
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**RMV 145-36
RULISON
Garfield County , Colorado**

**Cement Surface Casing
09-Nov-2012**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2956946	Quote #:	Sales Order #: 9881917
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Oaks, Rick	
Well Name: RMV		Well #: 145-36	API/UWI #: 05-045-21483
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.482 deg. OR N 39 deg. 28 min. 56.003 secs.		Long: W 107.837 deg. OR W -108 deg. 9 min. 47.556 secs.	
Contractor: NABORS 576		Rig/Platform Name/Num: NABORS 576	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: DEUSSEN, EDWARD MBU ID Emp #: 485182	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANKS, BRENT A	24.5	371353	DEUSSEN, EDWARD Eric	24.5	485182	LINN, PAUL Andrew	24.5	479143

Equipment

HES Unit #	Distance-1 way						
10565341	60 mile	10567589C	60 mile	10973571	60 mile	11259886	60 mile
11808829	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/8/12	15.5	0	11/9/12	9	6			

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type		BHST	On Location	08 - Nov - 2012	08:45	MST
Job depth MD	3093. ft	Job Depth TVD	Job Started	09 - Nov - 2012	05:07	MST
Water Depth		Wk Ht Above Floor	Job Completed	09 - Nov - 2012	07:03	MST
Perforation Depth (MD)	From	To	Departed Loc	09 - Nov - 2012	09:00	MST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
OPEN HOLE				13.5				.	3098.		
SURFACE CASING	Unknown		9.625	9.001	32.3		H-40	.	3092.5		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 9 5/8, HWE, 8.16 MIN/9.06 MA	1	EA		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9 5/8	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	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 ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	

1	Water Spacer	FRESH WATER	20.00	bbl	.	.0	.0	4.0	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	500.0	sacks	12.3	2.38	13.75	6.0	13.75
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	6.0	11.75
4	Displacement	FRESH WATER	240.00	bbl	.	.0	.0	8.0	
Calculated Values		Pressures			Volumes				
Displacement	239.9	Shut In: Instant		Lost Returns		Cement Slurry	272	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	60	Actual Displacement	239.9	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	531.9
Rates									
Circulating		Mixing	6	Displacement	8	Avg. Job	7		
Cement Left In Pipe	Amount	43.89 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2956946	Quote #:	Sales Order #: 9881917
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Oaks, Rick	
Well Name: RMV		Well #: 145-36	API/UWI #: 05-045-21483
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.482 deg. OR N 39 deg. 28 min. 56.003 secs.		Long: W 107.837 deg. OR W -108 deg. 9 min. 47.556 secs.	
Contractor: NABORS 576		Rig/Platform Name/Num: NABORS 576	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: DEUSSEN, EDWARD	MBU ID Emp #: 485182

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/08/2012 04:30							
Pre-Convoy Safety Meeting	11/08/2012 06:30							ALL HES PERSONNEL
Crew Leave Yard	11/08/2012 06:45							1 ELITE, 1 660, 1 PICKUP
Arrive At Loc	11/08/2012 08:45							RIG STILL PULLING DRILL PIPE
Assessment Of Location Safety Meeting	11/08/2012 09:00							
Pre-Rig Up Safety Meeting	11/09/2012 02:45							ALL HES PERSONNEL
Rig-Up Equipment	11/09/2012 03:00							1 HARD LINE TO FLOOR, 2 WATER LINES TO UPRIGHT AND DAY TANK, BULK HOSES TO SILO AND 660
Pre-Job Safety Meeting	11/09/2012 04:45							ALL HES PERSONNEL AND RIG CREW
Start Job	11/09/2012 05:07	1						TD 3098', TP 3092.52', SJ 43.89', MW 10.0, OH 13 1/2", CSG 9 5/8", 32.3# H-40, VISC 60
Pump Water	11/09/2012 05:08	2	2	2			133.0	FILL LINES
Pressure Test	11/09/2012 05:12	4						PRESSURED UP TO 3960 PSI - PRESSURE HELD WELL
Pump Spacer 1	11/09/2012 05:14	5	4	20			211.0	FRESH WATER SPACER
Pump Lead Cement	11/09/2012 05:25	6	6	211.9			355.0	500 SKS, 12.3 PPG, 2.38 YIELD, 13.75 GAL/SK
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

Sold To # : 300721

Ship To # :2956946

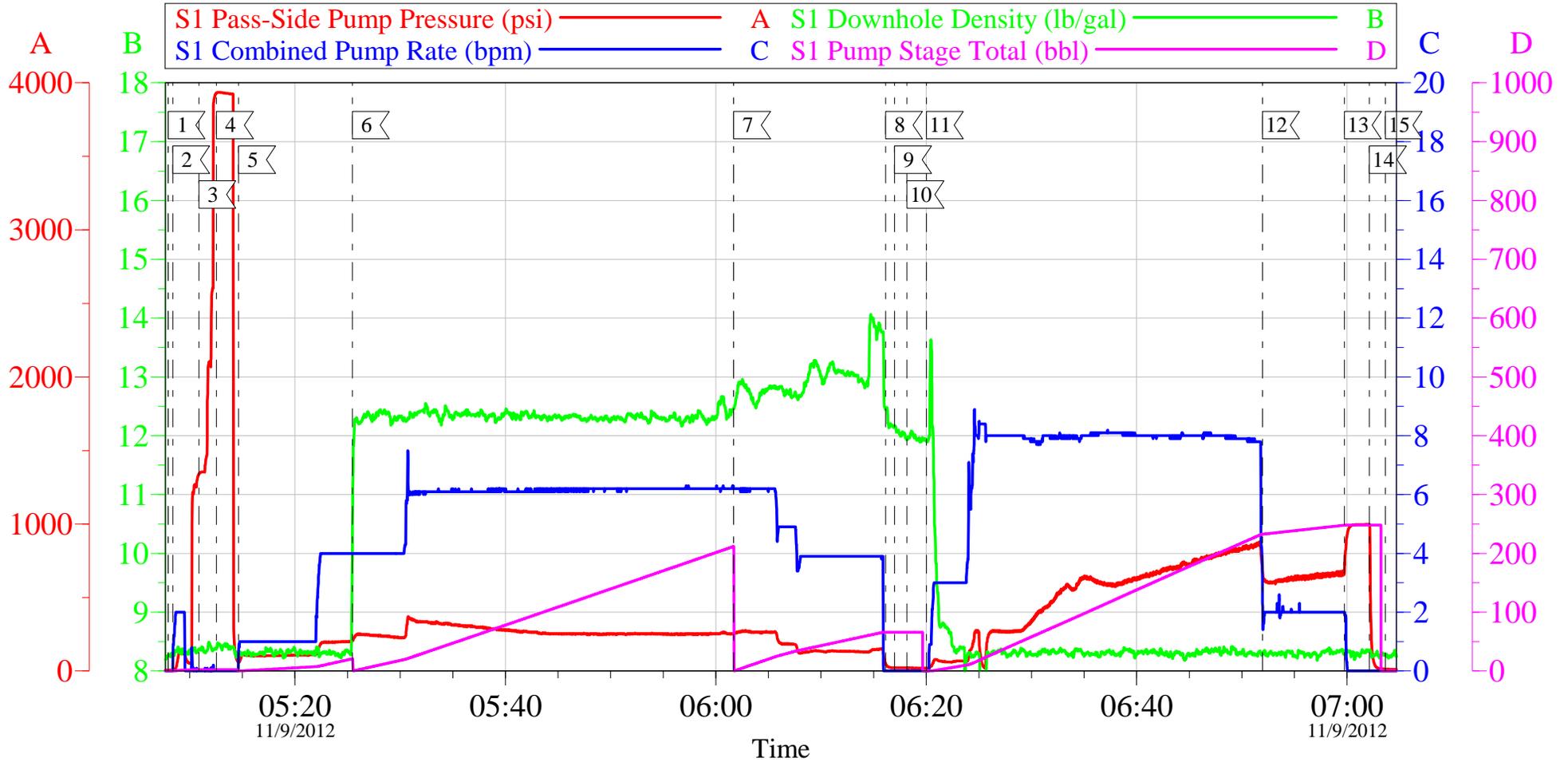
Quote # :

Sales Order # : 9881917

		#		Stage	Total	Tubing	Casing	
Pump Tail Cement	11/09/2012 08:59	7	6	60.1			348.0	160 SKS, 12.8 PPG, 2.11 YIELD, 11.75 GAL/SK
Shutdown	11/09/2012 08:59							
Drop Top Plug	11/09/2012 08:59							
Pump Displacement	11/09/2012 08:59		8	239.9			860.0	FRESH WATER
Slow Rate	11/09/2012 08:59		2	10			606.0	
Bump Plug	11/09/2012 08:59						674.0	PRESSURED UP TO 1034 PSI
Check Floats	11/09/2012 08:59							FLOATS HELD - GOT 1 1/2 BBL BACK
End Job	11/09/2012 08:59							GOT 60 BBLs CEMENT TO SURFACE / USED 80 LBS SUGAR - NO DERRICK CHARGE OR IRON TRAILER CHARGE - 14 ADD HOURS
Post-Job Safety Meeting (Pre Rig-Down)	11/09/2012 08:59							ALL HES PERSONNEL
Rig-Down Equipment	11/09/2012 08:59							
Pre-Convoy Safety Meeting	11/09/2012 08:59							ALL HES PERSONNEL
Crew Leave Location	11/09/2012 08:59							THANK YOU FOR USING HALLIBURTON AND ED DEUSSEN AND CREW

WPX - RWF 145-36

9 5/8 SURFACE

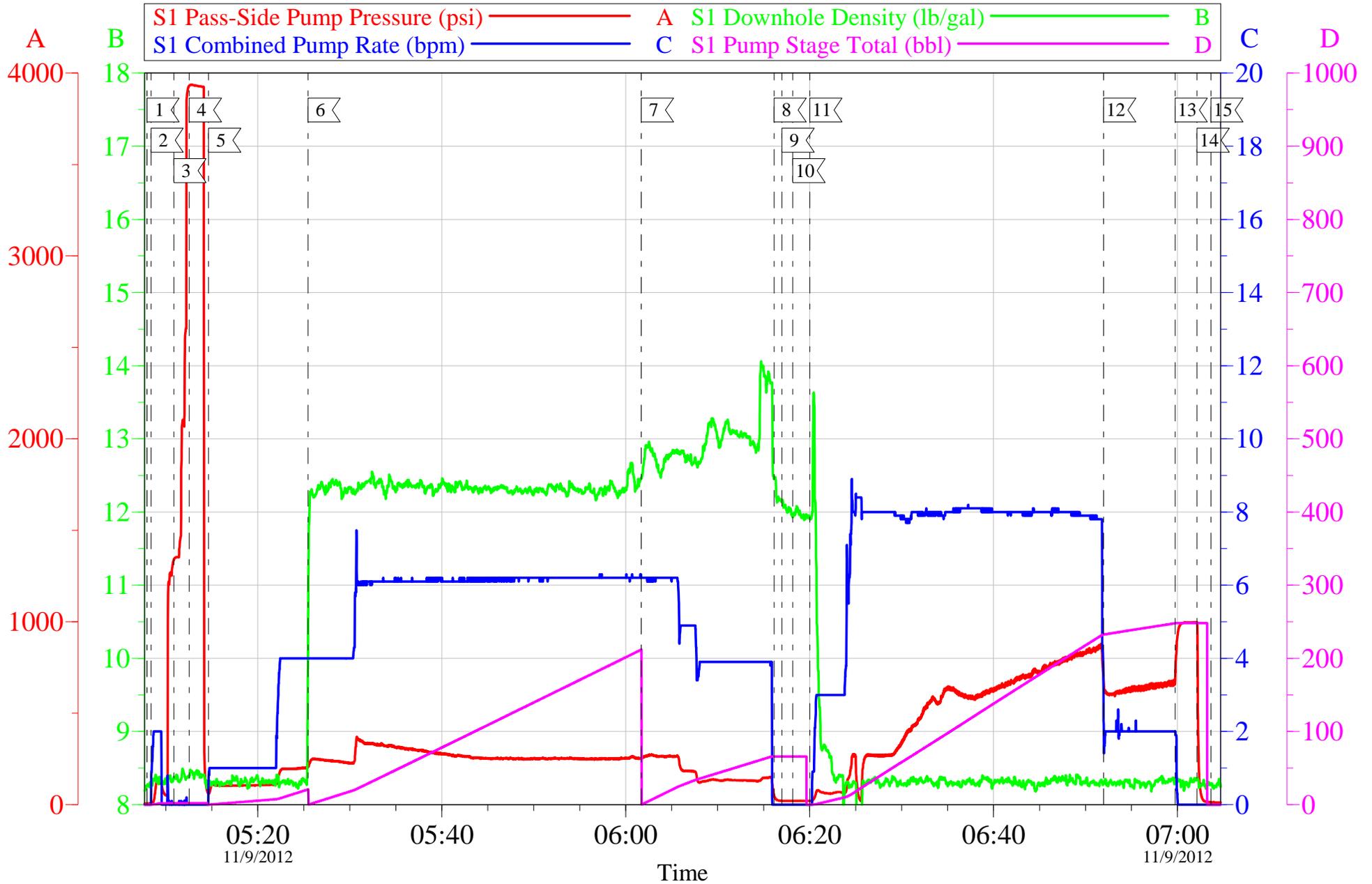


Local Event Log								
1	START JOB	05:07:57	2	FILL LINES	05:08:23	3	5TH GEAR STALLOUT	05:10:52
4	PRESSURE TEST	05:12:33	5	PUMP H2O SPACER	05:14:38	6	PUMP LEAD CEMENT	05:25:28
7	PUMP TAIL CEMENT	06:01:42	8	SHUTDOWN	06:16:08	9	WASH UP PUMP	06:17:00
10	DROP TOP PLUG	06:18:11	11	PUMP DISPLACEMENT	06:20:01	12	SLOW RATE	06:51:58
13	BUMP PLUG	06:59:44	14	CHECK FLOATS	07:02:07	15	END JOB	07:03:37

Customer:	WPX	Job Date:	09-Nov-2012	Sales Order #:	9881917
Well Description:	RWF 145-36	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	RICK OAKS	Cement Supervisor:	ED DEUSSEN	Elite #3:	ANDREW LINN

WPX - RWF 145-36

9 5/8 SURFACE



Customer: WPX	Job Date: 09-Nov-2012	Sales Order #: 9881917
Well Description: RWF 145-36	Job Type: SURFACE	ADC Used: YES
Company Rep: RICK OAKS	Cement Supervisor: ED DEUSSEN	Elite #3: ANDREW LINN

HALLIBURTON

Water Analysis Report

Company: WILLIAMS
Submitted by: ED DEUSSEN
Attention: J.TROUT
Lease: RMV
Well #: 145-36

Date: 11/8/2012
Date Rec.: 11/8/2012
S.O.#: 9881917
Job Type: 9 5/8" SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	8
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>	<200 Mg / L
Temp	<i>40-80</i>	46 Deg
Total Dissolved Solids		40 Mg / L

Respectfully: ED DEUSSEN

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 use.

Sales Order #: 9881917	Line Item: 10	Survey Conducted Date: 11/9/2012
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: RICK OAKS		API / UWI: (leave blank if unknown) 05-045-21483
Well Name: RMV		Well Number: 145-36
Well Type: Development Well	Well Country: United States of America	
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	11/9/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	EDWARD DEUSSEN (HB57194)
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 #: 9881917	Line Item: 10	Survey Conducted Date: 11/9/2012
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: RICK OAKS		API / UWI: (leave blank if unknown) 05-045-21483
Well Name: RMV		Well Number: 145-36
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	11/9/2012
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	6
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Operating Hours (Pumping Hours)	2.5
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	0
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.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	5
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

Sales Order #: 9881917	Line Item: 10	Survey Conducted Date: 11/9/2012
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: RICK OAKS		API / UWI: (leave blank if unknown) 05-045-21483
Well Name: RMV		Well Number: 145-36
Well Type: Development Well	Well Country: United States of America	
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	92
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	98
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