section			13.5				0	2555		0
Casing		9.625	9.001	32.3	8 RD	H-40	0	2547.45	0	0

**Tools and Accessories**

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		2541	Top Plug	9.625	1	HES
Float Shoe					Bottom Plug			
Float Collar	9.625	1		2498	SSR plug set			
Insert Float					Plug Container	9.625	1	HES
Stage Tool					Centralizers			

**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	8.34					
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	400	sack	12.3	2.38			13.77	
13.72 Gal			FRESH WATER							

94 lbm		TYPE I / II CEMENT, BULK (101439798)							
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft<sup>3</sup>/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/mi n</b>	<b>Total Mix Fluid Gal</b>
3	Tail Cement	VARICEM (TM) CEMENT	165	sack	12.8	2.11		8	11.77
11.71 Gal		FRESH WATER							
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft<sup>3</sup>/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/mi n</b>	<b>Total Mix Fluid Gal</b>
4	Displacement	Displacement	197	bbl	8.34				
<b>Cement Left In Pipe</b>	<b>Amount</b>	43.83 ft		<b>Reason</b>	Shoe Joint				
<b>Comment</b>									

4.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	8/6/2014	08:30:00	USER					TD 2555 HOLE SIZE 13.5 CASING 9.625 32.3 # H-40 TP 2547.45 SJ 43.83 SHOE SET @ 2541 FC SET @ 2498
Event	2	Depart Yard Safety Meeting	8/6/2014	10:50:00	USER					
Event	3	Crew Leave Yard	8/6/2014	11:00:00	USER					
Event	4	Arrive At Loc	8/6/2014	15:00:00	USER					
Event	5	Assessment Of Location Safety Meeting	8/6/2014	15:15:00	USER					
Event	6	Pre-Rig Up Safety Meeting	8/6/2014	15:30:00	USER					
Event	7	Pre-Job Safety Meeting	8/6/2014	16:20:00	USER					
Event	8	Start Job	8/6/2014	17:00:00	COM2					
Event	9	Prime Pumps	8/6/2014	17:01:01	COM2	8.4	2	58	3	FRESH WATER
Event	10	Test Lines	8/6/2014	17:03:12	COM2			4143		
Event	11	Pump Spacer 1	8/6/2014	17:06:45	COM2	8.4	6	186	20	FRESH WATER
Event	12	Pump Lead Cement	8/6/2014	17:13:04	COM2	12.3	8	306	170	400 SKS YIELD 2.38 WAT/REQ 13.77
Event	13	Pump Tail Cement	8/6/2014	17:36:07	COM2	12.8	8	308	62	165 SKS YIELD 2.11 WAT/REQ 11.77
Event	14	Shutdown	8/6/2014	17:44:00	USER					
Event	15	Drop Plug	8/6/2014	17:46:00	USER					
Event	16	Pump Displacement	8/6/2014	17:48:04	COM2	8.4	10	465	187	FRESH WATER
Event	17	Slow Rate	8/6/2014	18:08:31	USER	8.4	4	600	10	
Event	18	Bump Plug	8/6/2014	18:10:42	COM2	8.4	4	600	197	PRESSURED UP TO 1041 PSI
Event	19	Check Floats	8/6/2014	18:12:36	USER					FLOATS HELD
Event	20	End Job	8/6/2014	18:14:26	COM2					CEMENT TO SURFACE 10 BBLS
Event	21	Post-Job Safety Meeting (Pre Rig-Down)	8/6/2014	18:20:00	USER					GOOD CIRCULATION THROUGHOUT JOB
Event	22	Depart Location Safety Meeting	8/6/2014	18:50:00	USER					CASING WAS BEING WORKED THROUGHOUT JOB

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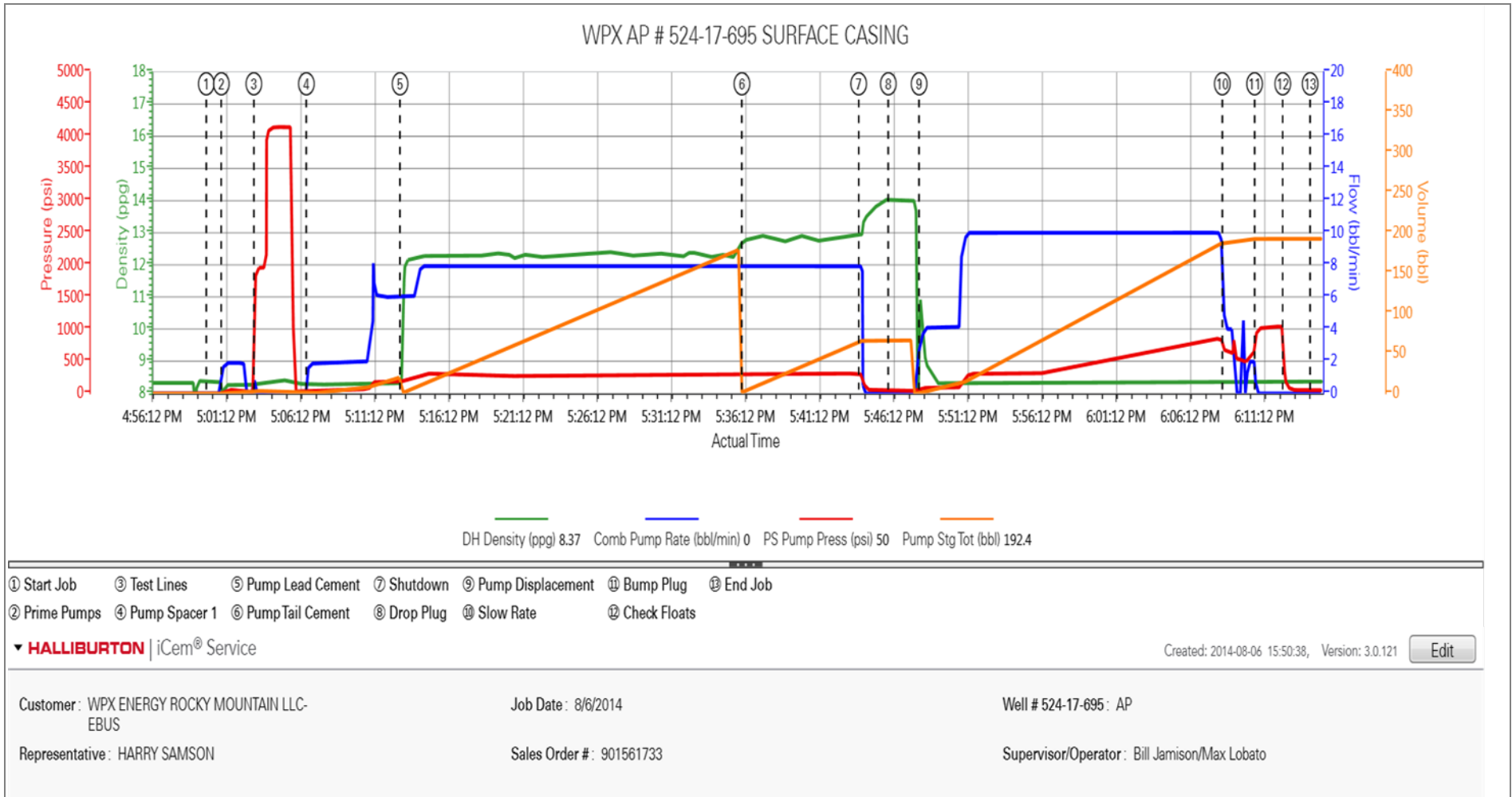
Event	23	Crew Leave Location	8/6/2014	19:00:00	USER
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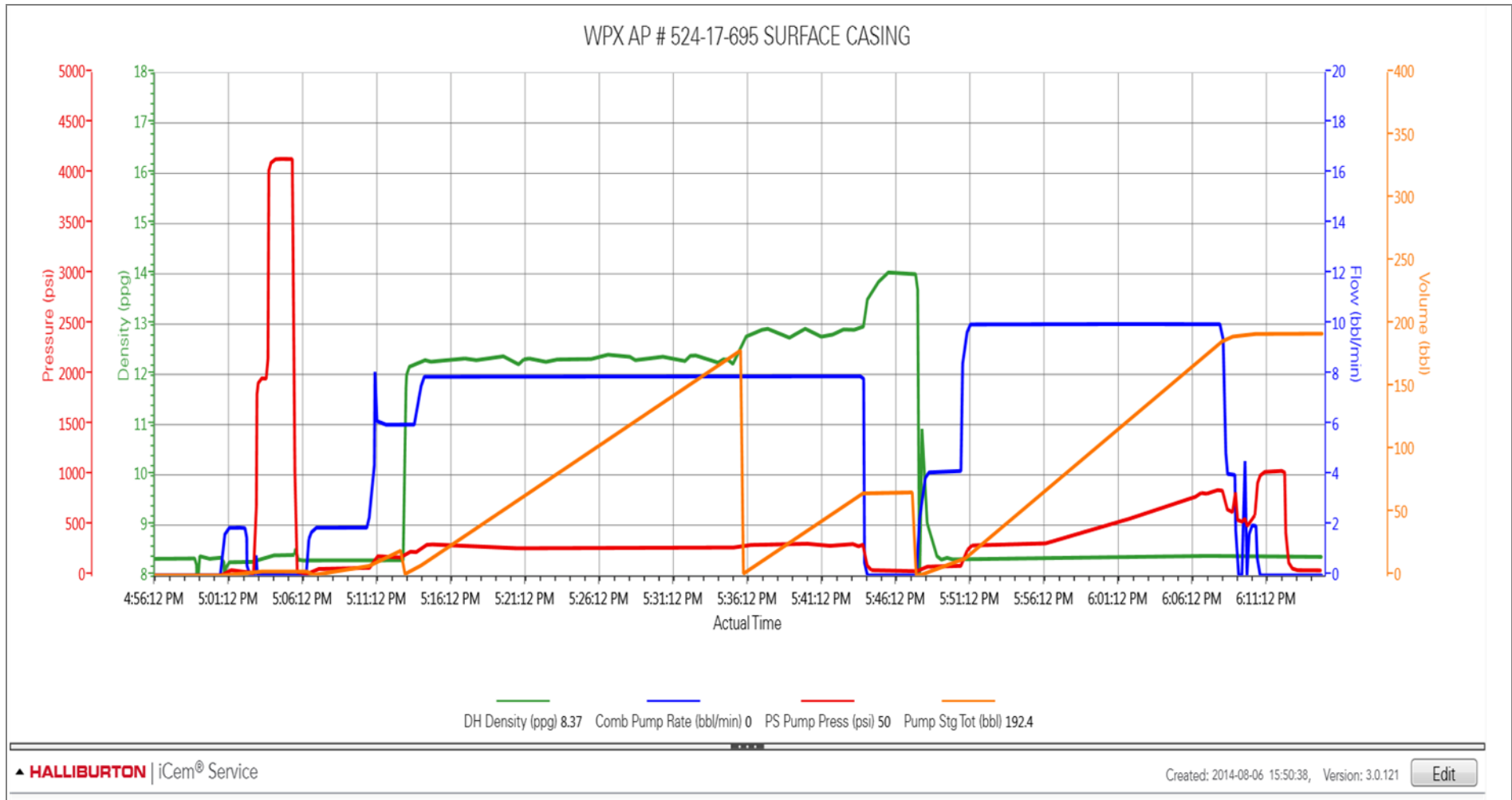
THANKS FOR USING HALLIBURTON BILL JAMISON &  
CREW

## 5.0 Attachments

### 5.1 WPX AP # 524-17-695 SURFACE CASING.png

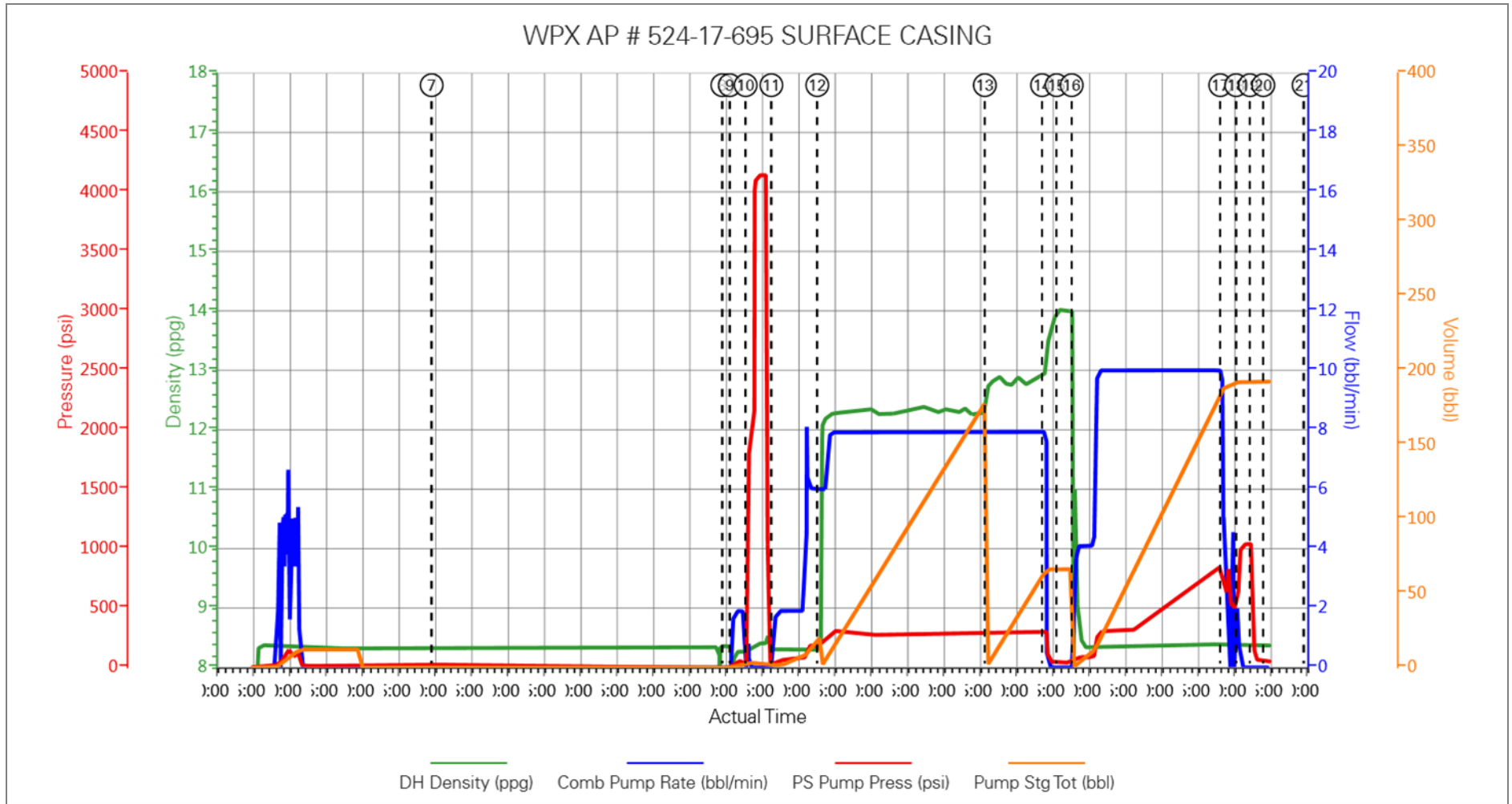


5.2 WPX AP # 524-17-695 SURFACE CASING.png



6.0 Custom Graphs

6.1 Custom Graph



# HALLIBURTON

## Water Analysis Report

Company: WPX  
Submitted by: BILL JAMISON  
Attention: DALLAS SCOTT  
Lease: AP  
Well #: 524-17-695

Date: 8/6/2014  
Date Rec.: 8/6/2014  
S.O.#: 901561733  
Job Type: 9.625 SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>8</b>
Potassium (K)	<i>5000</i>	<b>400 Mg / L</b>
Calcium (Ca)	<i>500</i>	<b>120 Mg / L</b>
Iron (FE2)	<i>300</i>	<b>0 Mg / L</b>
Chlorides (Cl)	<i>3000</i>	<b>0 Mg / L</b>
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>-200 Mg / L</b>
Chlorine (Cl <sub>2</sub> )		<b>0 Mg / L</b>
Temp	<i>40-80</i>	<b>68 Deg</b>
Total Dissolved Solids		<b>210 Mg / L</b>

Respectfully: BILL JAMISON

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.

<b>Sales Order #:</b> 0901561733	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 8/6/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> HARRY SAMSON		<b>API / UWI: (leave blank if unknown)</b> 05-045-21385-00
<b>Well Name:</b> AP		<b>Well Number:</b> 0080125215
<b>Well Type:</b> DIRECTIONAL GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> 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	8/6/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HAL9235
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	HARRY SAMSON
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	NONE

<b>CUSTOMER SIGNATURE</b>
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### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	8/6/2014
The date the survey was conducted	

Cementing KPI Survey	
<b>Type of Job</b>	0
Select the type of job. (Cementing or Non-Cementing)	
<b>Select the Maximum Deviation range for this Job</b>	Deviated
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
<b>Total Operating Time (hours)</b>	3
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
<b>HSE Incident, Accident, Injury</b>	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
<b>Was the job purpose achieved?</b>	Yes
Was the job delivered correctly as per customer agreed design?	
<b>Pumping Hours</b>	1
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	5
Number Of Jsas Performed	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes
Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Customer Non-Productive Rig Time (hrs)</b>	0

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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.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>If a top plug was run, was the plug bumped? (Yes/No/N/A)</b> If a top plug was run, was the plug bumped? (Yes/No/N/A)	Yes
<b>If applicable, was Halliburton float equipment used? (Yes/No/N/A)</b> If applicable, was Halliburton float equipment used? (Yes/No/N/A)	NO
<b>If applicable, did the floats hold? (Yes/No/N/A)</b> If applicable, did the floats hold? (Yes/No/N/A)	Yes
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	98
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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	98
<b>If applicable, were there returns throughout the job? (Yes/No/N/A)</b> If applicable, were there returns throughout the job? (Yes/No/N/A)	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0