

WPX Energy Rocky Mountain LLC - EBUS

GM 533-28

H&P 318

Post Job Summary

Cement Surface Casing

Date Prepared: 12/16/2014
Job Date: 12/03/2014

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3565579	Quote #:	Sales Order #: 0901900660
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: W.C. WILSON	
Well Name: WPX GM		Well #: 533-28	API/UWI #: 05-045-22502-00
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: NE SW-28-6S-96W-1498FSL-2352FWL			
Contractor:		Rig/Platform Name/Num: H&P 318	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Christopher Kukus	
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1176ft Job Depth TVD
Water Depth	Wk Ht Above Floor 5FT
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	1176		0
Casing	0	9.625	9.001	32.3	8 RD	H-40	0	1176		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1		1176.5		Top Plug	9.625	1	HES
Float Shoe	9.625	1				Bottom Plug	9.625		HES
Float Collar	9.625	1		1132.47		SSR plug set	9.625		HES
Insert Float	9.625	1				Plug Container	9.625	1	HES
Stage Tool	9.625	1				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	125	sack	12.3	2.45		8	14.17

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	2.18		8	12.11
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	89.1	bbl	8.34			10	
Cement Left In Pipe		Amount	44 ft		Reason		Shoe Joint		
Comment									

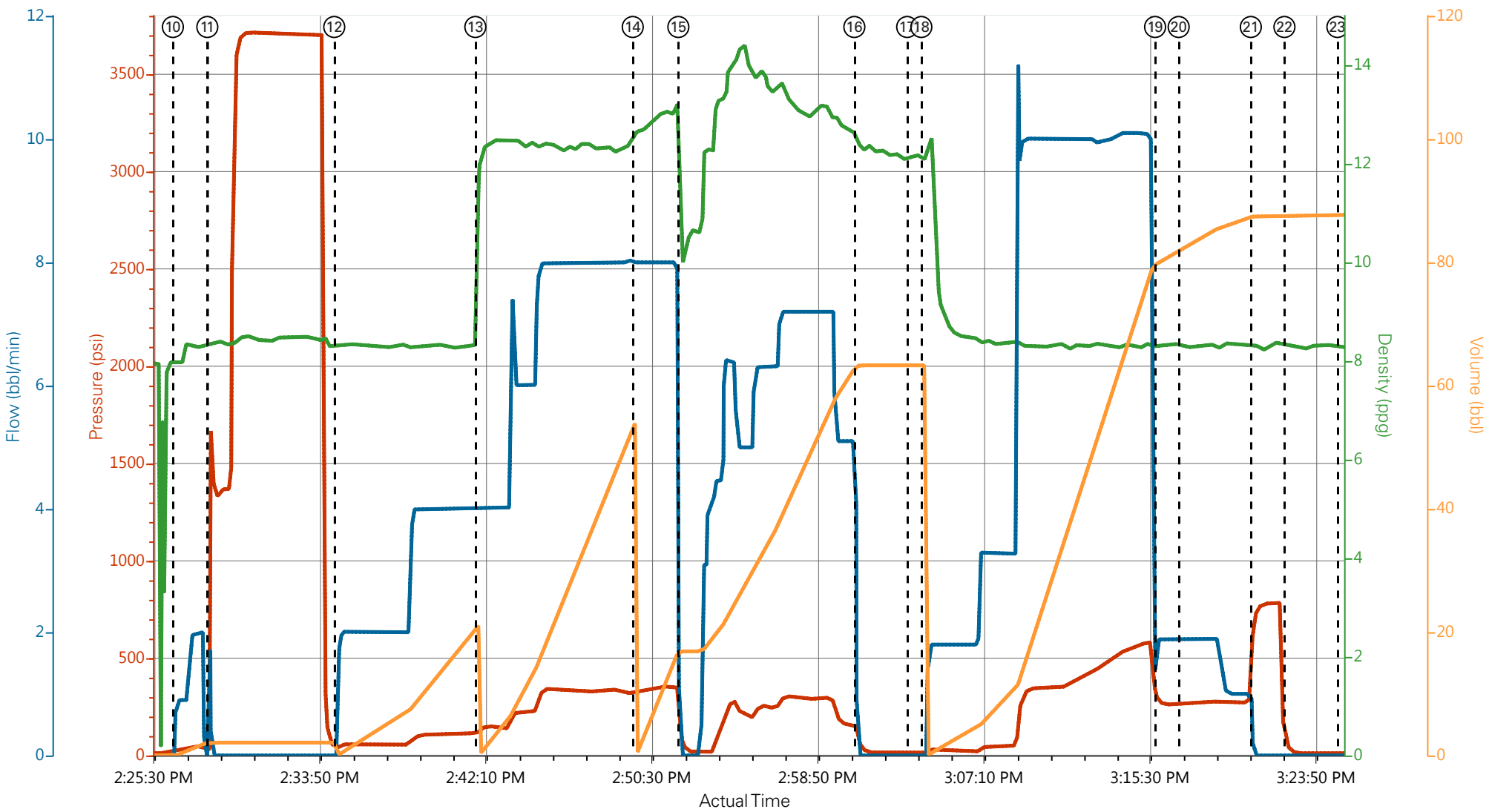
1.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	12/3/2014	05:00:21	USER					HES CREW CALLED OUT AT 05:00 WITH ON LOCATION TIME OF 09:30
Event	2	Pre-Convoy Safety Meeting	12/3/2014	08:30:15	USER					ALL HES CREW MEMBERS
Event	3	Crew Leave Yard	12/3/2014	08:45:27	USER					HES CREW AND EQUIPMENT WAS READY AT 08:45 THERE WERE SOME ISSUES WITH THE BULK TRUCK THAT NEEDED TO BE FIXED BEFORE CREW LEFT
Event	4	Arrive at Location from Service Center	12/3/2014	10:00:35	USER					HES CREW ARRIVED AT 10:00 30 MINS LATE RIG WAS RIGGING UP TO RUN CASING HES CREW SPOTTED EQUIPMENT AND RIGGED UP
Event	5	Assessment Of Location Safety Meeting	12/3/2014	10:20:42	USER					ALL HES CREW MEMBERS
Event	6	Pre-Rig Up Safety Meeting	12/3/2014	10:30:54	USER					ALL HES CREW MEMEBERS
Event	7	Rig-Up Equipment	12/3/2014	10:45:08	USER					RIG UP IRON TO STAND PIPE, FRESH WATER LINES TO UP RIGHT AND DAY TANK, BULK LINE TO BULK TRUCK
Event	8	Pre-Job Safety Meeting	12/3/2014	14:15:23	USER					ALL HES CREW AND RIG CREW
Event	9	Start Job	12/3/2014	14:24:15	COM5					TD: 1176.5 TP: 1176.5 SJ: 44.03 CSG: 9 5/8 32.3# H-40 OH: 13 1/2 MUD: 9.7 VISC: 50
Event	10	Prime Pumps	12/3/2014	14:26:37	COM5	75.0	8.36	2.00	2.00	PRIME LINES WITH 2 BBLS OF FRESH WATER
Event	11	Test Lines	12/3/2014	14:28:20	COM5	3700.00	8.32	0.00	2.1	PRESSURE TEST OK AT 3700 PSI KICK OUTS WORKING AND 5TH GEAR STALL OUT AT 1369 PSI
Event	12	Pump Spacer 1	12/3/2014	14:34:43	COM5	115.0	8.32	4.0	20.00	PUMP 20 BBLS OF FRESH WATER SPACER
Event	13	Pump Lead Cement	12/3/2014	14:41:48	COM5	122.00	12.35	8.0	54.5	VARICEM 125 SKS 12.3 PPG 2.45 YIELD 14.17 GAL/SK LEAD CEMENT WEIGHT VERIFIED BY MUD

										SCALE WET AND DRY SAMPLES WERE TAKEN TOTAL OF 54.5 BBLS OF LEAD CEMENT AWAY
Event	14	Pump Tail Cement	12/3/2014	14:49:42	COM5	326.00	12.86	8.00	66.0	VARICEM 170 SKS 12.8 PPG 2.18 YIELD 12.11 GAL/SK TAIL CEMENT WEIGHT VERIFIED BY MUD SCALE WET AND DRY SAMPLES WERE TAKEN TOTAL OF 66 BBLS OF TAIL CEMENT AWAY
Event	15	Shutdown	12/3/2014	14:51:59	USER	79.00	12.55	0.00	16.9	HES CREW HAD TO SHUTDOWN DUE TO NOT BEING ABLE TO PULL ON WATER
Event	16	Shutdown	12/3/2014	15:00:49	USER	99.00	12.76	0.00	66.0	SHUTDOWN END OF CEMENT READY TANKS FOR DISPLACEMENT HES CREW WASHED UP ON TOP OF THE PLUG
Event	17	Drop Top Plug	12/3/2014	15:03:28	USER					TOP PLUG AWAY WITH NO ISSUES
Event	18	Pump Displacement	12/3/2014	15:04:11	COM5	509.0	8.42	0.00	89.1	PUMP 89.1 BBLS OF FRESH WATER DISPLACEMENT
Event	19	Slow Rate	12/3/2014	15:15:55	USER	282.00	8.28	2.0	80.0	SLOW RATE TO BUMP PLUG
Event	20	Slow Rate	12/3/2014	15:17:06	USER	267.00	8.31	1.0	87.5	SLOW RATE TO HELP CEMENT FROM FALLING BACK PER CO REP REQUEST
Event	21	Bump Plug	12/3/2014	15:20:43	COM5	273.0	8.41	0.00	89.1	BUMP PLUG AT 273 PSI AND TOOK UP TO 783 PSI
Event	22	Check Floats	12/3/2014	15:22:24	USER	783.0	8.33	0.00	89.1	FLOATS HELD WITH .5 BBL BACK TO DISPLACEMENT TANKS
Event	23	End Job	12/3/2014	15:25:04	USER					JOB WENT WELL DID HAVE ISSUES ON TAIL WITH NO BEING ABLE TO PULL ON WATER WE DID HAVE 24 BBLS OF CEMENT TO SURFACE AND 20 LBS OF SUGAR USED
Event	24	Post-Job Safety Meeting (Pre Rig- Down)	12/3/2014	15:30:00	USER					ALL HES CREW MEMBERS
Event	25	Pre-Rig Down Safety Meeting	12/3/2014	15:35:10	USER					ALL HES CREW MEMBERS
Event	26	Rig-Down Equipment	12/3/2014	15:50:20	USER					RIG DOWN FLOOR, GROUND IRON, FRESH WATER LINES, BULK LINE AND WASH UP, BLOW DOWN PUMP
Event	27	Pre-Convoy Safety Meeting	12/3/2014	16:20:34	USER					ALL HES CREW MEMBERS

Event	28	Crew Leave Location	12/3/2014	16:30:46	USER	THANK YOU FOR USING HALLIBURTON CEMENT CHRIS KUKUS AND CREW HAVE A NICE DAY
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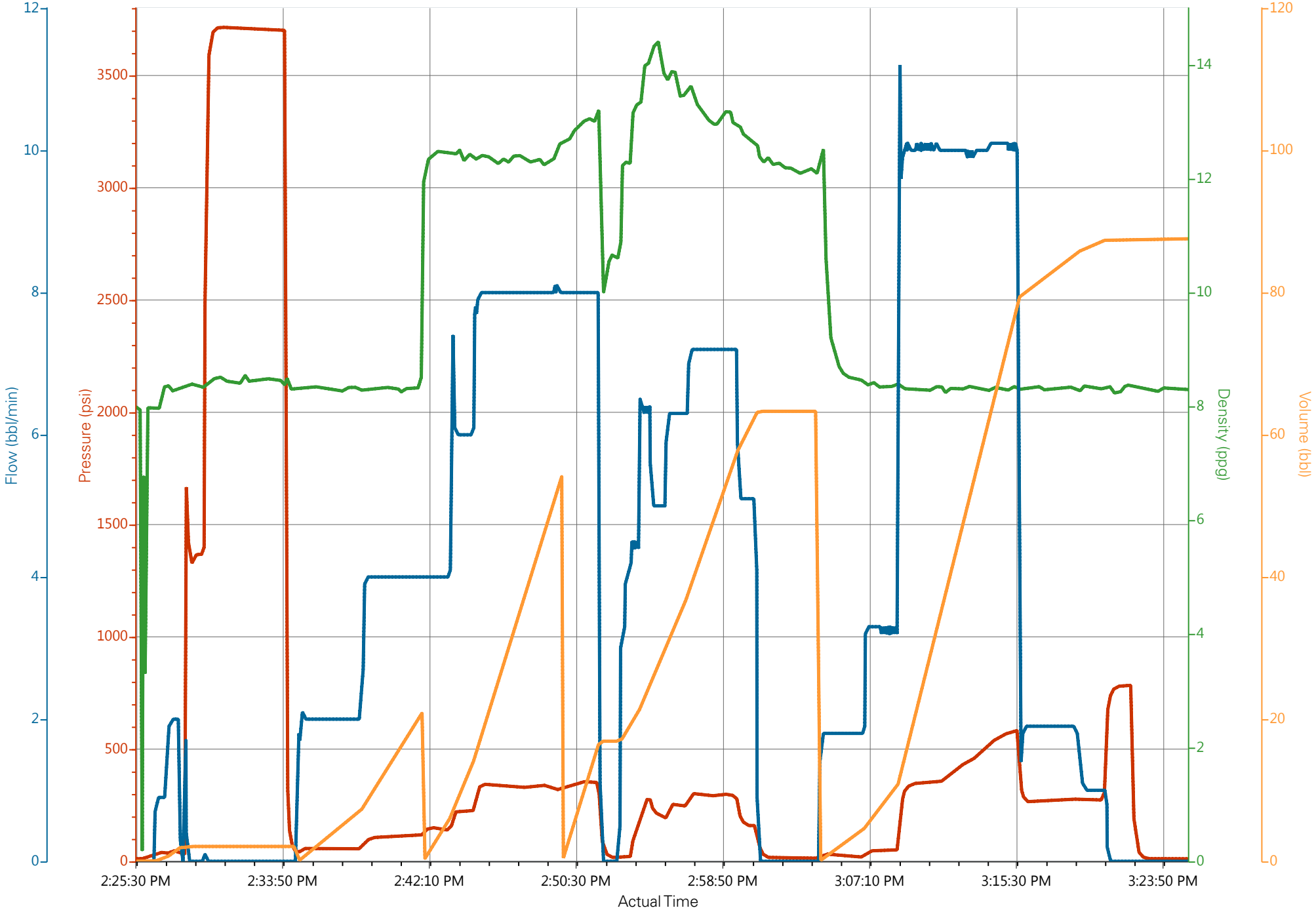
WPX GM 533-28 Surface



PS Pump Press (psi) DH Density (ppg) Comb Pump Rate (bbl/min) Pump Stg Tot (bbl)

① Call Out n/a;n/a;n/a;n/a	⑧ Pre-Job Safety Meeting 10;8.07;0;0	⑮ Shutdown 79;10.23;0;16.9	22 Check Floats 44;8.33;0;87.5
② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a	⑨ Start Job 10;7.99;0;0	⑯ Shutdown 99;12.43;0;63.3	23 End Job 11;8.28;0;87.5
③ Crew Leave Yard n/a;n/a;n/a;n/a	⑩ Prime Lines 28;7.96;0.9;0.1	⑰ Drop Top Plug 14;12.13;0;63.3	24 Post-Job Safety Meeting (Pre Rig-Down) 11;8.29;0;115.8
④ Arrive at Location from Service Center n/a;n/a;n/a;n/a	⑪ Test Lines 1655;8.32;0;2.1	⑱ Pump Displacement 14;12.09;0;63.3	25 Pre-Rig Down Safety Meeting 10;8.29;0;115.8
⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a	⑫ Pump Spacer 1 37;8.32;1.7;0.1	⑲ Slow Rate 282;8.28;1.9;80	26 Rig-Down Equipment n/a;n/a;n/a;n/a
⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a	⑬ Pump Lead Cement 122;11.91;4;0	20 Slow Rate 267;8.31;1.9;82.2	27 Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a
⑦ Rig-Up Equipment n/a;n/a;n/a;n/a	⑭ Pump Tail Cement 326;12.65;8;0.1	21 Bump Plug 702;8.41;0;87.5	28 Crew Leave Location n/a;n/a;n/a;n/a

WPX GM 533-28 Surface



PS Pump Press (psi) DH Density (ppg) Comb Pump Rate (bbl/min) Pump Stg Tot (bbl)

HALLIBURTON

Water Analysis Report

Company: WPX ENERGY

Submitted by: CHRIS KUKUS

Attention: LARRY COOKSEY

Lease GM

Well # 533-28

Date: 12/3/2014

Date Rec.: 12/3/2014

S.O.# 901900660

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	UNDER 400 Mg / L
Hardness		50 Mg / L
Temp	<i>40-80</i>	50 Deg
Total Dissolved Solids		200 Mg / L

Respectfully: CHRIS 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 if

Sales Order #: 0901900660	Line Item: 10	Survey Conducted Date: 12/3/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22502-00
Well Name: WPX GM		Well Number: 0080644790
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	12/3/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX35027
Customer Participation	Did the customer participate in this survey? (Y/N)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

CUSTOMER SIGNATURE

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H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	12/3/2014

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.	3
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
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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Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22502-00
Well Name: WPX GM		Well Number: 0080644790
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	80
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	80
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