

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 24-13

**Nabors 573**

# **Post Job Summary**

## **Cement Surface Casing**

Date Edited: 07/15/2014  
Job Date: 04/20/2014

Submitted by: Kory Hugentobler – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123608	Quote #:	Sales Order #: 0901284168
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: HARRY SAMPSON	
Well Name: FEDERAL	Well #: PA 24-16	API/UWI #: 05-045-22043-00	
Field: PARACHUTE	City (SAP): PAR	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE NW-21-6S-95W-2610FNL-1396FWL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 573	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA/HAM2616		Srcv Supervisor: Thomas Ponder	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	2461		Job Depth TVD
Water Depth			Wk Ht Above Floor
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		H-40	0	2461		0
Open Hole Section			13.5				0	2461	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1	WTF	2461		Top Plug	9.625	1	HES
Float Shoe	9.625					Bottom Plug	9.625		HES
Float Collar	9.625	1	WTF	2416		SSR plug set	9.625		HES
Insert Float	9.625					Plug Container	9.625	1	HES
Stage Tool	9.625					Centralizers	9.625		HES

Miscellaneous Materials													
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Qty	Conc

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			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	Lead Cement	VARICEM (TM) CEMENT	445	sack	12.3	2.38		8	13.77	
13.70 Gal		FRESH WATER								

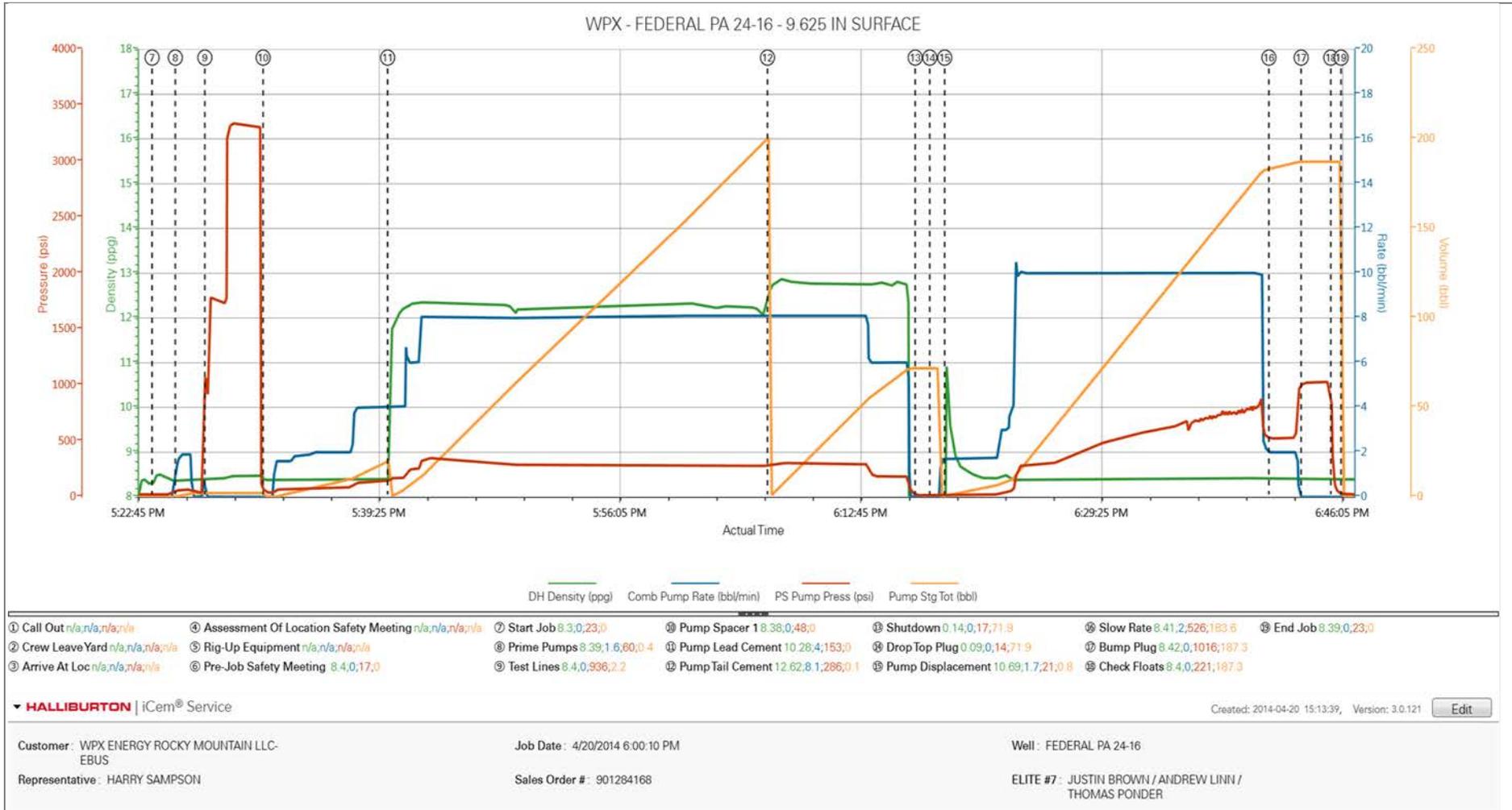
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
3	Tail Cement	VARICEM (TM) CEMENT	175	sack	12.8	2.11		8	11.77	
11.71 Gal		FRESH WATER								
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
4	Displacement	Displacement	190.1	bbl	8.34			10		
Cement Left In Pipe		Amount	47 ft		Reason			Shoe Joint		
Comment										

1.1 Job Event Log

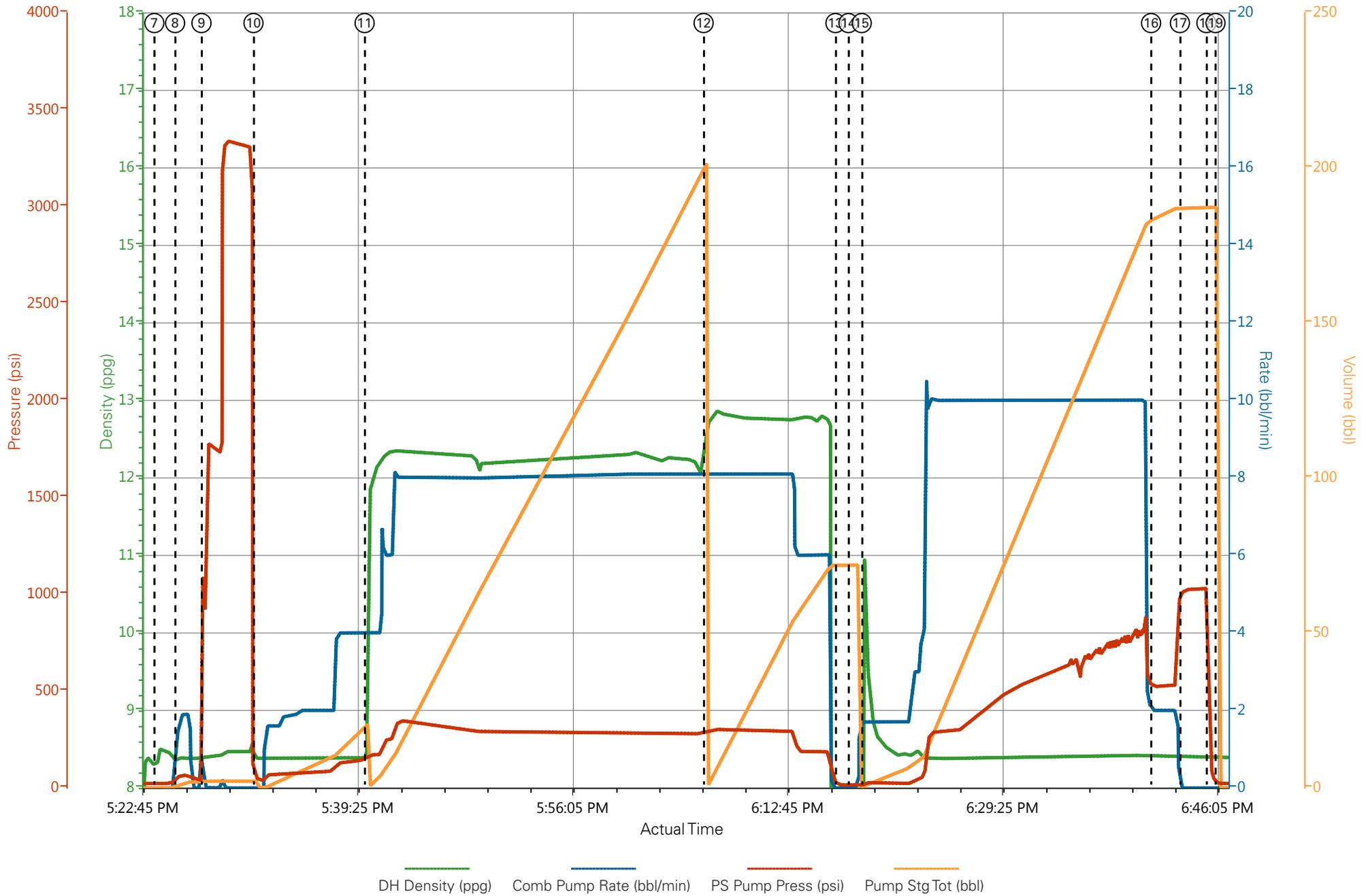
Type	Seq. No.	Graph Label	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Comment
Event	1	Call Out	4/20/2014	00:00:00	USER					ON LOCATION TIME 0530
Event	2	Crew Leave Yard	4/20/2014	04:30:00	USER					ALL HES PRESENT FOR PRE-CONVOY SAFETY HUDDLE
Event	3	Arrive At Loc	4/20/2014	05:30:00	USER					RIG WAS STILL DRILLING WHEN CREW ARRIVED ON LOCATION
Event	4	Assessment Of Location Safety Meeting	4/20/2014	16:00:00	USER					TD- 2461', TP- 2463.3', SJ- 47.3', MUD- 10.4 ppg, HOLE- 13 1/2", SURFACE CASING- 9 5/8" 32.3# H-40
Event	5	Rig-Up Equipment	4/20/2014	16:15:00	USER					1-550 PICKUP, 1-ELITE PUMP, 2-660 CUFT BULK TRUCK
Event	6	Pre-Job Safety Meeting	4/20/2014	17:00:00	USER					ALL HES PRESENT, RIG CREW PRESENT, RIG STARTED CIRCULATING @ 1600
Event	7	Start Job	4/20/2014	17:23:52	COM2					
Event	8	Prime Pumps	4/20/2014	17:25:29	COM2	67	8.39	2	2	FILL LINES
Event	9	Test Lines	4/20/2014	17:27:31	COM2	3336	8.40	.1	.1	GOOD PRESSURE TEST NO LEAKS IN THE LINES, PIPE WAS NOT RECIPROCATED
Event	10	Pump Spacer 1	4/20/2014	17:31:33	COM2	145	8.38	4	20	FRESH WATER
Event	11	Pump Lead Cement	4/20/2014	17:40:10	COM2	350	12.32	8	188.6	445 SKS 12.3 PPG 2.38 FT3/SK 13.77 GAL/SK
Event	12	Pump Tail Cement	4/20/2014	18:06:27	COM2	300	12.80	8	65.8	175 SKS 12.8 PPG 2.11 FT3/SK 11.77 GAL/SK
Event	13	Shutdown	4/20/2014	18:16:41	USER					
Event	14	Drop Top Plug	4/20/2014	18:17:41	COM2					PLUG DROP VERIFIED VIA TATTLE TELL
Event	15	Pump Displacement	4/20/2014	18:18:43	COM2	895	8.36	10	180.1	FRESH WATER, WASHED UP ON TOP OF THE PLUG WITH THE FIRST 10 BBL OF DISPLACEMENT OUT OF THE MIXING TUB
Event	16	Slow Rate	4/20/2014	18:41:09	USER	525	8.36	2	10	GOOD RETURNS, CIRCULATED 70 BBL OF CEMENT TO SURFACE, CALCULATED 36.4 ON GUAGED HOLE
Event	17	Bump Plug	4/20/2014	18:43:23	COM2	526			190.1	PLUG BUMPED
Event	18	Check Floats	4/20/2014	18:45:26	USER	1030			190.1	FLOATS HELD, 1/2 BBL BACK TO THE DISPLACEMENT TANKS
Event	19	End Job	4/20/2014	18:46:09	COM2					THANK YOU FOR CHOOSING HALLIBURTON, THOMAS PONDER AND CREW

## 2.0 Attachments

### 2.1 CHART EVENTS.png



WPX - FEDERAL PA 24-16 - 9.625 IN SURFACE



# HALLIBURTON

Company: WPX Date: 4/20/2014  
Submitted by: THOMAS PONDER Date Rec.: 4/20/2014  
Attention: LARRY COOKSEY S.O.# 901284168  
Lease FEDERAL Job Type: SURFACE  
Well # PA 24-16

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>250 Mg / L</i>
Calcium (Ca)	<i>500</i>	<i>120 Mg / L</i>
Iron (FE2)	<i>300</i>	<i>0 Mg / L</i>
Chlorides (Cl)	<i>3000</i>	<i>0 Mg / L</i>
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<i>&lt;200 Mg / L</i>
Carbonates hardness		
Temp	<i>40-80</i>	<i>65 Deg</i>
Total Dissolved Solids		<i>185 Mg / L</i>

Respectfully: THOMAS PONDER  
Title: CEMENTING SUPERVISOR  
Location: GRAND JCT, CO

<b>Sales Order #:</b> 0901284168	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/20/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b>		<b>API / UWI: (leave blank if unknown)</b> 05-045-22043-00
<b>Well Name:</b> FEDERAL		<b>Well Number:</b> 0080125687
<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	4/20/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX41187
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	

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

General	
<b>Survey Conducted Date</b>	4/20/2014
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>Operating Hours (Pumping Hours)</b>	2
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>	6
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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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	99
<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	99
<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