

WPX Energy Rocky Mountain LLC-EBUS

Federal NER 524-32

**Nabors 576**

**Post Job Summary**  
**Cement Surface Casing**

Date Prepared: 06/08/2014

Submitted by: David Lide, Grand Junction Colorado Cement Department

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123466	Quote #:	Sales Order #: 0901376516
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: AL HARTL	
Well Name: FEDERAL	Well #: NER 524-32	API/UWI #: 05-045-21798-00	
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 5-7S-93W-146FNL-2592FWL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 576	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: Bill Jamison	
<b>Job</b>			

**CEMENT TO SURFACE 25 BBLs**

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1180ft Job Depth TVD
Water Depth	Wk Ht Above Floor 2
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	1180		0
Casing		9.625	9.001	32.3	8 RD	H-40	0	1199	0	0

**Tools and Accessories**

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		1180	Top Plug	9.625	1	HES
Float Shoe					Bottom Plug			
Float Collar					SSR plug set			
Insert Float					Plug Container			
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			6		
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	140	sack	12.3	2.38		8	13.77	
13.70 Gal		FRESH WATER								

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	Tail Cement	VARICEM (TM) CEMENT	160	sack	12.8	2.11		8	11.77
11.71 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	Displacement	Displacement	90.9	bbl	8.34				
<b>Cement Left In Pipe</b>		<b>Amount</b>	43.5 ft		<b>Reason</b>		Shoe Joint		
<b>Comment</b>									

# Summary Report



Sales Order #: 0901376516  
WO #: 0901376516  
PO/AFE #: NA

Crew: \_\_\_\_\_

Job Start Date: 6/8/2014

<b>Customer:</b>	WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	<b>Field:</b>	RULISON	<b>Job Type:</b>	CMT SURFACE CASING BOM
<b>UWI / API Number:</b>	05-045-21798-00	<b>County/Parish:</b>	GARFIELD	<b>Service Supervisor:</b>	Bill Jamison
<b>Well Name:</b>	FEDERAL	<b>State:</b>	COLORADO		
<b>Well No:</b>	NER 524-32	<b>Latitude:</b>	39.474957	<b>Cust Rep Name:</b>	AL HARTL
		<b>Longitude:</b>	-107.798845	<b>Cust Rep Phone #:</b>	
		<b>Sect / Twn / Rng:</b>	5/7/93		

Remarks:		
<i>The Information Stated Herein Is Correct</i>	Customer Representative Signature	Date
	Customer Representative Printed Name	

4.1 Job Event Log

Type	Seq. No.	Activity	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	Call Out	6/7/2014	18:30:00	USER					TD 1180 TP 1165 SJ 43.5 HOLE SIZE 13.5 MUD 9.4 SURFACE CASING 32.3 H-40 SHOE SET @ 1180
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	6/7/2014	21:20:00	USER					
Event	3	Crew Leave Yard	Crew Leave Yard	6/7/2014	21:30:00	USER					
Event	4	Arrive At Loc	Arrive At Loc	6/7/2014	23:30:00	USER					
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	6/7/2014	23:45:00	USER					
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	6/8/2014	02:00:00	USER					
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	6/8/2014	03:20:00	USER					
Event	8	Start Job	Start Job	6/8/2014	03:39:25	COM2					
Event	9	Prime Pumps	Prime Pumps	6/8/2014	03:40:10	COM2	8.4	2	46	2	FRESH WATER
Event	10	Test Lines	Test Lines	6/8/2014	03:42:16	COM2			3800		
Event	11	Pump Spacer 1	Pump Spacer 1	6/8/2014	03:46:24	COM2	8.4	6	195	20	FRESH WATER
Event	12	Pump Lead Cement	Pump Lead Cement	6/8/2014	03:52:59	COM2	12.3	8	353	59.3	140 SKS YIELD 2.38 WAT/REQ 13.77
Event	13	Pump Tail Cement	Pump Tail Cement	6/8/2014	04:01:44	COM2	12.8	8	320	60.1	160 SKS YIELD 2.11 WAT/REQ 11.77
Event	14	Shutdown	Shutdown	6/8/2014	04:09:05	USER					
Event	15	Drop Top Plug	Drop Top Plug	6/8/2014	04:11:38	COM2					
Event	16	Pump Displacement	Pump Displacement	6/8/2014	04:12:49	COM2	8.4	10	574	80	FRESH WATER
Event	17	Slow Rate	Slow Rate	6/8/2014	04:22:48	USER	8.4	2	296	10.9	
Event	18	Bump Plug	Bump Plug	6/8/2014	04:26:37	COM2	8.4	2	296	90.9	PRESSURED UP TO 984 PSI
Event	19	Check Floats	Check Floats	6/8/2014	04:28:21	USER					FLOATS HELD
Event	20	End Job	End Job	6/8/2014	04:30:33	COM2					GOOD CIRCULATION

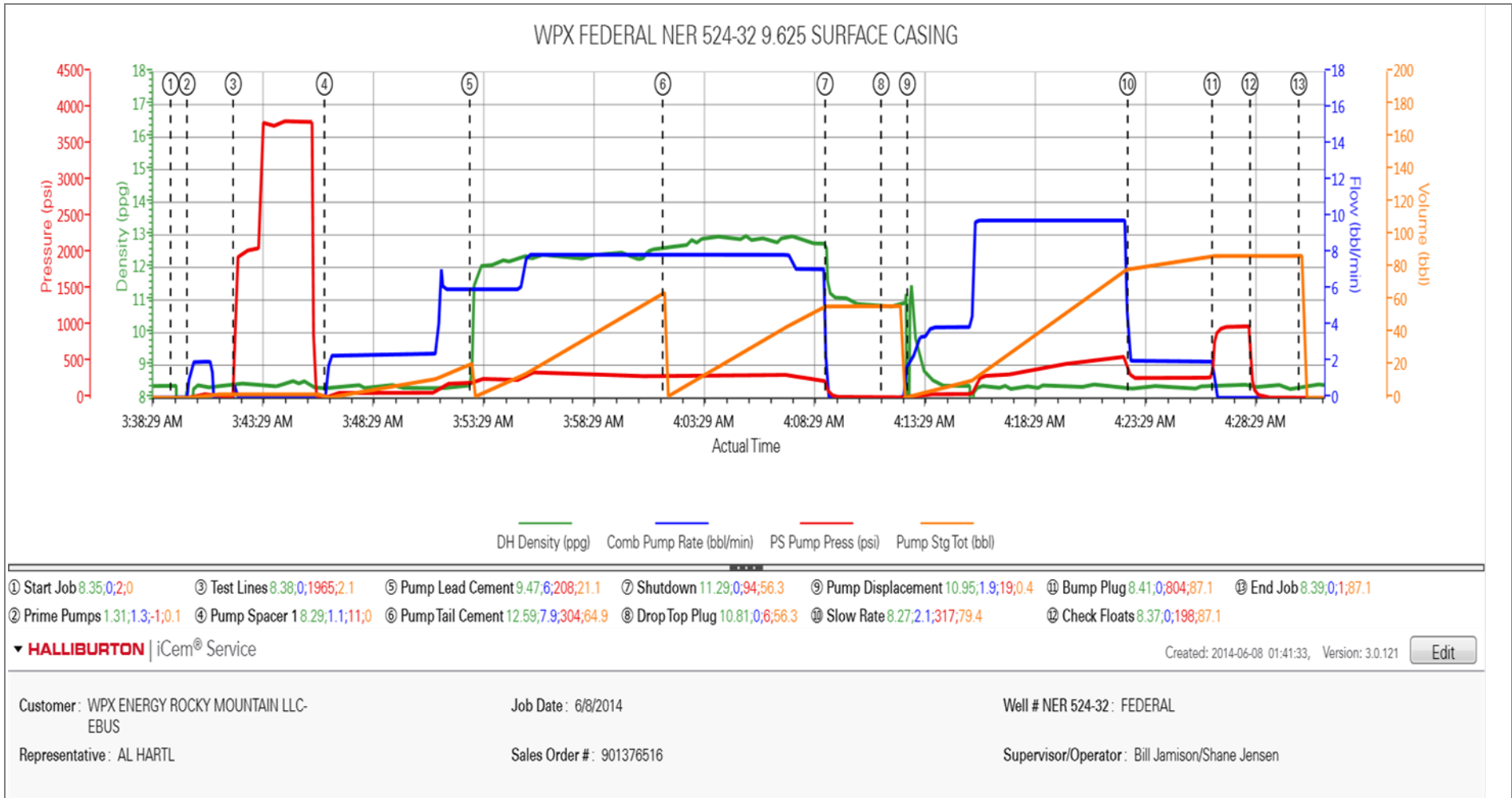
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							THROUGHOUT JOB
Event	21	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	6/8/2014	04:40:00	USER	CEMENT TO SURFACE 25 BBLs
Event	22	Depart Location Safety Meeting	Depart Location Safety Meeting	6/8/2014	05:50:00	USER	CASING WAS NOT MOVED THROUGHOUT JOB
Event	23	Crew Leave Location	Crew Leave Location	6/8/2014	06:00:00	USER	THANKS FOR USING HALLIBURTON BILL JAMISON & CREW

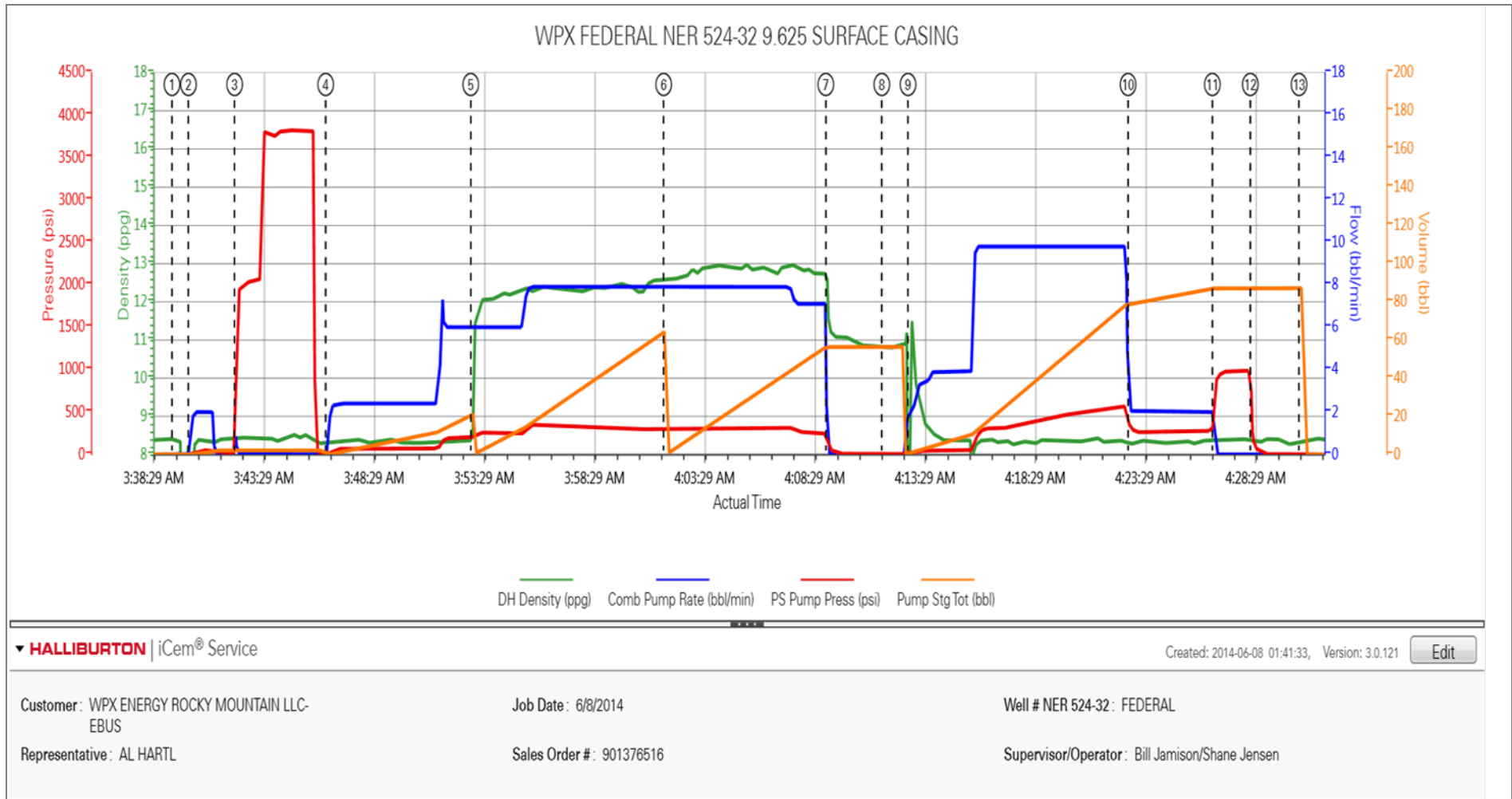
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## 5.0 Attachments

### 5.1 WPX FEDERAL NER 524-32 SURFACE CASING.png



5.2 WPX FEDERAL NER 524-32 SURFACE CASING.png



# HALLIBURTON

## Water Analysis Report

Company: WPX  
Submitted by: BILL JAMISON  
Attention: DALLAS SCOTT  
Lease: FEDERAL  
Well #: NER 524-32

Date: 6/8/2014  
Date Rec.: 6/8/2014  
S.O.#: 901376516  
Job Type: 9 5/8" SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>8</b>
Potassium (K)	<i>5000</i>	<b>200 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>70 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 it

<b>Sales Order #:</b> 0901376516	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 6/8/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> AL HARTL		<b>API / UWI: (leave blank if unknown)</b> 05-045-21798-00
<b>Well Name:</b> FEDERAL		<b>Well Number:</b> 0080125513
<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	6/8/2014
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	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	NONE

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

General	
<b>Survey Conducted Date</b>	6/8/2014
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>	Vertical
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>Operating Hours (Pumping Hours)</b>	1
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Customer Non-Productive Rig Time (hrs)</b>	0
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>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>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

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<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> GARFIELD

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<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>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<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>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	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