

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

GM 512-21

**Cyclone 17**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 09/30/2014  
Job Date: 09/28/2014

Submitted by: Kory Hugentobler – Grand Junction Cement Engineer

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3464186	Quote #:	Sales Order #: 0901704629
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Al Duniho	
Well Name: CHEVRON		Well #: GM 512-21	API/UWI #: 05-045-22355-00
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE NE-20-6S-96W-2057FNL-704FWL			
Contractor: CYCLONE		Rig/Platform Name/Num: CYCLONE 17	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HX23209		Srvc Supervisor: Brandon Reeves	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	1219ft	Job Depth TVD	4ft
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	0	9.625	9.001	32.3	8 RD	H-40	0	1219	0	0
Open Hole Section			13.5				0		0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625			1219		Top Plug	9.625	1	HES
Float Shoe	9.625					Bottom Plug	9.625		HES
Float Collar	9.625					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		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			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	VariCem GJ5	VARICEM (TM) CEMENT	135	sack	12.3	2.45		8	14.17	
14.10 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	VariCem GJ5	VARICEM (TM) CEMENT	170	sack	12.8	2.175		8	12.11
12.05 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	92	bbl	8.34			10	
Cement Left In Pipe		Amount	46.68 ft		Reason		Shoe Joint		
Comment									

## 1.1 Job Event Log

Type	Seq No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	DS Pump Press (psi)	Comment
Event	1	Call Out	9/28/2014	00:00:00	USER					
Event	2	Depart from Service Center or Other Site	9/28/2014	03:00:00	USER					
Event	3	Arrive at Location from Service Center	9/28/2014	06:00:00	USER					REQUESTED ON LOCATION TIME WAS 08:00.
Event	4	Assessment Of Location Safety Meeting	9/28/2014	09:00:00	USER					
Event	5	Spot Equipment	9/28/2014	09:20:12	USER					
Event	6	Pre-Rig Up Safety Meeting	9/28/2014	09:35:21	USER					
Event	7	Rig-Up Equipment	9/28/2014	09:50:34	USER					
Event	8	Pre-Job Safety Meeting	9/28/2014	13:15:43	USER					
Event	9	Start Job	9/28/2014	13:37:48	COM5	8.05	0.00	0.0	0.00	TD-1233' TP-1219.34' PIPE SET AT 1213.34' SJ-46.68' MW-10.1 PPG. HOLE-13 1/2" CASING-9 5/8" 32.3 PPF. H-40
Event	10	Test Lines	9/28/2014	13:39:35	COM5	8.34	0.00	2.1	3380.00	TESTED LINES TO 3380 PSI.
Event	11	Pump Water Spacer	9/28/2014	13:43:31	COM5	8.32	4.00	20.0	9.00	20 BBLS. FRESH WATER SPACER
Event	12	Pump Lead Cement	9/28/2014	13:50:53	COM5	12.36	8.00	58.9	400.00	135 SKS. @12.3 PPG. 2.45 YIELD 14.17 GAL/SK.
Event	13	Pump Tail Cement	9/28/2014	13:58:32	COM5	12.85	8.00	66.0	410.00	170 SKS.@ 12.8 PPG. 2.18 YIELD 12.11 GAL/SK.
Event	14	Drop Top Plug	9/28/2014	14:07:25	COM5	8.34	0.00	0.0	5.00	
Event	15	Pump Displacement	9/28/2014	14:11:15	COM5	8.32	10.00	0.0	600.00	FRESH WATER DISPLACEMENT.
Event	16	Slow Rate	9/28/2014	14:22:25	COM5	8.28	2.00	80.0	285.00	SLOW RATE TO LAND THE PLUG.
Event	17	Bump Plug	9/28/2014	14:25:55	COM5	8.31	2.00	92.0	975.00	PLUG LANDED AT 300 PSI. PRESSURED UP TO 975 PSI.
Event	18	Check Floats	9/28/2014	14:29:04	COM5	8.30	0.00	0.0	0.00	FLOATS HELD. .5 BBL. OF FLOW BACK.
Event	19	End Job	9/28/2014	14:30:15	COM5					THE WELL WAS CIRCULATED BEFORE STARTING THE JOB.

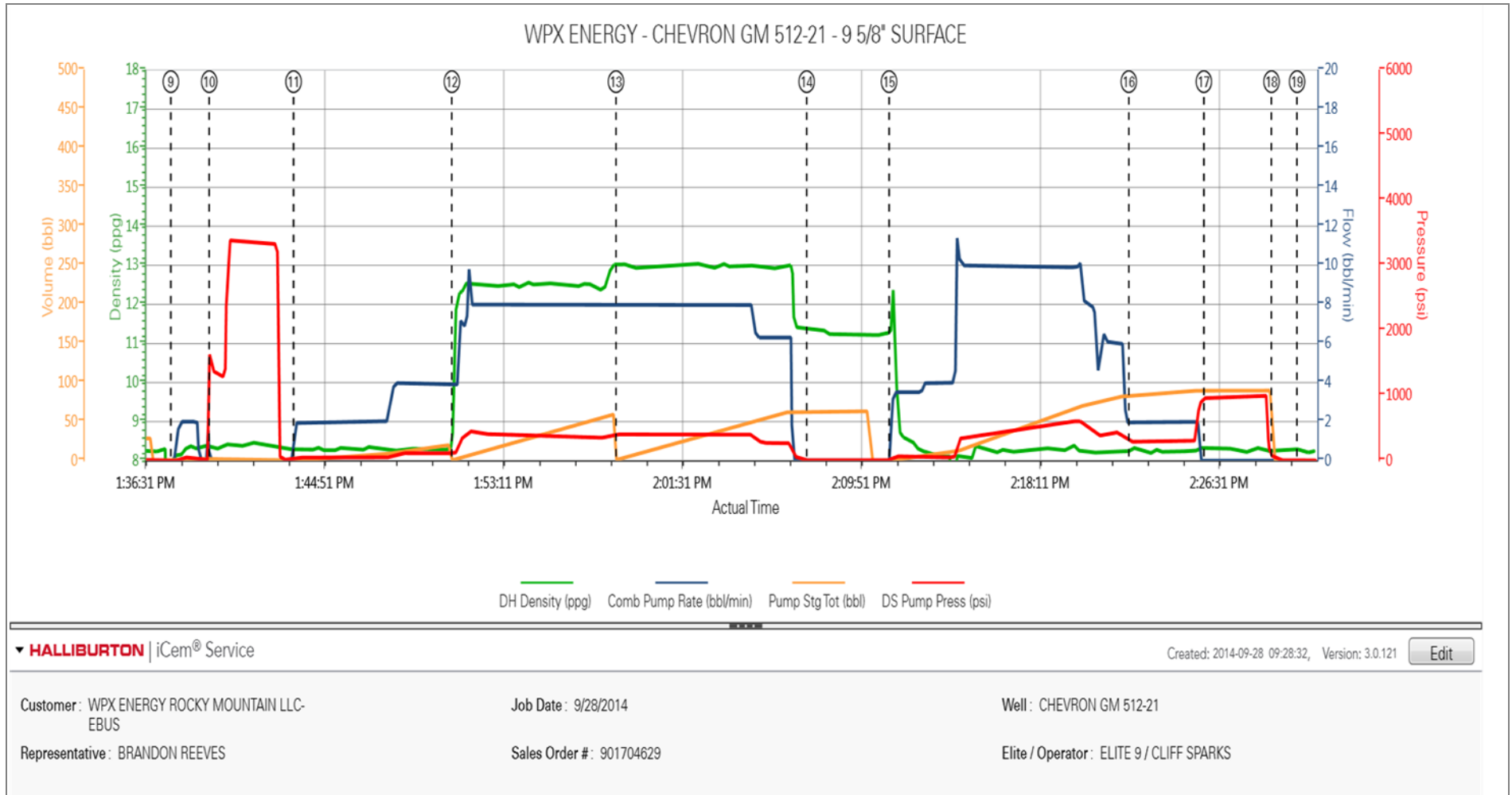
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GOOD CIRCULATION THROUGHOUT THE JOB. THE PIPE WAS  
NOT RECIPROCATED. CIRCULATED 28 BBLs. OF CEMENT TO  
SURFACE.

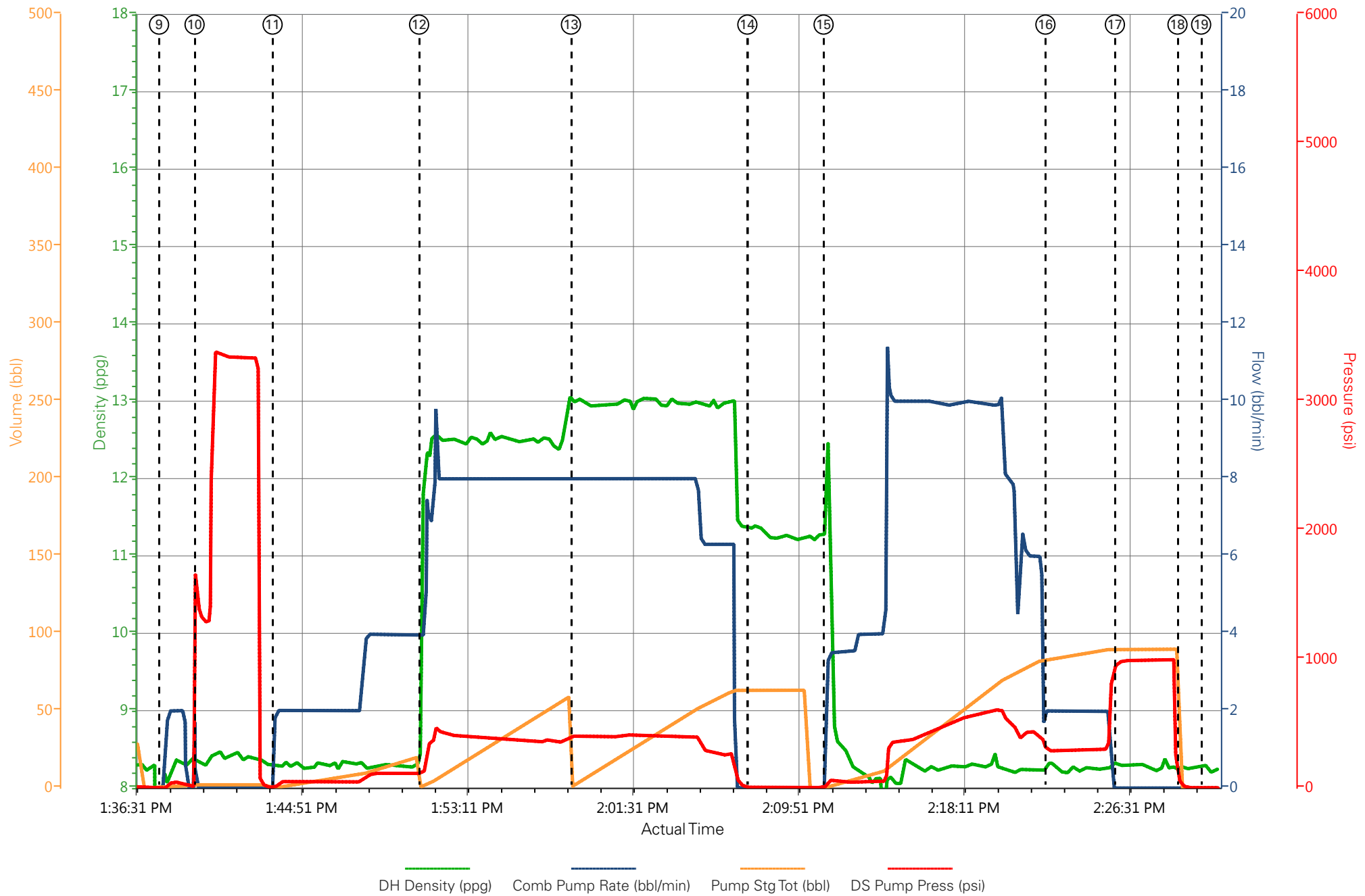
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## 2.0 Attachments

### 2.1 WPX ENERGY CHEVRON GM 512-21-Custom Results.png



# WPX ENERGY - CHEVRON GM 512-21 - 9 5/8" SURFACE



# HALLIBURTON

## Water Analysis Report

Company: WPX ENERGY

Submitted by: BRANDON REEVES

Attention: J. TROUT

Lease CHEVRON

Well # GM 512-21

Date: 9/28/2014

Date Rec.: 9/28/2014

S.O.# 901704629

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>0</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>UNDER 200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>0</b> Mg / L
Temp	<i>40-80</i>	<b>60</b> Deg
Total Dissolved Solids		<b>320</b> Mg / L

Respectfully: BRANDON REEVES

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



<b>Sales Order #:</b> 0901704629	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/28/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> AL DUNIHO		<b>API / UWI: (leave blank if unknown)</b> 05-045-22355-00
<b>Well Name:</b> CHEVRON		<b>Well Number:</b> 0080599265
<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	9/28/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HBT9414
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	AL DUNIHO
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	GOOD JOB MEN!

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

General	
<b>Survey Conducted Date</b> The date the survey was conducted	9/28/2014

Cementing KPI Survey	
<b>Type of Job</b> Select the type of job. (Cementing or Non-Cementing)	0
<b>Select the Maximum Deviation range for this Job</b> What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Deviated
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	3
<b>HSE Incident, Accident, Injury</b> HSE Incident, Accident, Injury. This should be recordable incidents only.	No
<b>Was the job purpose achieved?</b> Was the job delivered correctly as per customer agreed design?	Yes
<b>Pumping Hours</b> Total number of hours pumping fluid on this job. Enter in decimal format.	1
<b>Type of Rig Classification Job Was Performed</b> Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
<b>Number Of JSAs Performed</b> Number Of Jsas Performed	6
<b>Was this a Primary Cement Job (Yes / No)</b> Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<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>Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?</b> Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?	No
<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)	N/A
<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	90
<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	95
<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)	YES
<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