

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

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.**

5. Lease Serial No.
NMNM030752

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other SWD

2. Name of Operator
RAY WESTALL OPERATING, INC.

3a. Address
P.O. BOX 4 LOCO HILLS, NM 88255

3b. Phone No. (include area code)
575-677-2370

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SECTION 27, TOWNSHIP 18S, RANGE 29 EAST, N.M.P.M. UL - H, 1650' FNL AND 660' FEL

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.
EMPIRE A FEDERAL # 2

9. API Well No.
30-015-29618

10. Field and Pool or Exploratory Area
SWD; WOLFCAMP / CANYON

11. Country or Parish, State
EDDY COUNTY, NEW MEXICO

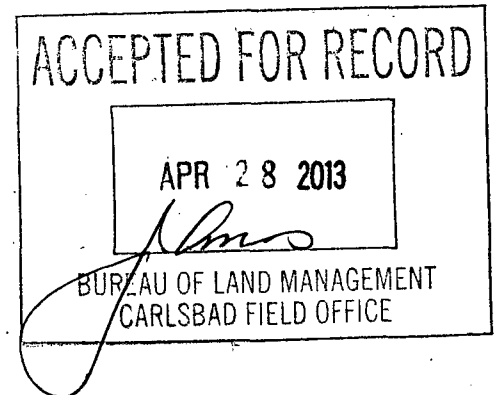
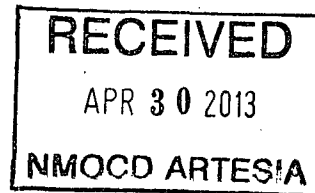
12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

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"/> Fracture Treat	<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 type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" 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 recompleate 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 recompleation 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 SEE ATTACHED

Accepted for record
NMOC



14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)
RENE HOPE

Title BOOKKEEPER

Signature

Rene Hope

Date 03/28/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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)

EMPIRE A FEDERAL # 2

02/27/13 – MOVE IN RIG UP PULLING UNIT. COME OUT OF HOLE WITH TUBING AND PACKER. LAY DOWN 2 3/8 TUBING.

02/28/13 – GO IN HOLE WITH 2 7/8 WORK STRING FROM RACKS AND C.I.B.P. NOTIFIED PAUL SWARTZ WITH BLM. HE SAID WE COULD SET C.I.B.P. AND HE WOULD VERIFY WHEN HE CAME TO LOCATION ON 03/01/13 TO SPOT CEMENT PLUG. WE SET C.I.B.P AT 11124'. SHUT DOWN

03/01/13 – TAG C.I.B.P. AT 11124'. WITNESSED AND TUBING TALLY VERIFIED BY PAUL SWARTZ/BLM. SPOT CEMENT PLUG FROM 11124' TO 10686'. SEE ATTACHED. WITNESSED SPOTTING OF PLUGS BY PAUL SWARTZ/BLM. COME OUT OF HOLE. SHUT DOWN. W.O.C.

03/04/13 – PERFORATE SQUEEZE HOLES (4) AT 9960' (JUST ABOVE T.O.C). TAGGED CEMENT AT 10578' WITH WIRELINE. GO IN HOLE WITH RETAINER AND TUBING, SET RETAINER AT 9932', SHUT DOWN.

03/05/13 – RIG UP PAR FIVE TO CEMENT SQUEEZE ANNULUS OF 5 1/2 " CASING.SEE ATTACHED. COME OUT OF HOLE WITH TUBING, SHUT DOWN.

03/06/13 – WORK ON CEMENT.

03/07/13 – RIG UP JARREL SERVICES TO RUN CBL. TAGGED CEMENT AT 9917' RAN CBL (COPY SENT TO BLM ATTN: PAUL SWARTZ) ESTIMATED TOP OF CEMENT AT 4274'. GO IN HOLE TO PERFORATE 9882-95 (52 HOLES), 9755-68 (52 HOLES), 9732-40 (32 HOLES), 9615-32 (68 HOLES), 9270-80 (40 HOLES), 9230-40 (40 HOLES), 9132-42 (40 HOLES), 9091-9107 (64 HOLES). GO IN HOLE WITH TUBING. RBP AND PACKER. SHUT DOWN.

03/08/13 – SET RBP AT 9914' – PACKER AT 8993'. START SWABBING, SWAB WELL DRY TO S.N. IN 12 RUNS. WAIT 1 HOUR, HOLD 200' FLUID ENTRY – ALL WATER – NO GAS OR OIL. WAIT 1 HOUR, HAD 200' FLUID ENTRY – ALL WATER – NO OIL OR GAS. SHUT DOWN.

03/11/13 – RIG UP ELITE WELL SERVICES TO ACIDIZE PERFS WITH 20,000 GALLONS 15% NEFE ACID. HAD TUBING LEAK. COME OUT OF HOLE, FOUND BAD COLLAR ON TUBING. SHUT DOWN.

03/12/13 – GO IN HOLE WITH TUBING AND PACKER TO 8993'. ACIDIZE WELL. AUG RATE 5.3 BPM AT 3730 PSI. ISDP 2963 PSI.

03/13/13 – FLOW DOWN, COME OUT OF HOLE WITH TUBING, PACKER AND RBP. LAY DOWN WORK STRING. SHUT DOWN.

03/14/13 – GO IN HOLE WITH PACKER, PROFILE NIPPLE, ON-OFF TOOL AND I.P.C (SALTA LINED) TUBING. SET PACKER AT 9029' (TOP PERF AT 9091') PUMP 2% KCL FLUID WITH PACKER FLUID.

EMPIRE A FEDERAL # 2 CONTINUED

03/14/13 - PRESSURE ANNULUS TO 500 PSI – HELD OK. FLANGE UP WELL HEAD. RIG DOWN PULLING UNIT, MOVE OFF WELL.

03/22/13 – CALLED PAUL SWARTZ WITH BLM TO SCHEDULE M.I.T ON 03/26/13.

03/26/13 – PERFORM M.I.T. TEST ON WELL. PRESSURE TESTED ANNULUS TO 500 PSI – HELD OK. TEST WITNESSED BY PAUL SWARTZ WITH BLM. COPY OF CHART RECORDING ATTACHED. WELL READY TO START INJECTING.

Date: 3/14/2013

Lea County Packers

Ray Westall

Empire A Fed Com #2

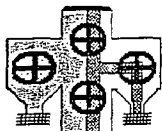
Eddy, N. Mex.

March 14, 2013

Company Rep. Danny
Tool Specialist Rene Juarez

Office Hobbs

SAP No.



Installation					
Length	Depth	Description		OD	ID
9,012.51	9,012.51	279 Jts, 2 7/8" 6.5# Tubing			
12.00	9,024.51	K.B. Correction			
(3.56)	9,020.95 9,020.95	Length of Compression			
1.71	9,022.66	2 7/8" On/Off Tool w/2.25 F Profile			
6.99	9,029.65	Nickel Plated Arrowset Packer 1X 2 7/8" X 5 1/2" 17.# Set W/ 15,000 Compression			
9,091.00		Perforations 9091'			
9,895.00		Perforations 9895'			

Filename:

B-141

DESIGN – EXECUTE – EVALUATE – REPORT

SQUEEZE

RAY WESTALL OPERATING

**EMPIRE A FED #2
EDDY COUNTY, NEW MEXICO**

Prepared By: DAVID D BRAY

FIELD SPECIALIST

ARTESIA DISTRICT

3-5-2013

Cementing Service Report

WELL NAME AND NO.: EMPIRE A FED #2		LOCATION(LEAGAL)		RIG NAME:							
FIELD/		FORMATION		PO#		WELL DATA:		BOTTOM		TOP	
COUNTY/PARISH: EDDY		STATE: NM		AFE. NO		BIT SIZE		CSG/Liner Size		5 1/2	
						T.D.		WEIGHT		17#	
						ROT		CABLE		FOOTAGE	
								GRADE		J-55	
						MUD TYPE		THREAD			
NAME: RAY WESTAL OPERATING INC						MUD DENSITY		LESS FOOTAGE SHOE JOINT(S)			
AND						MUD VISC		Disp. Capacity		57.5	
ADDRESS -						NOTE: Include Footage From Ground Level To Head In Disp. Capacity				TOTAL	
ZIP CODE						FLOAT		TYPE		Insert	
SPECIAL INSTRUCTIONS						DEPTH					
SQUEEZE						SHOE		TYPE		Guide	
						DEPTH					
						TBG		D.P.		SQUEEZE JOB	
IS CASING/TUBING SECURED? YES NO						SIZE: 2.875				TOOL	
						WEIGHT: 6.5				TYPE: RETAINER	
										DEPTH: 9633	
LIFT PRESSURE PSI		CASING WEIGHT ÷ SURFACE AREA (3.14 X R ²)				GRADE: J-55		TAIL PIPE: SIZE		DEPTH	
PRESSURE LIMIT PSI						THREAD		TUBING VOLUME		57.5 Bbls	
BUMP PLUG TO +/- 500 PSI						NEW USED X		CASING VOL. BELOW TOOL		.6 Bbls	
						DEPTH: 9933		TOTAL		58 Bbls	
								ANNUAL VOLUME		151 Bbls	

TIME 0001 TO 2400	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			TIME	ARRIVED ON LOCATION		LEFT LOCATION	
	TBG ORD.P.	CASING	INCREMENT	CUM	INJET RATE	FLUID TYPE	FLUID DENSITY	TIME: 07:00	DATE: 3-5-2013	TIME: 13:00	DATE: 3-5-2013	
									SERVICE LOGE DETAIL			
7:00									ON LOC RIG UP ON GROUND			
8:00	XXX								SAFETY MEETING,START JOB			
8:16	XXX	5200	0.5		0.5	F/W	8.34		TEST LINES			
8:18	XXX	800	20		2.5	F/W	8.34		MUD PUSH			
8:40	XXX	800	10		2.5	F/W	8.34		WATER SPACER			
8:50	XXX	0	201		2.5	CMT	12.9		LEAD CEMENT			
10:18	XXX	0	21		3	CMT	15.6		TAIL CEMENT			
10:29	XXX	800	57.5		3	F/W	8.34		DISPLACEMENT			
10:55	XXX				0	F/W	8.34		SHUT DOWN			
11:06	XXX	1100	120		3.5	F/W	8.34		REVERSE OUT			
	XXX											
	XXX											
	XXX											
	XXX											
	XXX											
	XXX											
	XXX								THANK YOU FOR USING PAR FIVE SERVICES!!!!			

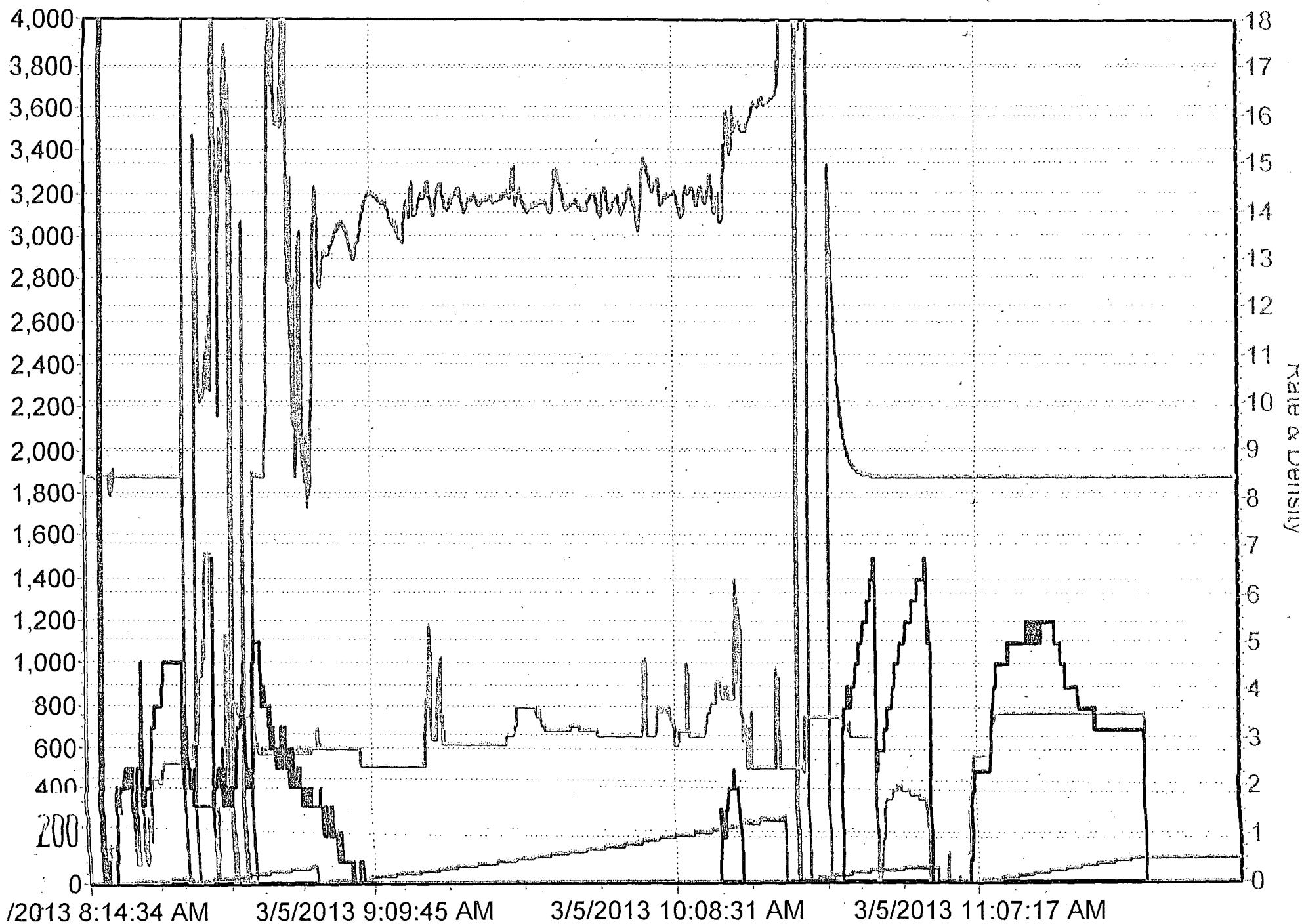
REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS	SLURRY MIXED	
				BBLS	DENSITY
1	600	1.89	35/65 POZ/H + 5%PF44 + 6%PF20 + 0.3%PF13 + 0.125ppsPF29 + 0.25ppsPF46	202	12.9
2	100	1.18	H + 0.3%PF13	21	15.6
3					
4			200# SUGAR		
5			20 BBLS PF827		
6					

BREAKDOWN FLUID TYPE				VOLUME		DENSITY		PRESSURE	500	MAX.	0	MIN.				
-HESITATION SQ.				RUNNING SQ.		CIRCULATION LOST		YES	NO		Cement Circulated To Surf.		Yes	No		
BREAKDOWN		PSI		FINAL		PSI						TYPE OF WELL		OIL	STORAGE	BRINE WATER
Washed Thru Perfs		Yes	No	TO		FT.		MEASURED DISPLACEMENT		WIRELINE				GAS	INJECTION	WILDCAT
PERFORATIONS						CUSTOMER REPRESENTATIVE										
TO				TO												
TO				TO		DONNIE MATHS						DAVID D BRAY				

M/D TOTCO 2000 SERIES

— Density — Total Rate — Total Volume — Total Pressure



DESIGN – EXECUTE – EVALUATE – REPORT

PLUGGING

**RAY WEASTALL OPERATION.INC
EMPIRE A FEDERAL#2
EDDY COUNTY, NM**

**Prepared By: Anthony Granados
, And Robert Nunez**

FIELD SPECIALIST

ARTESIA DISTRICT

3/1/2013

P&F FIVE

ENERGY SERVICES LLC

Cementing Service Report

Treatment Number 2300	Date 3-1-13
APL NO	

WELL NAME AND NO. EMPIRE A FEDERAL #2	LOCATION (LEGAL)	WELL DATA:																																																						
FIELD/PO-OL	FORMATION	<table border="1" style="width: 100%;"> <tr> <td colspan="2"></td> <td colspan="2">BOTTOM</td> <td colspan="2">TOP</td> </tr> <tr> <td>BIT SIZE</td> <td>CSG/Liner Size</td> <td>2 7/8</td> <td>5 1/2</td> <td></td> <td></td> </tr> <tr> <td>TOTAL DEPTH</td> <td>WEIGHT</td> <td></td> <td>17</td> <td></td> <td></td> </tr> <tr> <td>ROT CABLE</td> <td>FOOTAGE</td> <td>11,120</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>GRADE</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MUD TYPE</td> <td>THREAD</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MUD DENSITY</td> <td>LESS FOOTAGE SHOE JOINT(S)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MUD VISC</td> <td>Disp. Capacity</td> <td>60</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2"></td> <td colspan="4" style="text-align: right;">TOTAL 60</td> </tr> </table>			BOTTOM		TOP		BIT SIZE	CSG/Liner Size	2 7/8	5 1/2			TOTAL DEPTH	WEIGHT		17			ROT CABLE	FOOTAGE	11,120					GRADE					MUD TYPE	THREAD					MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)					MUD VISC	Disp. Capacity	60						TOTAL 60			
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AND	NOTE: Include Footage From Ground Level To Head In Disp. Capacity																															
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TIME TO 2400	THG OR D.P.	CASING	INCREMENT	CUM	INJET RATE	FLUID TYPE	FLUID DENSITY	JOB SCHEDULED FOR 8:00 AM DATE 3-1-13	TIME	ARRIVED ON LOCATION TIME: 8:00AM DATE: 3-1-13	LEFT LOCATION TIME: 12:00 DATE: 3-1-13
SERVICE LOGE DETAIL											
PRE-JOB SAFETY MEETING											
8:14	2000	XXX				FW	8.33	PRESSURE TEST LINS			
						FW	8.33				
8:15	500	XXX				FW	8.33	500 PSI TUBING			
8:15	1000	XXX			2	FW	8.33	PUMP 120 BBLS FW			
9:18	1452	XXX		120		FW	8.33	END 120 BBLS FW			
9:18	660	XXX				CMT	15.6	START 15.6 CMT			
9:27	500	XXX		12	2	CMT	15.6	END 15.6 CMT			
9:27	486	XXX				FW	8.33	START FW DISP			
9:52	624	XXX		59	2	FW	8.33	END FW DISP			
10:30	500	XXX				FW	8.33	RV CIR 110 BBLS			
11:00	782	XXX				FW	8.33	END RV CIR 2 BBLS = 9 SKS			

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			H+1%PF65+.3%PF13				BBLS	DENSITY
1	60	1.18					12	15.6
2								
3								
4								
5								
6								

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX.	MIN.
HESITATION SQ.	RUNNING SQ.		Cement Circulated To Surf.	Yes xx No	
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL	Bbls.
Washed Thru Perfs	Yes No	TO	FT.	MEASURED DISPLACEMENT	WIRELINE
PERFORATIONS			CUSTOMER REPRESENTATIVE		
TO			ANTHONY GRANADOS		
TO					

Customer: Ray Westall Operating, Inc
Well Name: Empire A Federal #2
County: Eddy State: NM
Rig:
Requested By: Chris DeLeon

MD: 11124
TVD: 11124
BHST: 169
BHCT: 133

Report Date: March 01 2013
Stage: Plug
String: Plug
Blend Type: Field Blend
Reported By:

Slurry Information

Density: 15.60 ppg

Yield: 1.18 cuft/sk

Mix Fluid: 5.216 gal/sk

Slurry Composition

Cement Blend: Class H

PF-065 0.10% BWOB Cement Dispersant 04110
PF-013 0.30% % BWOB Cement Retarder MM01C-2152B

Rheology (Average Readings)

Temp	3	6	100	200	300	PV	YP
80 °F	3.5	4	15.5	26	39	35.25	3.75
169 °F	12	16.5	28	35	40	18	22

Thickening Time

POD	30 Bc	50 Bc	70 Bc	100 Bc		Batch Time
3:47	3:58	4:08	4:14			0

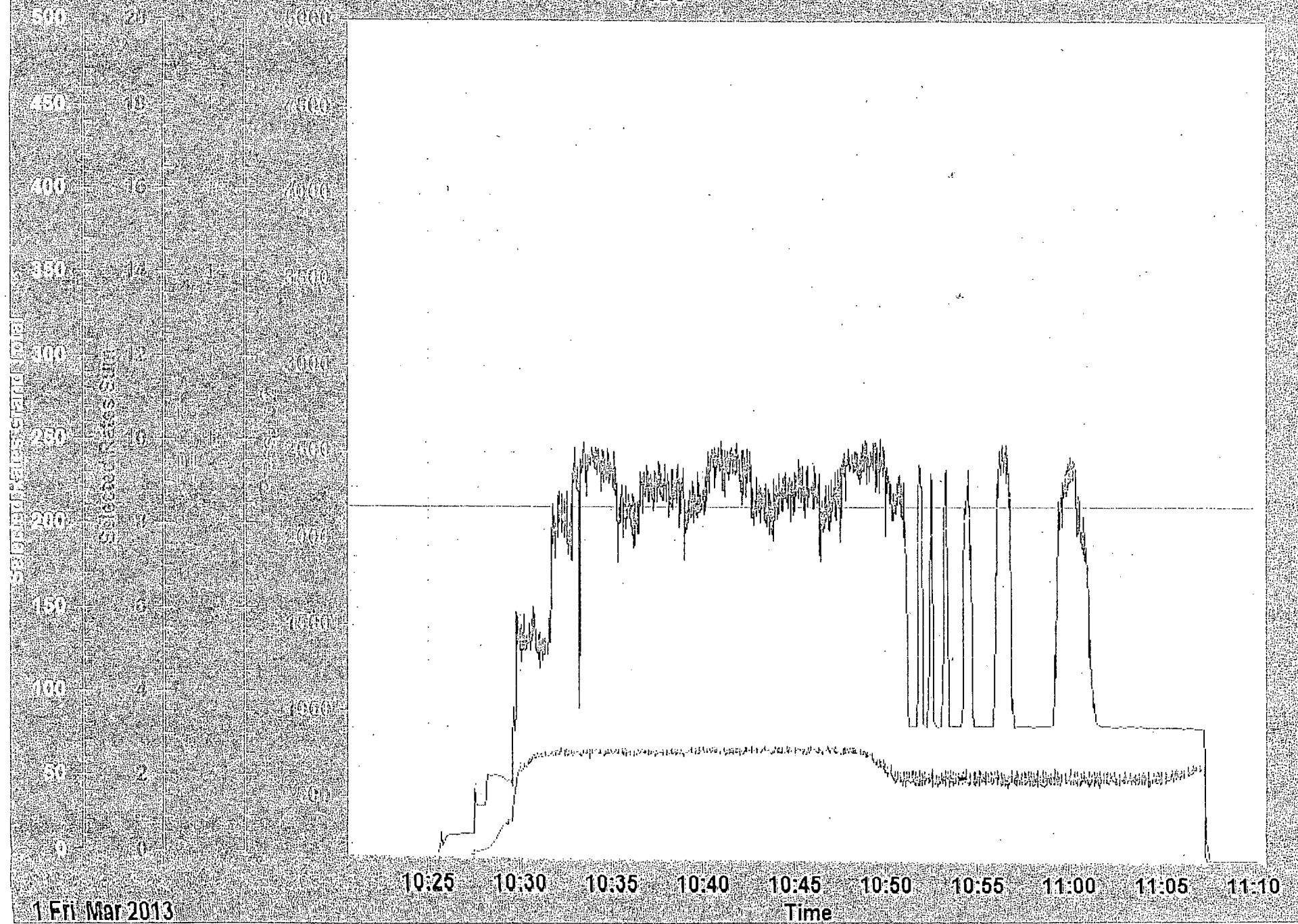
Thickening Time does not include batch time.

Free Fluid

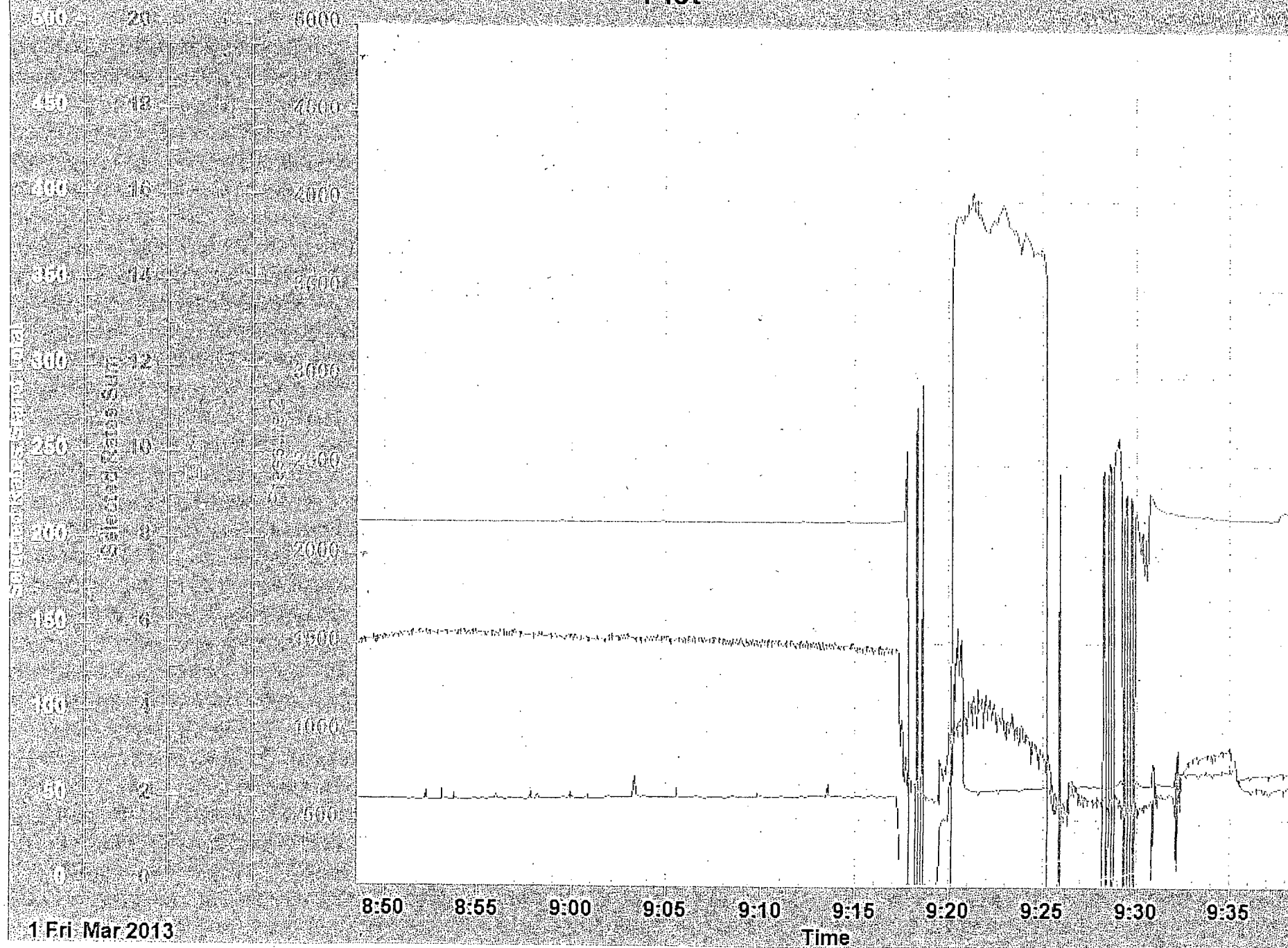
Temp	Incl.	ml Collected	Start Time	Stop Time
169 °F	0	2 ml/250	7:45	9:45

Comments

Plot



Plot



1 Fri Mar 2013

Date of Job: 02/28/2013		District: Artesia		New Well / Old Well: Old Well					
Customer: Ray Westall Operating, Inc				Well #: Empire A Federal #2					
Address:		County: Eddy		State: New Mexico					
City:	State:	Field:		API#:					
Zip Code:		On Road Miles:		Off Road Miles:					
Contact Person/Companyman: Donnie				Salesman: Chris DeLeon					
Contact Number:				Service Supervisor: Anthony Granados					
Rig Contractor:		Tractor:		Trailer:					
Rig Number:				Equipment Operators: Anthony Granados David Ramos David Chavarria Jose Reyes					
Head & Manifold: Plug									
Job Type: Plugging									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">Sks/Gals.</th> <th style="width: 85%;">Cement Type/Additives</th> </tr> <tr> <td>60.00 sks</td> <td>Class H, per cu. ft. (94lb/cu ft)</td> </tr> <tr> <td>17.00 LB</td> <td>PF13 Retarder, per lb</td> </tr> <tr> <td>5.00 LB</td> <td>PF65 TIC Dispersant, per lb</td> </tr> </table>						Sks/Gals.	Cement Type/Additives	60.00 sks	Class H, per cu. ft. (94lb/cu ft)
Sks/Gals.	Cement Type/Additives								
60.00 sks	Class H, per cu. ft. (94lb/cu ft)								
17.00 LB	PF13 Retarder, per lb								
5.00 LB	PF65 TIC Dispersant, per lb								

Description	Quantity	List Price	Extended Price	Discount %	Net Amount
DOT Conformance Charge, per unit*	2.00	325.00	650.00	25	487.50
Fuel Used On Location*	2.00	425.00	850.00	25	637.50
Mileage Charge, all other equipment, per mile*	34.00	6.00	204.00	25	153.00
Cars, pickups, monitoring vehicles round trip*	34.00	4.00	136.00	25	102.00
PF-999 - Sugar*	125.00	4.00	500.00	25	375.00
P & A - 11001' - 12000**	1.00	11,100.00	11,100.00	25	8,325.00
Bulk Unit, per hr on location*	4.00	150.00	600.00	25	450.00
High Pressure Integral Swage, Rental, per job*	1.00	100.00	100.00	25	75.00
Plug Valve Rental, per day*	1.00	250.00	250.00	25	187.50
Delivery Charge - Ton mileage, per ton mile*	49.00	1.75	85.75	25	64.31
Service Charges - Land jobs*	62.00	2.00	124.00	25	93.00
Class H, per cu. ft. (94lb/cu ft)	61.00	26.50	1,616.50	25	1,212.38
PF13 Retarder, per lb	17.00	4.00	68.00	25	51.00
PF65 TIC Dispersant, per lb	6.00	7.00	42.00	25	31.50
Job Total					12,244.69

Ticket Notes

Cement Recipe
 60 Sks H + .1% PF65 + .3% PF13

CONTRACT CONDITIONS: (This agreement must be signed before work is commenced).

The undersigned, as authorized agent of the customer, agrees and acknowledges that the services, materials, products and supplies provided for this order shall be subject to the terms and conditions attached including indemnity and waiver of warranty provisions. No additional terms and conditions shall apply to this

Signed X _____ Well Owner, Operator, or Agent

Terms-Net
 Payable on Receipt
 Over 30Days, Discount Voids

Signature:

Donnie Westall

Emissions Regulation:

PO#:

