

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCDD 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.

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

1. Type of Well

Oil Well Gas Well Other SWD

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

2. Name of Operator
RAY WESTALL OPERATING, INC.

9. API Well No.
30-015-29618

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

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

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

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

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 recomplate 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 recomplate 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

RDade 5/1/2013
ACCEPTED FOR RECORD
NMOCD

RECEIVED
APR 30 2013
NMOCD ARTESIA

ACCEPTED FOR RECORD
APR 28 2013
[Signature]
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

14. I hereby certify that the foregoing is true and correct.
Name (Printed/Typed)

RENE HOPE

Title BOOKKEEPER

Signature

[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.

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

Company Rep. Danny

Empire A Fed Com #2

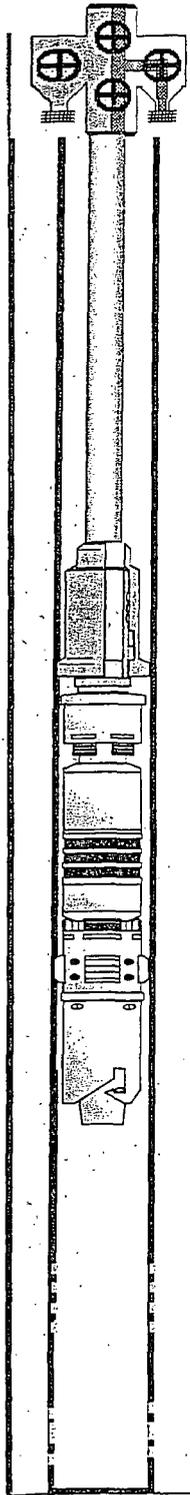
Tool Specialist Rene Juarez

Eddy, N. Mex.

Office Hobbs

March 14, 2013

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.M

DESIGN – EXECUTE – EVALUATE – REPORT

SQUEEZE

RAY WESTALL OPERATING

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

Prepared By: DAVID D BRAY

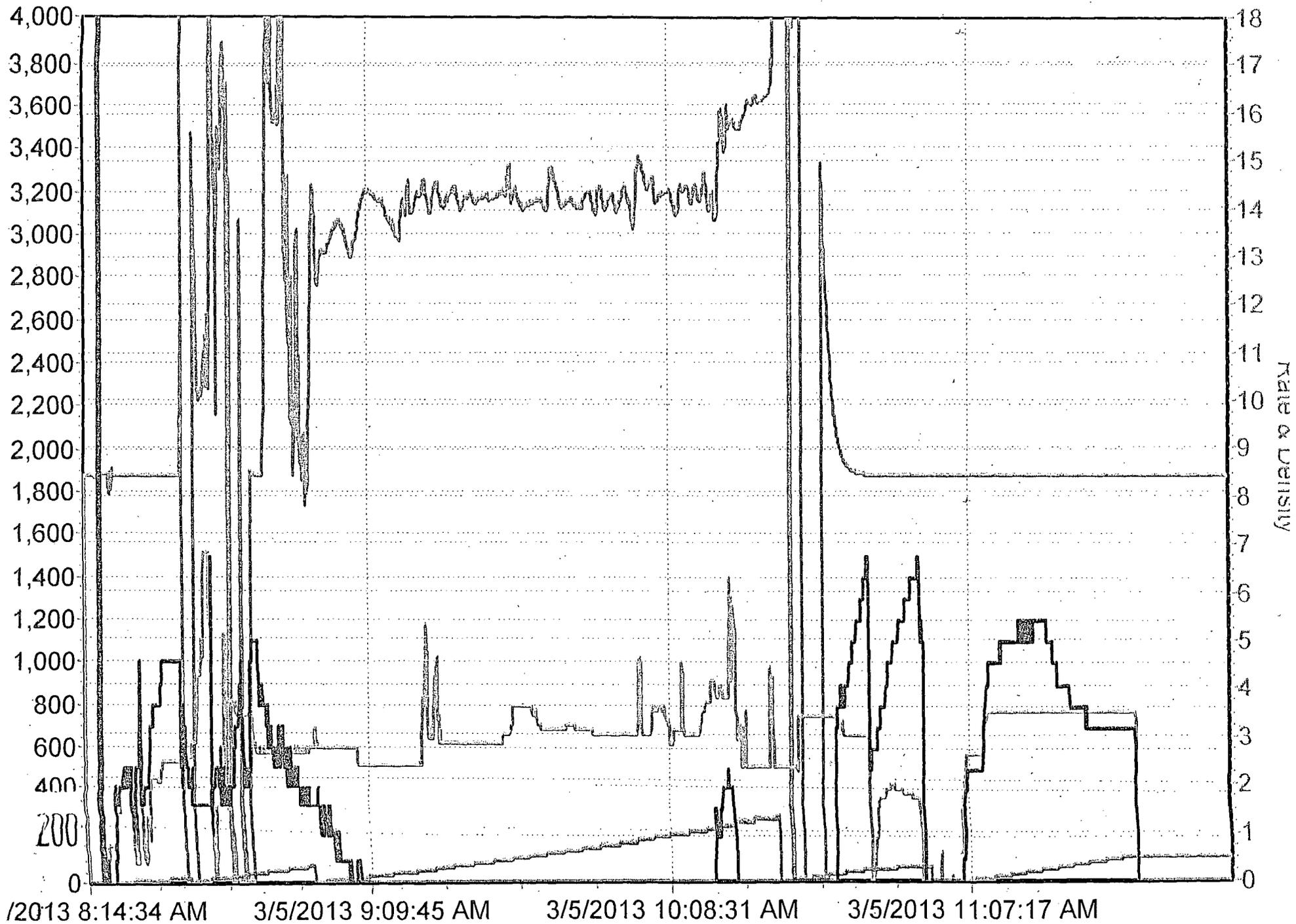
FIELD SPECIALIST

ARTESIA DISTRICT

3-5-2013

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

PAZ FIVE ENERGY SERVICES LLC

Treatment Number 2300	Date 3-1-13
API. NO	

Cementing Service Report

WELL NAME AND NO. EMPIRE A FEDERAL #2	LOCATION(LEAGAL)	WELL DATA:			
FIELD/PO-OL	FORMATION	PO#	BOTTOM		TOP
COUNTY/PARISH EDDY	STATE NM	AFE. NO	BIT SIZE	CSG/Liner Size	2 7/8 5 1/2
NAME RAY V. EASTAL OPERATING, INC			TOTAL DEPTH	WEIGHT	17
AND			ROT CABLE	FOOTAGE	11,120
ADDRESS			GRADE		
ZIP CODE			MUD TYPE	THREAD	
SPECIAL INSTRUCTIONS			MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	
SET PLUG AS PER-COMPANY REP			MUD VISC	Disp. Capacity	60
IS CASING/TUBING SECURED? YES XX NO			NOTE: Include Footage From Ground Level To Head In Disp. Capacity		
LIFT PRESSURE PSI			SIZE	SQUEEZE JOB	
PRESSURE LIMIT PSI			WEIGHT	TOOL	TYPE squeeze
BUMP PLUG TO PSI			GRADE	DEPTH	
No. of Centralizers			THREAD	DEPTH	
ARRIVED ON LOCATION TIME: 8:00AM DATE: 3-1-13			NEW USED	CASING VOL. BELOW TOOL Bbls	
LEFT LOCATION TIME: 12:00 DATE: 3-1-13			DEPTH	TOTAL Bbls	
ANNUAL VOLUME Bbls					

TIME TO 2400	PRESSURE		VOLUME PUMPED bbl		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
	TBG OR D.P.	CASING	INCREMENT	CUM				
8:14	2000	XXX					8:33	PRE-JOB SAFETY MEETING
							8:33	PERSURE TEST LINS
8:15	500	XXX					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	H+1%PF65+3%PF13				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	TO		CUSTOMER REPRESENTATIVE		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	<input type="checkbox"/>	Batch Time
3:47	3:58	4:08	4:14			0

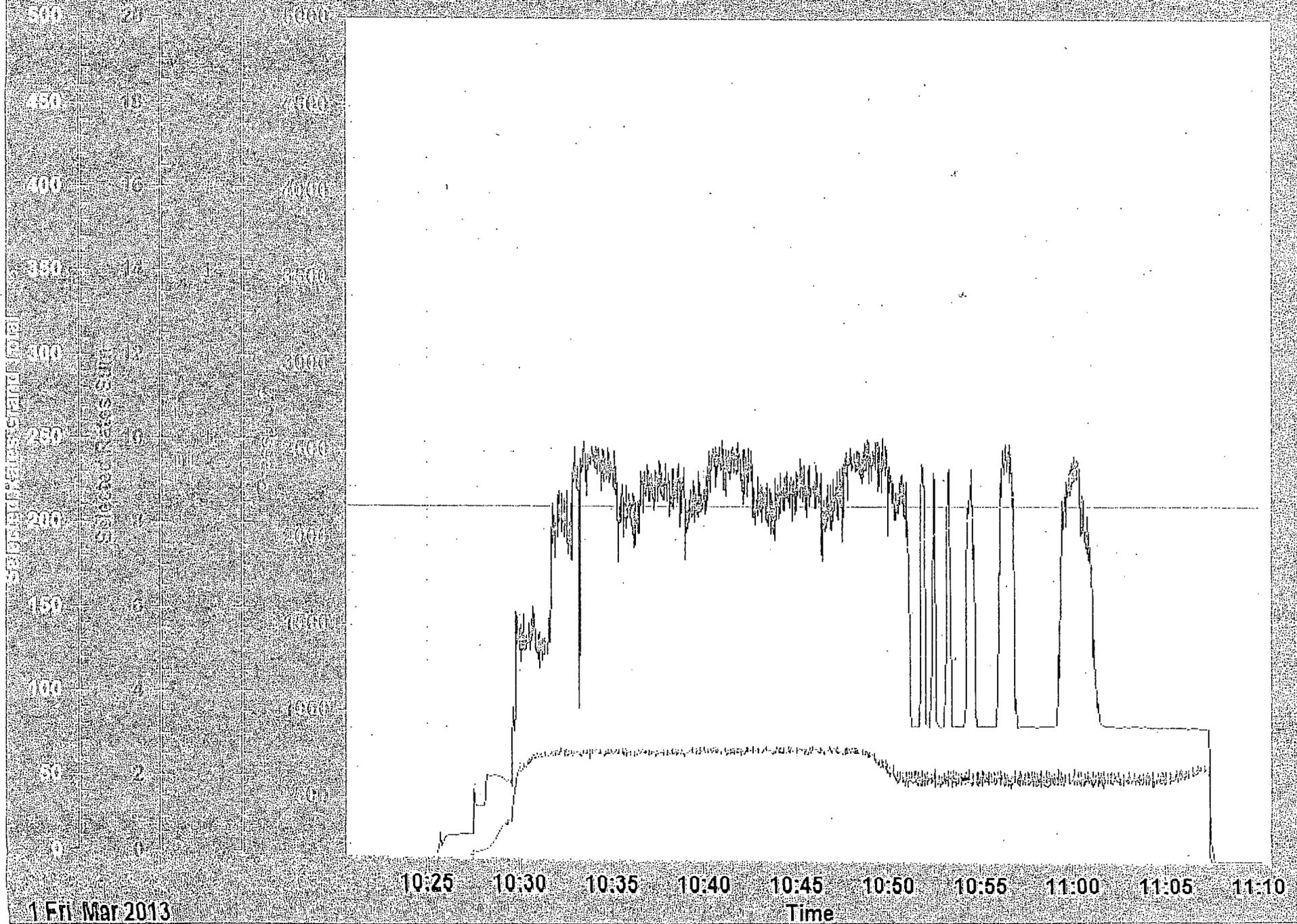
Thickening Time does not include batch time.

Free Fluid

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

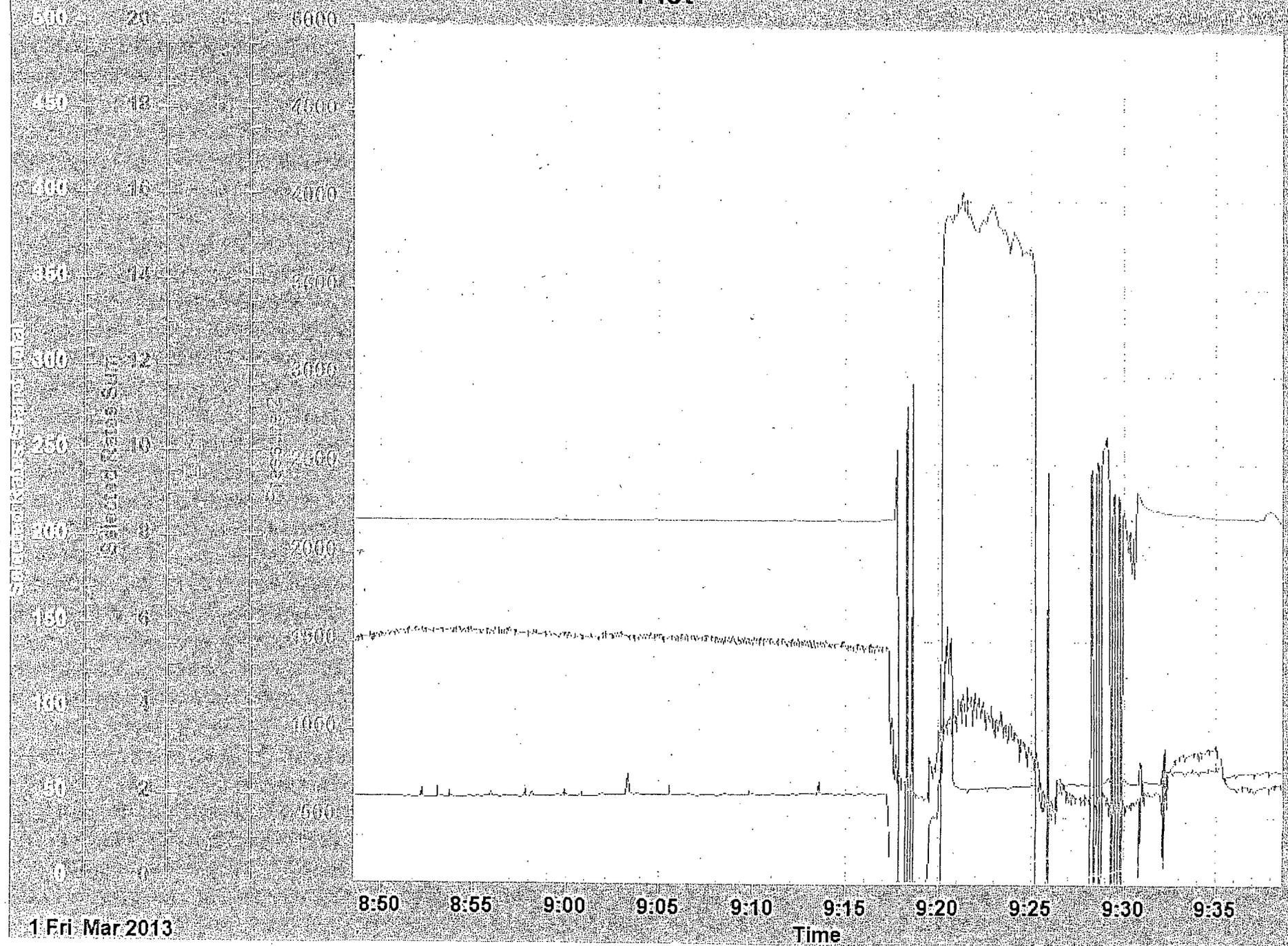
Comments

Plot



1 Fri Mar 2013

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:	Equipment Operators:	
Rig Number:				Anthony Granados	
Head & Manifold: Plug				David Ramos	
Job Type: Plugging				David Chavarria	
				Jose Reyes	
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

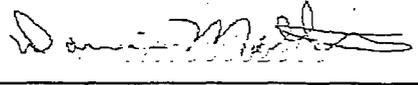
Ticket Notes
Cement Recipe 60 Sks H + .1% PF65 + .3% PF13

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: 

Emissions Regulation:

PO#:

