

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 31-27

Nabors 576

Post Job Summary

Cement Production Casing

Date Prepared: 11/18/2014
Job Date: 12/03/2014

Submitted by: Aaron Katz – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3207558	Quote #:	Sales Order #: 0901837317
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Rick Oaks		
Well Name: FEDERAL	Well #: PA 31-27	API/UWI #: 05-045-22242-00	
Field: PARACHUTE	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 27-6S-95W-2375FNL-648FEL			
Contractor: NABORS DRLG	Rig/Platform Name/Num: NABORS 576		
Job BOM: 7523			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180	Srv Supervisor: Brandon Reeves		
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	8839ft		Job Depth TVD
Water Depth			Wk Ht Above Floor 4ft
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	2886		0
Casing		4.5	4	11.6	8 RD	P-110	0	8839		0
Open Hole Section			8.75				2886	8849	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	4.5			8839		Top Plug	4.5	1	HES
Float Shoe	4.5					Bottom Plug	4.5		HES
Float Collar	4.5					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 ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	10	bbl	8.34			4.0		
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	400	sack	12.7	1.66		8.0	8.51	

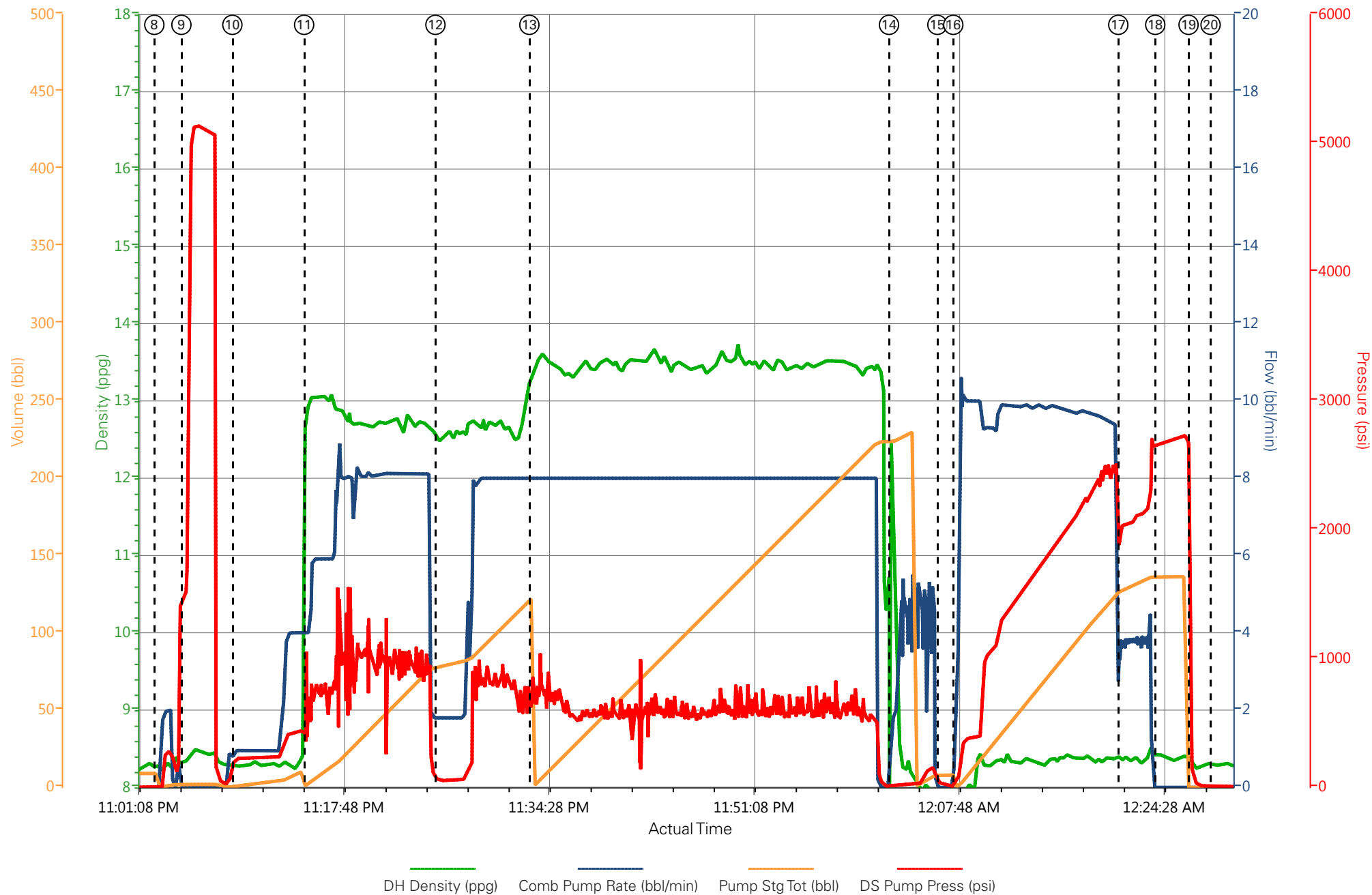
8.69 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	ThermaCem GJ2	THERMACEM (TM) SYSTEM	670	sack	13.5	1.74		8.0	7.61
7.72 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	136	bbl	8.34			10.0	
Cement Left In Pipe		Amount	28.84 ft		Reason		Shoe Joint		
Comment									

1.1 Job Event Log

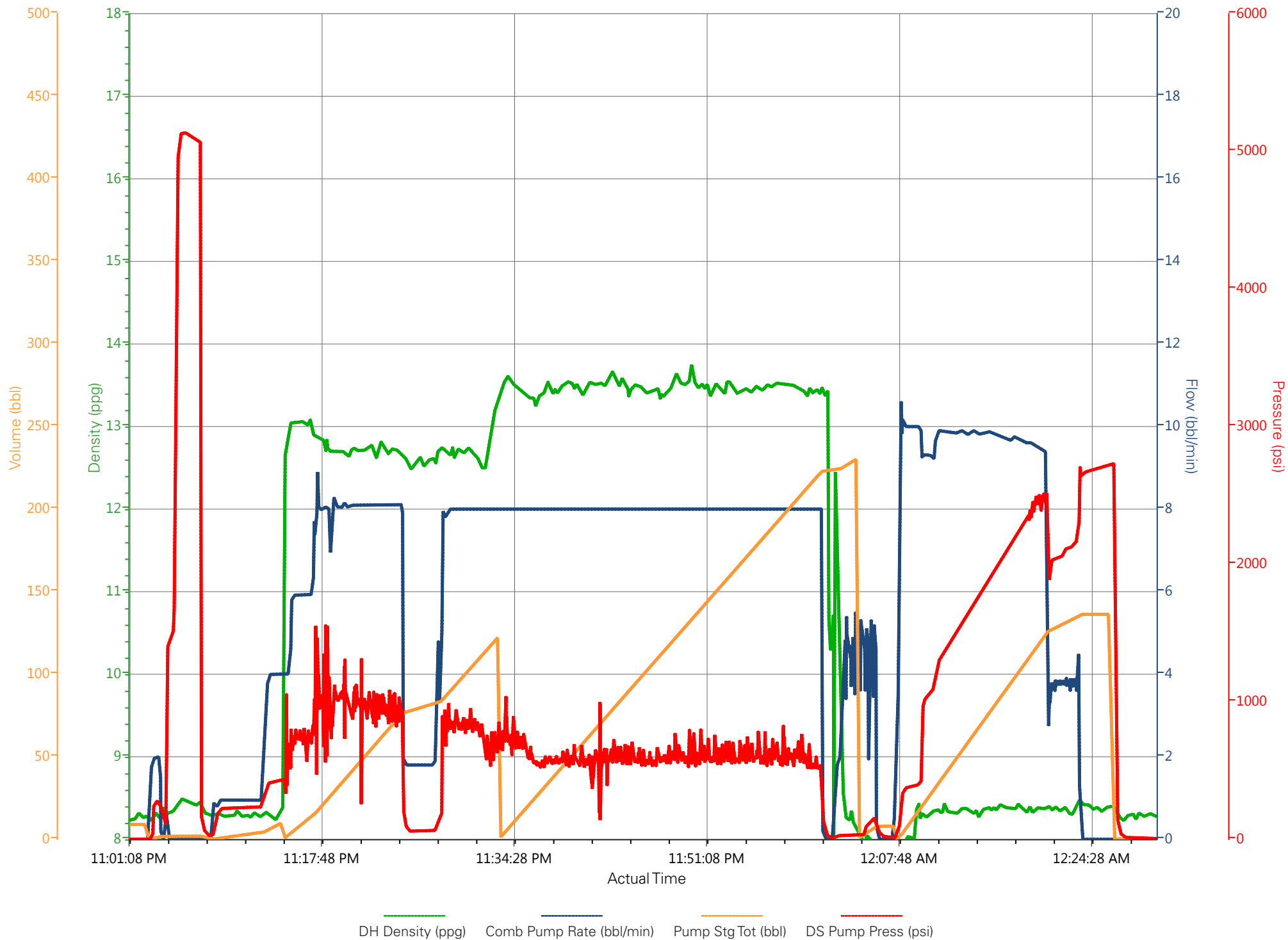
Type	Seq No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	DS Pump Press (psi)	Comment
Event	1	Call Out	11/17/2014	05:00:00	USER					
Event	2	Depart from Service Center or Other Site	11/17/2014	08:00:00	USER					
Event	3	Arrive at Location from Service Center	11/17/2014	09:30:12	USER					REQUESTED ON LOCATION TIME WAS 11:30 AM.
Event	4	Spot Equipment	11/17/2014	20:30:12	USER					
Event	5	Pre-Rig Up Safety Meeting	11/17/2014	20:45:32	USER					
Event	6	Rig-Up Equipment	11/17/2014	21:00:12	USER					
Event	7	Pre-Job Safety Meeting	11/17/2014	22:35:30	USER					
Event	8	Start Job	11/17/2014	23:02:38	COM5	8.26	0.00	0.0	0.00	TP-8838.98' SJ-28.84' MW-11.7 PPG. HOLE-8 3/4" CASING-4 1/2" 11.6 PPF.
Event	9	Test Lines	11/17/2014	23:04:50	COM5	8.33	0.00	1.8	5090.00	TESTED LINES TO 5090 PSI.
Event	10	Pump Water Spacer	11/17/2014	23:08:58	COM5	8.29	4.00	10.0	425.00	10 BBLS. FRESH WATER SPACER.
Event	11	Pump Lead Cement	11/17/2014	23:14:48	COM5	12.72	8.00	118.3	1030.00	400 SKS. @ 12.7 PPG. 1.66 YIELD 8.51 GAL/SK.
Event	12	Slow Rate	11/17/2014	23:25:28	COM5	12.77	1.80	77.9	56.00	SLOWED PUMP RATE DUE TO LOSING THE COMPRESSOR ON THE BULK TRUCK. SWAPPED THE AIR HOSES OVER THE COMPRESSOR ON THE PUMP TRUCK.
Event	13	Pump Tail Cement	11/17/2014	23:33:06	COM5	13.53	8.00	207.6	790.00	670 SKS. @ 13.5 PPG. 1.74 YIELD 7.61 GAL/SK.
Event	14	Clean Lines	11/18/2014	00:02:20	COM5	8.36	1.80	0.0	24.00	
Event	15	Drop Top Plug	11/18/2014	00:06:16	COM5	0.20	0.00	0.0	27.00	HES PROVIDED THE TOP PLUG.
Event	16	Pump Displacement	11/18/2014	00:07:33	COM5	8.39	10.0	0.0	2480.00	KCL WATER DISPLACEMENT.
Event	17	Slow Rate	11/18/2014	00:20:58	COM5	8.35	4.0	125.0	2040.00	SLOW RATE TO LAND THE PLUG.
Event	18	Bump Plug	11/18/2014	00:23:58	COM5	8.36	4.0	136.0	2180.00	PLUG LANDED AT 2180 PSI. PRESSURED UP TO 2686 PSI.

Event	19	Check Floats	11/18/2014	00:26:41	COM5	8.33	0.00	0.0	0.00	FLOATS HELD. 1 1/4 BBLS. OF FLOW BACK.
Event	20	End Job	11/18/2014	00:28:28	COM5					THE WELL WAS CIRCULATED FOR 4 HOURS BEFORE STARTING THE JOB. GOOD CIRCULATION THROUGHOUT THE JOB. THE PIPE WAS RECIPROCATED.

WPX ENERGY - FEDERAL PA 31-27 - 4 1/2" PRODUCTION



WPX ENERGY - FEDERAL PA 31-27 - 4 1/2" PRODUCTION



HALLIBURTON

Water Analysis Report

Company: WPX ENERGY

Submitted by: BRANDON REEVES

Attention: J. TROUT

Lease FEDERAL

Well # PA 31-27

Date: 11/17/2014

Date Rec.: 11/17/2014

S.O.# 901837317

Job Type: PRODUCTION

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7.1
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 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	46 Deg
Total Dissolved Solids		240 Mg / L

Respectfully: BRANDON REEVES

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 #: 0901837317	Line Item: 10	Survey Conducted Date: 11/18/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: RICK OAKS		API / UWI: (leave blank if unknown) 05-045-22242-00
Well Name: FEDERAL		Well Number: 0080244816
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	11/18/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HBT9414
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

Sales Order #: 0901837317	Line Item: 10	Survey Conducted Date: 11/18/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: RICK OAKS		API / UWI: (leave blank if unknown) 05-045-22242-00
Well Name: FEDERAL		Well Number: 0080244816
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	11/18/2014

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.	Deviated
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	4
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	6
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

Sales Order #: 0901837317	Line Item: 10	Survey Conducted Date: 11/18/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: RICK OAKS		API / UWI: (leave blank if unknown) 05-045-22242-00
Well Name: FEDERAL		Well Number: 0080244816
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)	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	90
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	90
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