

WPX Energy Rocky Mountain LLC- EBUS

Puckett GM 313-21

**Cyclone 17**

## **Post Job Summary**

# **Cement Production Casing**

Date Prepared: 11/2/2015  
Job Date: 01/24/2015

Submitted by: Jenna Cook – Grand Junction Cement Engineer

### The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3205608	Quote #:	Sales Order #: 0902071713
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: AL DUNIHO	
Well Name: PUCKETT	Well #: GM 313-21	API/UWI #: 05-045-22194-00	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 28-6S-96W-1283FNL-1060FWL			
Contractor: CYCLONE		Rig/Platform Name/Num: CYCLONE 17	
Job BOM: 7523			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srv Supervisor: Francisco Javier Castillo	
Job			

Formation Name			
Formation Depth (MD)	Top	1350ft	Bottom 8147ft
Form Type	BHST		
Job depth MD	8147ft	Job Depth TVD	
Water Depth		Wk Ht Above Floor 3ft	
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	NEW	9.625	9.001	32.3			0	1350		0
Casing	NEW	4.5	4	11.6			0	8147		0
Open Hole Section			6.75				1128	8147	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe						Top Plug	4.5	1	HES
Float Shoe	4.5	1	WFT	8147		Bottom Plug			
Float Collar	4.5	1	WFT	8115.58		SSR plug set			
Insert Float						Plug Container	4.5	1	HES
Stage Tool						Centralizers	4.5	30	WFT

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

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	Mud Flush III (Powder)	Mud Flush III	20	bbl	8.4			4		
42 gal/bbl		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
2	VariCem GJ3	VARICEM (TM) CEMENT	395	sack	13.7	1.42		8	6.61
6.64 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 GJ3	VARICEM (TM) CEMENT	705	sack	14.2	1.3		7	5.71
5.74 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	Displacement	Displacement	126	bbl	8.34			9	
Cement Left In Pipe		Amount	30.68 ft		Reason		Shoe Joint		
Comment									

## 1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Driv-Side Pump Pressure (psi)	Total Pumped Bbls (bbls)	Comment
			CALL OUT	1/29/2015	03:00:00						ON LOCATION AT 08:30 HRS
			LEAVE YARD SAFETY MEETING	1/29/2015	04:50:00						
			LEAVE THE YARD	1/29/2015	05:00:00						
			ARRIVE ON LOCATION	1/29/2015	06:30:00						RIG WAS STILL RUNNING CASING
			CASING RUNNING ISSUES	1/29/2015	07:00:01						RIG RAN INTO A TIGHT SPOT RUNNING CASING AT 2323FT AND WORKED THE CASING WHILE CIRCULATING FOR 2.5HRS TILL WAS ABLE TO PASS THE TIGHT SPOT AND RAN THE REST OF THE CASING WITHOUT OTHER ISSUES.
			SPOT TRUCKS	1/29/2015	12:05:01						
			RIG UP SAFETY MEETING	1/29/2015	12:15:01						
			RIG UP	1/29/2015	12:20:01						1-ELITE, 1-660, 1-1700FT3 SILO, 2" PUMPING IRON, BALE BASKET, PLUG CONTAINER AND QUICK CONNECT
			RIG UP COMPLETE	1/29/2015	13:30:01						WAITING ON RIG TO FINISH RUNNING CASING
			RIG LAND CASING	1/29/2015	15:00:01						RIGGED UP PLUG CONTAINER AND RIG BEGAN TO CIRCULATE WELL AT 15:10 HRS
			PRE-JOB SAFETY MEETING	1/29/2015	18:15:01						ALL HES PERSONEL AND RIG CREW
			START JOB	1/29/2015	18:33:22						JOB DEPTH-8147", OH-8.75", SJ-30.68, FC-8116.58, CSG-4.5, 11.6#, I-80, MUD-

								11.1 PPG, FV-68, PV-10, YP-13, pH-10.2, TEMP-76
FILL LINES	1/29/2015	18:34:58	8.33 PPF	2 BPM	164 PSI	2 BBLS		FRESH WATER
STALL OUT	1/29/2015	18:36:14						TESTED AT 3590 PSI
TEST LINES	1/29/2015	18:37:48						TESTED AT 5100 PSI
MUD FLUSH III	1/29/2015	18:41:07	8.4 PPG	4 BPM	399 PSI	20 BBLS		
LEAD CEMENT	1/29/2015	18:50:19	13.7 PPG	8 BPM	972 PSI	100 BBLS		395 SKS, 13.7 PPG, 1.42 FT3/SK, 6.61 GAL/SK, SETUP TIME 2:31 HRS AT 70 BC
TAIL CEMENT	1/29/2015	19:04:00	14.2 PPG	7 BPM	770 PSI	163 BBLS		705 SKS, 14.2 PPG, 1.30 FT3/SK, 5.71 GAL/SK, SETUP TIME 2:11 HRS AT 70 BC
SHUTDOWN	1/29/2015	19:29:12						GOOD CIRCULATION THROUGH CEMENT
DROP TOP PLUG	1/29/2015	19:34:08						PLUG DROP VERIFIED BY CUSTOMER
DISPLACEMENT	1/29/2015	19:34:40	8.4 PPG	9 BPM	2100 PSI	116 BBLS		KCL + 3LBS BE-6 ON THE 1ST 30 BBLS, 1-GAL MMCR AND THE 1ST 10 BBLS
SLOW RATE	1/29/2015	19:48:37	8.4 PPG	4 BPM	1800 PSI	10 BBLS		
BUMP PLUG	1/29/2015	19:51:30			2300 PSI	TOTAL DISP. 126 BBLS		GOOD CIRCULATION THROUGH OUT DISPLACEMENT
CHECK FLOATS	1/29/2015	19:55:38						FLOATS HELD WITH 1 BBLS FLOW BACK
END JOB	1/29/2015	19:56:27						
RIG DOWN SAFETY MEETING	1/29/2015	20:05:01						
RIG DOWN	1/29/2015	20:10:01						BLOW DOWN SILO, WASH UP PUMP, AND AIR BLOW DOWN CEMENT PUMP, RIG DOWN STAND PIPES FROM V-DOOR SLIDE
RIG DOWN COMPLETE	1/29/2015	23:00:00						
DEPART LOCATION SAFETY MEETING	1/29/2015	23:15:00						NO INJURIES TO REPORT AFTER THE JOB

CREW LEAVE LOCATION	1/29/2015	23:59:01	
THANK YOU	1/29/2015	23:59:03	THANK YOU FOR YOUR BUSINESS FROM JAVIER CASTILLO AND CREW

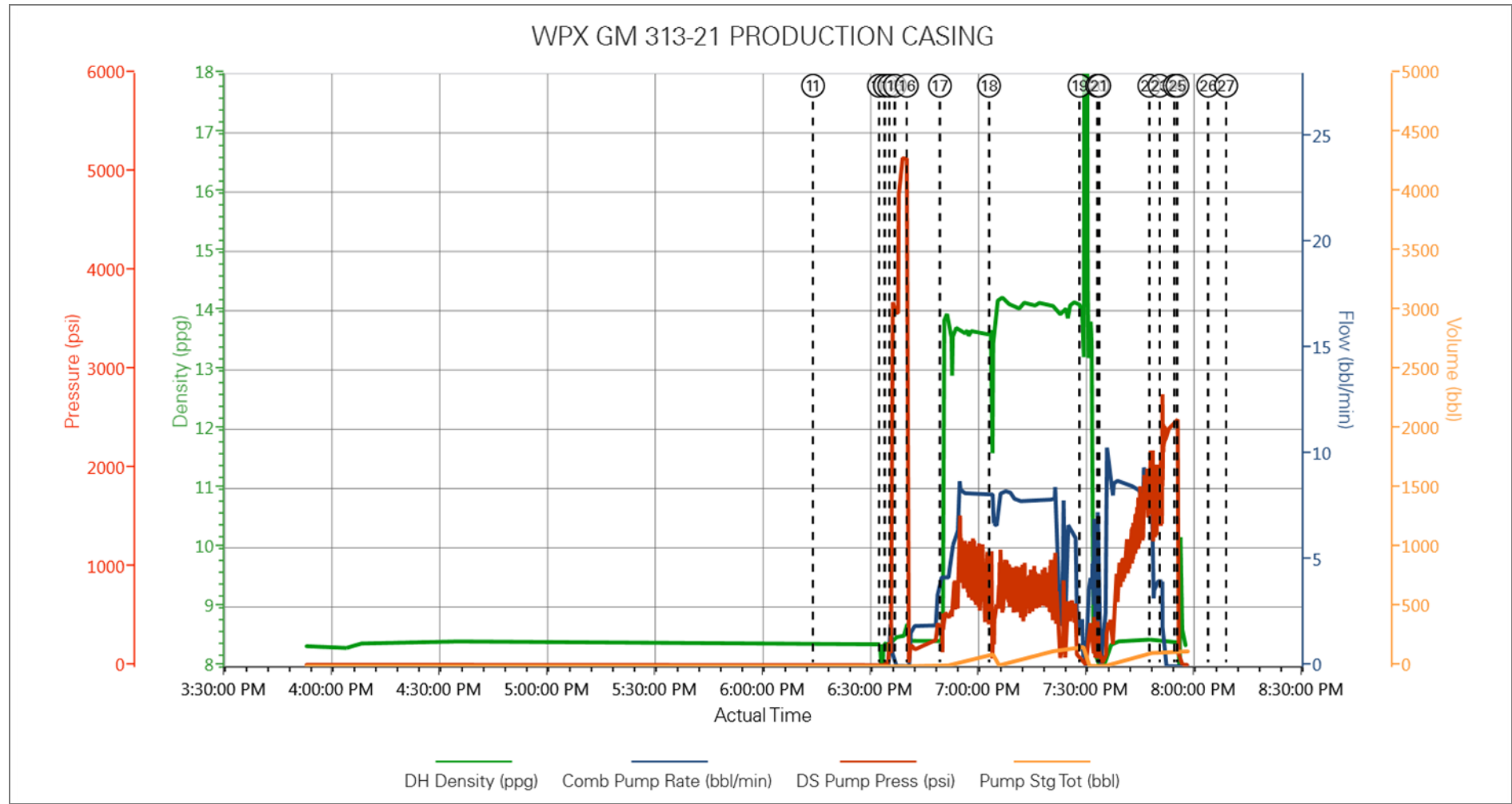
2.0 Attachments

2.1 Case 1-Custom Results.png



3.0 Custom Graphs

3.1 Custom Graph





<b>Sales Order #:</b> 0902071713	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/29/2015
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT PRODUCTION CASING BOM
<b>Customer Representative:</b> AL DUNIHO		<b>API / UWI: (leave blank if unknown)</b> 05-045-22194-00
<b>Well Name:</b> PUCKETT		<b>Well Number:</b> 0080241895
<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	1/29/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB85312
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	1/29/2015

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.	Vertical
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	4
<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.	2
<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	5
<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)	No
<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	95
<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

# HALLIBURTON

## Water Analysis Report

Company: WPX

Submitted by: JAVIER CASTILLO

Attention: Chuck Ross

Lease: GM

Well #: 313-21

Date: 1/29/2015

Date Rec.: 1/29/2015

S.O.#: 902071713

Job Type: PRODUCTION

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>200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>0</b> Mg / L
Temp	<i>40-80</i>	<b>80</b> Deg
Total Dissolved Solids		<b>530</b> Mg / L

Respectfully: JAVIER CASTILLO

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