

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 544-3

Aztec/1000

Post Job Summary
Cement Surface Casing

Date Prepared: 05/01/2014
Job Date: 04/30/2014

Submitted by: Kory Hugentobler – Cement Engineer

The Road to Excellence Starts with Safety

The Road to Excellence Starts With Safety			
Sold To #: 300721	Ship To #: 3191531	Quote #: 0021847170	Sales Order #: 0901299488
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep:	
Well Name: WPX ENERGY		Well #: PA 544-3	API/UWI #: 05-045-22135-00
Field: PARACHUTE	City (SAP): PAR	County/Parish: GARFIELD	State: COLORADO
Legal Description: NE SW-2-7S-95W-2023FSL-1551FWL			
Contractor:		Rig/Platform Name/Num: Aztec 1000	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srv Supervisor: Thomas Ponder	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	1290ft		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	9.001	32.3			0	1290		0
Open Hole Section			13.5				0	1290		0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1	WTF	1290	Top Plug	9.625	1	HES
Float Shoe	9.625				Bottom Plug	9.625		HES
Float Collar	9.625	1	WTF	1246.2	SSR plug set	9.625		HES
Insert Float	9.625				Plug Container	9.625	1	HES
Stage Tool	9.625				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 Spacer	Fresh Water Spacer	20	bbl	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	VariCem GJ1	VARICEM (TM) CEMENT	170	sack	12.3	2.38		8	13.77

HALLIBURTON***Cementing Job Summary***

13.72 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
3	VariCem GJ1	VARICEM (TM) CEMENT	160	sack	12.8	2.11		8	11.77
11.76 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/min	Total Mix Fluid Gal
4	Displacement	Displacement	98.1	bbl	8.3			10	
Cement Left In Pipe		Amount	44 ft	Reason		Shoe Joint			
Comment									

HALLIBURTON

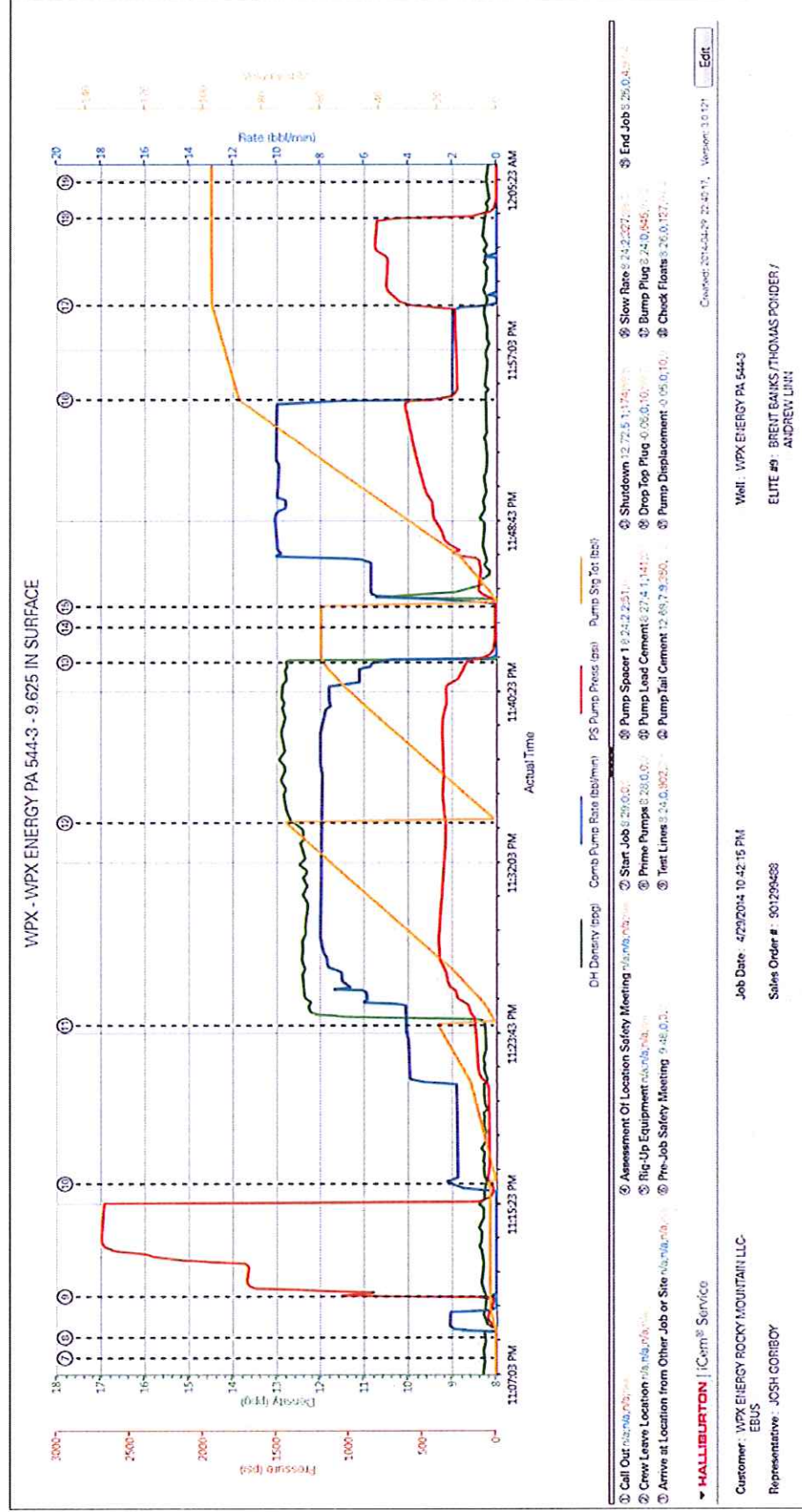
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS
901299488
Case 1

1.1 Job Event Log

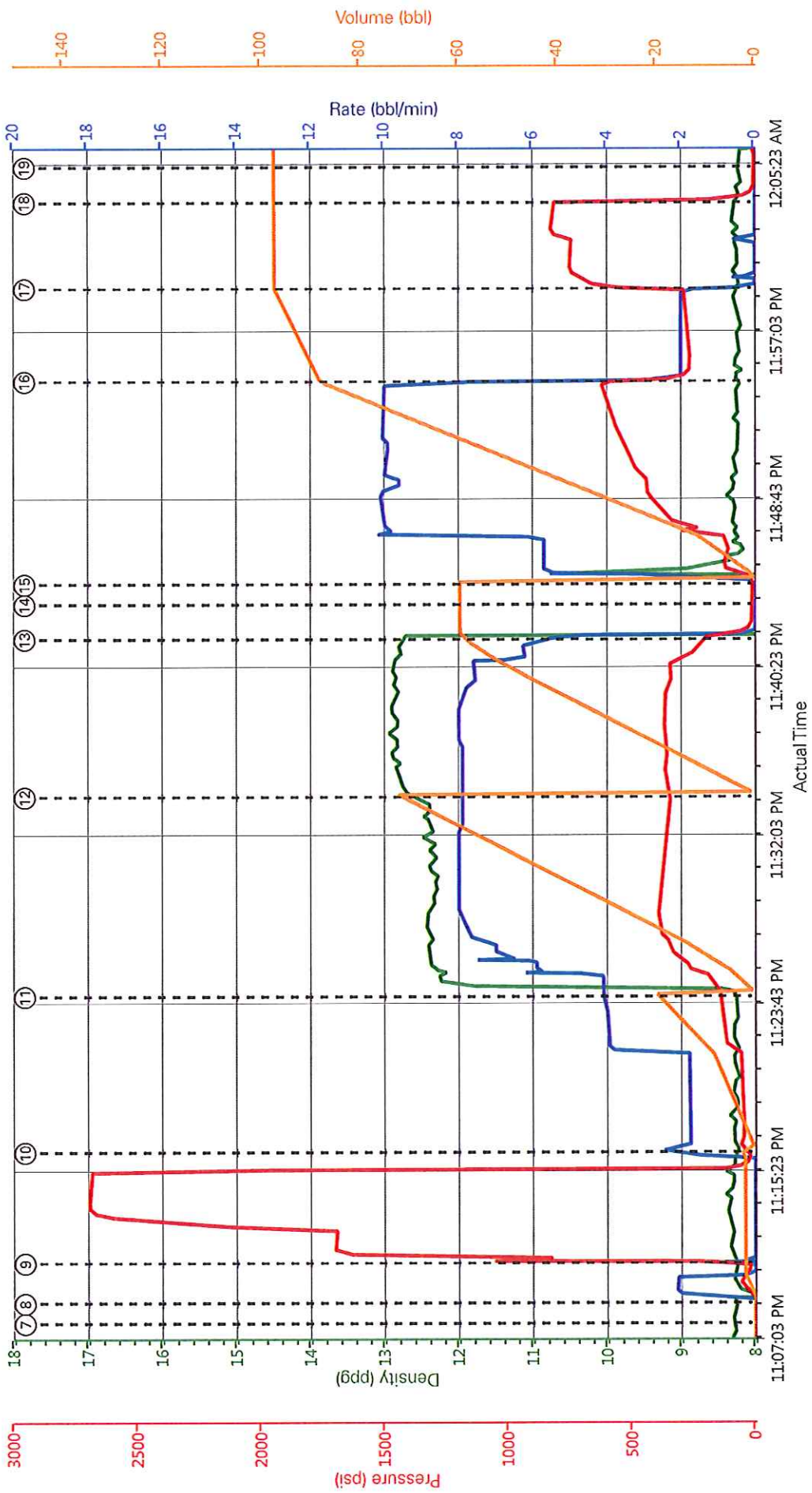
Type	Seq No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	4/29/2014	13:00:00	USER					ON LOCATION TIME @ 1800
Event	2	Crew Leave Location	4/29/2014	16:00:00	USER					ALL HES PRESENT FOR PRE-CONVOY SAFETY HUDDLE
Event	3	Arrive at Location from Other Job or Site	4/29/2014	17:00:00	USER					RIG WAS STILL PULLING DRILL PIPE WHEN THE CREW ARRIVED ON LOCATION
Event	4	Assessment Of Location Safety Meeting	4/29/2014	21:30:00	USER					TD- 1290', TP- 1290', SJ- 43.8', MUD- 10.4 PPG, HOLE- 13 1/2", SURFACE CASING- 9 5/8" 32.3# H-40
Event	5	Rig-Up Equipment	4/29/2014	21:45:00	USER					1-550 PICKUP, 1-ELITE PUMP, 1-660 CUFT BULK TRUCK
Event	6	Pre-Job Safety Meeting	4/29/2014	22:45:00	USER					ALL HES PRESENT, RIG CREW PRESENT, RIG TD CASING @ 2130
Event	7	Start Job	4/29/2014	23:08:00	COM6					
Event	8	Prime Pumps	4/29/2014	23:09:00	COM6	8.28	2	60	2	FILL LINES
Event	9	Test Lines	4/29/2014	23:11:00	USER	8.24	.1	2694	.1	GOOD PRESSURE TEST NO LEAKS IN THE LINES
Event	10	Pump Spacer 1	4/29/2014	23:16:30	COM6	8.24	4	138	20	FRESH WATER
Event	11	Pump Lead Cement	4/29/2014	23:24:14	COM6	12.3	8	384	72.1	170 SKS 12.3 PPG 2.38 FT3/SK 13.77 GAL/SK
Event	12	Pump Tail Cement	4/29/2014	23:34:07	COM6	12.8	8	374	60.1	160 SKS 12.8 PPG 2.11 FT3/SK 11.77 GAL/SK
Event	13	Shutdown	4/29/2014	23:41:56	USER					
Event	14	Drop Top Plug	4/29/2014	23:43:40	USER					PLUG DROP VERIFIED VIA TATTLE TELL BY CO REP
Event	15	Pump Displacement	4/29/2014	23:44:40	COM6	8.25	10	625	88.1	FRESH WATER, WASHED UP ON TOP OF THE PLUG WITH THE FIRST 10 BBL OF DISPLACEMENT OUT OF THE MIXING TUB
Event	16	Slow Rate	4/29/2014	23:54:45	USER	8.23	2	263	10	GOOD RETURNS, CIRCULATED 40 BBL OF CEMENT TO SURFACE
Event	17	Bump Plug	4/29/2014	23:59:22	USER			263	98.1	PLUG BUMPED
Event	18	Check Floats	4/30/2014	00:03:39	USER			829	98.1	FLOATS HELD, 3/4 BBL BACK TO THE DISPLACEMENT TANKS
Event	19	End Job	4/30/2014	00:05:25	COM6					THANK YOU FOR CHOOSING HALLIBURTON, THOMAS PONDER AND CREW

2.0 Attachments

2.1 CHART EVENTS.png



WPX - WPX ENERGY PA 544-3 - 9.625 IN SURFACE



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

- ① Call Out n/a;n/a;n/a;n/a
- ② Crew Leave Location n/a;n/a;n/a;n/a
- ③ Arrive at Location from Other Job or Site n/a;n/a;n/a;n/a
- ④ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a
- ⑤ Rig-Up Equipment n/a;n/a;n/a;n/a
- ⑥ Pre-Job Safety Meeting 9.48;0;3;0
- ⑦ Start Job 8.24;0;902;2.1
- ⑧ Prime Pumps 8.28;0;0;0
- ⑨ Pump Spacer 18.24;2.2;51;0.1



HALLIBURTON | iCem® Service

Created: 2014-04-29 22:40:17, Version: 3.0.121

Edit

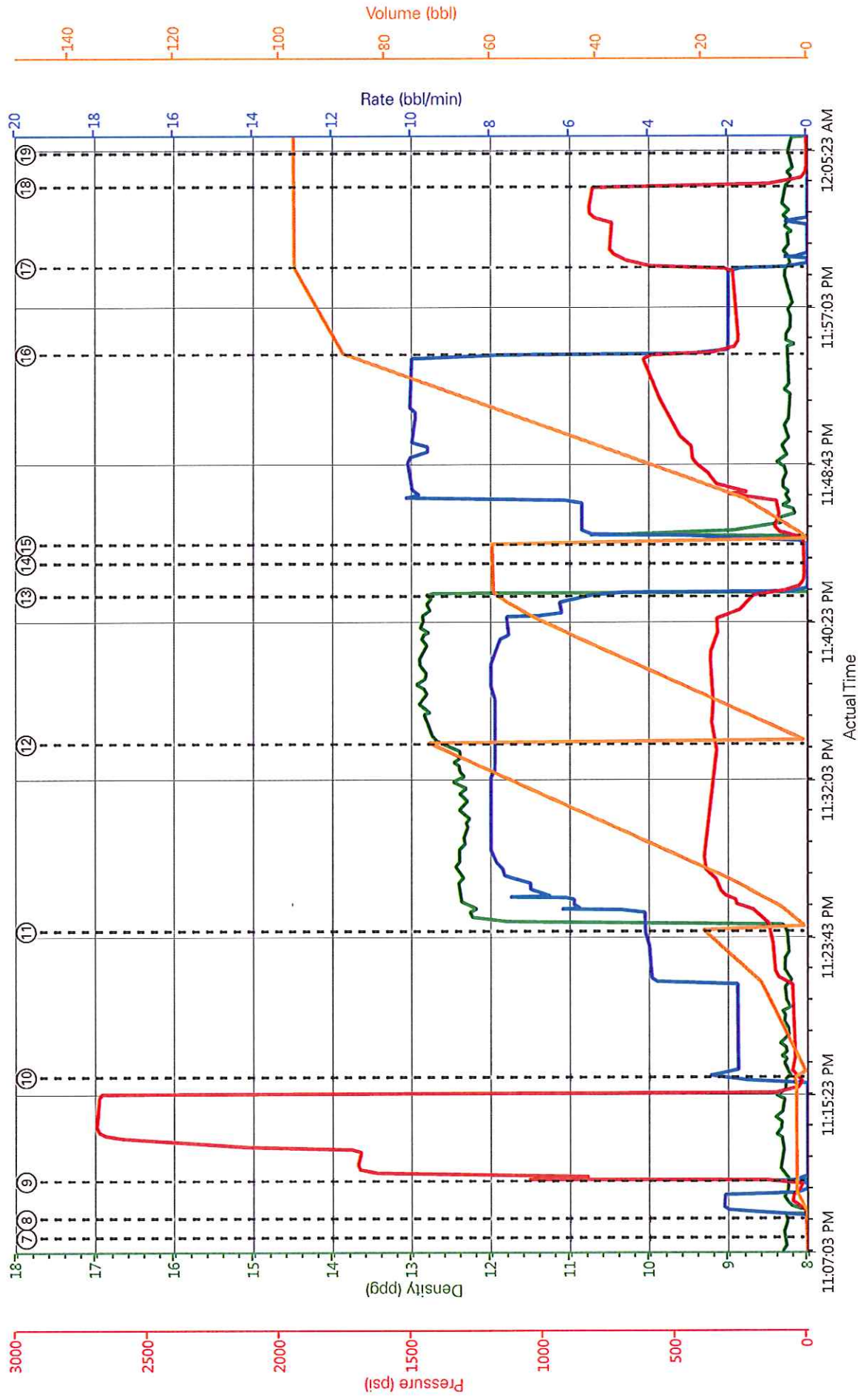
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS Job Date: 4/29/2014 10:42:15 PM Well: WPX ENERGY PA 544-3

Representative: JOSH GORIBOY

Sales Order #: 901299488

ELITE #9: BRENT BANKS / THOMAS PONDER / ANDREW LINN

WPX - WPX ENERGY PA 544-3 - 9.625 IN SURFACE



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

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Representative: JOSH GORIBOY

Sales Order #: 901299488

ELITE #9: BRENT BANKS / THOMAS PONDER / ANDREW LINN

HALLIBURTON

Company:	<u>WP-X</u>	Date:	<u>4/30/2014</u>
Submitted by:	<u>THOMAS PONDER</u>	Date Rec.:	<u>4/30/2014</u>
Attention:	<u>LARRY COOKSEY</u>	S.O.#	<u>901299488</u>
Lease	<u>WPX ENERGY</u>	Job Type:	<u>SURFACE</u>
Well #	<u>PA 544-3</u>		

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>250 Mg / L</i>
Calcium (Ca)	<i>500</i>	<i>0 Mg / L</i>
Iron (FE2)	<i>300</i>	<i>10 Mg / L</i>
Chlorides (Cl)	<i>3000</i>	<i>0 Mg / L</i>
Sulfates (SO ₄)	<i>1500</i>	<i><200 Mg / L</i>
Carbonates hardness		
Temp	<i>40-80</i>	<i>48 Deg</i>
Total Dissolved Solids		<i>265 Mg / L</i>

Respectfully: THOMAS PONDER

Title: CEMENTING SUPERVISOR

Location: GRAND JCT, CO

Sales Order #: 0901299488	Line Item: 10	Survey Conducted Date: 4/30/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22135-00
Well Name: WPX ENERGY		Well Number: 0080226425
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	4/30/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX41187
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	4/30/2014

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.	3
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.	2
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) 05-045-22135-00
Well Name: WPX ENERGY		Well Number: 0080226425
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
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	99
Was Automated Density Control Used? Was Automated Density Control (ADC) Used ?	Yes
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	99
Nbr of Remedial Sqz Jobs Rqd - Competition Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
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