

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NMOCD  
Artesia

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM20965
2. Name of Operator RKI EXPLORATION & PROD LL Contact: CRYSTAL FULTON E-Mail: crystal.fulton@wpenergy.com		6. If Indian, Allottee or Tribe Name
3a. Address 3500 ONE WILLIAMS CENTER MD35 TULSA, OK 74172	3b. Phone No. (include area code) Ph: 539-573-0218	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 17 T26S R30E 75FNL 2510FWL		8. Well Name and No. RDX FEDERAL COM 17 46H
		9. API Well No. 30-015-44410
		10. Field and Pool or Exploratory Area PURPLE SAGE;WOLFCAMP(GAS)
		11. County or Parish, State EDDY COUNTY, NM

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Drilling Operations
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

PLEASE BE ADVISED 2nd INTERVAL CASING & CEMENT WAS SET: 10/5/2017

7" 29# P-110 BTC: 0? ? 10,794?

Lead CMT: 855 sks @ 11.2 ppg, Tail: 235 sks @ 15.6 ppg. Bumped Plug @ 1300 psi, floats held. no to sfc.

10/6/2017 test casing to 1500psi for 30 minutes. Good Test.

The binded Post Job Report is attached.

NM OIL CONSERVATION  
ARTESIA DISTRICT

NOV 07 2017

RECEIVED

11-8-17  
Accepted for record - NMOCD

14. I hereby certify that the foregoing is true and correct. Electronic Submission #391681 verified by the BLM Well Information System For RKI EXPLORATION & PROD LL, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER SANCHEZ on 10/16/2017 ()	
Name (Printed/Typed) CRYSTAL FULTON	Title PERMITTING TEST
Signature (Electronic Submission)	Date 10/11/2017

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By _____	Title _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

**PAR FIVE**  
**ENERGY SERVICES LLC**

**DESIGN - EXECUTE - EVALUATE - REPORT**

**DEEP INTERMEDIATE**

**WPX ENERGY**

**RDX FEDERAL COM 17 #46H**

**EDDY COUNTY NEW MEXICO**

<b>PRIMARY PUMP:</b>	<b>2019</b>
<b>SECONDARY PUMP:</b>	<b>2014</b>

**PREPARED BY: JASON AHLIN**

**SERVICE SUPERVISOR**

**ARTESIA DISTRICT**

**1-575-748-8610**

10/5/2017

# WELL SUMMARY

## PAR FIVE ENERGY SERVICES LLC

COMPANY NAME:	WPX ENERGY	DATE:	10/5/2017
LEASE NAME:	RDX FEDERAL COM 17	OPERATOR NAME:	WPX ENERGY
WELL NUMBER:	#46H	TICKET NUMBER:	6992
API NUMBER:		AFE NUMBER:	
SECTION:		TOWNSHIP:	RANGE:
COUNTY:	EDDY	STATE:	NM
RIG NAME:	ORION 10	COMPANY REP:	BRYAN KNOPP
		PHONE#:	361-553-4421

### DIRECTIONS

US285 SOUTH of Malaga NM to MM #4 turn LEFT and follow CR725

### NOTES

UPDATED BY MIKE ELLIOTT 8-28-17

### HSE

ALL EMPLOYEES WEAR PPE

### JOB PROCEDURE

PUMP 20 BBLS GEL SPACER  
PUMP 855 SKS LEAD SLURRY @ 11.2 PPG  
PUMP 235 SKS TAIL SLURRY @ 15.6 PPG  
SHUT DOWN DROP PLUG  
DISPLACE WELL

# WELL SUMMARY

## PAR FIVE ENERGY SERVICES LLC

WELL /CASING DATA									
JOB TYPE: DEEP INTERMEDIATE					HOLE SIZE: 8 3/4				
TVD: 10692.3					PREVIOUS CASING SIZE: 9 5/8				
PREVIOUS CASING LB/FT: 40					PREVIOUS CASING DEPTH: 3493				
CASING SIZE: 7									
CASING LB/FT: 29					CASING GRADE: P110				
FLOAT COLLAR DEPTH: 10712.91					SHOE JOINT LENGTH: 85.09				
DV TOOL DEPTH:					SECOND DV TOOL DEPTH:				
TOTAL DEPTH: 10812					TOTAL CASING : 10798				
TUBULAR DATA									
TBG/D.P. SIZE:					TBG/D.P. DEPTH:				
TBG/D.P. LB/FT:					TOOL DEPTH:				
PACKER OR RETAINER:					PERF/HOLE DEPTH:				
SURFACE EQUIPMENT									
CEMENT HEAD SIZE: 7					QUICK CONNECT SIZE: 7				
DRILL PIN SIZE/TYPE:					THREAD: BUTTRESS				
TUBING SWEDGE SIZE:					TAKE 2 -2 INCH REGULAR TUBING SWEDGES				
CHEMICALS NEEDED									
110# PF 424, 200# SUGAR									
EQUIPMENT									
SUPERVISOR:		Daniel Moreno			FIELD REPRESENTATIVE:				
PUMP OPERATOR:		Pablo Altamirano			UNIT NUMBER:		1009/2019		
E/O:					UNIT NUMBER:		1015/2014		
E/O:					UNIT NUMBER:		1029/2047		
E/O:					UNIT NUMBER:				
E/O:					UNIT NUMBER:		2034		
FLUID DATA									
1ST SLURRY:		PVL + 10% PF20 Bentonite + 8% PF60 PlexCrete FPZ + 1% PF13 Retarder + 0.7% PF606 Fluidloss +3 pps PF42 Kol-Seal + 0.4 pps PF45 Defoamer + 0.125 pps PF29 Cellophane							
DENSITY:	11.2	YIELD:	2.67	MIX H2O:	15.697	SACKS:	855		
2ND SLURRY:		H + 0.3% PF13 Retarder + 0.1% PF65 Dispersant							
DENSITY:	15.6	YIELD:	1.18	MIX H2O:	5.225	SACKS:	235		
3RD SLURRY:									
DENSITY:		YIELD:		MIX H2O:		SACKS:			
4TH SLURRY:									
DENSITY:		YIELD:		MIX H2O:		SACKS:			
5TH SLURRY									
DENSITY:		YIELD:		MIX H2O:		SACKS:			
DISPLACEMENT TYPE :		OBM			DISPLACEMENT VOLUME:		398	MUD WEIGHT:	11.8

## JOB LOG

**PAR FIVE**  
**ENERGY SERVICES LLC**

[illegible]

## PAGE 1 OF 1

PAGE 1 OF 1

RDX FED COM 17 #46 H.

RDX FED COM 17 #46 H.

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© 2001 Blackwell Science Ltd *Journal of Internal Medicine* 250: 101–108

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PAGE 1 OF 1

RDX FED COM 17 # 46H.....

PORTABLE TANK(S)

[illegible]





# SHIPPING PAPERS

24638



SEMI

ANM

OPERATOR/DRIVER NAME

DATE SHIPPED

10/2/2017 14:52

TREATMENT NO.

TRUCK NO / MOTOR VESSEL NAME

5005

TRAILER NO.

6005

CUSTOMER

WPX

JOB LOCATION (PLANT OR FIELD)

WELL NAME OR JOB NAME

RDX FED.COM 17 #46H....

SPECIAL INSTRUCTIONS

LEAD

PLACARDS REQUIRED: TRUCK

TRAILER

PORTABLE TANK(S)

HM	DOT SHIPPING DESCRIPTION (SHIPPING NAME, HAZARD CLASS, UN #, PACKAGE GROUP)	CHEMICAL NAME	WT/VOL	TYPE PACKAGE	NO OF PACKAGES	CODE	QUANTITY RETURNED
		PVL	6250	TANK	1	PF-049 -	
		Bentonite Gel	1240	TANK	1	PF-020 -	
	167 SKS PVL+ADDS	FPZ	1000	TANK	1	PF-060 -	
	LEAD	Retarder	125	TANK	1	PF-013 -	
		FLUID LOSS CONTROL	88	TANK	1	PF-606 -	
		Antifoam	67	TANK	1	PF-045 -	
		Kol-Seal	500	TANK	1	PF-042 -	
		Cellophane	21	TANK	1	PF-029 -	
		PVL	6260	TANK	1	PF-049 -	
						12 1/2	
						10.2	
UNIT	DESCRIPTION	WEIGHT	UNIT	DESCRIPTION	WEIGHT		
				Total Weight	15551.00	LBS	

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN THE PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE U.S. DEPARTMENT OF TRANSPORTATION OR LOADED TO THE SATISFACTION OF THE CAPTAIN.

LOAD DATE AND TIME: RETURN LOAD DATE: RETURN LOAD OPERATOR (SIGNATURE)

CERTIFIED BY (SIGNATURE)

**PAGE 1 OF 1**

ME  
RDX Fed Com 17<sup>th</sup> 4/6/64

PORTABLE TANK(S)

[illegible]

RETURN LOAD OPERATOR (SIGNATURE)

*[Handwritten signature]*

# SHIPPING PAPERS

24636




PAGE 1 OF 1

SEMA	JAM	OPERATOR/ DRIVER NAME	DATE SHIPPED	TREATMENT NO.
TRUCK NO./ MOTOR VESSEL NAME	TRAILER NO.	CUSTOMER	JOB LOCATION (PLANT OR FIELD)	WELL NAME OR JOB NAME
5002	6002	WPX	10/2/2017 14:02	RDX FED. COM 17 #46H

SPECIAL INSTRUCTIONS		LEAD
PLACARDS REQUIRED: TRUCK	TRAILER	PORTABLE TANK(S)

[illegible]

UNIT	DESCRIPTION	WEIGHT	UNIT	DESCRIPTION	WEIGHT
				<b>Total Weight</b>	<b>15631.00 LBS</b>

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN THE PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE U.S. DEPARTMENT OF TRANSPORTATION OR LOADED TO THE SATISFACTION OF THE CAPTAIN.	CERTIFIED BY (SIGNATURE) 
LOAD DATE AND TIME: _____	RETURN LOAD OPERATOR (SIGNATURE) _____
RETURN LOAD DATE: _____	
JOB SUPERVISOR: _____	

PAGE 1 OF 1

RDX-FED.COM 17 #46H

QUANTITY	RETURNED
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WDPX

Well Name RDX Fed Com 17#4614

Rig # Orion Phoenix 10

Tier #1	Tier #2	Tier #3	Tier #4
Lead	Lead	Lead	Lead
Type of Cement: PUC+Add's	Type of Cement: PUC+Add's	Type of Cement: PUC+Add's	Type of Cement: PUC+Add's
Trucks: 5002	Trucks: 5002	Trucks: 5005	Trucks: 5005
Trailers: 6002	Trailers: 6002	Trailers: 6005	Trailers: 6005
Sacks: 214	Sacks: 214	Sacks: 214	Sacks: 214
Date:	Date:	Date:	Date:
Driver:	Driver:	Driver:	Driver:

Customer: **WPX Energy**  
Well Name: **RDX Federal Com 17 #46H**  
County: **Eddy** State: **NM**  
Rig: **Orion Phoenix**  
Salesman: **Chris DeLeon**

MD: **11269**  
TVD: **10920**  
BHST: **167**  
BHCT: **131**

Report Date: **September 30 2017**  
Stage: **Lead**  
String: **2nd Intermediate**  
Blend Type: **Plant Blend**  
Reported By: **Salmon, Mari**

**Slurry Information**

Density: 11.20 ppg Yield: 2.68 cuft/sk Mix Fluid: 15.747 gal/sk

**Slurry Composition**

Cement Blend: PVL

Additive	Conc	%	Design	Description	Lot Number
PF-020	10.00%	%	BWOB	Bentonite Gel	Bulk
PF-060	8.00%	%	BWOB	FPZ Strength Enhancer	
PF-013	1.00%	%	BWOB	Retarder	MM02C-2752BK
PF-606	0.70%	%	BWOB	Fluid Loss	GS20121C01-26
PF-042	3.000	lb/sk	BWOB	KOLSEAL	Bulk
PF-045	0.400	lb/sk	BWOB	Defoamer	201304AC
PF-029	0.125	lb/sk	BWOB	Cellophane	

**Rheology (Average Readings)**

Temp	3	6	100	200	300	PV	YP
80 °F	1.5	1.5	6.5	10	15	12.75	2.25
131 °F	1.5	2.5	8.5	12.5	17	12.75	4.25

**Thickening Time**

Temp	POD	30 Bc	50 Bc	70 Bc	100 Bc	Batch Time
131 °F	6:28	6:54	7:17	7:34		0

Thickening Time does not include batch time.

**Free Fluid**

Temp	Incl.	ml Collected	Start Time	Stop Time
131 °F	0	0 ml/250	7:49	9:49

**Fluid Loss**

Temp	PSI	ml Collected	Minutes	API (Calc)
131 °F	1000	85 ml	At 30	170

**UCA Compressive Strength**

Temp	50 psi	500 psi	12 hr	24 hr	48 hr	72 hr
167	19:15	24:24	19	472		

**Comments**

The above data is for informational purposes, and Par Five Energy Services LLC makes no guarantees or warranties, either expressed or implied, with respect to the accuracy or use of these data and interpretations.

Customer: **WPX Energy**  
Well Name: **RDX Federal Com 17 #46H**  
County: **Eddy** State: **NM**  
Rig: **Orion Phoenix**  
Salesman: **Chris DeLeon**

MD: **11269**  
TVD: **10920**  
BHST: **167**  
BHCT: **131**

Report Date: **September 30 2017**  
Stage: **Tail**  
String: **2nd Intermediate**  
Blend Type: **Plant Blend**  
Reported By: **Salmon, Mari**

**Slurry Information**

Density: 15.60 ppg Yield: 1.18 cuft/sk Mix Fluid: 5.214 gal/sk

**Slurry Composition**

Cement Blend: **Class H**

Additive	Conc	Design	Description	Lot Number
PF-013	0.30% %	BWOB	Retarder	MM02C-2752BK

**Rheology (Average Readings)**

Temp	3	6	100	200	300	PV	YP
80 °F	1.5	1.5	7.5	15.5	19	17.25	1.75
131 °F	24.5	39.5	133.5	141.5	146	18.75	127.25

**Thickening Time**

Temp	POD	30 Bc	50 Bc	70 Bc	100 Bc	Batch Time
131 °F	3:29	3:30	3:39	3:45		0

Thickening Time does not include batch time.

**Free Fluid**

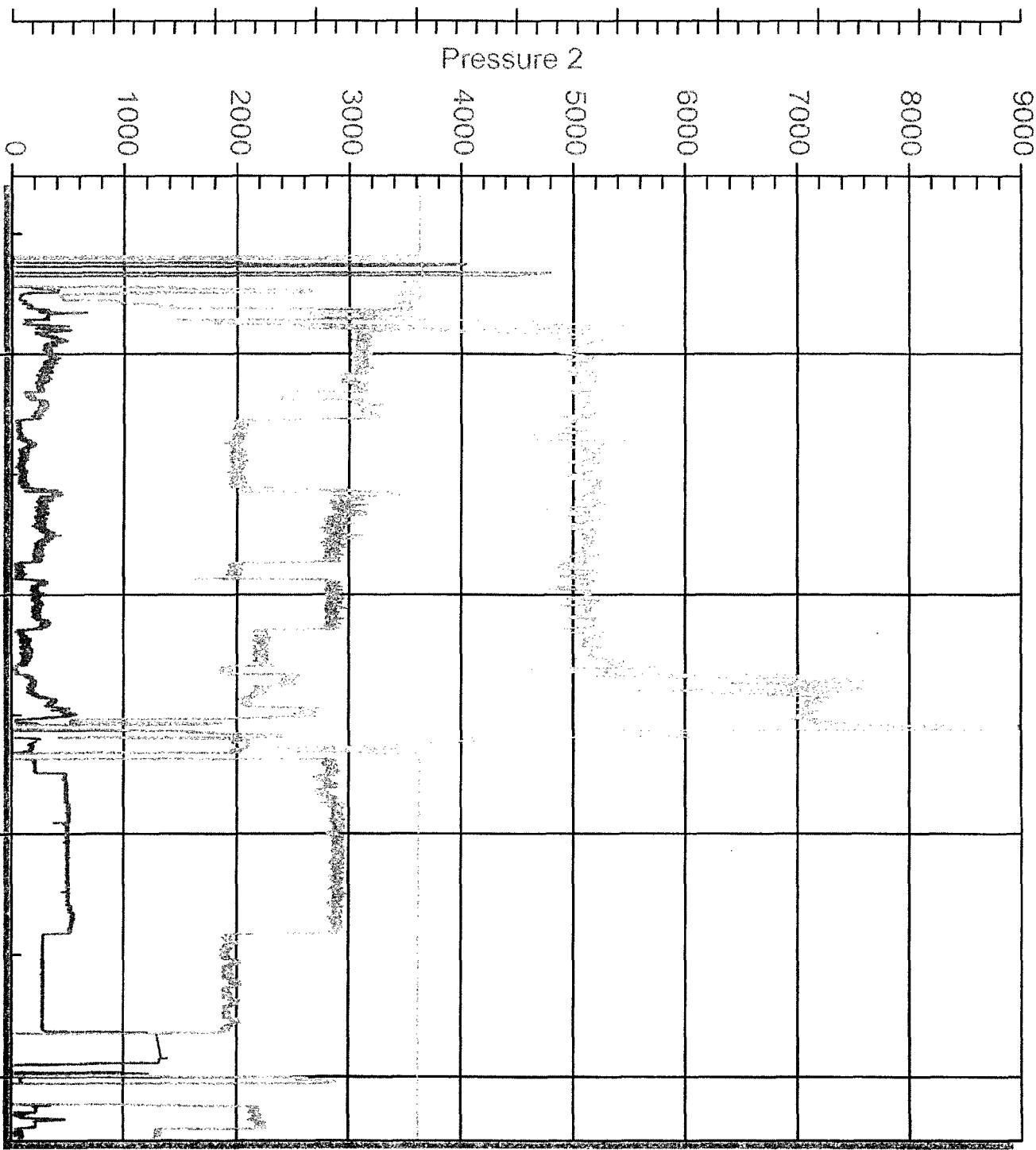
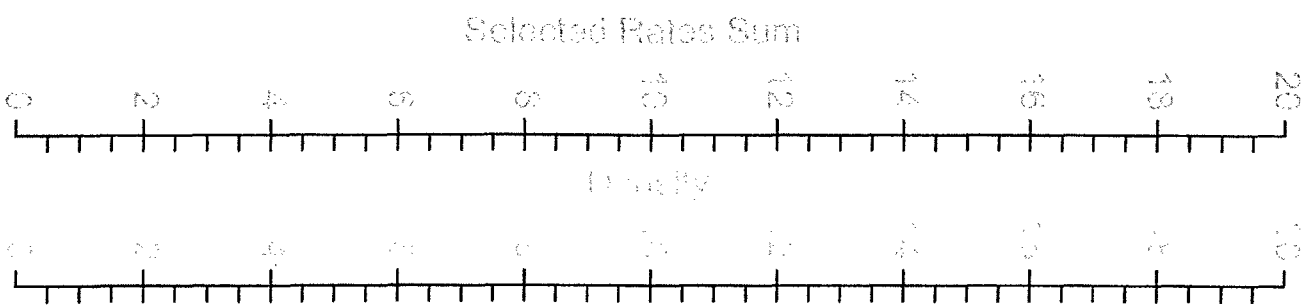
Temp	Incl.	ml Collected	Start Time	Stop Time
131 °F	0	0 ml/250	7:53	8:53

**UCA Compressive Strength**

Temp	50 psi	500 psi	12 hr	24 hr	48 hr	72 hr
167	10:55	12:13	385	2806		

**Comments**

WPX-RD-FED-COM-17-46H-DEEPI-INTERMEDIATE



5 Thu Oct 2017

Date / Time