

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 331-27

Nabors 576

Post Job Summary

Cement Production Casing

Date Prepared: 12/28/2014

Job Date: 12/12/2014

Submitted by: Aaron Katz – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3207602	Quote #:	Sales Order #: 0901926360
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep:	
Well Name: FEDERAL	Well #: PA 331-27	API/UWI #: 05-045-22243-00	
Field: PARACHUTE	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 27-6S-95W-2360FNL-648FEL			
Contractor:		Rig/Platform Name/Num: Nabors 576	
Job BOM: 7523			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: Andrew Brennecke	

Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	8915ft Job Depth TVD
Water Depth	Wk Ht Above Floor 3
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	2933	0	0
Casing		4.5	4	11.6			0	8915		0
Open Hole Section			8.75				2933	8925	0	0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	4.5	1		8915	Top Plug	4.5	1	HES
Float Shoe					Bottom Plug			
Float Collar	4.5	1		8887	SSR plug set			
Insert Float					Plug Container	4.5	1	HES
Stage Tool					Centralizers	4.5		

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	10	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	EconoCem GJ2	ECONOCEM (TM) SYSTEM	415	sack	12.7	1.66		8	8.51
8.51 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	ThermaCem GJ2	THERMACEM (TM) SYSTEM	670	sack	13.5	1.74		8	7.61
7.61 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	137.7	bbl	8.34			10	
Cement Left In Pipe		Amount	28 ft		Reason			Shoe Joint	
Comment									

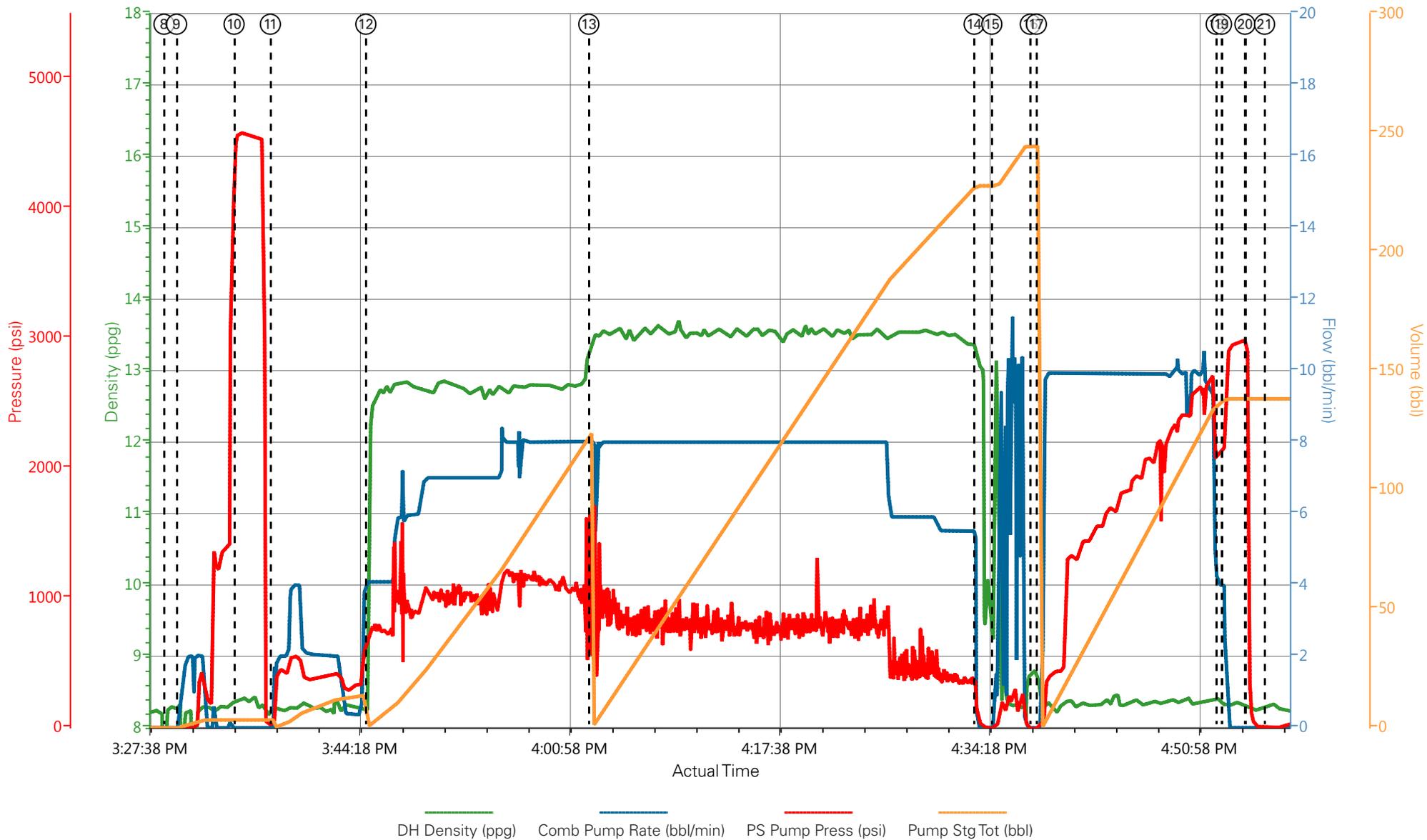
1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	12/12/2014	07:30:00	USER					
Event	2	Pre-Convoy Safety Meeting	12/12/2014	10:45:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	12/12/2014	11:00:00	USER					
Event	4	Arrive at Location from Service Center	12/12/2014	12:15:00	USER					RIG READY, BLEW TAIL CEMENT INTO SILO BEFORE BRINGING TRUCKS ONTO LOCATION
Event	5	Pre-Rig Up Safety Meeting	12/12/2014	13:30:00	USER					
Event	6	Rig-Up Completed	12/12/2014	14:45:54	USER					1-ELITE, 1-660 BULK TRAILER, 1-1700 SILO, 4.5" QUICK LATCH PLUG CONTAINER, 2" PUMPING IRON, 4" SUCTION HOSE
Event	7	Pre-Job Safety Meeting	12/12/2014	15:15:00	USER					ALL HES AND RIG CREW PRESENT
Event	8	Start Job	12/12/2014	15:29:00	USER	8.35	0.00	2.00	0.0	TD- 8925', TP-8915.22', SJ-28.28', CSG-4.5" I-80 11.6#, OH-8.75", MUD-11.7PPG, VISC 63, SCSG- 2933'
Event	9	Prime Pumps	12/12/2014	15:30:00	COM5	8.33	2.00	443.00	2.0	FRESH WATER
Event	10	Test Lines	12/12/2014	15:34:33	COM5	8.38	0.30	4565.00	2.2	PRESSURE HELD ON LINES
Event	11	Pump Spacer 1	12/12/2014	15:37:26	COM5	8.34	4.00	551.00	14.0	FRESH WATER
Event	12	Pump Lead Cement	12/12/2014	15:45:01	COM5	12.70	8.00	1183.00	122.7	415SKS, 12.7PPG, 1.66CF/SK, 8.51GAL/SK
Event	13	Pump Tail Cement	12/12/2014	16:02:43	COM5	13.51	8.00	803.00	207.6	670SKS, 13.5PPG, 1.74CF/SK, 7.61GAL/SK
Event	14	Shutdown	12/12/2014	16:33:19	COM5					
Event	15	Clean Lines	12/12/2014	16:34:43	USER					CLEANED LINES TO WASH UP TRUCK
Event	16	Drop Top Plug	12/12/2014	16:37:47	USER					PLUG DROP VERIFIED BY COMPANY REP
Event	17	Pump Displacement	12/12/2014	16:38:15	COM5	8.42	10.00	2713.00	128.0	1-GAL MMCR, 3- 1LB BE6, KCL WATER
Event	18	Slow Rate	12/12/2014	16:52:32	USER	8.36	4.00	2094.00	10.0	SLOW RATE LAST 10 BBLS
Event	19	Bump Plug	12/12/2014	16:52:58	COM5	8.32	4.00	2360.00	137.7	PLUG BUMPED
Event	20	Check Floats	12/12/2014	16:54:49	USER	8.32	0.00	2963.00	137.7	FLOATS HELD, 2 BBLS BACK TO DISPLACEMENT TANK
Event	21	End Job	12/12/2014	16:56:23	USER	8.33	0.00	1.00	137.7	GOOD RETURNS THROUGH OUT JOB, PIPE WAS RECIPROCATED

Event 22 Crew Leave Location 12/12/2014 17:52:58 USER

THANK YOU FOR CHOOSING HALLIBURTON, ANDREW
BRENNECKE AND CREW

WPX - PA 331-27 - 4.5" PRODUCTION



- ① Call Out n/a;n/a;n/a;n/a
- ② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a
- ③ Crew Leave Yard n/a;n/a;n/a;n/a
- ④ Arrive at Location from Service Center n/a;n/a;n/a;n/a
- ⑤ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a
- ⑥ Rig-Up Completed 8.26;2.2;65;4
- ⑦ Pre-Job Safety Meeting 8.23;0;8;0
- ⑧ Start Job 8.23;0;-2;0
- ⑨ Prime Pumps
- ⑩ Test Lines 8.39



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Created: 2014-12-12 14:40:06, Version: 3.0.148

[Edit](#)

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 12/12/2014 2:40:46 PM

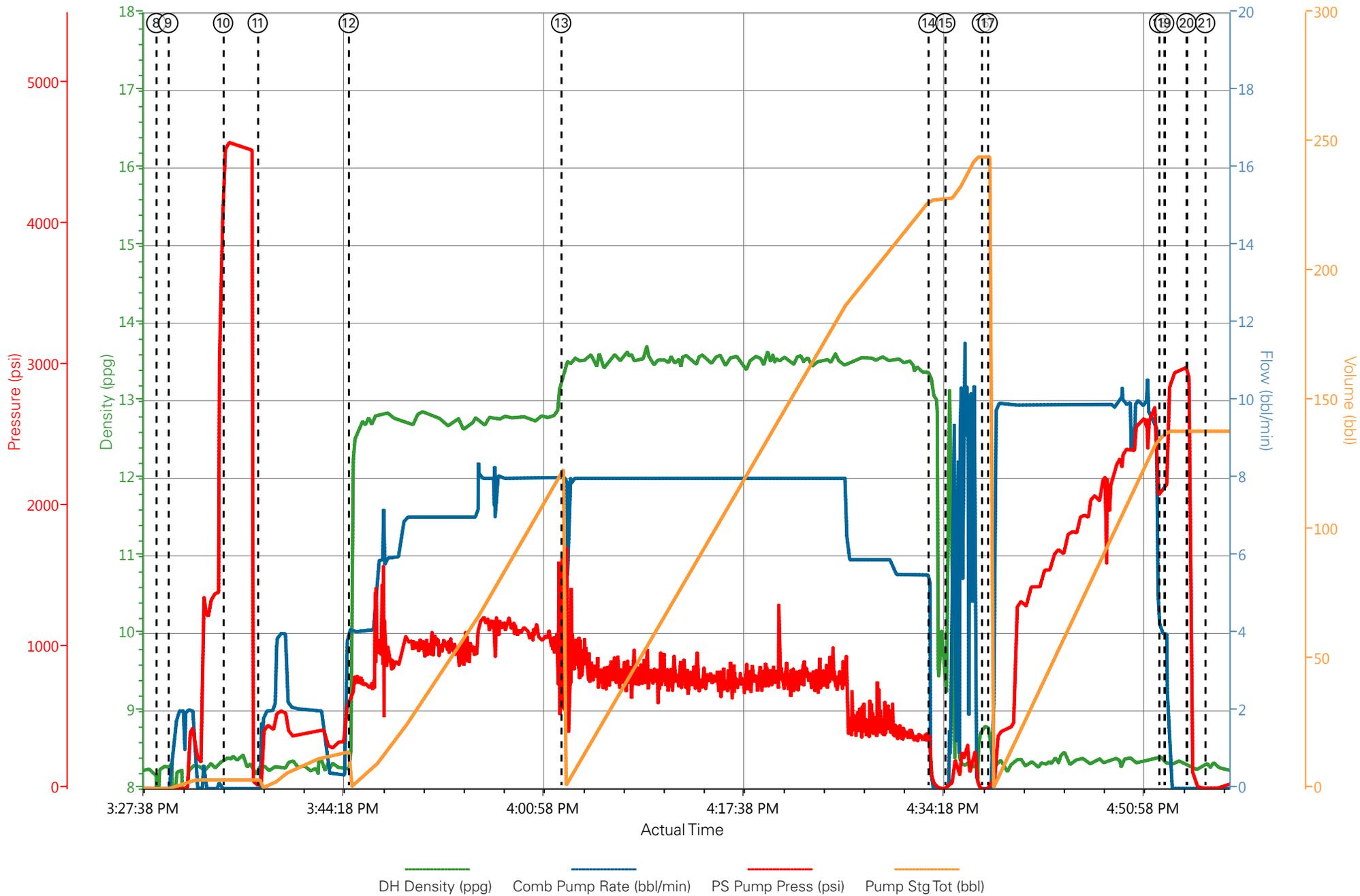
Well: PA 331-27

Representative: RICK OAKS

Sales Order #: 901926360

ELITE#2: A.BRENNECKE/S.WARDELL

WPX - PA 331-27 - 4.5" PRODUCTION



HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: A.BRENNECKE
Attention: E.RUSSEL
Lease: PA
Well #: 331-27

Date: 12/12/2014
Date Rec.: 12/12/2014
S.O.#: 901926360
Job Type: PRODUCTION

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	200 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>	>400 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	68 Deg
Total Dissolved Solids		710 Mg / L

Respectfully: A.BRENNECKE

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 #: 0901926360	Line Item: 10	Survey Conducted Date: 12/12/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22243-00
Well Name: FEDERAL		Well Number: 0080244863
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	12/12/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB58348
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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Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	12/12/2014
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)	5
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 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)	NA
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	8
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