

WPX Energy Rocky Mountain LLC- EBUS

GM 42-28

H&P 318

Post Job Summary

Cement Production Casing

Date Prepared: 02/05/2015
Job Date: 01/26/2015

Submitted by: Evan Russell – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3565561	Quote #:	Sales Order #: 0902056178
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep:	
Well Name: WPX GM	Well #: 42-28	API/UWI #: 05-045-22507-00	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: NE SW-28-6S-96W-1535FSL-2324FWL			
Contractor: H & P DRLG		Rig/Platform Name/Num: H & P 318	
Job BOM: 7523			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srv Supervisor:	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	7875ft		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
Casing		9.625	8.921	36			0	1557	
Casing		4.5	4	11.6			0	7875	0
Open Hole Section			8.75				1557	7875	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	4.5	1		7875		Top Plug	4.5	1	HES
Float Shoe	4.5					Bottom Plug	4.5		HES
Float Collar	4.5	1				SSR plug set	4.5		HES
Insert Float	4.5					Plug Container	4.5	1	HES
Stage Tool	4.5					Centralizers	4.5		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 ft ³ /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								

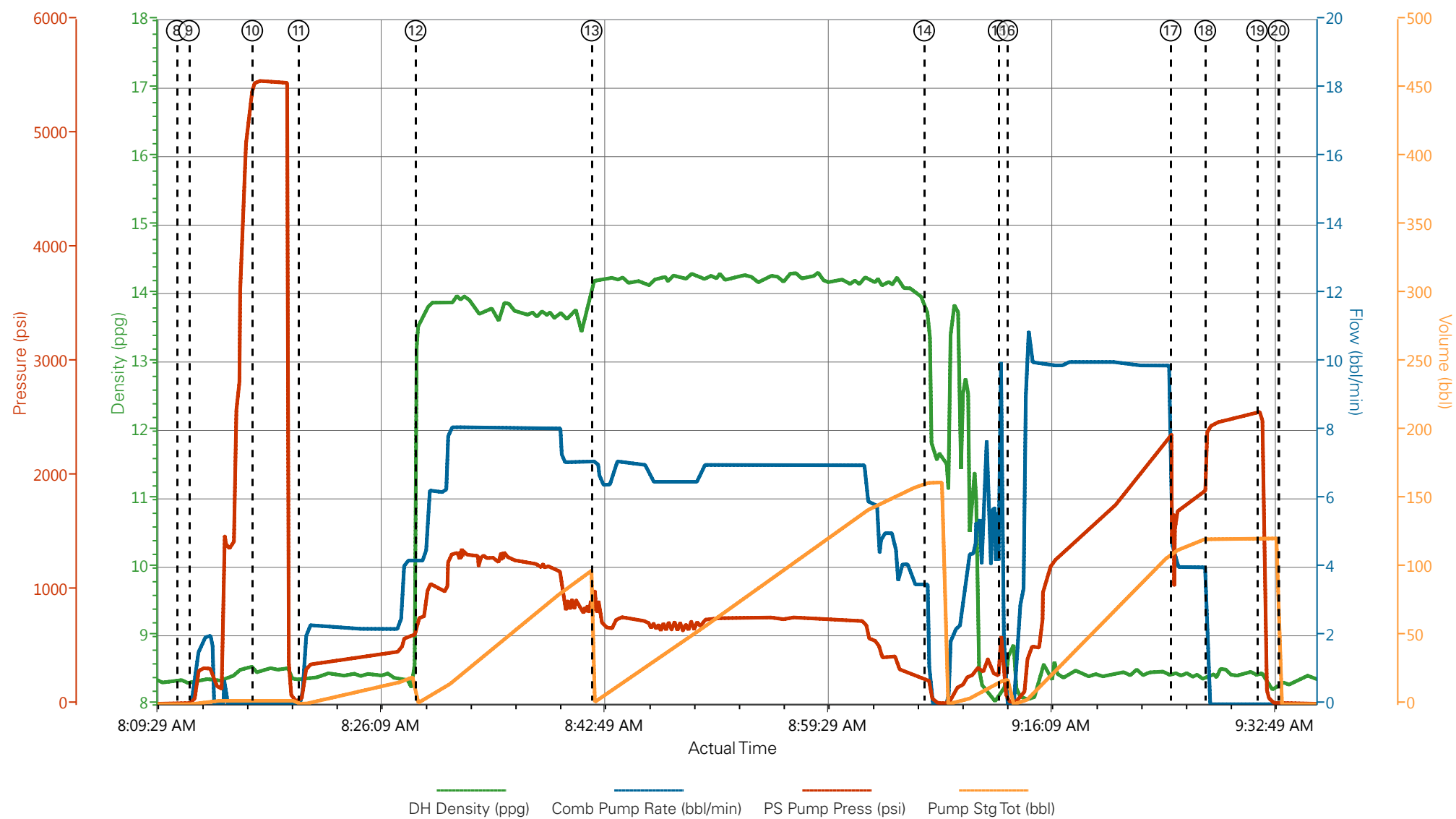
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	VariCem GJ3	VARICEM (TM) CEMENT	385	sack	13.7	1.42		8	6.61
6.64 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VariCem GJ3	VARICEM (TM) CEMENT	720	sack	14.2	1.3		8	5.71
5.74 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Displacement	Displacement	121	bbl	8.34			10 / 4	
Cement Left In Pipe		Amount	27 ft			Reason		Shoe Joint	
Mix Water: pH ##		Mix Water Chloride: ## ppm			Mix Water Temperature: ## °F °C				
Cement Temperature: ## °F °C		Plug Displaced by: ## lb/gal kg/m ³ XXXX			Disp. Temperature: ## °F °C				
Plug Bumped? Yes		Bump Pressure: 2565 psi MPa			Floats Held? Yes				
Cement Returns: 0 bbl m ³		Returns Density: ## lb/gal kg/m ³			Returns Temperature: ## °F °C				
Comment									

3.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	1/25/2015	23:30:00	USER					ALL HES CREW PRESENT
Event	2	Depart from Service Center or Other Site	1/26/2015	02:30:00	USER					SAFETY MEETING DEPARTING SERVICE CENTER
Event	3	Arrive At Loc	1/26/2015	04:00:00	USER					ARRIVE EARLY AT LOC RIG RUNNING CSG / HES EQUIPMENT ON LOC 1 EA CEMENT PUMP UNIT 1 EA 660 BULK UNIT 1 EA SILO 1 EA SERVICE PICKUP UNIT
Event	4	Assessment Of Location Safety Meeting	1/26/2015	04:15:00	USER					ASSESMENT WALK THRU OF LOCATION 3 RD PARTY IN AREA
Event	5	Pre-Rig Up Safety Meeting	1/26/2015	05:00:00	USER					PRE-RIG UP SAFETY MEETING ALL HES CREW PRESENT
Event	6	Rig-Up Equipment	1/26/2015	05:30:00	USER					RIG UP TO STAND PIPES AND CLEAN UP LINE TO PIT / RIG UP SUCTION HOSES TO UP RIGHT
Event	7	Pre-Job Safety Meeting	1/26/2015	07:45:00	USER	8.37	0.00	2.00	0.0	RE-JOB SAFETY MEETING ALL RIG PERSONEL AND HES CREW PRESENT
Event	8	Start Job	1/26/2015	08:11:11	COM6	8.37	0.00	2.00	0.0	START JOB: TP 7875.7 FT SJT 26.7 FT OH 8 3/4 IN WF/WT 11.2# CSG 4.5 IN I- 80 11.6#
Event	9	Prime Pumps	1/26/2015	08:12:06	COM6	8.32	0.00	23.00	2.0	PRIME LINES WITH FRESH WATER 3 BBLS
Event	10	Test Lines	1/26/2015	08:16:49	COM6	8.48	0.00	5460.00	0.5	PRESSURE TEST LINES 5 TH GEAR STALL OUT AT 1400 PSI TEST TO 5465 PSI TEST GOOD
Event	11	Pump Spacer 1	1/26/2015	08:20:16	COM6	8.35	0.00	51.00	20	PUMP 20 BBL MUD FLUSH AHEAD

Event	12	Pump Lead Cement	1/26/2015	08:28:59	COM6	13.60	4.20	754.00	97.4	PUMP 385 SKS LEAD CEMENT AT 13.7 PPG 1.42 Y 6.61 GAL/SKS RETURNS GOOD AND CMT DIP GOOD
Event	13	Pump Tail Cement	1/26/2015	08:42:07	COM6	14.20	7.00	976.00	166.7	PUMP 720 SKS TAIL CEMENT AT 14.2 PPG 1.3 Y 5.71 GAL/SKS RETURNS GOOD CMT DIP IS GOOD
Event	14	Shutdown	1/26/2015	09:06:55	USER	13.71	3.50	220.00	286.6	SHUT DOWN END CEMENT / SWAP LINES TO WASH UP TO PIT / SWAP LINES BACK TO FLOOR
Event	15	Drop Top Plug	1/26/2015	09:12:28	COM6	8.14	4.10	322.00	0	DROP TOP PLUG / PLUG AWAY
Event	16	Pump Displacement	1/26/2015	09:13:07	COM6	8.83	0.00	13.00	110	PUMP 121.6 BBLS KCL DISPLACEMENT / RETURNS GOOD
Event	17	Slow Rate	1/26/2015	09:25:17	USER	8.50	4.40	1039.00	111.5	SLOW RATE LAST 10 BBLS TO 4 BBL MIN
Event	18	Bump Plug	1/26/2015	09:27:52	COM6	8.44	0.00	2418.00	121.1	PLUG LANDED AT 1850 PSI BUMP TO 2565 PSI
Event	19	Other	1/26/2015	09:31:44	COM6	8.45	0.00	2567.00	0.0	CHECK FLOATS / FLOATS HELD GOT BACK 1 BBL TO TANKS
Event	20	End Job	1/26/2015	09:33:20	COM6	8.35	0.00	5.00	407.7	END JOB HAD RETURNS THRU OUT THE JOB / DID NOT CALCULATE CMT TO SURFACE AND HAD NONE
Event	21	Pre-Rig Down Safety Meeting	1/26/2015	09:40:00	USER	8.33	0.00	2.00	0.0	RIG DOWN SAFETY MEETING ALL HES CREW PRESENT
Event	22	Rig-Down Equipment	1/26/2015	09:48:29	USER	8.32	0.00	4.00	0.0	RIG DOWN FLOOR / WASH UP TO PIT AND RIG DOWN GROUND IRON
Event	23	Depart Location Safety Meeting	1/26/2015	11:40:00	USER					SAFETY MEETING DEPARTING LOC
Event	24	Comment	1/26/2015	11:45:00	USER					THANK YOU FOR USING HALLIBURTON CEMENTING SERVICES AND THE CREW

WPX ENERGY ROCKY MOUNTAIN HP 318 CEMENT PRODUCTION CSG JOB GM 42-28



- | | | | | |
|--|--------------------------|--------------------|---------------------|-----------------------------------|
| ① Call Out | ⑥ Rig-Up Equipment | ⑪ Pump Spacer 1 | ⑯ Pump Displacement | 21 Pre-Rig Down Safety Meeting |
| ② Depart from Service Center or Other Site | ⑦ Pre-Job Safety Meeting | ⑫ Pump Lead Cement | ⑰ Slow Rate | 22 Rig-Down Equipment |
| ③ Arrive At Loc | ⑧ Start Job | ⑬ Pump Tail Cement | ⑱ Bump Plug | 23 Depart Location Safety Meeting |
| ④ Assessment Of Location Safety Meeting | ⑨ Prime Pumps | ⑭ Shutdown | ⑲ Check Floats | 24 Comment |
| ⑤ Pre-Rig Up Safety Meeting | ⑩ Test Lines | ⑮ Drop Top Plug | 20 End Job | |

▼ **HALLIBURTON** | iCem® Service

Created: 2015-01-26 04:53:51, Version: 3.0.121

Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-
EBUS

Job Date : 1/26/2015 5:46:58 AM

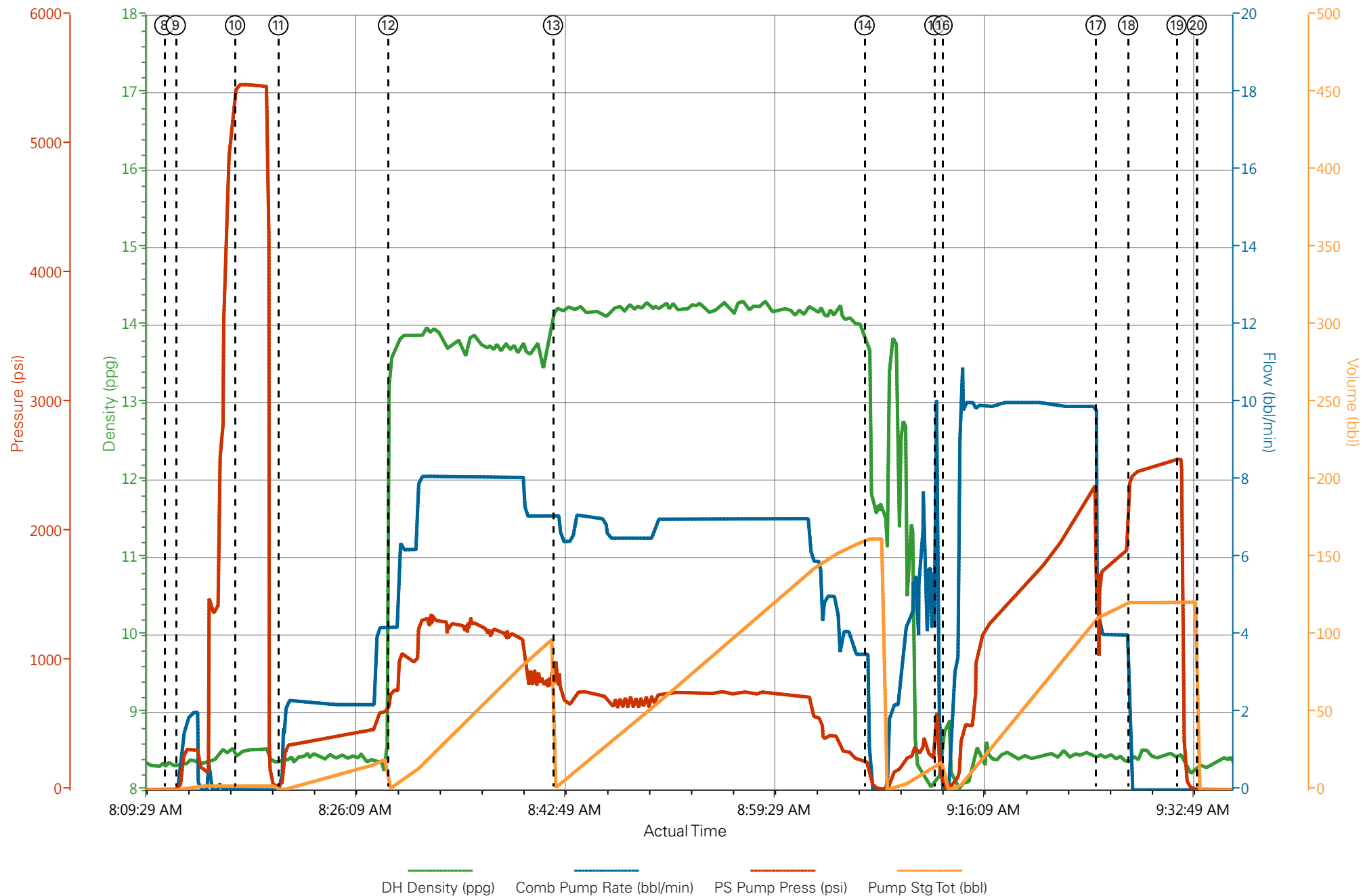
Well : 48-28

Representative : CRAIG KUKUS

Sales Order # : 0902056178

ELITE 9 / OPERATOR : DUSTIN HYDE

WPX ENERGY ROCKY MOUNTAIN HP 318 CEMENT PRODUCTION CSG JOB GM 42-28



HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: CRAIG KUKUS
Attention: _____
Lease: GM
Well #: 48-28

Date: 1/26/2015
Date Rec.: 1/26/2015
S.O.#: 902056178
Job Type: PRODUCTION

Specific Gravity	MAX	0
pH	8	7
Potassium (K)	5000	200 Mg / L
HARDNESS	500	425 Mg / L
Iron (FE2)	300	0 Mg / L
Chlorides (Cl)	3000	0 Mg / L
Sulfates (SO ₄)	1500	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	40-80	45 Deg
Total Dissolved Solids		450 Mg / L

Respectfully: CRAIG KUKUS

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

Sales Order #: 0902056178	Line Item: 10	Survey Conducted Date: 1/26/2015
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: WC WILSON		API / UWI: (leave blank if unknown) 05-045-22507-00
Well Name: WPX GM		Well Number: 0080644772
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: 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	1/26/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX19742
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	WC 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	

CUSTOMER SIGNATURE

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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	1/26/2015

Cementing KPI Survey	
Type of Job Select the type of job. (Cementing or Non-Cementing)	0
Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	5
HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only.	No
Was the job purpose achieved? Was the job delivered correctly as per customer agreed design?	Yes
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format.	1.5
Customer Non-Productive Rig Time (hrs) 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.	0
Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
Number Of JSAs Performed Number Of Jsas Performed	6
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Was this a Primary Cement Job (Yes / No)	Yes

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Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
Mixing Density of Job Stayed in Designed Density Range (0-100%) Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	99
Was Automated Density Control Used? Was Automated Density Control (ADC) Used ?	Yes
Pump Rate (percent) of Job Stayed At Designed Pump Rate 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
Nbr of Remedial Sqz Jobs Rqd - Competition Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
Nbr of Remedial Plug Jobs Rqd - HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
Nbr of Remedial Sqz Jobs Rqd - HES Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0