Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised August 1, 2011

WELL API NO.
30-015-02649

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
E-7179

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
WEST ARTESIA GRAYBURG UNIT

1. Type of Well: Oil Well ☐ Gas Well ☐ Other Injection Well ☒

8. Well Number 012

2. Name of Operator
Alamo Permian Resources. LLC

9. OGRID Number
274841

3. Address of Operator
415 W. Wall Street, Suite 500, Midland, TX 79701

10. Pool name or Wildcat
Artesia; Queen-Grayburg-San Andres

4. Well Location
Unit Letter L : 1650 feet from the S line and 990 feet from the W line
Section 8 Township 18S Range 28E NMPM County EDDY

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
OTHER: CLEAN OUT, ADD PERFS, ACIDIZE ☒		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

SEE ATTACHED

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 19 2014
RECEIVED

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Carie Stoker TITLE **Regulatory Affairs Coordinator** DATE 09/15/2014

Type or print name **CARIE STOKER** E-mail address: **carie@stokeroilfield.com** PHONE: **432.664.7659**

APPROVED BY: [signature] TITLE Dist II Supervisor DATE 9-25-2014
Conditions of Approval (if any):

ALAMO PERMIAN RESOURCES, LLC

WAGU #012 WIW -- CLEAN-OUT, ADD PERFS, & ACIDIZE PROCEDURE

1. MIRU PU & BOP's. Be sure well is dead and blown down. Flow well back to WAGU Water Station inlet tank to flow well down prior to workover.

2. Unseat tension Injection Packer (probably Model AD-1) set in well during last workover at 1,901' on 2-3/8" 4.7# J-55 IPC injection tubing string. Do not have amount of tension used to set packer.

3. POOH with 2-3/8" 4.7# J-55 IPC internally-coated injection tubing and 5-1/2"x2-3/8" tension injection packer and internally-coated injection tubing string. Visually inspect tubing, & injection packer while coming out of hole. Send Injection Packer in for Repair/Replacement depending on condition.

   Have 2-3/8" workstring on location – DO NOT USE internally-coated tubing string from well as workstring during workover.

4. Run in hole with 4-3/4" mill tooth skirted rock bit and 5-1/2" rotating casing scraper on 2-3/8" workstring and clean out wellbore to PBTD at approximately 2,273'.

   Catch samples of any material recovered from well and send to Tech Management for chemical analysis. Note any bridges or hard streaks in report. While at TD, circulate hole clean using clean produced water from WAGU Water Injection Station. POOH with bit & scraper.

   REMEMBER: Paraffin has been encountered in offset WAGU wells. If excessive paraffin is encountered, either pour 10 gal diesel down tubing and cut paraffin from tubing string with paraffin knife – pouring additional 5 gal diesel down tubing every knife run; or circulate well with hot water and paraffin solvent chemicals to clean paraffin out of tubing string and casing. Paraffin, iron sulfide, sand, rust, and scale have been recovered in WAGU wells while cleaning out to bottom.

5. **Current Perforations:** 2,114' – 2,253' (139' Overall interval) – 22' of perforations (88 holes).
   Planned New Perforations: 1,968' – 2,253' (285' Overall interval) – 159' of perforations (318 holes).
   Total Perfs after W/O: 1,968'- 2,253' (285' Overall Interval) – 159' of perforations (406 holes).

   See Wellbore Diagram for perforations detail – updated 05/21/2014.

6. RU Logging Company and run GRN/CCL log for perforating correlation from PBTD to base of Surface Casing at 441'. Have log emailed in to Pat Seale (pseale@alamoresources.com) and Tom Fekete (jordanrubicon@msn.com) upon completion of logging, in order for correlation of GRN/CCL log to original open-hole log run in well for perforating.

7. Perforate the WAGU #012 WIW well over the following **18 intervals** using 3-1/8" Hollow-Carrier slick perforating guns with 19-grain charges:

Interval No.	Perf Interval Top	Bottom	No. of Ft	SPF	No. of Perfs
1	1,968'	1,980'	12'	2	24
2	1,986'	1,990'	4'	2	8
3	1,996'	2,000'	4'	2	8
4	2,004'	2,008'	4'	2	8
5	2,010'	2,024'	14'	2	28
6	2,036'	2,042'	6'	2	12
7	2,050'	2,057'	7'	2	14
8	2,070'	2,087'	17'	2	34
9	2,094'	2,104'	10'	2	20
10	2,110'	2,120'	10'	2	20
11	2,130'	2,152'	22'	2	44
12	2,160'	2,166'	6'	2	12
13	2,176'	2,180'	4'	2	8
14	2,186'	2,191'	5'	2	10
15	2,196'	2,210'	14'	2	28
16	2,220'	2,228'	8'	2	16
17	2,236'	2,240'	4'	2	8
18	2,245'	2,253'	8'	2	16
TOTALS			**159'**		**318**

8. Acidize Perforated Intervals using **Rock Salt for Diversion of acid during Job**.
Acid Job Total: 15,000 gal 15% NEFE HCl (94.3 gal/ft of perfs – 39.9 gal/perf) with acid booster, anti-sludge, paraffin solvent, scale inhibitor, and demulsifiers, **pumped at 5.0-6.0 BPM.**

Trip in hole with rental 5-1/2"x2-3/8" retrievable treating packer on workstring. Set packer above perforations at approximately 1,900'. Acidize the perforations in 4 Stages using Rock Salt as diverting agent between Stages:

STAGE 1: **SPOT 295 gal of 15% NEFE HCl (7.0 bbls)** across Perfs from 1,968'-2,253' (285'). Pick up packer and set at +/- 1,900'.

ACIDIZE with 4,705 gal 15% NEFE HCl (112.0 bbls) + additives, increasing pump rate after breakdown to 5.0-6.0 BPM.

A TOTAL OF 5,000 gal acid (119.1 bbls) in STAGE 1.

PUMP 400# ROCK SALT in WAGU produced water as Diverting Agent between Stage 1 and Stage 2.

STAGE 2: **PUMP 4,000 gal 15% NEFE HCl ACID (95.2 bbls) + additives at 5.0-6.0 BPM.**

PUMP 400# ROCK SALT in WAGU produced water as Diverting Agent between Stage 2 and Stage 3.

STAGE 3: **PUMP 3,000 gal 15% NEFE HCl ACID (71.4 bbls) + additives at 5.0-6.0 BPM.**

PUMP 400# ROCK SALT in WAGU produced water as Diverting Agent between Stage 3 and Stage 4.

STAGE 4: **PUMP 3,000 gal 15% NEFE HCl ACID (71.4 bbls) + additives at 5.0-6.0 BPM.**

Pump +/- 16.0 Bbls **Fresh Water** to displace acid to bottom of perforations at 2,253'.

Shut-in well and record Shut-In Pressures: Initial Shut-in; 5-minute S/I; 10-minute S/I; & 15-minute S/I.

Leave well Shut-in for 4 hours for acid to spend.

9. Open well up to flow back into water trucks on location initially. Take the first 2 truckloads of flow back to commercial disposal site. If well should continue to flow back – tie well in to flow back to the WAGU Water Station inlet tank until it dies. May need to put pulling unit rig on standby during these flowback times in order to keep workover costs down.

10. Release treating packer & POOH with packer and workstring. Have water truck on hand to kill well if it tries to come in during trip out of hole.

11. Trip in hole with 2-3/8" workstring with muleshoe on bottom & tag for fill. Circulate hole clean with water truck using **Fresh Water** in order to dissolve rock salt – **at least 2 times around**, and then circulate with clean produced water from the WAGU Water Station. POOH with workstring and muleshoe.

12. Run in hole with redressed/new Baker Model AD-1 2-3/8"x5-1/2" tension packer on 2-3/8" 4.7# J-55 IPC injection tubing string to +/- 1,900'. Pressure test 2-3/8" tubing going in hole to 5,000 psig.

13. Pump & circulate approx. 75 Bbls of packer fluid into tbg/csg annulus – get clear returns. Set Baker Model AD-1 tension packer above injection perfs.

14. ND BOP and NU injection wellhead.

15. Notify Richard Inge of NMOCD 24 hours in advance of running MIT on injection well.

    Rig up pump truck with chart pressure recorder to be able to record on a 1-hour/1,000 psig chart for MIT Test. Pressure up on annulus to 500 psig with pump truck – Hold and record pressure for 1 hour (60 minutes) for MIT, or as directed by NMOCD.

    Have NMOCD REPRESENTATIVE on-site as a WITNESS for the MIT, IF POSSIBLE. If representative is not available, have chart to send to NMOCD.

16. Run Injection Test on well using produced water from WAGU station and pump truck. Have pressure chart recorder on truck for test. Pump into well at the following rates, allowing pump in pressure to stabilize before going to next rate. Record pump-in rates, volumes pumped, initial pressure, and final pressure for each Test Rate. DO NOT EXCEED 1,500 psig pumping pressure during test – if 1,500 psig is reached do not attempt next rate. Test Rates:

    - 0.25 BPM
    - 0.50 BPM
    - 0.75 BPM
    - 1.00 BPM
    - 1.50 BPM
    - 2.00 BPM

17. Once NMOCD approves MIT test run, hook well up to injection line and begin water injection.

H. Patrick Seale
May 21, 2014

ALAMO PERMIAN RESOURCES, LLC
WELLBORE DIAGRAM

Lease/Well No.: **WAGU No. 012 WIW** ELEVATION, GL: 3,618 ft

Location: 1,650' FSL & 990' FWL
UL: L, SEC: 8 T: 18-S, R:28-E FIELD: **ARTESIA: QN-GB-SA**
EDDY County, NM

LEASE No.: State E-7179 Spudded: 9/7/1957

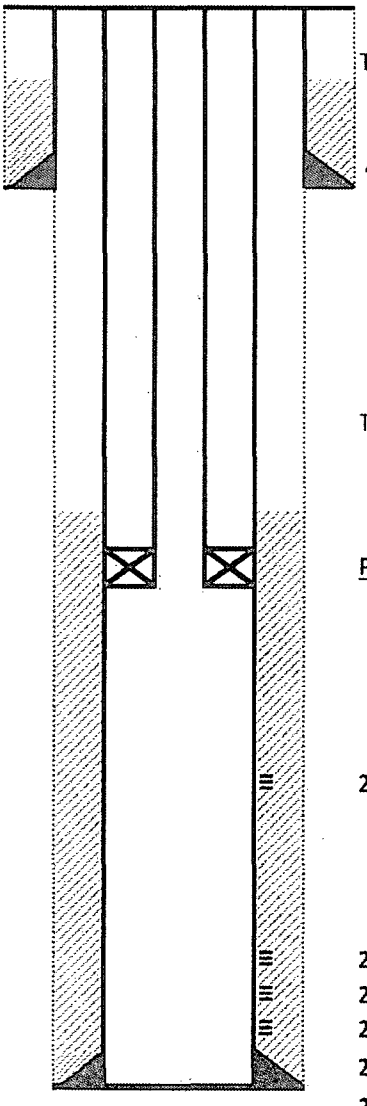
API No. : **30-015-02649** Drlg Stopped: 10/7/1957

Completed: 10/11/1957

CABLE TOOLS

LAT:

LONG:



10" HOLE

Surface Csg:
8-5/8" 26#
Csg Set @ 441'
Cmt'd w/ 30 sx

TOC Est'd @ 228'
Calc'd (75% SF)

441' Csg

2-3/8" 4.7# J-55
PC Tubing
??? Pkr @ 1,901'

8" HOLE

Production Csg:
5 1/2" 14# J-55
Csg Set @ 2,273'
Cmt'd w/ 100 sx

TOC Est'd @ 1,735'
Calucated (75% SF)

2,273' Csg
2,273' PBTD
2,273' TD

TOPS	DEPTH, ft
SALT	
SEVEN RIVERS	
LOCO HILLS	1,966
GRAYBURG	1,982
METEX	2,070
PREMIER	2,186
SAN ANDRES	2,268
LOVINGTON	

PERFS:	Zone	SPF - # Holes	Date
	QN - "1,650"		
	GB - Zone 12		
	GB - Zone 11		
	GB - Zone 10		
	GB - Zone 9		
2114 - 2120'	**GB - Zone 8**	6' 4 spf - 24 holes	04/01/60
	GB - Zone 7		
	GB - Zone 6		
	GB - Zone 5		
	GB - Zone 4		
2204 - 2210'	**GB - Zone 3**	6' 4 spf - 24 holes	04/01/60
2236 - 2238'	**GB - Zone 2**	2' 4 spf - 8 holes	10/07/57
2245 - 2253'	**GB - Zone 1**	8' 4 spf - 32 holes	10/07/57
	TOTALS:	***22' -- 88 holes***	

Originally Drilled as the Signal State #1 by Roach & Sheppard
Renamed WAGU Tract 5 #12 - 03/21/68.
Initial Water Injection: 04/25/71 with packer @ 2189' & perforations 2114-20', 2204-10', 2236-38', & 2245-53'.

Cumulative Prod. (03/31/14):

OIL	50.656	MBO
GAS	3.836	MMCF
WATER	18.433	MBW
INJECT.	563.160	MBW

HPS: 05/21/2014

WAGU No. 012 WIW

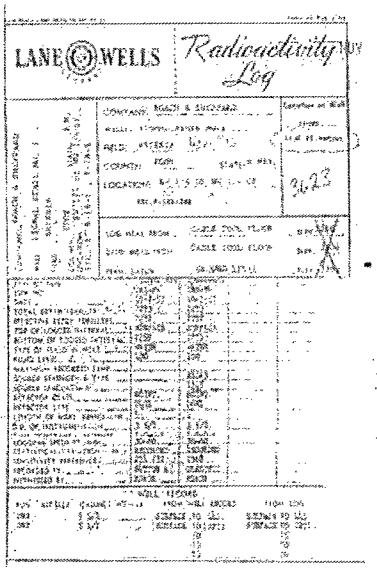
WELL PERFORATION, ACID JOB, FRAC JOB, & WELL TEST DETAILS

PERFS			ACID JOB(S)			FRAC JOB(S)						INITIAL POTENTIAL TEST			
TOP	BOTTOM	ZONE	DATE	ACID GALS	ACID TYPE	DATE	FRAC FLUID GALS	FLUID TYPE	SAND LBS	SAND SIZE	REMARKS	TEST DATE	OIL BOPD	GAS MCFD	WATER BWPD
2,236	2,238	Grayburg									Pre-Frac Test	10/10/1957	12.5	0	0
2,245	2,253	Grayburg											Flowing		
2,236	2,238	Grayburg				10/11/1957	20,000	Gelled Oil	30,000	20/40		10/11/1957	60	0	0
2,245	2,253	Grayburg											Flowing		
2,114	2,120	Metex				4/1/1960	20,000	Gelled Oil	40,000	20/40	Isolated	No Test Reported			
2,204	2,210	Premier									New Perfs				

WAGU #12

30-015-02649

T-18-S, R-28-E, Sec. 8
1650' FSL & 990' FWL
Reference Elevation = 3623'



Top WAGU

Loco Hills

Grayburg

San Andres

Alamo Permian Resources Internal Stratigraphy

12
11
10
9
8
7
6
5
4
3
2
1

1900
2000
2100
2200

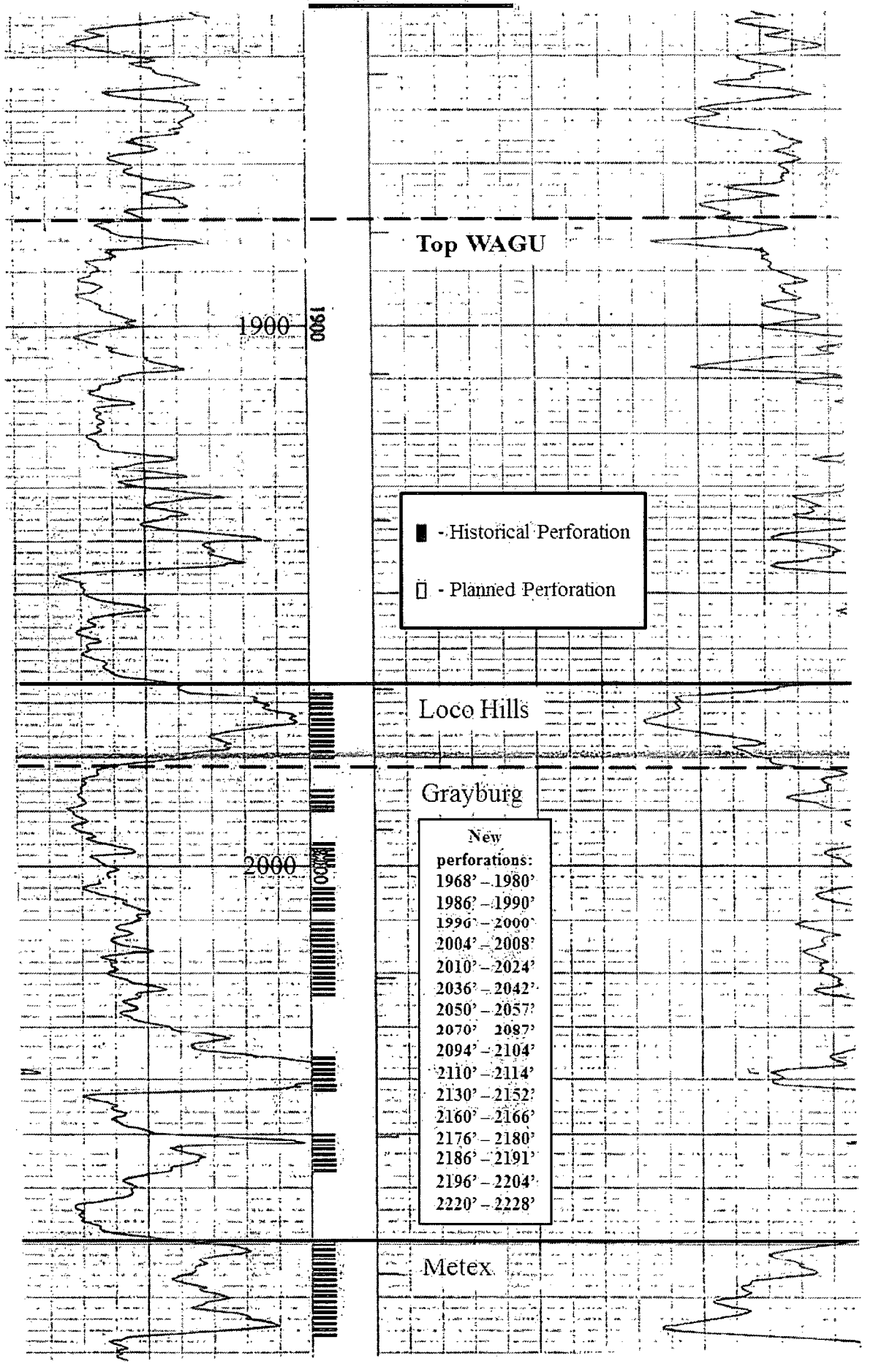
New perforations:
1968' – 1980'
1986' – 1990'
1996' – 2000'
2004' – 2008'
2010' – 2024'
2036' – 2042'
2050' – 2057'
2070' – 2087'
2094' – 2104'
2110' – 2114'
2130' – 2152'
2160' – 2166'
2176' – 2180'
2186' – 2191'
2196' – 2204'
2220' – 2228'

■ - Historical Perforation

□ - Planned Perforation

(10/27/2012)

WAGU #12


Top WAGU
1900
1900
- Historical Perforation
- Planned Perforation
Loco Hills
Grayburg
2000
2000
New perforations:
1968' – 1980'
1986' – 1990'
1996' – 2000'
2004' – 2008'
2010' – 2024'
2036' – 2042'
2050' – 2057'
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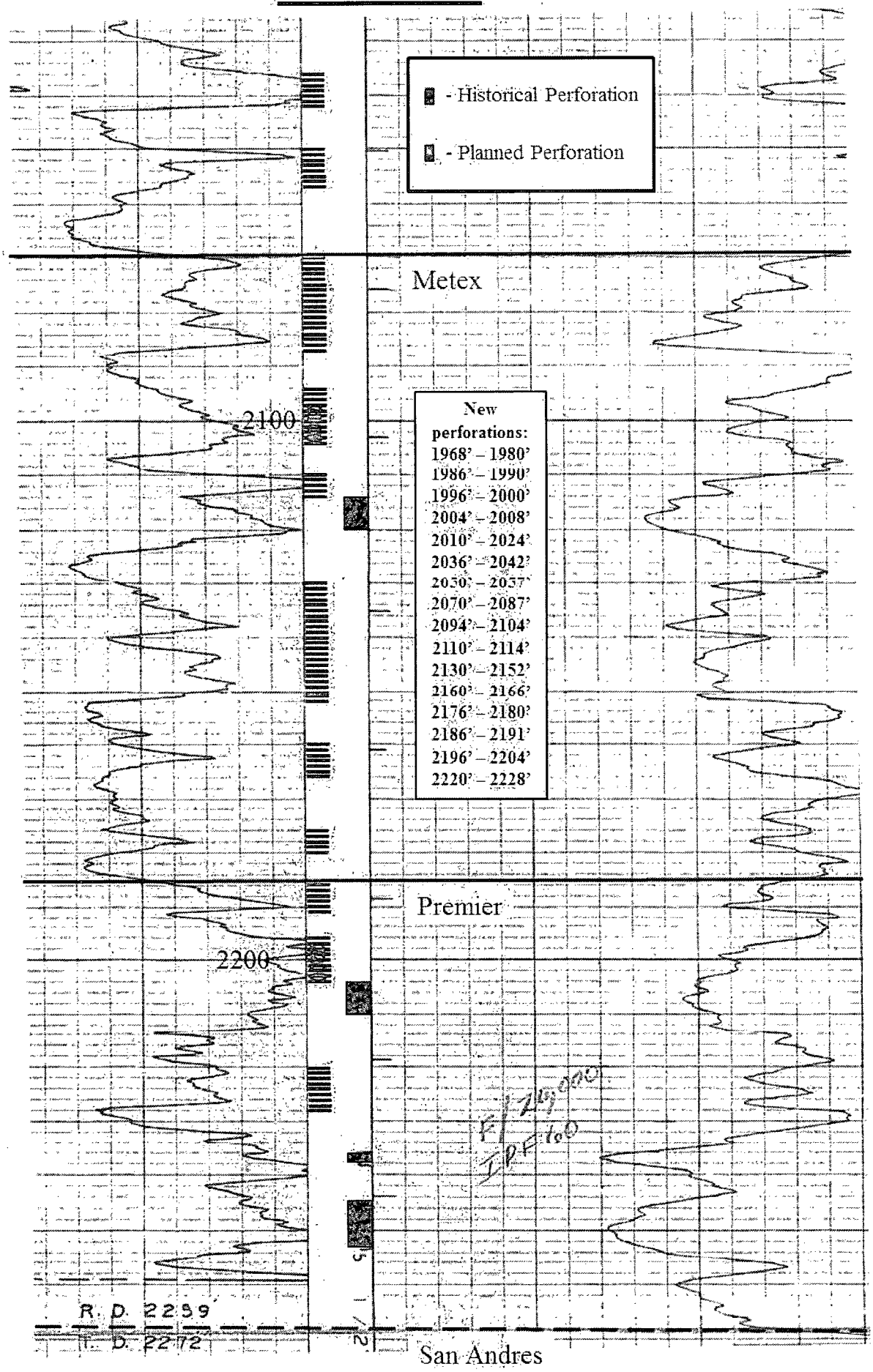
2196' – 2204'
2220' – 2228'
Metex

WAGU #12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Metex
2100
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2196' – 2204'
2220' – 2228'
Premier
2200
R. D. 2259
T. D. 2272
San Andres