

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

GM 444-12

**H&P 318**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 07/31/2014  
Job Date: 07/30/2014

Submitted by: Kory Hugentobler – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3534018	Quote #:	Sales Order #: 0901548226
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: W.C. Wilson	
Well Name: C&C ENERGY GM	Well #: 444-12	API/UWI #: 05-045-22428-00	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SW SW-12-7S-96W-255FSL-1057FWL			
Contractor:		Rig/Platform Name/Num: H&P 318	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Dustin Hyde	

### Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1661ft 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
Open Hole Section			13.5				0	1661	0	0
Casing	0	9.625	9.001	32.3	8 RD	J-55	0	1661	0	0

### Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		1661	Top Plug	9.625	1	HES
Float Shoe	9.625	1			Bottom Plug			
Float Collar	9.625	1			SSR plug set			
Insert Float	9.625	1			Plug Container	9.625	1	HES
Stage Tool	9.625	1			Centralizers	9.625		

### 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 <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	30	bbl	8.34			4		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	VariCem GJ5	VARICEM (TM) CEMENT	230	sack	12.3	2.45		7.5	14.17	

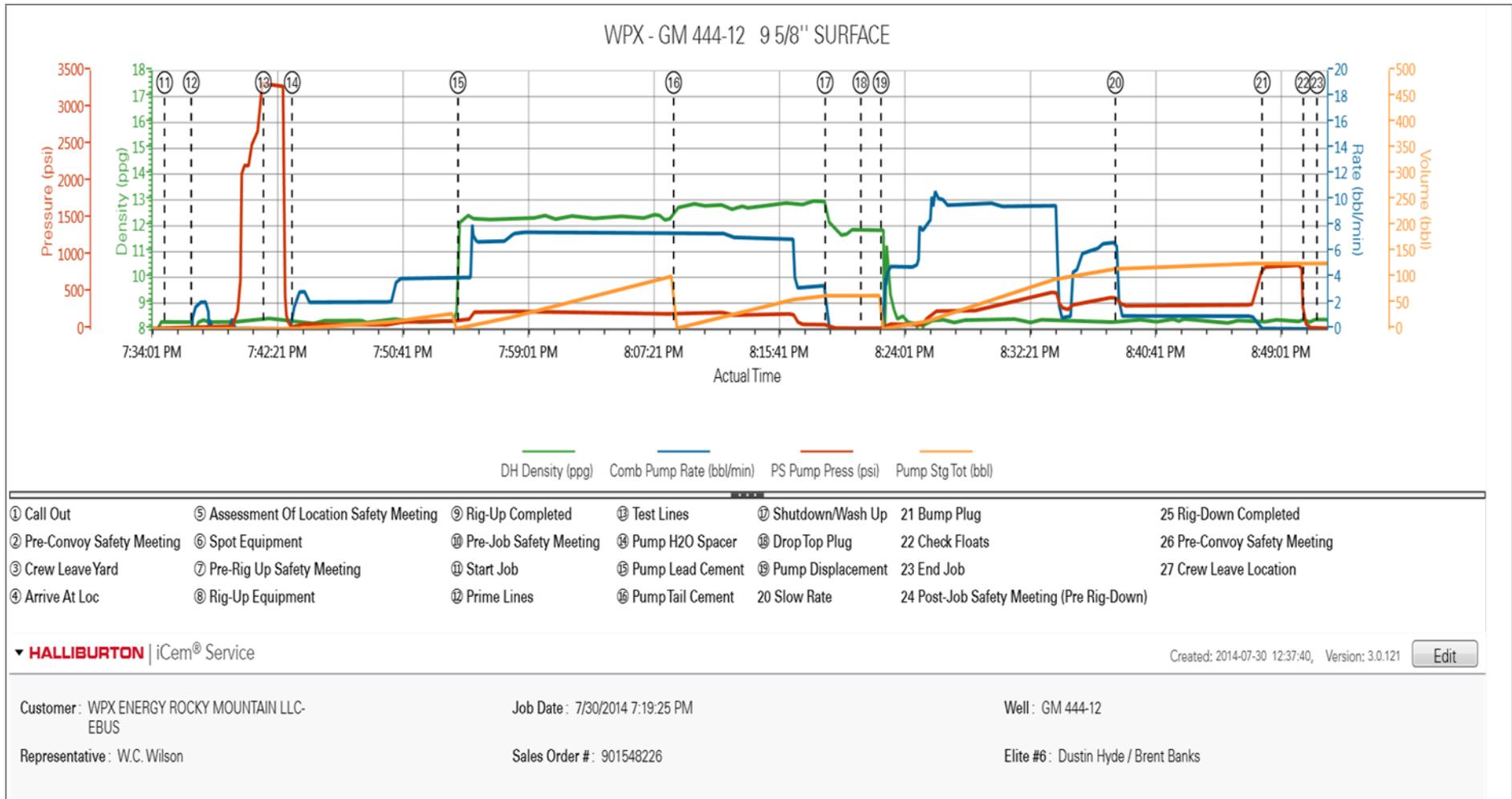
14.17 Gal		FRESH WATER							
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft<sup>3</sup>/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/mi n</b>	<b>Total Mix Fluid Gal</b>
3	VariCem GJ5	VARICEM (TM) CEMENT	160	sack	12.78	2.184		7	12.11
12.11 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	Fresh Water Displacement	Fresh Water Displacement	127.3	bbl	8.34			9.5	
<b>Cement Left In Pipe</b>		<b>Amount</b>	44 ft		<b>Reason</b>		Shoe Joint		
<b>Comment</b>									

### 3.1 Job Event Log

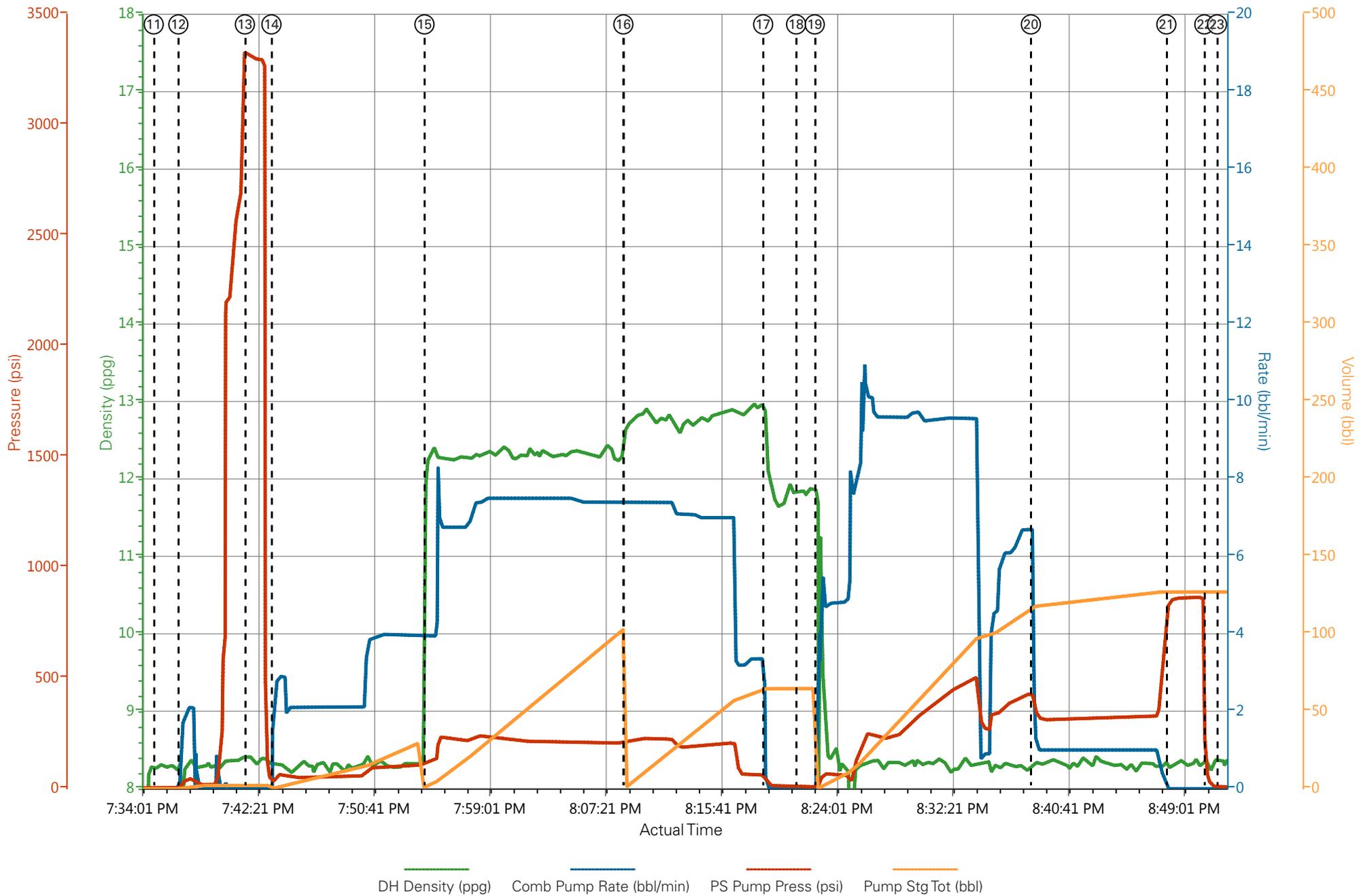
Type	Seq No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	7/30/2014	11:30:00	USER					
Event	2	Pre-Convoy Safety Meeting	7/30/2014	13:45:00	USER					
Event	3	Crew Leave Yard	7/30/2014	14:00:00	USER					ELITE #6, 2 660'S, 1 PICKUP
Event	4	Arrive At Loc	7/30/2014	15:00:00	USER					RIG BROKE DOWN WHILE RUNNING CASING FIXING AS WE ARRIVED
Event	5	Assessment Of Location Safety Meeting	7/30/2014	15:30:00	USER					WROTE JSA AFTER WALKING LOCATION
Event	6	Spot Equipment	7/30/2014	18:00:00	USER					
Event	7	Pre-Rig Up Safety Meeting	7/30/2014	18:30:00	USER					
Event	8	Rig-Up Equipment	7/30/2014	18:45:00	USER					NOTHING DIFFERENT ABOUT THIS RIG UP OTHER THAN STAND PIPE AND IT'S RAINING
Event	9	Rig-Up Completed	7/30/2014	19:15:00	USER					
Event	10	Pre-Job Safety Meeting	7/30/2014	19:20:00	USER					9.1 PPG MUD RIG DID CIRCULATE DURING RUNNING CASING AND AS WE WERE RIGGING UP
Event	11	Start Job	7/30/2014	19:35:01	USER					TP 1661' OF 9 5/8" 32.2 J-55 CASING, SJ 43.95', OH 13 1/2",
Event	12	Prime Lines	7/30/2014	19:36:47	USER	8.33	2.0	43	2	FRESH WATER
Event	13	Test Lines	7/30/2014	19:41:34	USER			3338		KICK OUT WERE FUNCTIONAL AND PRESSURE HELD
Event	14	Pump H2O Spacer	7/30/2014	19:43:29	COM5	8.33	4.0	107	30	FRESH WATER
Event	15	Pump Lead Cement	7/30/2014	19:54:30	USER	12.3	7.5	236	100.4	230 SKS OF VARICEM CMT, 12.3 PPG, 2.45 YIELD, 14.17 GAL/SK
Event	16	Pump Tail Cement	7/30/2014	20:08:49	COM5	12.8	7.0	230	62	160 SKS OF VARICEM CMT, 12.8 PPG, 2.18 YIELD, 12.11 GAL/SK
Event	17	Shutdown/Wash Up	7/30/2014	20:18:53	USER					
Event	18	Drop Top Plug	7/30/2014	20:21:16	USER					VERIFIED BY TATTLE TAIL AND CO. REP
Event	19	Pump Displacement	7/30/2014	20:22:36	COM5	8.33	9.5	490	117	FRESH WATER

Event	20	Slow Rate	7/30/2014	20:38:10	USER	8.33	1.0	350	10	SLOWED TO 1 PER CO. REP
Event	21	Bump Plug	7/30/2014	20:47:55	USER			850	127.1	PLUG BUMPED
Event	22	Check Floats	7/30/2014	20:50:39	USER					FLOATS HELD ¾ BBL FLOW BACK
Event	23	End Job	7/30/2014	20:51:34	USER					25 BBLS OF CMT TO SURFACE
Event	24	Post-Job Safety Meeting (Pre Rig-Down)	7/30/2014	21:10:00	USER					
Event	25	Rig-Down Completed	7/30/2014	21:45:00	USER					
Event	26	Pre-Convoy Safety Meeting	7/30/2014	22:00:00	USER					
Event	27	Crew Leave Location	7/30/2014	22:30:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT

4.2 with.png



WPX - GM 444-12 9 5/8" SURFACE



# HALLIBURTON

## Water Analysis Report

Company: WPX  
Submitted by: Dustin Hyde  
Attention: J.TROUT  
Lease: GM  
Well #: 444-12

Date: 7/30/2014  
Date Rec.: 7/30/2014  
S.O.#: 901548226  
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>200</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>120</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>0</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>&lt;200</b> Mg / L
Temp	<i>40-80</i>	<b>70</b> Deg
Total Dissolved Solids		<b>230</b> Mg / L

Respectfully: Dustin Hyde

Title: \_\_\_\_\_

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

<b>Sales Order #:</b> 0901548226	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 7/31/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> W.C WILSON		<b>API / UWI: (leave blank if unknown)</b> 05-045-22428-00
<b>Well Name:</b> C&C ENERGY GM		<b>Well Number:</b> 0080611055
<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	7/31/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB43597
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	W.C WILSON
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	

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

General	
<b>Survey Conducted Date</b>	7/31/2014
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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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	97
<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	96
<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