

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RGU 421-32-298

Cyclone 29

Post Job Summary
Cement Production Casing

Date Prepared: 11/16/2014 Job
Date: 11/12/2014

Submitted by: Aaron Katz – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 3192974		Quote #: 0021933278		Sales Order #: 0901818121				
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: TOM BROWN						
Well Name: FEDERAL		Well #: RG 421-32-298		API/UWI #: 05-103-11993-00						
Field: SULPHUR CREEK		City (SAP): RIO BLANCO		County/Parish: RIO BLANCO		State: COLORADO				
Legal Description: 29-2S-98W-1070FSL-1391FWL										
Contractor: CYCLONE				Rig/Platform Name/Num: CYCLONE 29						
Job BOM: 7523										
Well Type: DIRECTIONAL GAS										
Sales Person: HALAMERICA\HB50180				Srv Supervisor: Eric Carter						
Job										
Formation Name										
Formation Depth (MD)		Top 3280 FT.		Bottom		10070 FT.				
Form Type				BHST						
Job depth MD		10060ft		Job Depth TVD						
Water Depth				Wk Ht Above Floor		5 FT.				
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			0	3280		0
Casing		4.5	4	11.6			0	10060		0
Open Hole Section			8.75				3280	8055	0	0
Open Hole Section			7.875				8055	10070	0	0
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe						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	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	100	bbl	8.34			8		
Fluid Data										
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	ExtendaCem GJ1	EXTENDACEM (TM) SYSTEM	420	sack	11	2.75	16.07	8	
16.07 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	EconoCem GJ1	ECONOCEM (TM) SYSTEM	180	sack	12.7	1.91	10.07	6.5	
10.25 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	ThermaCem GJ1	THERMACEM (TM) SYSTEM	840	sack	13.5	1.75	8.23	5.5	
8.32 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
5	Displacement	Displacement	156	bbl	8.34			10	
Cement Left In Pipe		Amount	26 ft		Reason		Shoe Joint		
Comment									

3.5 Job Event Log

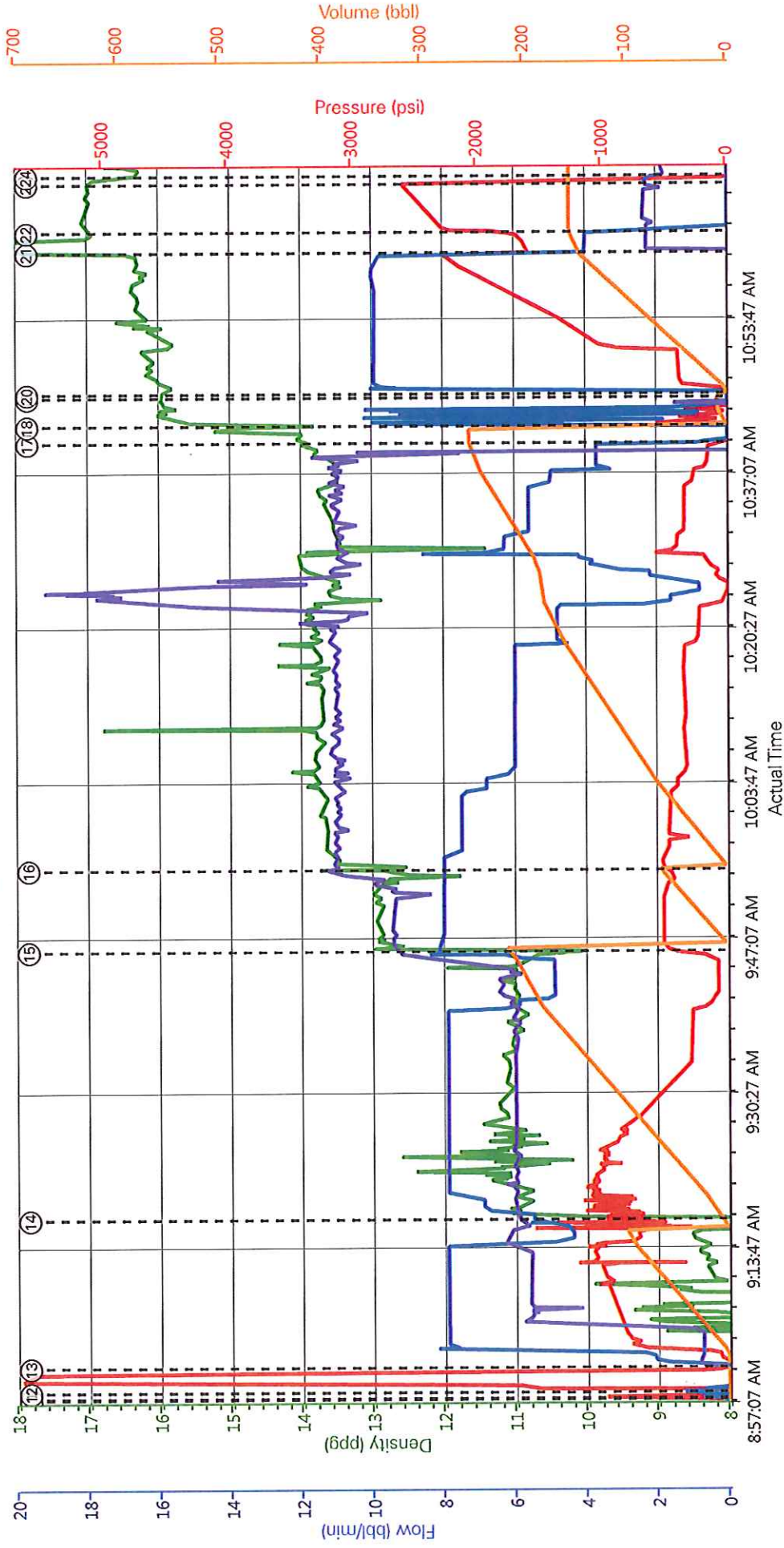
Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	PS Pump Press (psi)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Recirc Density (ppg)	Comment
Event	1	Call Out	11/11/2014	20:00:00	USER						
Event	2	Depart Yard Safety Meeting	11/11/2014	22:50:00	USER						ATTENDED BY ALL HES CREW
Event	3	Crew Leave Yard	11/11/2014	23:00:00	USER						
Event	4	Arrive At Loc	11/12/2014	02:00:00	USER						RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	11/12/2014	02:10:00	USER						ATTENDED BY ALL HES CREW
Event	6	Other	11/12/2014	02:20:00	USER						SPOT EQUIPMENT
Event	7	Pre-Rig Up Safety Meeting	11/12/2014	06:50	USER						ATTENDED BY ALL HES CREW
Event	8	Rig-Up Equipment	11/12/2014	07:00	USER						
Event	9	Pre-Job Safety Meeting	11/12/2014	08:10:00	USER						ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Event	10	Start Job	11/12/2014	08:57:50	USER						TP 10059.75', TD 10055', MW 9.9 PPG, CASING 4.5", 11.6#, P-110, SI 25.02', HOLE 8.75"-8055', 7.875"-10070', SURFACE CASING 9.625", 36# SET AT 3280', RIG CIRCULATED FOR 4 HR'S PRIOR TO JOB
Event	11	Fill Lines	11/12/2014	08:57:55	USER	8.34	50	1.5	1		FRESH WATER
Event	12	Test Lines	11/12/2014	08:58:34	USER						PRESSURED UP TO 5700 PSI, PRESSURE HELD
Event	13	Pump Spacer	11/12/2014	09:01:14	USER	8.34	1080	8	100		FRESH WATER
Event	14	Pump Lead Cement	11/12/2014	09:17:11	USER	11	1125	8	205.7		420 SKS EXTENDACEM MIXED AT 11 PPG, 2.75 YIELD, 16.07 GL/SK
Event	15	Pump Lead Cement	11/12/2014	09:46:03	USER	12.7	525	6.5	61.2		180 SKS ECONOCEM MIXED AT 12.7 PPG, 1.91 YIELD, 10.07 GL/SK
Event	16	Pump Tail Cement	11/12/2014	09:54:49	USER	13.5	420	5.5	261.8		840 SKS THERMACEM MIXED AT 13.5 PPG, 1.75

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		YIELD, 8.23 GL/SK				
Comment		11/12/2014				
Event 17	Shutdown	11/12/2014	10:40:43	USER	DOWNHOLE DENSOMETER WAS SPERATIC DURING JOB, CEMENT DENSITY VERIFIED WITH SCALES PRIOR TO AND DURING PUMPING CEMENT.	
Event 18	Clean Lines	11/12/2014	10:42:35	USER	CLEANED PUMPS AND LINES TO CATCH TANK	
Event 19	Drop Top Plug	11/12/2014	10:45:35	USER	REP SUPPLIED LATCH DOWN PLUG, PLUG LAUNCHED	
Event 20	Pump Displacement	11/12/2014	10:45:01	USER	8.34	146
Event 21	Slow Rate	11/12/2014	11:01:16	USER	2280	10
Event 22	Bump Plug	11/12/2014	11:03:29	USER	1720	4
Event 23	Check Floats	11/12/2014	11:08:41	USER	2600	10
Event 24	End Job	11/12/2014	11:09:34	USER	PLUG LANDED	
Post-Job Safety Meeting (Pre Rig-Down)		11/12/2014	11:10	USER	FLOATS HELD	
Event 25	Rig-Down Equipment	11/12/2014	11:20	USER	CIRCULATION THROUGHOUT JOB, PIPE RECIPROCATED DURING JOB, 0 BBLS CEMENT TO SURFACE	
Event 26	Depart Location Safety Meeting	11/12/2014	12:50	USER	ATTENDED BY ALL HES CREW	
Event 27	Crew Leave Location	11/12/2014	13:00	USER	THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.	

WPX - RG 421-32-298 - PRODUCTION



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

- ① Call Out n/a;n/a;n/a;n/a;n/a
- ② Depart Yard Safety Meeting n/a;n/a;n/a;n/a;n/a
- ③ Crew Leave Yard n/a;n/a;n/a;n/a;n/a
- ④ Arrive At Loc n/a;n/a;n/a;n/a;n/a
- ⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a;n/a
- ⑥ Other n/a;n/a;n/a;n/a;n/a
- ⑦ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a;n/a
- ⑧ Rig-Up Equipment n/a;n/a;n/a;n/a;n/a
- ⑨ Pre-Job Safety Meeting -28.66;0;0;3.3;-0.01
- ⑩ Start Job 7.01;21;0;0;5;0.06
- ⑪ Fill Lines 7.01;4;0;8;0;5;0.07
- ⑫ Test Lines 6.86;1231;0.4;1;0.06
- ⑬ Pump Spacer 7.1;-36;0.5;0;8.42
- ⑭ Pump Lead Cement 9.96;891;5.5;8;10.96
- ⑮ Pump Lead Cement 12.75;501;8.1;218;12.71
- ⑯ Pump Tail Cement 12.55;513;8;2.1;13.56
- ⑰ Shutdown 14.1;-40;0;254;1;0.06
- ⑱ Clean Lines 15.57;356;10;2;0.07
- ⑲ Drop Top Plug 15.93;-61;0;0;2.35
- ⑳ Pump Displacement 15.96;-19;3;1;0;3;2.33

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Edit

Created: 2014-11-12 02:51:45, Version: 3.0.121

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 11/12/2014 7:54:05 AM

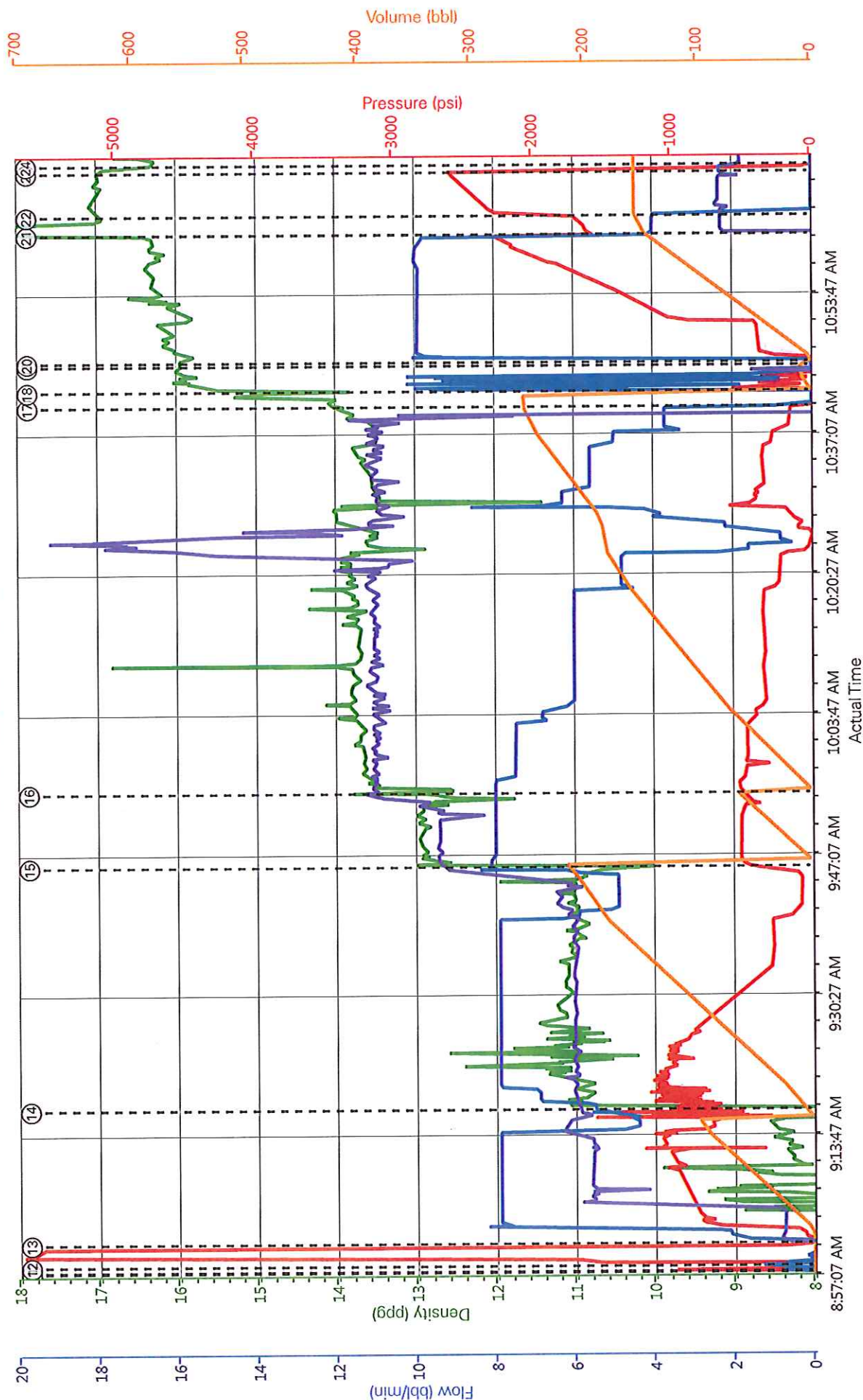
Well: RG 421-32-298

Representative: TOM BROWN

Sales Order #: 901818121

ERIC CARTER: KEVIN BENNETTE/ELITE 6

WPX - RG 421-32-298 - PRODUCTION



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Water Analysis Report

Company: WPX
Submitted by: ERIC CARTER
Attention: J.Trout
Lease: CYCLONE 29
Well #: RG 421-32-298

Date: 11/16/2014
Date Rec.: 11/16/2014
S.O.#: 901818121
Job Type: PRODUCTION

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>200 Mg / L</i>
Hardness	<i>500</i>	<i>250 Mg / L</i>
Iron (FE2)	<i>300</i>	<i>0 Mg / L</i>
Chlorides (Cl)	<i>3000</i>	<i>0 Mg / L</i>
Sulfates (SO ₄)	<i>1500</i>	<i><200 Mg / L</i>
Temp	<i>40-80</i>	<i>54 Deg</i>
Total Dissolved Solids		<i>450 Mg / L</i>

Respectfully: ERIC CARTER

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 it

Sales Order #: 0901818121	Line Item: 10	Survey Conducted Date: 11/12/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: TOM BOWEN		API / UWI: (leave blank if unknown) 05-103-11993-00
Well Name: FEDERAL		Well Number: 0080235508
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	11/12/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX15491
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

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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	11/12/2014

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.	5
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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Well Name: FEDERAL		Well Number: 0080235508
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: RIO BLANCO

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?	None
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, 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	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)	Y
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