

WPX Energy Rocky Mountain LLC - EBUS

GM 332-12

Nabors 573

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 #: 3560651	Quote #:	Sales Order #: 0901891191
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Harry Samson	
Well Name: GM	Well #: 332-12	API/UWI #: 05-045-22467-00	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: NE NW-12-7S-96W-1189FNL-1905FWL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 573	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: Dustin Hyde	
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1659ft Job Depth TVD 1634ft
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
Open Hole Section			13.5				0	1675	0	0
Casing		9.625	9.001	32.3	8 RD	H-40	0	1659		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make	
Guide Shoe	9.625	1		1659	Top Plug	9.625	1	HES	
Float Shoe	9.625	1			Bottom Plug				
Float Collar	9.625	1		1614	SSR plug set				
Insert Float	9.625	1			Plug Container	9.625	1	HES	
Stage Tool	9.625	1			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	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	230	sack	12.3	2.45		8	14.17	

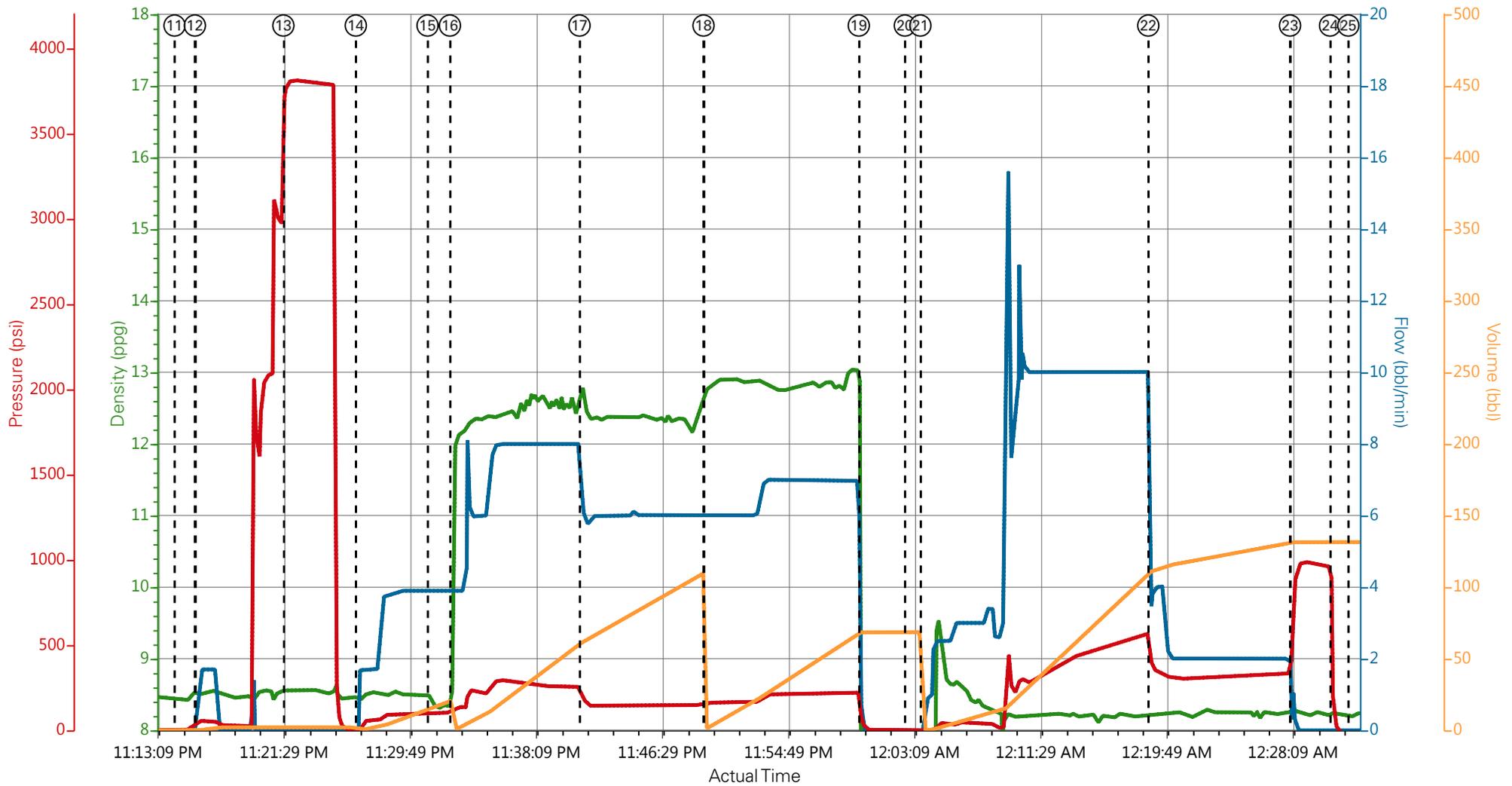
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	VariCem GJ5	VARICEM (TM) CEMENT	160	sack	12.8	2.18		7	12.11
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	127.4	bbl	8.34			10	
Cement Left In Pipe		Amount 44 ft	Reason		Shoe Joint				
Comment									

1.5 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)	Comments
Event	1	Call Out	12/2/2014	15:00:00	USER					JUST ROLLED INTO YARD ON LOCATION AT 1800
Event	2	Pre-Convoy Safety Meeting	12/2/2014	16:45:00	USER					ALL HES PERSONNEL PRESENT
Event	3	Crew Leave Yard	12/2/2014	17:00:00	USER					1 HT 400 PUMP TRUCK E#8, 2 660 BULK TRUCKS, 1 550 PICKUP
Event	4	Arrive At Loc	12/2/2014	18:00:00	USER					RIG RUNNING CASING UPON HES ARRIVAL
Event	5	Assessment Of Location Safety Meeting	12/2/2014	18:30:00	USER					PERFORMED JSA AND WATER TEST
Event	6	Other	12/2/2014	21:00:00	USER					1 HT 400 PUMP TRUCK E#8, 2 660 BULK TRUCKS, 1 550 PICKUP
Event	7	Pre-Rig Up Safety Meeting	12/2/2014	21:30:00	USER					ALL HES PERSONNEL PRESENT
Event	8	Rig-Up Equipment	12/2/2014	21:45:00	USER					1 HT 400 PUMP TRUCK E#8, 2 660 BULK TRUCKS, 1 550 PICKUP
Event	9	Rig-Up Completed	12/2/2014	22:45:00	USER	8.47	1.70	-1.00	47.2	
Event	10	Pre-Job Safety Meeting	12/2/2014	23:00:00	USER	8.55	1.70	-3.00	72.9	ALL HES PERSONNEL PRESENT AND RIG CREW
Event	11	Start Job	12/2/2014	23:14:27	COM8	8.37	0.00	0.00	0.0	TD 1675', TP 1659', SJ 44.08', OH 13 1/2", CSG 9 5/8" 32.3# H-40, WF/WT 9.8 PPG, YP 32, PV 26 @ 106
Event	12	Prime Pumps	12/2/2014	23:15:47	COM8	8.55	1.70	41.00	0.0	FRESH WATER
Event	13	Test Lines	12/2/2014	23:21:38	COM8	8.52	0.00	3785.00	2.1	PRESSURE HELD @ 3814 PSI FALLING 1 PSI EVERY 5 SECONDS
Event	14	Pump Spacer 1	12/2/2014	23:26:25	COM8	8.42	1.70	1.00	0.1	FRESH WATER
Event	15	Check Weight	12/2/2014	23:31:09	COM8	8.51	3.90	102.00	15.4	
Event	16	Pump Lead Cement	12/2/2014	23:32:38	COM8					230 SKS OF VARICEM CMT, 12.3 PPG, 2.45

Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
										YIELD, 14.17 GAL / SK
Event	17	Slow Rate	12/2/2014	23:41:12	USER	12.80	6.10	205.00	61.8	POOR BULK DELIVERY
Event	18	Pump Tail Cement	12/2/2014	23:49:23	COM8	12.78	6.00	159.00	1.5	160 SKS OF VARICEM CMT, 12.8 PPG, 2.18 YIELD, 12.11 GAL/SK
Event	19	Shutdown	12/2/2014	23:59:39	USER	1.23	0.00	51.00	68.6	WASHING UP ON TOP OF PLUG
Event	20	Drop Top Plug	12/3/2014	00:02:42	COM8	0.42	0.00	-3.00	68.6	
Event	21	Pump Displacement	12/3/2014	00:03:43	COM8	0.42	0.30	-2.00	0.0	FRESH WATER. HAD ISSUE WITH GETTING PRIME ON TRUCK
Event	22	Slow Rate	12/3/2014	00:18:46	USER	8.23	3.70	388.00	111.2	
Event	23	Bump Plug	12/3/2014	00:28:08	COM8	8.27	1.00	717.00	131.4	
Event	24	Check Floats	12/3/2014	00:30:47	USER	8.23	0.00	117.00	131.5	
Event	25	End Job	12/3/2014	00:32:00	COM8	8.19	0.00	-22.00	131.5	
Event	26	Post-Job Safety Meeting (Pre Rig-Down)	12/3/2014	00:45:00	USER	8.29	11.10	209.00	184.3	ALL HES PERSONNEL PRESENT
Event	27	Rig-Down Equipment	12/3/2014	01:00:00	USER					1 HT 400 PUMP TRUCK E#8, 2 660 BULK TRUCKS, 1 550 PICKUP
Event	28	Rig-Down Completed	12/3/2014	02:00:00	USER					NO INJURIES TO REPORT
Event	29	Pre-Convoy Safety Meeting	12/3/2014	02:30:00	USER					ALL HES PERSONNEL PRESENT
Event	30	Crew Leave Location	12/3/2014	03:00:00	USER					1 HT 400 PUMP TRUCK E#8, 2 660 BULK TRUCKS, 1 550 PICKUP. THANK YOU FOR USING HALLIBURTON CEMENT

WPX GM 332-12 9 5/8" SURFACE



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

- | | | | | | |
|---|-----------------------------|-------------------|--------------------|----------------------|---|
| ① Call Out | ⑥ Spot Equipment | ⑪ Start Job | ⑯ Pump Lead Cement | 21 Pump Displacement | 26 Post-Job Safety Meeting (Pre Rig-Down) |
| ② Pre-Convoy Safety Meeting | ⑦ Pre-Rig Up Safety Meeting | ⑫ Prime Lines | ⑰ Slow Rate | 22 Slow Rate | 27 Rig-Down Equipment |
| ③ Crew Leave Yard | ⑧ Rig-Up Equipment | ⑬ Test Lines | ⑱ Pump Tail Cement | 23 Bump Plug | 28 Rig-Down Completed |
| ④ Arrive At Loc | ⑨ Rig-Up Completed | ⑭ Pump H2O Spacer | ⑲ Shutdown/Wash Up | 24 Check Floats | 29 Pre-Convoy Safety Meeting |
| ⑤ Assessment Of Location Safety Meeting | ⑩ Pre-Job Safety Meeting | ⑮ Check weight | 20 Drop Top Plug | 25 End Job | 30 Crew Leave Location |

▼ **HALLIBURTON** | iCem® Service

Created: 2014-12-02 19:19:51, Version: 4.0.248

[Edit](#)

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date : 12/2/2014 10:29:07 PM

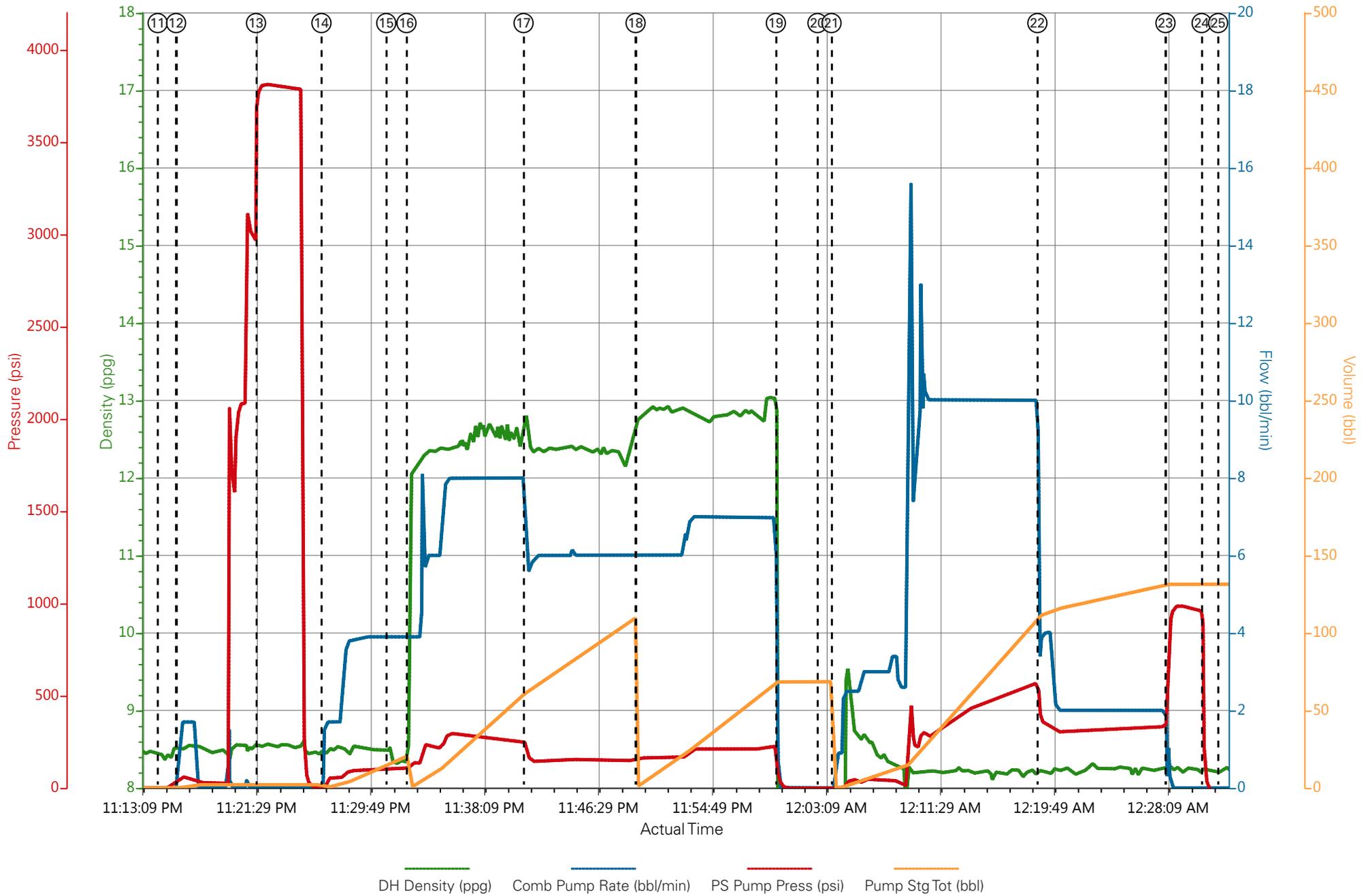
Well : GM 332-12

Representative : Harry Samson

Sales Order # : 901891191

Elite #8 : Dustin Hyde / Max Lobato

WPX GM 332-12 9 5/8" SURFACE



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

HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: Dustin Hyde

Attention: J.TROUT

Lease GM

Well # 332-12

Date: 12/2/2014

Date Rec.: 12/2/2014

S.O.# 901891191

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	8
Potassium (K)	<i>5000</i>	400 Mg / L
Calcium (Ca)	<i>500</i>	425 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	500 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Temp	<i>40-80</i>	58 Deg
Total Dissolved Solids		540 Mg / L

Respectfully: Dustin Hyde

Title: Cement 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

Sales Order #: 0901891191	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: HARRY SAMSON		API / UWI: (leave blank if unknown) 05-045-22467-00
Well Name: GM		Well Number: 0080641217
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.	HB43597
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	HARRY SAMSON
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	THE PUMP TRUCK NEEDS A PLATFORM FOR COMPANY MAN IT IS CRAMPED FOR OPERATOR TO WORK WITH SOMEONE IN HIS WAY

CUSTOMER SIGNATURE

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KEY PERFORMANCE INDICATORS

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

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Deviated
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	6
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Pumping Hours	2
Total number of hours pumping fluid on this job. Enter in decimal format.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	5
Number Of Jsas Performed	
Was this a Primary Cement Job (Yes / No)	Yes
Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Customer Non-Productive Rig Time (hrs)	0

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Well Name: GM		Well Number: 0080641217
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

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.	
Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment? Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?	No
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
If a top plug was run, was the plug bumped? (Yes/No/N/A) If a top plug was run, was the plug bumped? (Yes/No/N/A)	Yes
If applicable, was Halliburton float equipment used? (Yes/No/N/A) If applicable, was Halliburton float equipment used? (Yes/No/N/A)	Not Available
If applicable, did the floats hold? (Yes/No/N/A) If applicable, did the floats hold? (Yes/No/N/A)	Yes
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	97
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	96
If applicable, were there returns throughout the job? (Yes/No/N/A) If applicable, were there returns throughout the job? (Yes/No/N/A)	Yes
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