

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RGU 522-24-198

CYLONE 29

Post Job Summary
Cement Production Casing

Date Prepared: 5/31/2014

Job Date: 05/18/2014

Submitted by: Tony Eschete - Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 0003276452	Quote #: 0021851639	Sales Order #: 0901325308
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Tom Bowen	
Well Name: FEDERAL	Well #: RGU 522-24-198	API/UWI #: 05-103-12080-00	
Field: SULPHUR CREEK	City (SAP): MEE	County/Parish: RIO BLANCO	State: COLORADO
Legal Description: 24-1S-98W-2155FSL-1713FEL			
Contractor:		Rig/Platform Name/Num:	
Job BOM: 7523			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: Edward Deussen	
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	12914ft 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	8.921	36		J-55	0	3945		0
Casing		4.5	4	11.6		P-110	0	12914		0
Open Hole Section			8.75				3945	10522	0	0
Open Hole Section			7.875				10522	12914		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make	
Guide Shoe				12914	Top Plug				
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	Conc	Treatment Fld	Conc	Inhibitor	Conc

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	100	bbl	8.3			6.0	

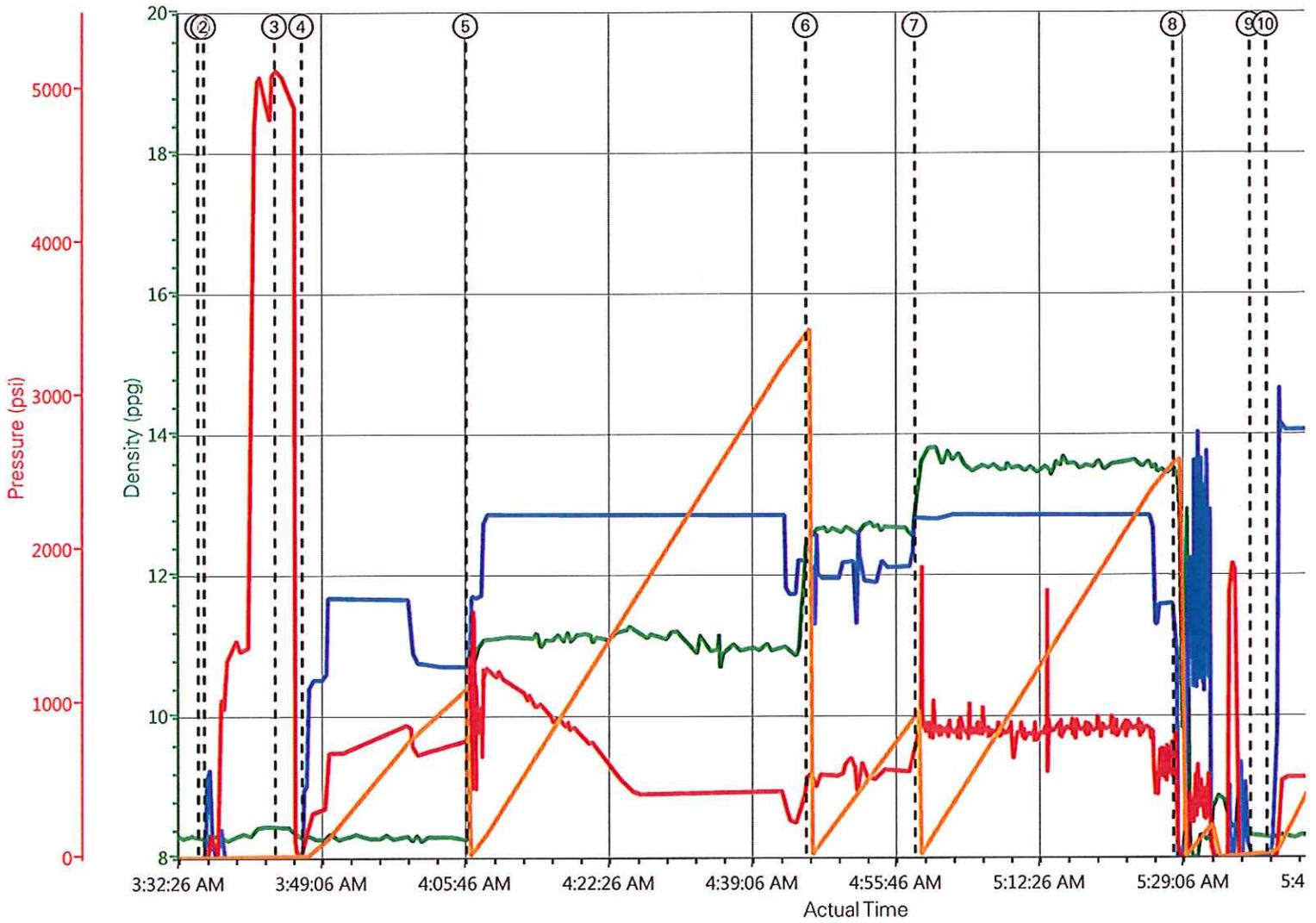
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal

2	Scavenger	EXTENDACEM (TM) SYSTEM	675	sack	11	2.75		8.0	16.11
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
3	EconoCem Lead	ECONOCEM (TM) SYSTEM	300	sack	12.7	1.91		8.0	10.13
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	ThermaCem Tail	THERMACEM (TM) SYSTEM	840	sack	13.5	1.75		8.0	8.24
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
6	KCL Displacement	KCL Displacement	199.7	bbl	8.5			10.0	
Cement Left In Pipe		Amount	30.30 ft		Reason		Shoe Joint		
Comment									

3.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbj/min)	PS Pump Press (psi)	Pump Stg Tot (bbj)	Comr
Event	1	Start Job	5/17/2014	03:35:11	COM5					O/L 03 OH to P-110
Event	2	Prime Lines	5/17/2014	03:35:51	USER	8.29	2.0	148	2.0	
Event	3	Test Lines	5/17/2014	03:44:07	COM5			5150		
Event	4	Pump H2O Spacer	5/17/2014	03:47:15	COM5	8.36	6.0	854	100.0	Pipe r
Event	5	Pump Scavenger Cement	5/17/2014	04:06:21	COM5	11.0	8.0	1240	330.6	675 sk
Event	6	Pump Lead Cement	5/17/2014	04:45:48	COM5	12.7	8.0	744	102.0	300 sk
Event	7	Pump Tail Cement	5/17/2014	04:58:28	COM5	13.5	8.0	840	261.8	840 sk return establ
Event	8	Shutdown/Wash Lines	5/17/2014	05:28:30	COM5					Wash
Event	9	Drop Top Plug	5/17/2014	05:37:20	COM5					Rig su
Event	10	Pump Displacement	5/17/2014	05:39:13	COM5	8.34	10.0	2415	199.7	2% Kcl
Event	11	Slow Rate	5/17/2014	05:57:56	COM5	8.40	4.0	1748	20.0	No ret
Event	12	Bump Plug	5/17/2014	06:04:22	COM5			2018		
Event	13	Check Floats	5/17/2014	06:06:49	COM5			2694		Floats
Event	14	End Job	5/17/2014	06:10:11	USER					No su

WPX - RGU 522-24-198 - 4 1/2" PRODUCTION



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

Start Job 8.28;0;-24;0	⑤ Pump Scavenger Cement 9.85;5.7;625;1.2	⑨ Drop Top Plug 8.31;0;-25;2.2	⑬ Check Floats 8.34;0;2724;20;
Time Lines 8.23;2.1;15;0.4	⑥ Pump Lead Cement 12.51;7;531;0.2	⑩ Pump Displacement 8.23;0;-24;2.2	⑭ End Job 8.23;0;-12;203
Fast Lines 8.43;0;5103;1.5	⑦ Pump Tail Cement 13.5;8;843;0.1	⑪ Slow Rate 8.4;8.3;2327;180.2	
Pump H2O Spacer 8.32;1.7;159;0.6	⑧ Shutdown/Wash Lines 13.38;0;94;235.2	⑫ Bump Plug 8.28;0;2633;203	

HALLIBURTON | iCem® Service

Creat

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 5/17/2014 3:03:59 AM

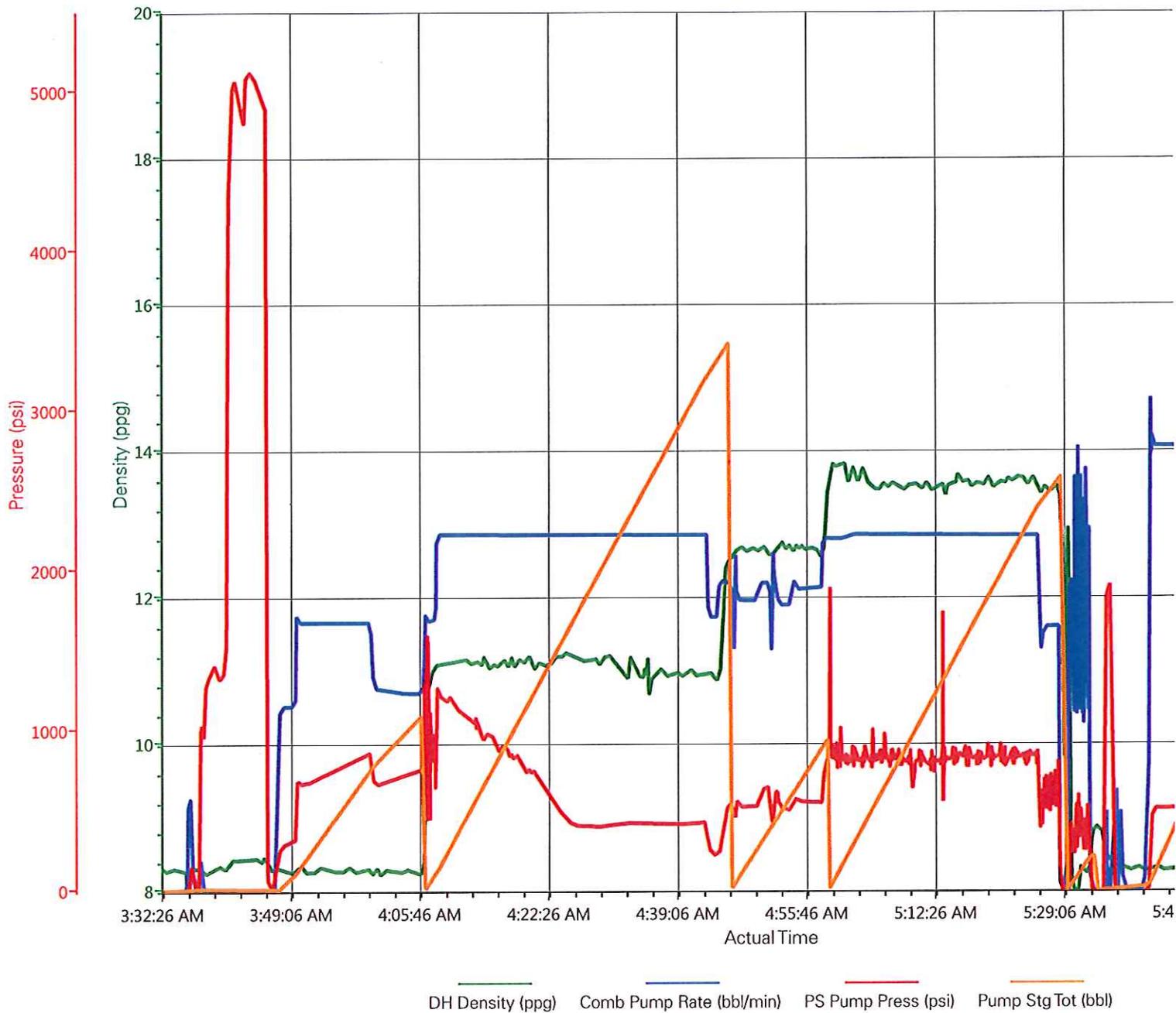
Well: RGU 522

representative: Tom Bowen

Sales Order #: 901325308

Elite #9: Ed De

WPX - RGU 522-24-198 - 4 1/2" PRODUCTION



ALLIBURTON | iCem® Service

Creat

customer: WPX ENERGY ROCKY MOUNTAIN LLC-
EBUS

Job Date: 5/17/2014 3:03:59 AM

Well: RGU 522

representative: Tom Bowen

Sales Order #: 901325308

Elite #9: Ed De

HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: ED DEUSSEN

Attention: J.TROUT

Lease FED RGU

Well # 522-24-198

Specific Gravity	<i>MAX</i>
pH	<i>8</i>
Potassium (K)	<i>5000</i>
Calcium (Ca)	<i>500</i>
Iron (FE2)	<i>300</i>
Chlorides (Cl)	<i>3000</i>
Sulfates (SO ₄)	<i>1500</i>
Temp	<i>40-80</i>
Total Dissolved Solids	

Sales Order #: 0901325308	Line Item: 10	Survey Conducted Date: 5/17/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: TOM BOWEN		API / UWI: (leave blank if unknown) 05-103-12080-00
Well Name: FEDERAL		Well Number: 0080359352
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: RIO BLANCO

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	5/17/2014
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	TOM BOWEN
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 #: 0901325308	Line Item: 10	Survey Conducted Date: 5/17/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: TOM BOWEN		API / UWI: (leave blank if unknown) 05-103-12080-00
Well Name: FEDERAL		Well Number: 0080359352
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: RIO BLANCO

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	5/17/2014

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.	7
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.	3
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	5
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

Sales Order #: 0901325308	Line Item: 10	Survey Conducted Date: 5/17/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: TOM BOWEN		API / UWI: (leave blank if unknown) 05-103-12080-00
Well Name: FEDERAL		Well Number: 0080359352
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: RIO BLANCO

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Did We Run Wiper Plugs?	Top
Did We Run Top And Bottom Casing Wiper Plugs?	
Mixing Density of Job Stayed in Designed Density Range (0-100%)	98
Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	
Was Automated Density Control Used?	Yes
Was Automated Density Control (ADC) Used ?	
Pump Rate (percent) of Job Stayed At Designed Pump Rate	98
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	
Nbr of Remedial Sqz Jobs Rqd - Competition	0
Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	
Nbr of Remedial Plug Jobs Rqd - HES	0
Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	
Nbr of Remedial Sqz Jobs Rqd - HES	0
Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	