

WPX Rocky Mountain LLC - EBUS

GM 544-12

**H & P 318**

# **Post Job Summary**

## **Cement Surface Casing**

Date Prepared: 08/09/2014

Job Date: 08/08/2014

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3533974	Quote #:	Sales Order #: 0901569380
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep:	
Well Name: C&C ENERGY GM	Well #: 544-12	API/UWI #: 05-045-22427-00	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SW SW-12-7S-96W-258FSL-1050FWL			
Contractor:		Rig/Platform Name/Num: H&P 318	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: Andrew Brennecke	
<b>Job</b>			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1879ft Job Depth TVD
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
Casing	0	9.625	9.001	32.3	8 RD	J-55	0	1879	0	0
Open Hole Section			13.5				0	1895	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make	
Guide Shoe	9.625			1879	Top Plug	9.625	1	HES	
Float Shoe					Bottom Plug				
Float Collar	9.625			1835	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			

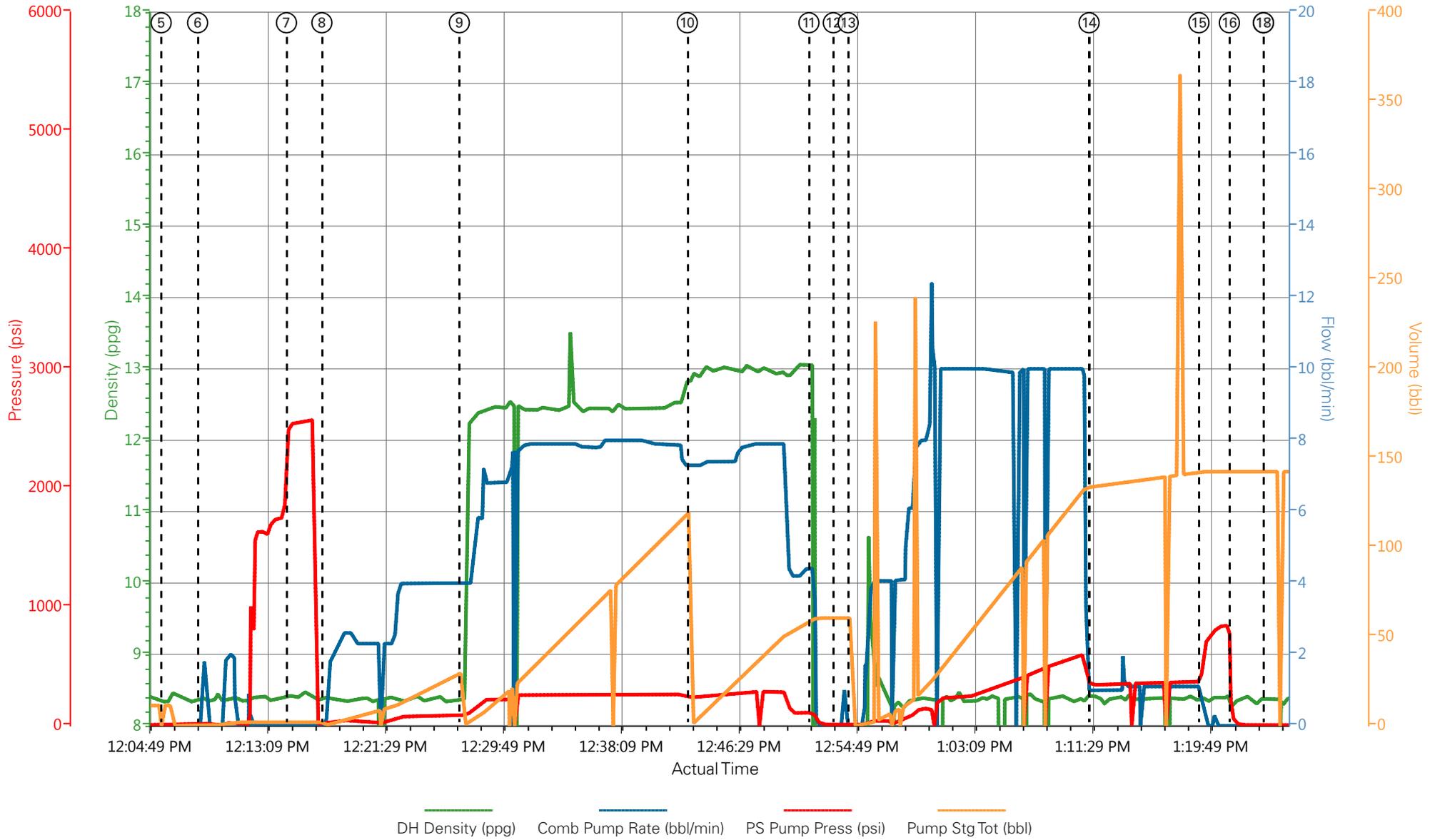
Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	30	bbl	8.34			4		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	VariCem GJ1	VARICEM (TM) CEMENT	280	sack	12.3	2.45		8	14.17	

14.10 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 GJ1	VARICEM (TM) CEMENT	160	sack	12.8	12.11		8	12.11
12.05 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	144.3	bbl	8.34			10	
<b>Cement Left In Pipe</b>		<b>Amount</b>	44 ft		<b>Reason</b>		Shoe Joint		
<b>Comment</b>									

1.1 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	8/8/2014	03:30:00	USER					
Event	2	Arrive at Location from Other Job or Site	Arrive at Location from Other Job Site	8/8/2014	05:30:00	USER					
Event	3	Rig-Up Completed	Rig-Up Completed	8/8/2014	11:15:00	USER					1-ELITE, 2-660 BULK TRUCK, 9.625" PLUG CONTAINER, 2" IRON.
Event	4	Pre-Job Safety Meeting	Pre-Job Safety Meeting	8/8/2014	11:45:00	USER	8.34	0.00	3.00	11.3	ALL HES AND RIG CREW PRESENT
Event	5	Start Job	Start Job	8/8/2014	12:05:50	COM5	8.38	0.00	4.00	0.0	TD-1895', TP-1879', SJ-44', CSG-9.625" 32#, OH-13.5", MUD-9.1PPG, 55 VISC
Event	6	Prime Pumps	Prime Pumps	8/8/2014	12:08:25	COM5	8.32	0.00	28.00	0.0	FRESH WATER
Event	7	Pressure Test	Pressure Test	8/8/2014	12:14:42	USER	8.41	0.00	2520.00	2.0	PRESSURE HELD AT 2520
Event	8	Pump Spacer 1	Pump Spacer 1	8/8/2014	12:17:12	COM5	8.35	4.00	81.00	2.0	FRESH WATER
Event	9	Pump Lead Cement	Pump Lead Cement	8/8/2014	12:26:55	COM5	12.36	8.00	269.00	0.0	280SKS, 12.3PPG, 2.45CF/SK, 14.17GAL/SK
Event	10	Pump Tail Cement	Pump Tail Cement	8/8/2014	12:43:02	COM5	12.81	8.00	288.00	122.2	160SKS, 12.8PPG, 2.18CF/SK, 12.11GAL/SK
Event	11	Shutdown	Shutdown	8/8/2014	12:51:37	USER	12.91	0.0	0.00	62.1	WASHED UP ON TOP OF PLUG
Event	12	Drop Plug	Drop Plug	8/8/2014	12:53:21	USER	-0.02	0.00	9.00	62.1	PLUG DROP VERIFIED BY TATTLE TAIL
Event	13	Pump Displacement	Pump Displacement	8/8/2014	12:54:24	COM5	8.43	10.00	609.00	134.3	FRESH WATER
Event	14	Slow Rate	Slow Rate	8/8/2014	13:11:26	USER	8.39	1.00	344.00	10.0	
Event	15	Bump Plug	Bump Plug	8/8/2014	13:19:12	USER	8.43	0.60	376.00	144.4	
Event	16	Check Floats	Check Floats	8/8/2014	13:21:21	USER	8.31	0.00	844.00	144.4	FLOATS HELD .5 BBLS BACK TO DISPLACEMENT TANK
Event	17	End Job	End Job	8/8/2014	13:23:45	USER	8.33	0.00	7.00	144.4	GOOD RETURNS THROUGH OUT JOB 25 BBLS CEMENT TO SURFACE
Event	18	Crew Leave Location	Crew Leave Location	8/8/2014	14:23:46	USER	8.35	0.00	7.00	144.4	THANK YOU FOR CHOOSING HALLIBURTON, ANDREW

# WPX - GM 544-12 - 9.625" SURFACE



- ① Call Out n/a;n/a;n/a;n/a
- ② Arrive at Location from Other Job Site n/a;n/a;n/a;n/a
- ③ Rig-Up Completed n/a;n/a;n/a;n/a
- ④ Pre-Job Safety Meeting 8.34;0;3;11.3
- ⑤ Start Job 8.38;0;4;11.3
- ⑥ Prime Pumps 8.42;0;5;0
- ⑦ Pressure Test 8.41;0;2520;2
- ⑧ Pump Spacer 1 8.4;0;11;2
- ⑨ Pump Lead Cement 8.35;4;89;0
- ⑩ Pump Tail Cement 12.81;7.3;238;120.5
- ⑪ SH
- ⑫ Dr



**HALLIBURTON** | iCem® Service

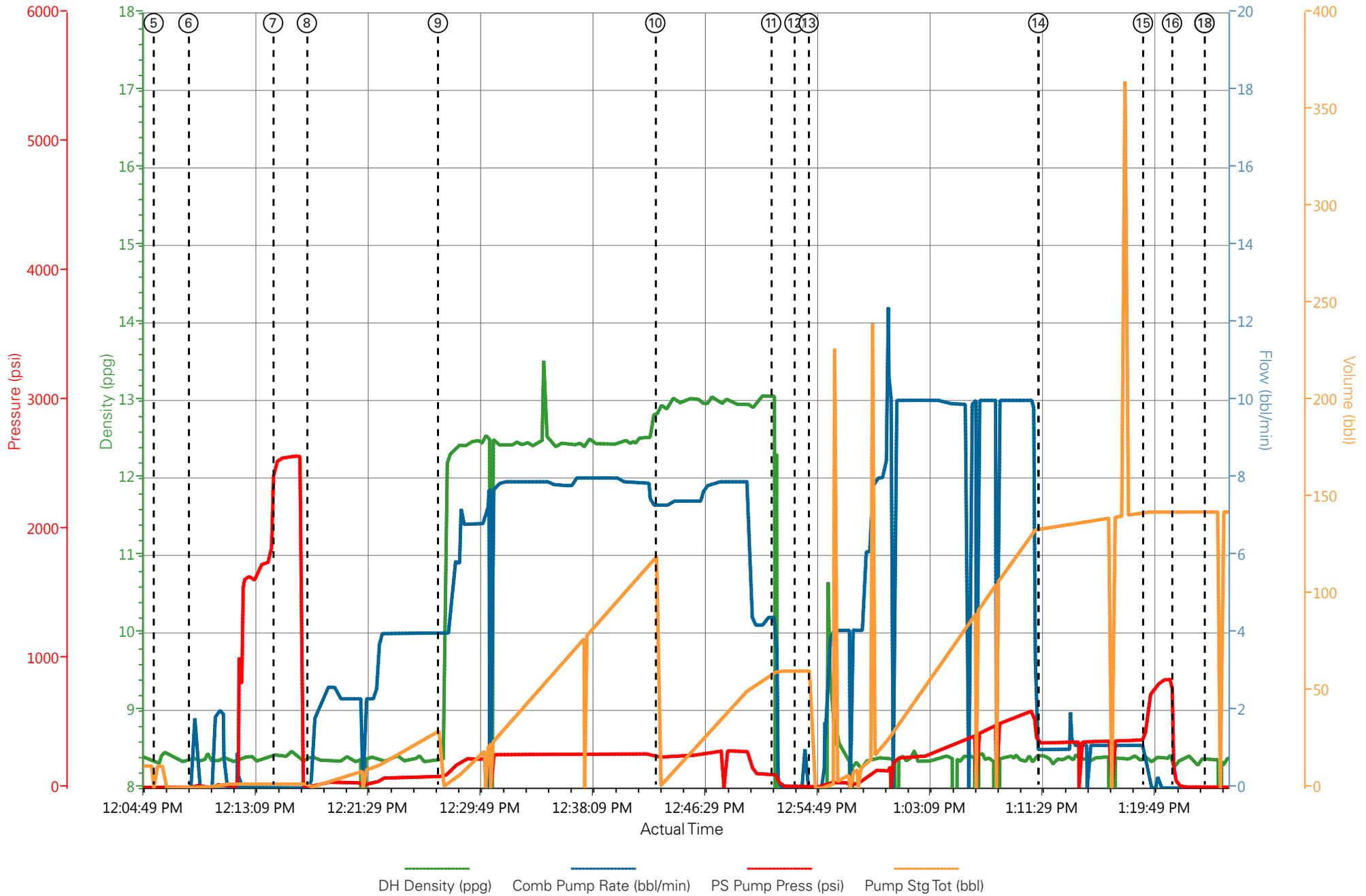
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Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS  
 Representative: RON TOWERS

Job Date: 8/8/2014 11:30:55 AM  
 Sales Order #: 901569380

Well: GM 544-12  
 ELITE#3: A.BRENNECKE/B.BANKS

WPX - GM 544-12 - 9.625" SURFACE



# HALLIBURTON

## Water Analysis Report

Company: WPX  
Submitted by: A.Brennecke  
Attention: C.ROSS  
Lease GM  
Well # 544-12

Date: 8/9/2014  
Date Rec.: 8/9/2014  
S.O.# 901569380  
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7.5</b>
Potassium (K)	<i>5000</i>	<b>200 Mg / L</b>
Calcium (Ca)	<i>500</i>	<b>250 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>&lt;200 Mg / L</b>
Chlorine (Cl <sub>2</sub> )		<b>0 Mg / L</b>
Temp	<i>40-80</i>	<b>75 Deg</b>
Total Dissolved Solids		<b>330 Mg / L</b>

Respectfully: A.Brennecke

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> 0901569380	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 8/8/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> RON TOWERS		<b>API / UWI: (leave blank if unknown)</b> 05-045-22427-00
<b>Well Name:</b> C&C ENERGY GM		<b>Well Number:</b> 0080611011
<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. Our 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, as possible to ensure we constantly improve our service. Your comments are of great value 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	8/8/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB58348
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	RON TOWERS
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>	8/8/2014
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>	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>	1.5
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)	YES
<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	96
<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	8
<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