

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RGU 43-24-198

Cyclone 29

Post Job Summary
Cement Surface Casing

Date Prepared: 7/10/2014
Job Date: 6/29/2014

Submitted by: Tony Eschete - Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3276465	Quote #:	Sales Order #: 0901376246
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: TED RAGSDALE	
Well Name: FEDERAL	Well #: RGU 43-24-198	API/UWI #: 05-103-12076-00	
Field: SULPHUR CREEK	City (SAP): MEEKER	County/Parish: RIO BLANCO	State: COLORADO
Legal Description: 24-1S-98W-2140FSL-1685FEL			
Contractor: CYCLONE		Rig/Platform Name/Num: CYCLONE 29	
Job BOM: 392189			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Jesse Slaughter	

Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	3916.45ft		Job Depth TVD
Water Depth			Wk Ht Above Floor 5ft
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	3912		0
Casing		9.625	9.001	32.3	8 RD	H-40	0	3916.45	0	0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		3916.45	Top Plug	9.625		HES
Float Shoe	9.625	1			Bottom Plug	9.625		HES
Float Collar	9.625				SSR plug set	9.625	1	HES
Insert Float	9.625				Plug Container	9.625	1	HES
Stage Tool	9.625	1		1784.83	Centralizers	9.625		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 ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	20	barrel	8.34			4		

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	VersaCem (TM) System	VERSACEM (TM) SYSTEM	430	sack	12.8	1.77		8	9.33

9.33 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	VersaCem (TM) System	VARICEM (TM) CEMENT	370	sack	12.8	1.96		8	10.95
10.91 Gal		FRESH WATER							
94 lbm		TYPE I / II CEMENT, BULK (101439798)							
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	Displacement	Displacement	300.1	bbl	8.34			10	
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
5	Fresh Water Spacer	Fresh Water Spacer	25	bbl	8.34			4	
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
6	VersaCem (TM) System	VERSACEM (TM) SYSTEM	1060	sack	12.8	1.96		8	10.95
10.91 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
7	Fresh Water Displacement	Fresh Water Displacement	138.0	bbl	8.34			10	
Cement Left In Pipe	Amount	26.42 ft		Reason	Shoe Joint				
Comment									

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WPX ENERGY ROCKY MOUNTAIN LLC-EBUS
0901376246
Case 1

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	6/29/2014	01:00:00	USER					
Event	2	Pre-Convoy Safety Meeting	6/29/2014	03:50:00	USER					WITH ALL HES PERSONNEL
Event	3	Crew Leave Yard	6/29/2014	04:00:00	USER					
Event	4	Arrive At Loc	6/29/2014	07:00:00	USER					RIG WAS PULLING DRILL PIPE UPON HES ARRIVAL
Event	5	Assessment Of Location Safety Meeting	6/29/2014	07:30:00	USER					WITH ALL HES PERSONNEL
Event	6	Other	6/29/2014	07:40:00	USER					
Event	7	Pre-Rig Up Safety Meeting	6/29/2014	07:50:00	USER					WITH ALL HES PERSONNEL
Event	8	Rig-Up Equipment	6/29/2014	08:00:00	USER					WEATHERFORD MSC TOOL AND PLUG-SET, NO WEATHERFORD PERSONNEL ON LOCATION, HES RAN PLUG-SET
Event	9	Pre-Job Safety Meeting	6/29/2014	13:50:00	USER					WITH ALL PERSONNEL
Event	10	Start Job	6/29/2014	14:06:30	COM7					TD 3912 FT, TP 3916.45 FT, SHOE 26.42 FT, MSC TOOL 1784.83 FT, CSG 440 FT OF 40 LB/FT, 3476.45 FT OF 36 LB/FT, HOLE 1750 FT OF 14 3/4 IN, 2126 FT OF 13 1/2 IN, MUD WT 9.1 PPG
Event	11	Prime Pumps	6/29/2014	14:07:13	USER	8.33	2.0	92.0	2.0	FRESH WATER
Event	12	Test Lines	6/29/2014	14:09:12	COM7					TESTED LINES TO 3357 PSI PRESSURE HOLDING
Event	13	Pump Spacer 1	6/29/2014	14:15:47	COM7	8.35	4.0	85.0	20.0	FRESH WATER
Event	14	Pump Lead Cement	6/29/2014	14:24:34	COM7	12.8	8.0	301.0	135.6	430 SKS 12.8 PPG, 1.77 FT3/SK, 9.33 GAL/SK. WITH 60 LB TUFF FIBER IN FIRST 100 BBL.
Event	15	Pump Tail Cement	6/29/2014	14:43:04	COM7	12.8	8.0	225.0	129.2	370 SKS AT 12.8 PPG, 1.96 FT3/SK, 10.45 GAL/SK
Event	16	Shutdown	6/29/2014	15:00:31	USER					
Event	17	Drop Top Plug	6/29/2014	15:04:10	COM7					DART LAUNCHED
Event	18	Pump Displacement	6/29/2014	15:06:31	COM7	8.33	10.0	923.0	300.1	FRESH WATER. LOST CIRCULATION AT 260 BBL AWAY
Event	19	Other	6/29/2014	15:21:47	COM7	8.32	2.0	398.0	128.1	SLOWED RATE 10 BBL PRIOR TO CALCULATED MSC TOOL

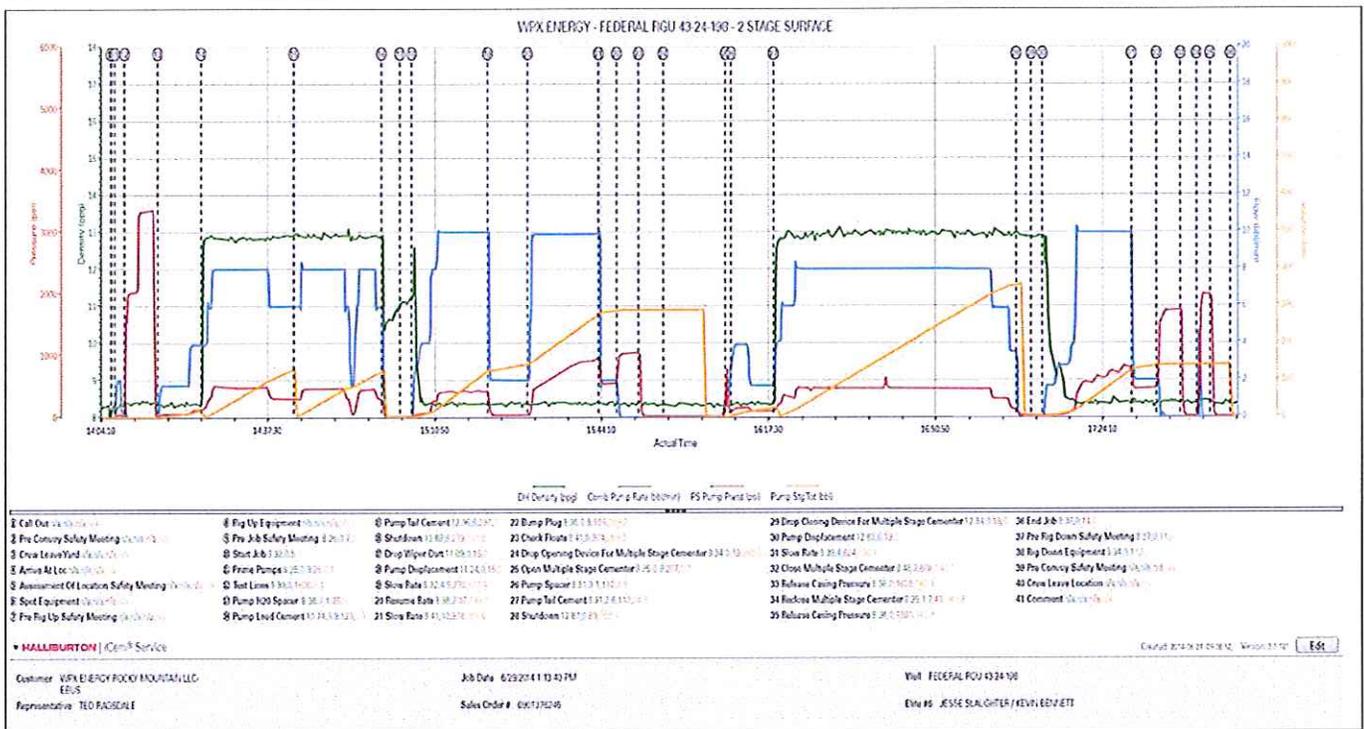
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WPX ENERGY ROCKY MOUNTAIN LLC-EBUS
0901376246
Case 1

Event	20	Other	6/29/2014	15:29:46	COM7	8.36	10.0	37.0	150.0	
Event	21	Slow Rate	6/29/2014	15:43:56	USER	8.33	2.0	550.0	290.1	SLOWED RATE 10 BBL PRIOR TO CALCULATED DISPLACEMENT
Event	22	Bump Plug	6/29/2014	15:47:32	USER				1040.0	
Event	23	Check Floats	6/29/2014	15:51:57	USER					FLOATS HOLDING. HES RETURNED 1 BBL H2O
Event	24	Drop Opening Device For Multiple Stage Cementer	6/29/2014	15:56:52	USER					WAIT 12 MIN. AS PER COMPANY REP
Event	25	Open Multiple Stage Cementer	6/29/2014	16:09:16	COM7	8.35	0.90	720.0	1.0	
Event	26	Pump Spacer	6/29/2014	16:10:21	USER	8.31	4.0	110.00	25.0	FRESH WATER. START 2ND STAGE
Event	27	Pump Tail Cement	6/29/2014	16:18:49	USER	12.8	8.0	359.0	370.0	1060 SKS AT 12.8 PPG, 1.96 FT3/SK, 10.45 GAL/SK. WITH 45 LB TUFF FIBER IN LAST 100 BBL.
Event	28	Shutdown	6/29/2014	17:07:13	USER					
Event	29	Drop Top Plug	6/29/2014	17:10:14	COM7					PLUG LAUNCHED
Event	30	Pump Displacement	6/29/2014	17:12:26	COM7	8.33	10.0	830.0	138.0	FRESH WATER
Event	31	Slow Rate	6/29/2014	17:30:15	USER	8.39	2.0	475.0	128.0	SLOW RATE 10 BBL PRIOR TO MSC TOOL
Event	32	Close Multiple Stage Cementer	6/29/2014	17:35:15	USER				1736.0	
Event	33	Release Casing Pressure	6/29/2014	17:40:01	USER					HES RETURNED 1 BBL H2O TO PUMP
Event	34	Close Multiple Stage Cementer	6/29/2014	17:43:16	USER	8.39	4.0	2000.0	1.0	AS PER COMPANY REP
Event	35	Release Casing Pressure	6/29/2014	17:45:55	USER					MSC TOOL CLOSED HES RETURNED 1 BBL H2O TO PUMP.
Event	36	End Job	6/29/2014	17:49:58	COM7					PIPE WAS STATIC DURING JOB, GOOD CIRCULATION THROUGHOUT JOB. HES RETURNED 110 BBL CEMENT TO SURFACE. USED 40 LB SUGAR
Event	37	Pre-Rig Down Safety Meeting	6/29/2014	17:55:00	USER					WITH ALL HES PERSONNEL
Event	38	Rig-Down Equipment	6/29/2014	18:00:00	USER					
Event	39	Pre-Convoy Safety Meeting	6/29/2014	18:50:00	USER					WITH ALL HES PERSONNEL
Event	40	Crew Leave Location	6/29/2014	19:00:10	USER					

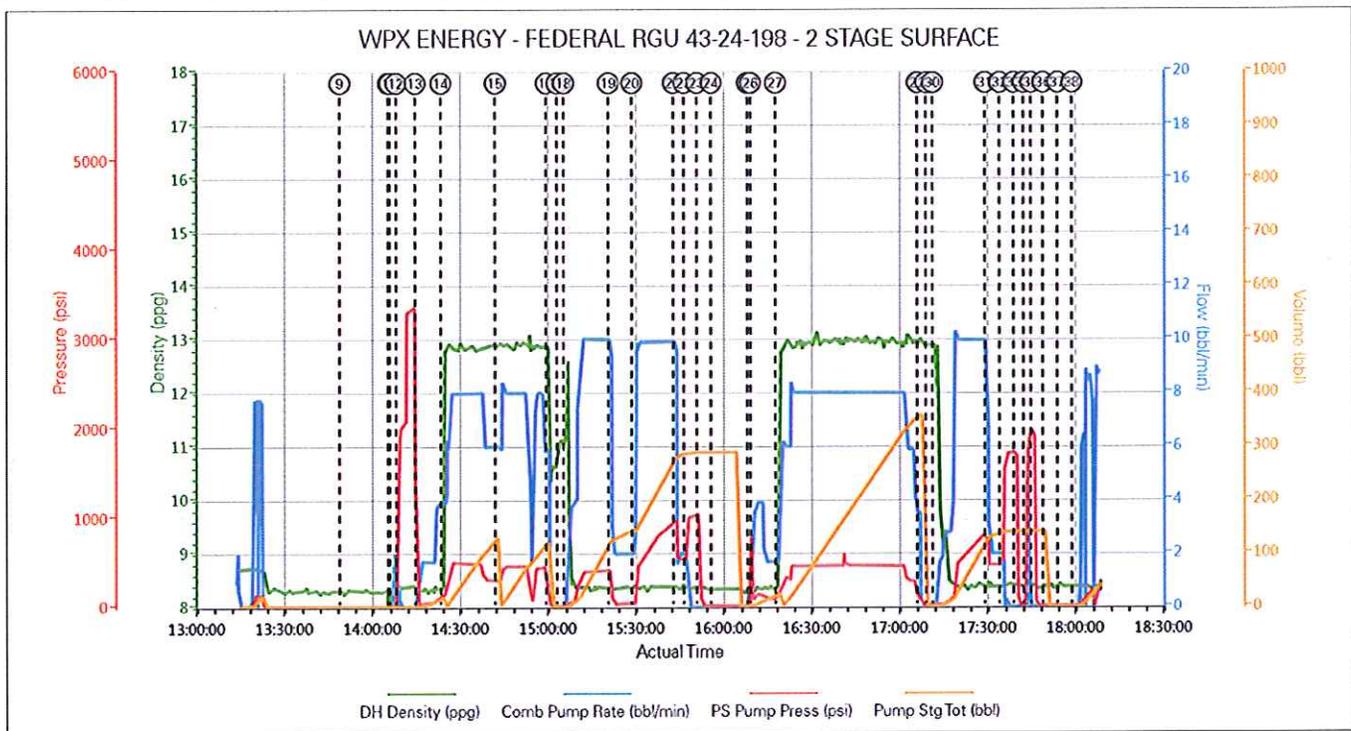
4.0 Attachments

4.1 CHART.png



5.0 Custom Graphs

5.1 Custom Graph



HALLIBURTON

Water Analysis Report

Company: WILLIAMS PRODUCTION

Date: 6/29/2014

Submitted by: JESSE SLAUGHTER

Date Rec.: _____

Attention: LAB

S.O.# 901376246

Lease FEDERAL RGU

Job Type: SURFACE

Well # 43-24-198

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	250 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>	60 Deg
Total Dissolved Solids		200 Mg / L

Respectfully: JESSE SLAUGHTER

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 #: 0901376246	Line Item: 10	Survey Conducted Date: 6/29/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT MULTIPLE STAGES BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-103-12076-00
Well Name: FEDERAL		Well Number: 0080359365
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	6/29/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB21762
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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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	6/29/2014

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
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format.	4
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	6
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

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Customer Representative:		API / UWI: (leave blank if unknown) 05-103-12076-00
Well Name: FEDERAL		Well Number: 0080359365
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	