

WPX Energy Rocky Mountain LLC- EBUS

PA 433-27

Nabors 576

Post Job Summary

Cement Production Casing

Date Prepared: 10/29/2014
Job Date: 10/17/2014

Submitted by: Evan Russell – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 3353890		Quote #:		Sales Order #: 0901745497					
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Rick Oaks							
Well Name: FEDERAL		Well #: PA 433-27		API/UWI #: 05-045-22338-00							
Field: PARACHUTE		City (SAP): RIFLE		County/Parish: GARFIELD		State: COLORADO					
Legal Description: NE SE-27-6S-95W-1348FSL-851FEL											
Contractor:				Rig/Platform Name/Num: Nabors 576							
Job BOM: 7523											
Well Type: DIRECTIONAL GAS											
Sales Person: HALAMERICA\HX23209				Srvc Supervisor: Edward Deussen							
Job											
Formation Name											
Formation Depth (MD)		Top		Bottom							
Form Type				BHST							
Job depth MD		8555 ft		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	Bottom TVD ft	
Casing		9.625	9.001	32.3			0	2966			
Casing		4.5	4	11.6			0	8555			
Open Hole Section			8.75				2966	8565			
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						Bottom Plug					
Float Collar						SSR plug set					
Insert Float						Plug Container	4.5	1	HES		
Stage Tool						Centralizers					
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	Fresh Water	Fresh Water			10	bbl	8.34			2.0	

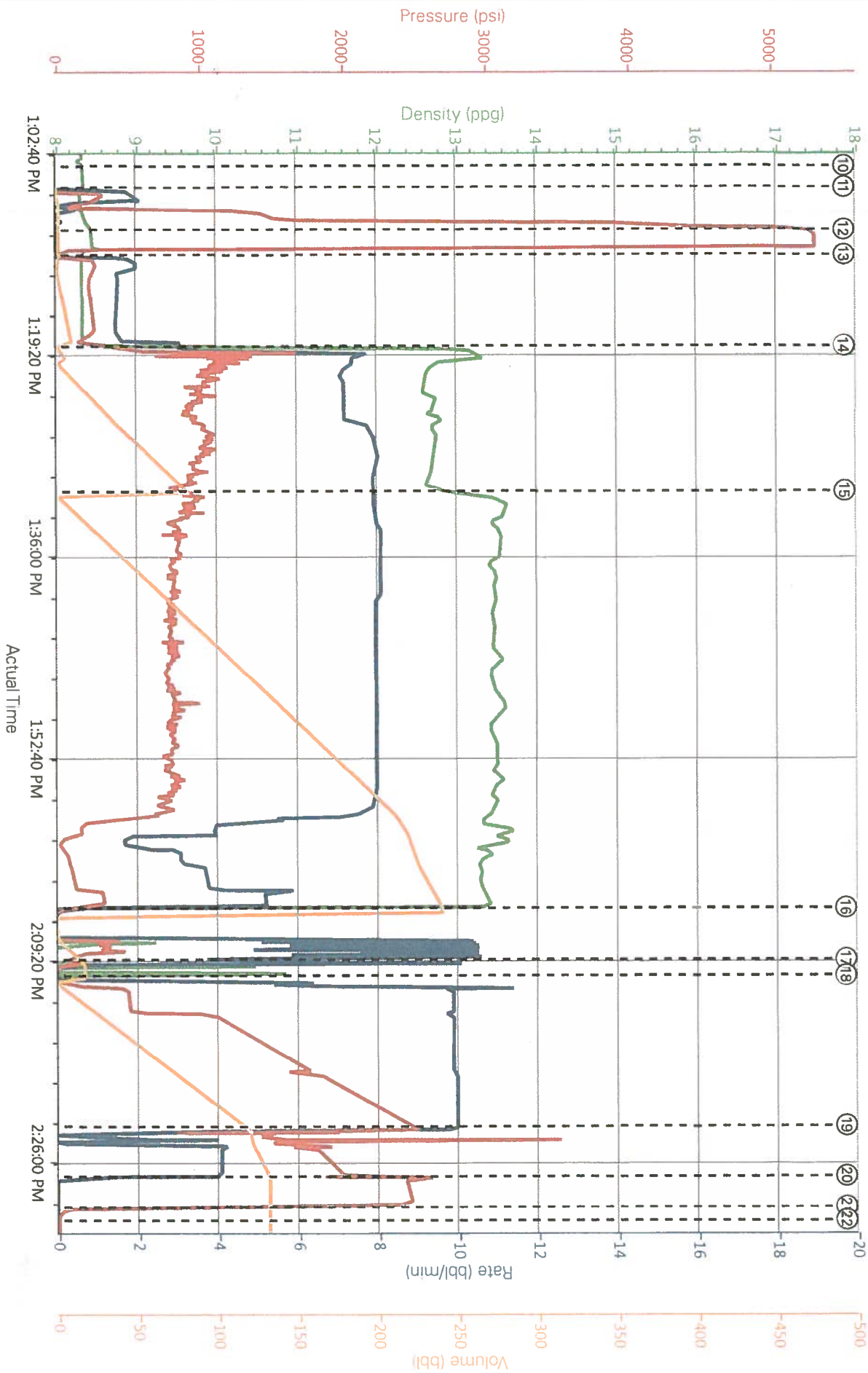
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	EconoCem GJ2	ECONOCHEM (TM) SYSTEM	310	sack	12.7	1.66		8.0	8.51
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	ThermaCem GJ2	THERMACHEM (TM) SYSTEM	725	sack	13.5	1.74		8.0	7.61
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	132.1	bbl	8.34			10.0	
Cement Left In Pipe		Amount	29.14ft		Reason		Shoe Joint		
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	10/16/2014	22:00:00	USER					O/L time 0400
Event	2	Pre-Convoy Safety Meeting	10/16/2014	23:45:00	USER					
Event	3	Crew Leave Yard	10/17/2014	00:00:00	USER					1 Elite, 1 660, 1 pickup
Event	4	Arrive At Loc	10/17/2014	02:00:00	USER					Rig still running casing
Event	5	Assessment Of Location Safety Meeting	10/17/2014	02:15:00	USER					JSA performed
Event	6	Pre-Rig Up Safety Meeting	10/17/2014	08:45:00	USER					
Event	7	Rig-Up Equipment	10/17/2014	09:00:00	USER					1 hard line to standpipe, manifold on ground, hard line to wash up tank, bulk hoses to 660 and silo, water hoses to upright and day tank
Event	8	Rig-Up Completed	10/17/2014	10:00:00	USER					
Event	9	Pre-Job Safety Meeting	10/17/2014	12:15:00	USER					Mud 11.3 ppg
Event	10	Start Job	10/17/2014	13:04:00	USER					TD 8565', TP 8555', SJ 29.14', 8 3/4" OH, 9 5/8" 32# surf csg @ 2966', 4 1/2" 11.6# csg
Event	11	Prime Pumps	10/17/2014	13:05:45	USER	8.33	2.0	360	2.0	Fresh Water
Event	12	Test Lines	10/17/2014	13:09:14	USER			5316		Pressure held well
Event	13	Pump Spacer 1	10/17/2014	13:11:19	COM5	8.33	2.0	280	10.0	Fresh Water - Pipe reciprocated throughout job
Event	14	Pump Lead Cement	10/17/2014	13:18:51	COM5	12.7	8.0	945	91.7	310 sks, 12.7 ppg, 1.66 yield, 8.51 gal/sk
Event	15	Pump Tail Cement	10/17/2014	13:30:52	COM5	13.5	8.0	813	224.7	725 sks, 13.5 ppg, 1.74 yield, 7.61 gal/sk
Event	16	Shutdown	10/17/2014	14:05:16	USER					Wash up to catch tank
Event	17	Drop Top Plug	10/17/2014	14:09:29	USER					
Event	18	Pump Displacement	10/17/2014	14:10:49	COM5	8.4	10.0	2531	132.1	2% KCl, 1 gal MMCR, 3 bags BE-6

Event	19	Slow Rate	10/17/2014	14:23:16	USER	8.4	4.0	1720	10.0	Good returns throughout job
Event	20	Bump Plug	10/17/2014	14:27:24	USER			2012		
Event	21	Check Floats	10/17/2014	14:29:55	USER			2460		Floats held – 1 ½ bbl flow back
Event	22	End Job	10/17/2014	14:31:00	USER					3 Add hours / no sugar
Event	23	Pre-Rig Down Safety Meeting	10/17/2014	14:45:00	USER					
Event	24	Rig-Down Equipment	10/17/2014	15:00:00	USER					
Event	25	Rig-Down Completed	10/17/2014	16:00:00	USER					
Event	26	Pre-Convoy Safety Meeting	10/17/2014	16:15:00	USER					
Event	27	Crew Leave Location	10/17/2014	16:30:00	USER					Thank you for using Halliburton

WPX - PA 433-27 - 4 1/2" PRODUCTION



DH Density (ppg) 7.93 Comb Pump Rate (bbl/min) 0 PS Pump Press (psi) 17 Pump Stg Tot (bbl) 142.3

HALLIBURTON | iCem® Service

Created: 2014-10-17 07:17:20, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS
Representative: Rick Oaks

Job Date: 10/17/2014 10:52:15 AM
Sales Order #: 901745497

Well: PA 433-27
Elite #: Ed Deussen / Brent Banks

HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: ED DEUSSEN

Attention: J.TROUT

Lease PA

Well # 433-27

Date: 10/17/2014

Date Rec.: 10/17/2014

S.O.# 901745497

Job Type: PRODUCTION

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6.0
Potassium (K)	<i>5000</i>	400 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>	<200 Mg / L
Temp	<i>40-80</i>	57 Deg
Total Dissolved Solids		170 Mg / L

Respectfully: ED DEUSSEN

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

Sales Order #: 0901745497	Line Item: 10	Survey Conducted Date: 10/17/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: RICK OAKS		API / UWI: (leave blank if unknown) 05-045-22338-00
Well Name: FEDERAL		Well Number: 0080455223
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	10/17/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB57194
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	RICK OAKS
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	10/17/2014

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.	6
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
Pumping Hours Total number of hours pumping fluid on this job. Enter in decimal format.	2
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	5
Was this a Primary Cement Job (Yes / No) Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Customer Non-Productive Rig Time (hrs)	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.	
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)	N/A
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	95
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
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