

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

Form C-103
Revised August 1, 2011

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

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.)		WELL API NO. 30-015-21446
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Injection Well <input checked="" type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Alamo Permian Resources, LLC		6. State Oil & Gas Lease No. B-6869
3. Address of Operator 415 W. Wall Street, Suite 500, Midland, TX 79701		7. Lease Name or Unit Agreement Name ARTESIA STATE UNIT
4. Well Location Unit Letter M : 10 feet from the S line and 10 feet from the W line Section 13 Township 18S Range 27E NMPM County EDDY		8. Well Number 201
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number 274841
		10. Pool name or Wildcat Artesia; Queen-Grayburg-San Andres

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

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/> OTHER: CLEAN OUT, ADD PERFS, ACIDIZE <input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER: <input type="checkbox"/>
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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
AUG 04 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 08/01/2014

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

APPROVED BY: [Signature] TITLE Dist. H. Spaw. & S. DATE 8-12-2014
Conditions of Approval (if any):

ALAMO PERMIAN RESOURCES, LLC

ARTESIA STATE UNIT #201 WIW CLEAN-OUT, ADD PERFS, & ACIDIZE PROCEDURE

1. MIRU PU & BOP's. Be sure well is dead and blown down. If well tries to flow back—flow well back either into water truck(s) if flowback is weak, or via temporary poly line to Artesia State Unit Water Station inlet tank, if flowback appears to be strong. In either case, take flowback to Artesia State Unit Water Station inlet water tank.
2. **THIS WELL HAS 4-1/2" 10.5# J-55 PRODUCTION CASING.**
We will need to use the 2-3/8" workstring for this workover.

We have never pulled this well since its acquisition from CBS Operating Corp. in 2010.

We are currently unable to inject water into this WIW due to excessive pressures. Expect to find the wellbore full of scale, sand, paraffin, iron sulfide, etc.

I was Unable to find a description of Injection Tubing & Injection Packer currently in well. Do not know setting depth of Injection Tubing and Packer.

Other WIW's in the Artesia State Unit have had Watson J-Lock packers set in them. This well may have one also.

PROVIDE A DETAILED TALLY & DESCRIPTION OF TUBING, INJECTION PACKER AND ANY OTHER DOWNHOLE EQUIPMENT PULLED FROM THIS WELL IN THE MORNING REPORT FOR OUR RECORDS.

Visually inspect Injection Tubing & Injection Packer coming out of hole. Send Injection Packer in for Repair/Replacement depending on condition.

Current Perforations: 1,771' – 1,950' (179' Overall interval) – 42' of perforations (84 holes).

Planned New Perforations: 1,518' – 1,950' (432' Overall interval) – 69' of perforations (138 holes).

Total Perfs after W/O: 1,518' - 1,950' (432' Overall Interval) – 69' of perforations (222 holes).

See Wellbore Diagram for perforations detail – updated 07/31/2014.

Anadarko set a CIBP in well at 1,821' in March 1977 to acidize Loco Hills perfs and check injectivity. Assume that CIBP was pulled based on CBS Operating Corp. wellbore diagram dated July 2005.

3. Run in hole with a 3-1/2" mill tooth skirted rock bit and 4-1/2" rotating casing scraper on 2-3/8" workstring and clean out wellbore to PBTD at +/- 1,989'. Catch samples of any material recovered from well and send to Tech Management for analysis. Note any bridges or hard streaks in report. While at TD, circulate hole clean using clean produced water from Artesia State Unit or WAGU Water Injection Station. POOH with bit and scraper.

REMEMBER: Paraffin has been encountered in offset wells. If excessive paraffin is encountered, pour 10 gal of 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 & paraffin solvent chemicals to

clean paraffin out of tubing string. Paraffin, iron sulfide, sand, rust, and scale have been recovered in many of these old wells while cleaning out to bottom.

4. RU Logging Company and run GRN/CCL log for perforating correlation from PBTD at +/- 1,989' to base of Surface Casing at 289'. Log should show porosity based on Sandstone Matrix, Dolomite Matrix, & Limestone Matrix. Email log directly from wellsite to Pat Seale at pseale@alamoresources.com and Tom Fekete at jordanrubicon@msn.com.

We will review GRN/CCL log and perms for correlation to old GRN/CCL log run in 1981, prior to perforating.

5. Perforate the ARTESIA STATE UNIT #201 WIW well over the following **11 intervals** using 3-1/8" Hollow-Carrier slick perforating guns with 19-grain charges:

Interval No.	Perf. Interval		No. of Ft	SPF	No. of Perfs
	Top	Bottom			
1	1,518'	1,530'	12'	2	24
2	1,770'	1,777'	7'	2	14
3	1,779'	1,788'	9'	2	18
4	1,833'	1,835'	2'	2	4
5	1,840'	1,846'	6'	2	12
6	1,872'	1,878'	6'	2	12
7	1,882'	1,890'	8'	2	16
8	1,894'	1,904'	10'	2	20
9	1,916'	1,920'	4'	2	8
10	1,943'	1,945'	2'	2	4
11	1,947'	1,950'	3'	2	6
TOTALS			69'		138

6. **Acidize LOCO HILLS, GRAYBURG, & METEX Perforated Intervals from 1,770' - 1,950':**

- 180' Overall;
- 57' of perforations
- 198 perforations

in 4 Stages using Rock Salt for Diversion of acid during Job.

Acid Job Total:

- **7,200 gal 15% NEFE HCl (171.4 Bbls)**
- **126.3 gal/ft of perms**
- **36.4 gal/perf)**

with acid booster, anti-sludge, paraffin solvent, scale inhibitor, and demulsifiers, **pumped at 5.0-6.0 BPM.**

- Run in hole with Treating Packer on 2-3/8" workstring with Retrievable Bridge Plug setting tool and RBP below packer.
- Set Retrievable Bridge Plug at approximately **1,965'**.
- Set Treating Packer at approximately **1,750'**.

Acidize the perforations in 4 Stages using Rock Salt as diverting agent between Stages:

STAGE 1: **SPOT 130 gal 15% NEFE HCl (3.1 bbls)** across Perfs from 1,770'-1,950' (180') inside the 4-1/2" 10.5# production casing in the well.

Pick up Retrievable Packer and Set at approx. 1,750'.

ACIDIZE STAGE 1 with a total of 2,800 gal 15% NEFE HCl (66.7 bbls) + additives, increasing pump rate after breakdown to 5.0-6.0 BPM.

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

STAGE 2: **PUMP 2,200 gal 15% NEFE HCl ACID (52.4 bbls)** + additives at 5.0-6.0 BPM.

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

STAGE 3: **PUMP 1,100 gal 15% NEFE HCl ACID (26.2 bbls)** + additives at 5.0-6.0 BPM.

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

STAGE 4: **PUMP 1,100 gal 15% NEFE HCl ACID (26.2 bbls)** + additives at 5.0-6.0 BPM.

Pump +/- 10.0 Bbls **Fresh Water** to displace acid to bottom of perforations at 1,950'.

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.

Flow back well into vacuum trucks until it lays down and dies. If well flows back more than 2 truck loads of water – hook up well to line and flowback to Artesia State Unit Water Station until it dies.

Release Treating Packer and unseat Retrievable Bridge Plug.

Set Retrievable Bridge Plug at approximately 1,550'.

7. Acidize new PENROSE SANDSTONE perfs from 1,518' – 1,530':

- 12' Overall;
- 12' of perforations
- 24 perfs

Acid Job Total:

- **1,500 gal 15% NEFE HCl (35.7 Bbls)**
- **125.0 gal/ft of perfs**
- **62.5 gal/perf)**

with acid booster, anti-sludge, paraffin solvent, scale inhibitor, and demulsifiers, **pumped at 5.0-6.0 BPM.**

Re-Set Retrievable Bridge Plug at approximately 1,550'.

Set Treating Packer at approximately 1,480'.

Pump **1,500 gal 15% NEFE HCl plus additives** down tubing at **5-6 BPM** after acid is on perfs and perfs have broken down.

Pump +/- 7.0 Bbls **Fresh Water** to displace acid to bottom of perforations at 1,530'.

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

Shut well in 4 hours for acid to spend.

8. Open well up to flow back into vacuum 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 Artesia State Unit 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.
9. Release Retrievable Treating Packer, go down and retrieve RBP & POOH with RBP, packer, and workstring. Have water truck on hand to kill well if it tries to come in during trip.
10. Trip in hole with 2-3/8" workstring with muleshoe on bottom & tag for fill to PBTD. Circulate hole clean with water truck using **Fresh Water** at least at least 2 times around in order to dissolve rock salt. POOH with workstring and muleshoe.
11. Run in hole with 2-3/8" internally plastic-coated injection tubing & 4-1/2" Baker Model AD-1 tension Injection Packer.

Pressure test tubing to 5,000 psig while going in hole.

12. Pump & circulate approx. 50 Bbls of packer fluid into tbq/csg annulus – get clear returns.

Set Baker Model AD-1 tension Injection Packer at approximately 1,450'.

PACKER MUST BE SET WITHIN 100' OF THE TOP INJECTION PERF AT 1,518' – NMOCD RULES.

13. ND BOP and NU injection wellhead.
14. Pressure up on annulus to 500 psig with pressure recorder chart on pump truck. Hold and record pressure for 30 minutes for MIT. Have NMOCD REPRESENTATIVE on-site as a WITNESS for the MIT IF POSSIBLE. If not available, have chart to send to NMOCD.
15. Run Injection Test on well using produced water from Artesia State Unit or WAGU Water Station and pump truck. Have pressure chart recorder on truck for test. Pump 10 Bbls produced water into well at each of 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.
16. 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.

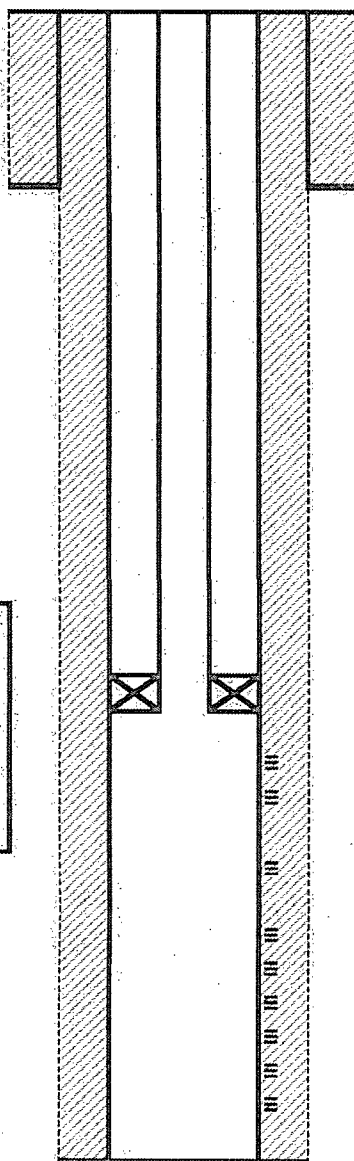
H. Patrick Seale
July 31, 2014

ALAMO PERMIAN RESOURCES, LLC
WELLBORE DIAGRAM

Lease/Well No.: **ARTESIA STATE UNIT #201 WIW** ELEVATION, GL: 3,520 ft
 Location: 10' FSL & 10' FWL
 UL: M, SEC: 13, T: 18-S, R: 27-E FIELD: **ARTESIA: QN-GB-SA**
 EDDY County, NM
 LEASE No.: State B-6869 Spudded: 2/15/1975
 API No.: **30-015-21446** Drlg Stopped: 2/19/1975
 Completed: 8/29/1975
 LAT:
 LONG:

ROTARY DRLG RIG

12-1/4" HOLE
 Surface Csg:
 8-5/8" 24# J-55
 Csg Set @ 289'
 Cmt'd w/ 155 sx
 + 3 sx Redi-Mix



TOC @ Surface:

Topped off

289' Csg

TOC @ Surface

Circulated 160 sx

<u>TOPS (TEF)</u>	<u>DEPTH, ft</u>
YATES	
SEVEN RIVERS	
PENROSE	1,510
LOCO HILLS	1,770
GRAYBURG	1,781
METEX	1,870

HAVE NO RECORD
of TUBING &
PACKER in Well.
 Other WIW's have
 had Watson J-Lok
 Inj Packers.

<u>PERFS:</u>	<u>Zone</u>	<u>SPF - # Holes</u>	<u>Date</u>
1771 - 1777'	QB - Loco Hills	6' 2 spf - 12 holes	08/29/75
1779 - 1787'	QB - Loco Hills	8' 2 spf - 16 holes	08/29/75
1843 - 1846'	GB - Upper GB	3' 2 spf - 6 holes	08/29/75
1872 - 1876'	GB - Metex	4' 2 spf - 8 holes	08/29/75
1882 - 1886'	GB - Metex	4' 2 spf - 8 holes	08/29/75
1894 - 1903'	GB - Metex	9' 2 spf - 18 holes	08/29/75
1916 - 1919'	GB - Metex	3' 2 spf - 6 holes	08/29/75
1942 - 1945'	GB - Metex	2' 2 spf - 4 holes	08/29/75
1947 - 1950'	GB - Metex	3' 2 spf - 6 holes	08/29/75
1,997' Csg	TOTALS:	42' -- 84 holes	
1,989' PBDT			
2,010' TD			

Production Csg:
 4-1/2" 10.5# J-55
 Csg Set @ 1,997'
 Cmt'd w/ 763 sx

Cumulative Prod. (05/31/14):

OIL 0.198 MBO
 GAS 0.807 MMCF
 WATER 1.920 MBW
 INJECT. 11.289* MBW

Drilled by ANADARKO PROD. CO. as the Artesia State Unit Tract 2 #1 WIW.
 Anadarko set CIBP @ 1,821' in March 1977 to acidize Loco Hills and check injectivity.

* ACTUAL CUM WI 12/31/2010 = 614.209 MBW

HPS: 07/31/2014

ARTESIA STATE UNIT #201 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
1,771	1,777	QN-LoCo Hills	8/29/1975	504	15% HCl						28 perfs				
1,779	1,787	QN-LoCo Hills									18.0 gal/perf				
											14 ft of perfs				
											36.0 gal/ft				
1,843	1,843	GB-Upper GB	8/29/1975	COULD NOT TREAT THESE PERFS							6 perfs				
											3 ft of perfs				
1,872	1,876	GB-Metex	8/29/1975	1,008	15% HCl						40 perfs				
1,882	1,886	GB-Metex									25.2 gal/perf				
1,894	1,903	GB-Metex									20 ft of perfs				
1,916	1,919	GB-Metex									50.4 gal/ft				
1,943	1,945	GB-Metex	8/29/1975	252	15% HCl						10 perfs				
1,947	1,950	GB-Metex									25.2 gal/perf				
											5 ft of perfs				
											50.4 gal/ft				

Artesia State #2-1

30.015-21446

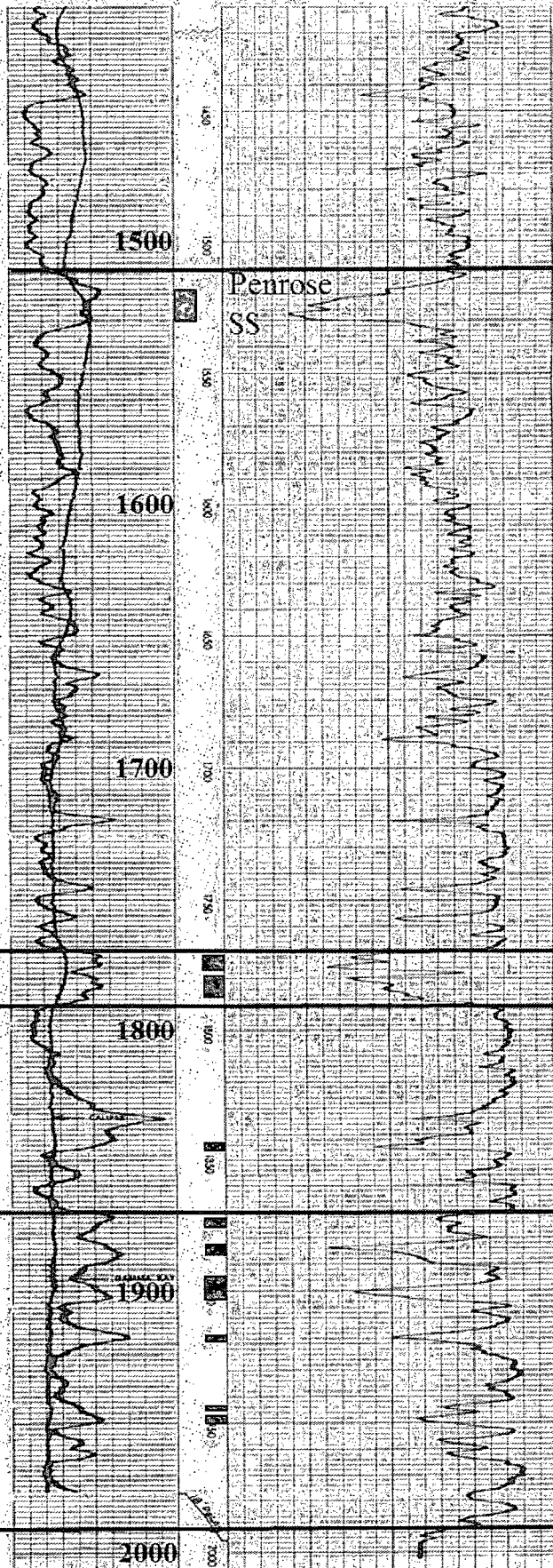


T-18-S, R-27-E, Sec. 13

10' FSL & 10' FWL

Reference Elevation = 3529'

Welex		COMPENSATED ACOUSTIC VELOCITY LOG	
COMPANY <u>ARABARKO PRODUCTION COMPANY</u>			
WELL <u>ARTESIA STATE UNIT #2-1</u>			
FIELD <u>ARTESIA</u>			
COUNTY <u>EDDY</u> STATE <u>NEW MEXICO</u>			
Location <u>10' FSL & 10' FWL</u>			
Sec. <u>13</u> Twp <u>18-S</u> Rge <u>27-E</u>			
Other Services <u>GRAND</u>			
Permanent Datum <u>44</u>		Elev. <u>3519.5</u>	
Log Measured From <u>KA</u>		Drilling Measured From <u>KB</u>	
Date <u>2-18-75</u>		Time <u>10:00</u>	
For No. <u>ONE</u>		Depth-Driller <u>2010</u>	
Depth-Well <u>2001</u>		Bottom Log Inter. <u>1985</u>	
Top Log Inter. <u>0</u>		Casing-Driller <u>2000</u>	
Casing-Well <u>2000</u>		Bit Size <u>7 7/8</u>	
Type Fluid in Hole <u>MUD</u>		Date <u>2/18/75</u>	
pH <u>8.6</u>		Fluid Loss <u>30ml</u>	
Source of Sample <u>GILBERT</u>		K. @ Meas Temp <u>157.8</u>	
K. @ Meas Temp <u>220 @ 50°F</u>		K. @ Meas Temp <u>220 @ 50°F</u>	
Source of Sample <u>MARS VENT</u>		K. @ Meas Temp <u>170 @ 50°F</u>	
K. @ Meas Temp <u>170 @ 50°F</u>		K. @ Meas Temp <u>170 @ 50°F</u>	
Free-Solvent Conc. <u>1.4%</u>		Max. Res. Temp <u>244.1</u>	
Equp. Location <u>10' FSL & 10' FWL</u>		Recorded By <u>J. HIGGINS</u>	
Witnessed By <u>D. E. GILBERT</u>			



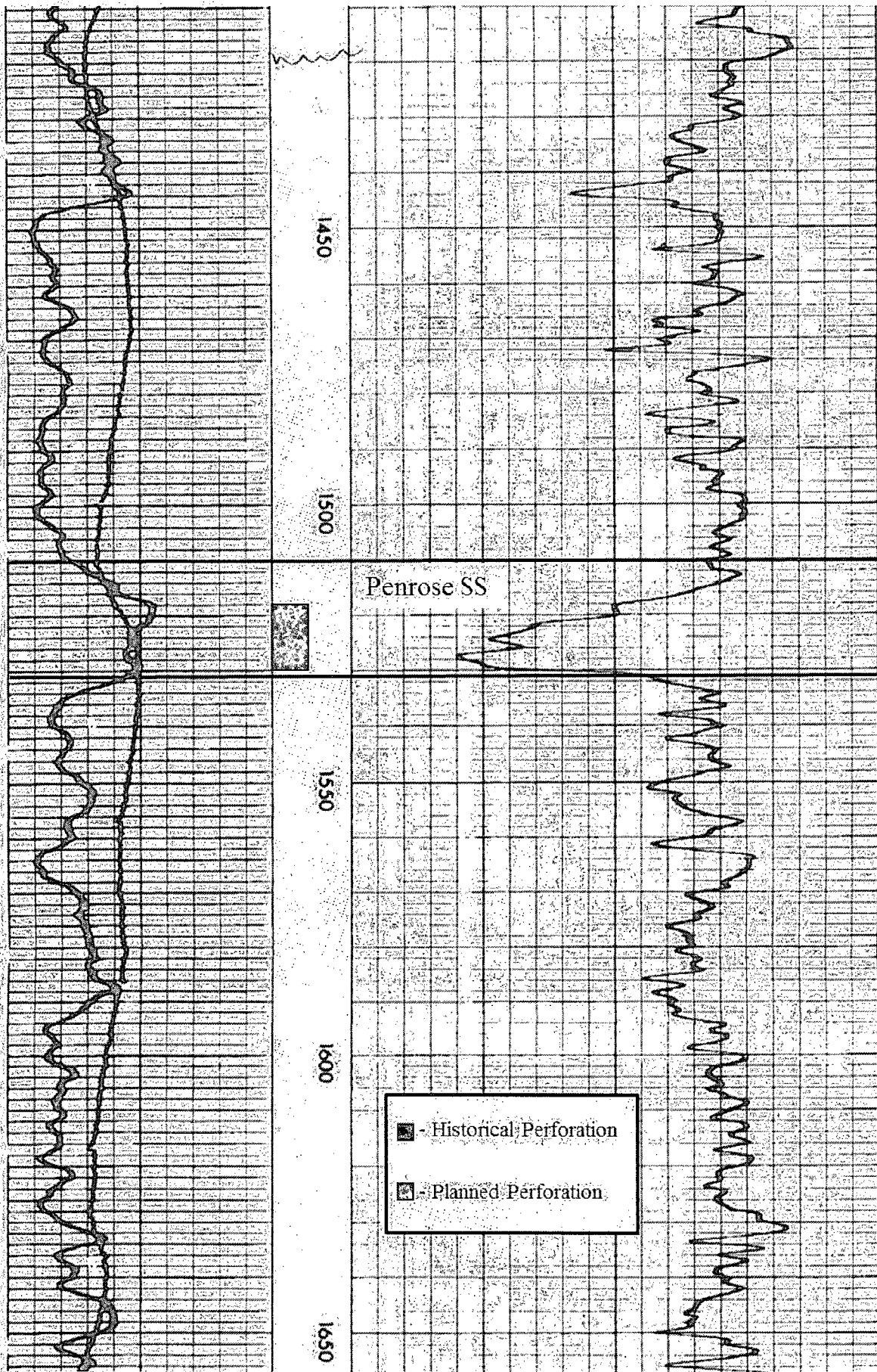
<input checked="" type="checkbox"/>	- Historical Perforation
<input type="checkbox"/>	- Planned Perforation

(7/6/2014)

Premier

2000

Artesia State #2-1



Artesia State #2-1

