

WPX Energy Rocky Mountain LLC- EBUS

RWF 341-23

Nabors 577

Post Job Summary

Cement Production Casing

Date Prepared: 02/21/2015

Job Date: 02/16/2015

Submitted by: Evan Russell – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3122902	Quote #:	Sales Order #: 0902121865
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: GARY VALLAD	
Well Name: MEAD -RWF-	Well #: 341-23	API/UWI #: 05-045-20046-00	
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: NE SE-23-6S-94W-2303FSL-219FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 577	
Job BOM: 7523			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Thomas Ponder	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	9137ft		Job Depth TVD
Water Depth			Wk Ht Above Floor 4ft
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
Casing		9.625	9.001	32.3			0	1177	0
Casing		4.5	4	11.6			0	9137	0
Open Hole Section			8.75				1177	9147	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	4.5	1				Top Plug	4.5	1	HES
Float Shoe	4.5	1		9137		Bottom Plug	4.5		HES
Float Collar	4.5	1		9104		SSR plug set	4.5		HES
Insert Float	4.5	1				Plug Container	4.5	1	HES
Stage Tool	4.5	1				Centralizers	4.5		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 ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Mud Flush III (Powder)	Mud Flush III	20	bbl	8.4			4	
42 gal/bbl		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
2	13.7 lb/gal Tuned Spacer III	Tuned Spacer III	20	bbl	13.7	29.95		4	
32.81 gal/bbl		FRESH WATER							
271.10 lbm/bbl		BARITE, BULK (100003681)							
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 GJ2	VARICEM (TM) CEMENT	1375	sack	14.2	1.308		7	5.7
5.75 Gal		FRESH WATER							
0.20 %		HR-5, 50 LB SK (100005050)							
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
5	KCL Displacement	KCL Displacement	141.1	bbl	8.34			10	
Cement Left In Pipe		Amount	33 ft		Reason		Shoe Joint		
Comment									

1.0 Real-Time Job Summary

1.1 Job Event Log

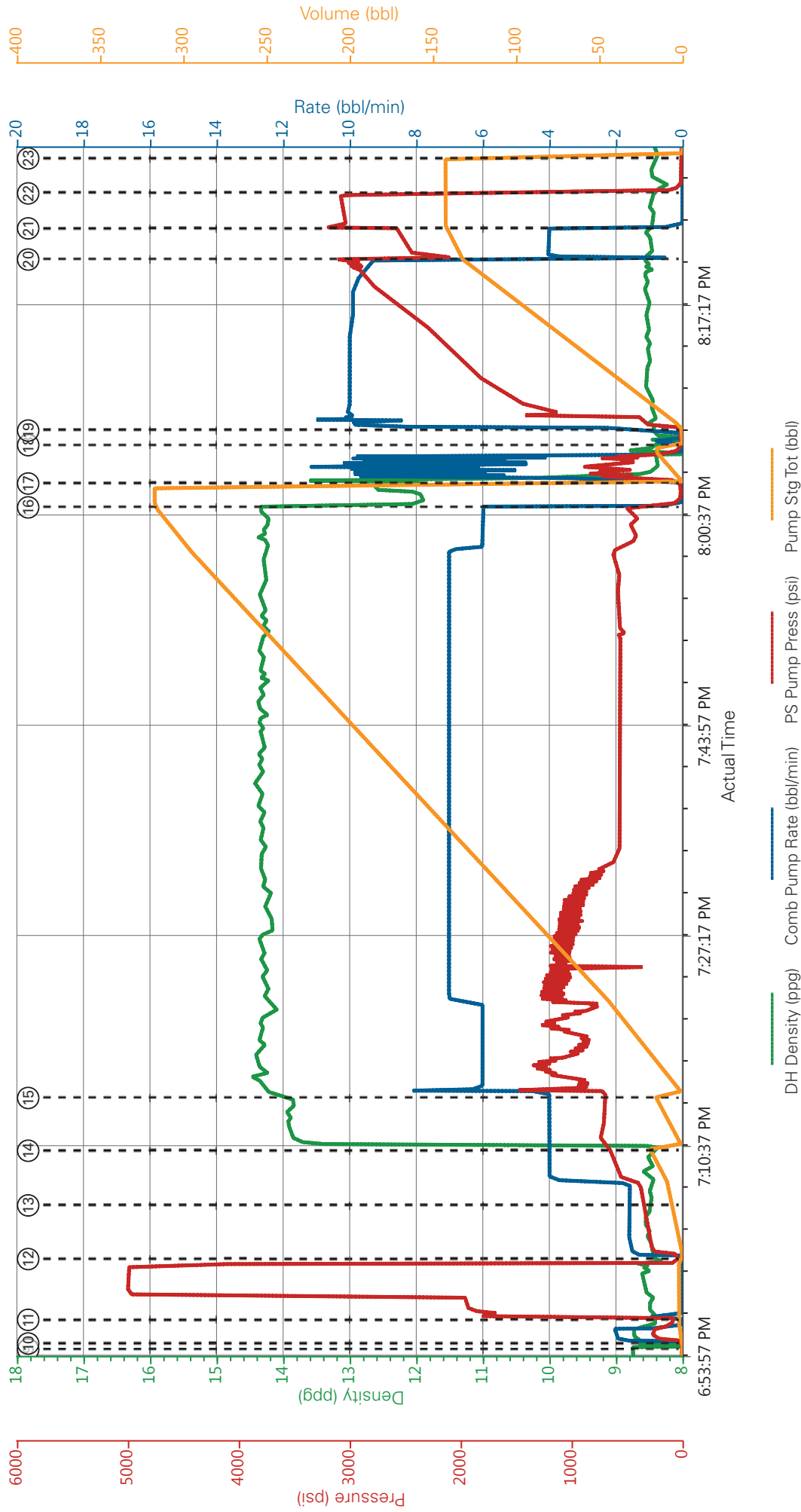
Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	2/16/2015	09:00:00	USER					ON LOCATION TIME @ 1400 ON 02/16/2014
Event	2	Pre-Convoy Safety Meeting	2/16/2015	11:45:00	USER					ALL PERSONNEL INVOLVED WITH CONVOY PRESENT FOR THE MEETING
Event	3	Crew Leave Yard	2/16/2015	12:00:00	USER					ALL VEHICLES LEFT THE YARD AT THE SAME TIME
Event	4	Arrive At Loc	2/16/2015	14:00:00	USER					RIG WAS STILL RUNNING CASING WHEN THE CREW ARRIVED ON LOCATION
Event	5	Assessment Of Location Safety Meeting	2/16/2015	15:30:00	USER					TD - 9147', TP - 9137', SJ - 33', MUD - 12.3 PPG, OPEN HOLE - 8 3/4", SURFACE CASING - 9 5/8" 32.3# H-40 SET @ 1177', PRODUCTION CASING - 4 1/2" 11.6# I-80
Event	6	Pre-Rig Up Safety Meeting	2/16/2015	15:45:00	USER					JSA PERFORMED
Event	7	Rig-Up Equipment	2/16/2015	16:00:00	USER					1 - 550 PICKUP TRUCK, 1 - ELITE PUMPING UNIT, 2 - 660 CUFT BULK TRAILERS, 1 - 1700 CUFT STORAGE SILO, 2" CIRCULATING IRON, 1 - 4 1/2" PLUG CONTAINER, QUICK LATCH, AND TOP PLUG
Event	8	Pre-Job Safety Meeting	2/16/2015	18:45:00	USER					ALL HES PRESENT, RIG CREW PRESENT, RIG STARTED CIRCULATING ON

BOTTOM @ 1545

Event	9	Start Job	2/16/2015	18:54:45	COM7							RIG UP FROM STAND PIPE TO PLUG CONTAINER
Event	10	Prime Pumps	2/16/2015	18:55:14	USER	8.33	2	280	2			FILL LINES WITH FRESH WATER
Event	11	Test Lines	2/16/2015	18:57:06	COM7		.1	5000	.1			GOOD PRESSURE TEST, NO LEAKS IN THE LINES
Event	12	Pump Spacer 1	2/16/2015	19:01:55	COM7	8.5	4	655	20			MUDFLUSH III
Event	13	Check Weight	2/16/2015	19:06:11	COM7							WEIGHED UP FIRST TUB OF TUNED SPACER III
Event	14	Pump Spacer 2	2/16/2015	19:10:31	COM7	13.7	4	700	20			20 BBL 13.7 PPG 2.07 FT3/SK 12.1 GAL/SK TUNED SPACER III
Event	15	Pump Tail Cement	2/16/2015	19:14:42	COM7	14.2	7	1305	320.8			1375 SKS 14.2 PPG 1.31 FT3/SK 5.7 GAL/SK, TOWARDS THE END OF TAIL HAD TO SLOW RATE FROM 7 BPM TO 6 BPM DUE TO DELIVERY OF CEMENT
Event	16	Shutdown	2/16/2015	20:01:31	USER							
Event	17	Clean Lines	2/16/2015	20:03:25	USER							WASHED UP PUMPS AND LINES TO CUTTING PIT
Event	18	Drop Top Plug	2/16/2015	20:06:27	USER							PLUG DROP VERIFIED VIA TATTLE TELL BY CO REP
Event	19	Pump Displacement	2/16/2015	20:07:36	COM7	8.5	10	3108	131.1			FRESH WATER, 1 - GAL MMCR, 3# BE-6, 2% KCL SUPPLIED BY THE RIG
Event	20	Slow Rate	2/16/2015	20:21:10	USER	8.5	4	2439	10			GOOD RETURNS THROUGH OUT THE JOB
Event	21	Bump Plug	2/16/2015	20:23:38	USER	8.5	4	2580	141.1			PLUG BUMPED
Event	22	Check Floats	2/16/2015	20:26:25	USER			3090	141.1			FLOATS HELD, 1 1/2 BBL BACK TO THE

DISPALCEMENT TANKS				
Event	23	End Job	2/16/2015	20:29:11 COM7
THANK YOU FOR CHOOSING HALLIBURTON, THOMAS PONDER AND CREW				

WPX - MEAD RWF 341-23 - 4.5 IN PRODUCTION



- ① Call Out
- ② Pre-Convoy Safety Meeting
- ③ Crew Leave Yard
- ④ Arrive At Loc
- ⑤ Assessment Of Location Safety Meeting
- ⑥ Pre-Rig Up Safety Meeting
- ⑦ Rig-Up Equipment
- ⑧ Pre-Job Safety Meeting
- ⑨ Start Job
- ⑩ Prime Pumps
- ⑪ Test Lines
- ⑫ Pump Spacer 1
- ⑬ Check weight
- ⑭ Pump Spacer 2
- ⑮ Pump Tail Cement
- ⑯ Shutdown
- ⑰ Clean Lines
- ⑱ DropTop Plug
- ⑲ Pump Displacement
- ⑳ Slow Rate
- ㉑ Bump Plug
- ㉒ Check Floats
- ㉓ End Job

▼ **HALLIBURTON** | iCem® Service

Created: 2015-02-16 17:56:09, Version: 4.1.107

Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date : 2/16/2015 5:57:29 PM

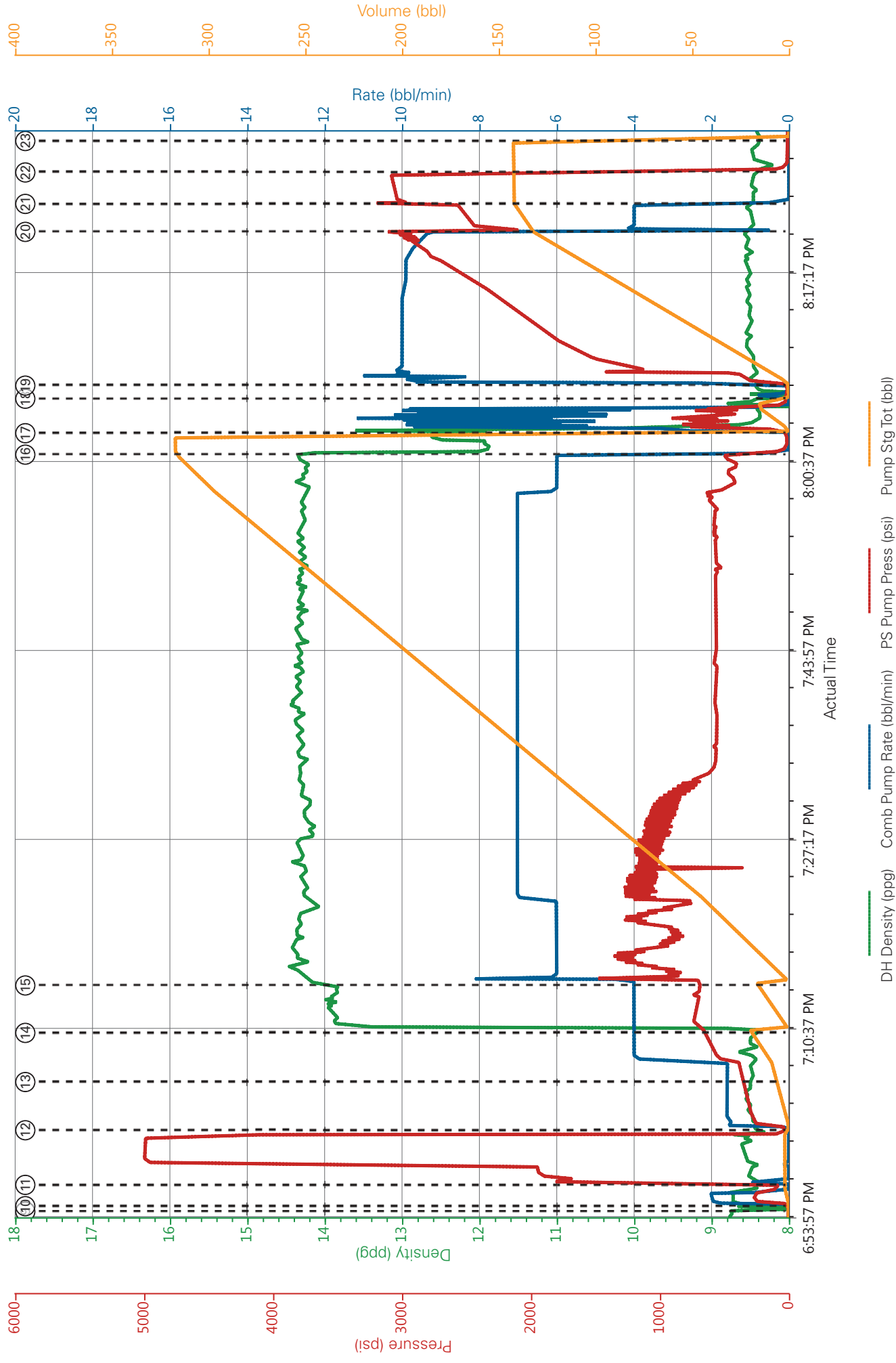
Well : MEAD RWF 341-23

Representative : GARY VALLAD

Sales Order # : 902121865

ELITE #6 : ADAM ANGELO / TRAVIS BROWN
THOMAS PONDER

WPX - MEAD RWF 341-23 - 4.5 IN PRODUCTION



HALLIBURTON

Company:	<u>WPX</u>	Date:	<u>2/16/2015</u>
Submitted by:	<u>THOMAS PONDER</u>	Date Rec.:	<u>2/16/2015</u>
Attention:	<u>LARRY COOKSEY</u>	S.O.#	<u>902121865</u>
Lease	<u>MEAD RWF</u>	Job Type:	<u>PRODUCTION</u>
Well #	<u>341-23</u>		

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>0</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>0</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>500</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i><200</i> Mg / L
Carbonates hardness		
Temp	<i>40-80</i>	<i>52.5</i> Deg
Total Dissolved Solids		<i>360</i> Mg / L

Respectfully: THOMAS PONDER

Title: CEMENTING SUPERVISOR

Location: GRAND JCT, CO

Sales Order #: 0902121865	Line Item: 10	Survey Conducted Date: 2/16/2015
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: GARY VALLAD		API / UWI: (leave blank if unknown) 05-045-20046-00
Well Name: MEAD -RWF-		Well Number: 0080124699
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	2/16/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX41187
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	GARY VALLAD
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	GOOD JOB

CUSTOMER SIGNATURE

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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	2/16/2015

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.	Deviated
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
Pumping Hours Total number of hours pumping fluid on this job. Enter in decimal format.	1.5
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
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: MEAD -RWF-		Well Number: 0080124699
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

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.	
Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment? Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?	No
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
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, was Halliburton float equipment used? (Yes/No/N/A) If applicable, was Halliburton float equipment used? (Yes/No/N/A)	No
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	99
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
If applicable, were there returns throughout the job? (Yes/No/N/A) If applicable, were there returns throughout the job? (Yes/No/N/A)	Yes
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