Submit 1 Copy To Appropriate District Office	State of New M	1exico		Form C-103			
District I - (575) 393-6161	Energy, Minerals and Na	tural Resources	TWELL ADINO	Revised August 1, 2011			
1625 N. French Dr., Hobbs, NM 88240 District II – (575) 748-1283	·		WELL API NO. 30-015-21988				
811 S. First St., Artesia, NM 88210	OIL CONSERVATIO		5. Indicate Type of Lease				
District III – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Fr		STATE FEE				
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM	87505	6. State Oil & Ga K-1020	s Lease No.			
87505							
SUNDRY NOT (DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLI PROPOSALS.)		LUG BACK TO A	ARTESIA STATI				
1. Type of Well: Oil Well	Gas Well Other Inject	ion Well 🔲	8. Well Number	905			
2. Name of Operator			9. OGRID Numb	er			
Alamo Permian Resources. LLC 3. Address of Operator			274841 10. Pool name or	Wildcat			
415 W. Wall Street, Suite 500, M	lidland, TX 79701			rayburg-San Andres			
4. Well Location							
Unit Letter A: 1270	feet from the N line and 5	0 feet from the	E line				
Section 23	Township 18S Rar		NMPM	County EDDY			
	11. Elevation (Show whether D	PR, RKB, RT, GR, etc	.)	23.5 - 116. 23.6 - 24.6 - 24.6 - 24.6 - 24.6 - 24.6 - 24.6 - 24.6 - 24.6 - 24.6 - 24.6 - 24.6 - 24.6 - 24.6 - 24.6 - 24.6 -			
12. Check A	ppropriate Box to Indicate N	Nature of Notice,	Report or Other [D ata			
NOTICE OF IN	NTENTION TO:	SUE	SEQUENT RE	PORT OF:			
PERFORM REMEDIAL WORK \Box	PLUG AND ABANDON 🔲	REMEDIAL WOR	RK □	ALTERING CASING			
TEMPORARILY ABANDON	CHANGE PLANS		RILLING OPNS.	P AND A			
PULL OR ALTER CASING DOWNHOLE COMMINGLE	MULTIPLE COMPL	CASING/CEMEN	IT JOB				
	,						
OTHER: CLEAN OUT, ADD PEF ☑	RFS, & ACIDIZE	OTHER:					
	eted operations. (Clearly state all	pertinent details, and	l give pertinent dates	, including estimated date			
	rk). SEE RULE 19.15.7.14 NMA	C. For Multiple Con	npletions: Attach we	ellbore diagram of			
proposed completion or reco	ompletion.		•	•			
SEE ATTACHED			•				
oes mineres							
•	·						
		•					
				•			
		new: 15%	Q-1842: 1904	1-2024			
		new: 15%	2-2024 FO	2			
		, , ,	2027 TG1	cent			
•							
I hereby certify that the information	above is true and complete to the b	pest of my knowledge	e and belief.				
signature Caria St	oker TITLE Reg	ulatory Affairs Coo	ordinator DATE_	12/16/2014			
Type or print name CARIE STO	E-mail address: carie@	stokeroilfield.com	PHONE: 432.6	<u>64.7659</u>			
APPROVED BY:	TITLE DIST	- A Sway 15d	\ DAT	E 1/27/2015			
Conditions of Approval (if any):	, L.	<i>t</i> ,		1			
Pravide Clas	subsequent to	workov	er proced	lure			
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ALAMO PERMIAN RESOURCES, LLC

ARTESIA STATE UNIT #905 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 vacuum truck(s) if flowback is weak, or down flowline Artesia State Unit Battery, if flowback appears to be strong. In either case, take flowback to Artesia State Unit Battery production gun barrel or inlet production 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.

This well was originally drilled by Anadarko Production Company in January & February 1977 and completed in the QN-Loco Hills, GB-Upper Grayburg, and GB-Metex zones from 1,822'-2,024' (202' overall).

Alamo Permian Resources has never worked on the Artesia State Unit #905 since the acquisition from CBS Operating Corp. in November 2010. The last workover on the well was a pump repair job by CBS Operating in September 2006, which followed a pump & tubing repair job in July 2003. Copies of the Morning Reports from those workovers are included in the Workover Procedure Package. According to these reports, that the 2-3/8" tubing was run without a TAC, with S/N @ +/- 2,025', and EOT @ 2,025'.

See Wellbore Diagram for perforations detail - updated 12/10/2014.

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

Visually inspect Tubing, Pump, Rods, & TAC coming out of hole. Send Pump & TAC in for Repair/Replacement depending on condition.

Current Perforations: 1,822' – 2,024' (202' Overall interval) – 56' of perforations (112 perfs).

Planned New Perforations: 1,572' – 2,024' (452' Overall interval) – 91' of perforations (182 perfs).

Total Perfs after W/O: 1,572' – 2,024' (452' Overall Interval) – 91' of perforations (294 perfs).

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 +/- 2,038'. 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: Very hard, dehydrated Fill has been encountered in all Artesia State Unit WIW's worked on during this program. This hard compacted Fill is made up of Iron Sulfide, Formation Sand, Frac Sand, Scale, Paraffin; and Asphaltenes. Drilling it out has required the use of Aztec Well Service's reverse unit & power swivel with a bit and 4-6 Drill Collars.

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.

The State of the S

4. RU Warrior Energy Service Corp. logging company and run cased-hole GRN/CCL log for perforating correlation from PBTD at +/- 2,038' to base of Surface Casing at 307'.

Log should show porosity based on Sandstone Matrix, Dolomite Matrix, & Limestone Matrix.

Email log directly from wellsite to <u>BOTH</u>: Pat Seale at <u>pseale@alamoresources.com</u> and Tom Fekete at <u>jordanrubicon@msn.com</u>.

We will review GRN/CCL log and perfs for correlation to old GRN/CCL log run on 03/19/1974, prior to perforating.

5. Perforate the **ARTESIA STATE UNIT #905** well over the following **8 intervals** using 3-1/8" Hollow-Carrier slick perforating guns with 19-grain charges:

Interval	<u>Perf li</u>	<u>nterval</u>				
No.	Top	Bottom	No. of Ft	<u>SPF</u>	No. of Perfs	<u>Zone</u>
1	1,572'	1,594'	22'	2	44	QN - Penrose SS
2	1,822'	1,842'	20'	2	40	QN - Loco Hills SS
3	1,890'	1,894'	· 4'	2	8	GB – Upper Grayburg
4	1,904'	1,908'	4'	2	8	GB – Upper Grayburg
. 5	1,914'	1,920'	6'	2	12	GB – Upper Grayburg
6 .	1,932'	1,938'	6 [;]	2	12	GB – Metex
7	1,947'	1,951'	4'	2	8	GB – Metex
8	1,958'	1,965'	7'	2	14	GB – Metex
9	1,976'	1,980'	4'	2	8	GB - Metex
10	2,002	2,012'	10'	2	20	GB – Metex
11	2,020'	2,024'	<u>4'</u>	2	<u>8</u>	<u>GB – Metex</u>
TOTALS			91'		182 Perfs	•

- 6. Acidize LOCO HILLS, UPPER GRAYBURG, & METEX Perforated Intervals from 1,822'- 2,024':
 - 202' Overall;
 - 69' of perforations
 - 250 perforations (138 New +112 Old perfs)

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

Acid Job Total:

- 10,000 gal 15% NEFE HCI (238.1 Bbls)
- 144.9 gal/ft of perfs
- 40.0 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 2,032'.
- Set Treating Packer at approximately 1,750'.

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

STAGE 1: SPOT 3.5 Bbls 15% NEFE HCI (219.5') across Perfs from 1,822'-2,024' (202') 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 <u>4,000 gal 15% NEFE HCI (95.2 bbls)</u> + 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 3,000 gal 15% NEFE HCl ACID (71.4 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 1,500 gal 15% NEFE HCI ACID (35.7 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 1,500 gal 15% NEFE HCI ACID (35.7 bbls) + additives at 5.0-6.0 BPM.

Pump +/- 11.1 Bbls Fresh Water to displace acid to bottom of perforations at 2,024'.

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 production Battery until it dies.

Truck any Oil recovered during Flowback to Artesia State Unit production Battery.

Release Treating Packer and unseat Retrievable Bridge Plug.

Re-Set Retrievable Bridge Plug at approximately 1,650'.

7. Acidize new PENROSE SANDSTONE perfs from 1,572' - 1,594':

- 22' Overall;
- 22' of perforations
- 44 Perforations (44 New + 0 Old perfs)

Acid Job Total:

- 2,500 gal 15% NEFE HCI (59.5 Bbls)
- 113.6 gal/ft of perfs
- 56.8 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 1,650'.

Set Treating Packer at approximately 1,400'.

Spot **2.0 Bbls of 15% NEFE HCL (125.4')** plus additives across Penrose Perfs (1,572'-1,594') – Pull up to approximately 1,400' & reverse out tubing – Set Treating Packer at approximately 1,400'.

Pump a total of **2,500 gal 15% NEFE HCI 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 1,594'.

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 flowline and flow back to the Artesia State Unit production Battery until it dies. May need to put pulling unit rig on standby during these flowback times in order to keep workover costs down.

Truck any Oil recovered during Flowback to Artesia State Unit production Battery.

- 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 <u>Fresh Water</u> at least <u>at least 2 times around in order to dissolve rock salt.</u> POOH with workstring and muleshoe.
- 11. Run in hole with 2-3/8" 4.7# J-55 Production Tubing string and 4-1/2"x2-3/8" TAC. Run Tubing & Downhole Equipment configuration as follows:
 - 2-3/8" 4.7# J-55 Tubing to +/- 1,500' (Above Penrose Perfs: 1,572'-1,594')
 - 4-1/2"x2-3/8" TAC
 - 2-3/8" 4.7# J-55 Tubing to +/- 1,962"
 - Endurance Joint
 - 2-3/8" Seating Nipple (set at +/- 1,994' 48' Above Bottom Perf @ 2,024')
 - 2-3/8" x 2-7/8" X-Over
 - 4' 2-7/8" Slotted Sub
 - 1 jt 2-7/8" Mud Anchor Joint with Bull Plug on bottom. (EOT @ approx. 2,030')
 - Run similar Rod Configuration to what was run in Artesia State Unit #501. May need to replace some or all rods & couplings, or install KD Rods at this time, depending of condition of equipment in hole.
 - 1' x 3/4" Lift Sub
 - 20-150-12' RWBC Pump with 12' 1" Gas Anchor on bottom (run into Mud Anchor).

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

- 12. Check Pump for good pump action.
- 13. RDMO Pulling Unit rig.
- Return well to Production and report Daily Production Tests to Midland Office.

H. Patrick Seale December 10, 2014.

ALAMO PERMIAN RESOURCES, LLC WELLBORE DIAGRAM

ARTESIA STATE UNIT #905 Lease/Well No.: **ELEVATION, GL:** 3,561 ft Location: 1.270' FNL & 50' FEL .FIELD: ARTESIA: QN-GB-SA UL: A, SEC: 23, T: 18-S, R:27-E **EDDY County, NM LEASE No.:** State B-10568 Spudded: 1/30/1977 API No.: 30-015-21988 Drlg Stopped: 2/4/1977 Completed: 3/17/1977 **ROTARY DRLG RIG** LAT: LONG: TOC @ Surface TOPS (TEF) DEPTH, ft 12-1/4" HOLE Topped Off - 5 sx YATES **SEVEN RIVERS** Surface Csg: 8-5/8" 24# J-55 307' Csg ... **PENROSE** 1.570 LOCO HILLS 1,822 Csg Set @ 307' **GRAYBURG** 1,842 Cmt'd w/ 150 sx 1,930 METEX + 4 sx Redi-Mix **PREMIER** NDE NDE TOC @ Surface SAN ANDRES Circulated 100 sx 7-7/8" HOLE Well Last Pulled By PERFS: Zone SPF - # Holes Date **CBS Operating** 07/22/2003: QN - Penrose SS 0' 2 spf - 0 holes 64 jts 2-3/8" Tbg No TAC QN - Loco Hills 20' 2 spf - 40 holes S/N @ 2,025' +/-1822 - 1842'. 03/17/77 EOT @ 2,025' +/-4' 2 spf - 8 holes 03/17/77 1904 - 1908' GB - Upper GB 7/22/2003 4' 2 spf - 8 holes 03/17/77 1916 - 1920' GB - Upper GB 4' 2 spf - 8 holes 03/17/77 1947 - 1951' .GB - Metex 1959 - 1965' **GB - Metex** 6' 2 spf - 12 holes 03/17/77 03/17/77 4' 2 spf - 8 holes 1976 - 1980' GB - Metex 10' 2 spf - 20 holes 03/17/77 2002 - 2012' GB - Metex 4' 2 spf - 8 holes 03/17/77 2020 - 2024' GB - Metex **Production Csg:** TOTALS: 56' -- 112 holes 4-1/2" 10.5# J-55 2,040' Csg 2,038' PBTD Csg Set @ 2,040' Cmt'd w/ 600 sx 2,040' TD **Cumulative Prod. (10/31/14):** Drilled by ANADARKO PROD. CO. as the Artesia State Unit Tract 9 Well #5. OIL 15:389* MBO

HPS: 12/10/2014

WATER 96.646* MBW

0.000 MMCF

0.000 MBW

WELL HAS AMERICAN D-80A PUMPING UNIT - 42" STROKE

ACTUAL CUMM's 10/31/2014: 18.031 MBO, 0 MMCF, 104.793 MBW (NMOCD).

GAS

INJECT.

ARTESIA STATE UNIT #905

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

	PERFS		ACID JOB(S)		FRAC JOB(S)					INITIAL POTENTIAL TEST					
				ACID	ACID		FRAC FLUID	FLUID	SAND	5AND		TEST	OIL	GAS	WATER
TOP	<u>BOTTOM</u>	ZONE	DATE	GALS	TYPE	DATE	GALS	TYPE	<u>LBS</u> :	SIZE	REMARKS	DATE	BOPD	MCFD	BWPD
1,822	1,842	QN-Loco Hills	3/17/1977	1,638	15% NEFE HCI	3/1/1977	1,000	15% NEFE HCI				4/1/1977	10	0	37
1,904	1,908	GB-Upper GB					69,500	Gel Wtr	22,000	100 Mesh		All Zo	nes Commi	ngled	
1,916	1,920	GB-Upper GB							42,500	20/40					
1,947	1,951	GB-Metex							12,000	10/20		1			
1,959	1,965	GB-Metex							200	Gypan					
1,976	1,980	GB-Metex													
2,002	2,012	GB-Metex													
2,020	2,024	GB-Metex													

#905

ARTESIA STATE WELL NO. 9-5 x 1270' FNL & 50' FEL UL A SEC. 23 T18S R27E EDDY COUNTY, NM API NO. 30-015-21988

CBS OPERATING CORP. MORNING REPORTS

LAST WORK ON WELL

September 12, 2006

MI & RU Reliable Well Service. Tried to unseat pump. Rods were parted. POH with rods, had 3/4" body break. Picked up 3/4" fishing tool. RIH with rods, fished rods. POH. Replaced 3/4" rod with new one. Respaced well, good pump action. Rigged down and moved out.

CBS OPERATING GRP. MORNING REPORTS

#905

ARTESIA STATE UNIT WELL NO. 9-5 API NO. 30-015-21988 1270' FNL & 50' FEL UL A-23-18S-27E EDDY COUNTY, NEW MEXICO

"July 22, 2003"

MI & RU Basic Energy Services. POH with rods and pump. Picked up 1 joint tubing and tagged bottom. Well was 3' off bottom. Well had little iron on bottom. POH with tubing. Rigged up kill truck and tested tubing back in hole. Replaced 5 jts. of tubing. Ran pump & rods in hole -20' off bottom. Could not get pump jack to run. Laid down on pole. Rigged down and moved out.

CBS OPERATING CORP. MORNING REPORTS

DATE 7-22/03

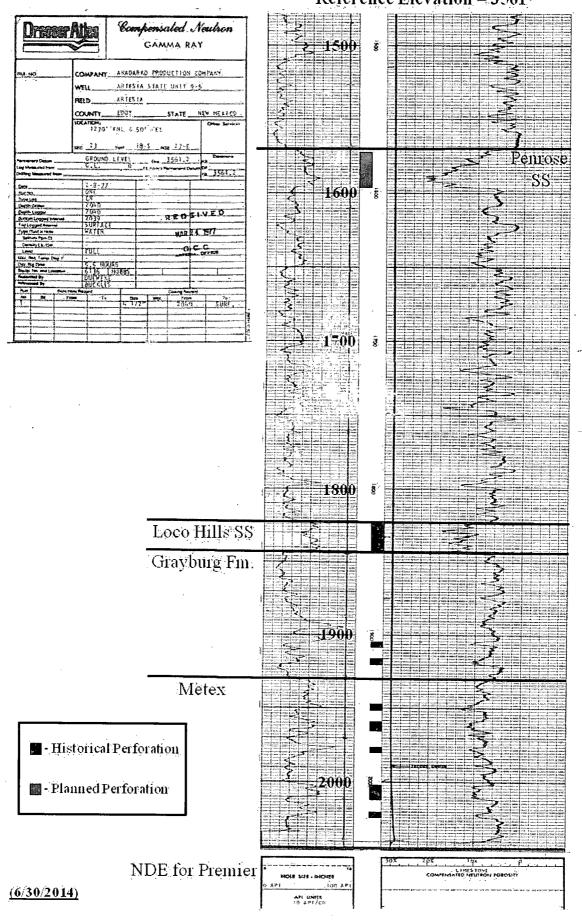
LEASE Artesia State Trac	#905 #9 WELL;
ROD/DATA	
F/G	POLISH ROD 2011 1/4 LINER SUBS OUT 1 × 2 L× 4 1× 4 SHEAR TOOL Subs in 1×2, 1×2, 1×4, 1×4, 1×8
PUMPSIZE out 12 In 12 GAS ANCHOP	
TUBING DATA	INJECTION WELL
CASING SIZE 27/8 TBG JTS 23/8 TBG JTS 04/65 1464 TAC DEPTH TAC TENSION SEATING NIPPLE 9+2025 by r PERF NIPPLE MUD ANCHOR	
New Tubing 4 2-238 subs 8ft 20ft off bottom	

Artesia State #905



30-015-21988

T-18-S, R-27-E, Sec. 23 1270' FNL & 50' FEL Reference Elevation = 3561'



Artesia State #905

