

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AMERICAN PETROLEUM INSTITUTE COMMISSION

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

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

2. Name of Operator
SOCORRO PETROLEUM CO.

3. Address and Telephone No.
P.O. BOX 37, LOCO HILLS, NM 88255 (505) 677-3223

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
140' FSL & 35' FEL, Sec 4-T17S-R31E Unit P

5. Lease Designation and Serial No.
LC 029426-A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
H.E. WEST "A" #23

9. API Well No.

10. Field and Pool, or Exploratory Area
Grayburg Jackson Pool

11. County or Parish, State

Eddy Co., NM

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

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

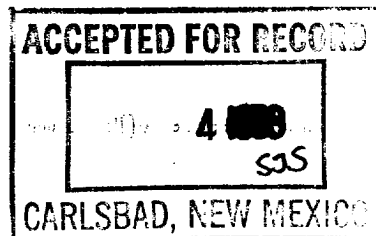
- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other **PERF, ACIDIZE & FRAC**
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion well Completion or Recompletion Report and Log form)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

04/28/93 Spot 250 gallons 15% NEFE acid from 4185'-3935'. POW with 2-7/8" tubing. Perforate well.

ZONE	PERF
Slaughter	4173'-4171'
	4160'-4148'
	4114'-4086'
	TOTAL 84 HOLES



4/29/93 Open well no pressure on tubing. Swab well to SM @ 3935'. Recover approximately 1 bbl acid. RU and acidize Slaughter perfs 4086'-4173' (84 holes) as follows: Set packer @ 3935'. Breakdown pressure 1900# @ 0.37 BPM. Acidize with 3000 gal 15% NEFE acid. Max pressure 1950#, average pressure 1900#, ISIP 1717#, 15 minute SIP 1250#. Final rate 2.26 BM.

CONTINUES ON THE BACK OF THIS PAGE

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

Signed [Signature]
(This space for Federal or State office use)

Title **Production Manager**

Date **5 OCT 93**

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

Title 18 U.S.C. Section 1001, makes 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 statement or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

- 4/30/93 1) Swab Slaughter zone perfs 4086'-4173'. 1st swab run found FL at surface. Total of 16 swab runs. Having 21% oilcut. Holding 500' fluid 22% to 25% oilcut each run.
2) Swab Slaughter zone perfs 4171'-4173'. 1st swab run found FL at surface. Total of 8 swab runs. Last swab run found 250' of fluid 0% oilcut.
- 5/01/93 1) Swab Lower Slaughter zone 4171'-4173'. 1st swab run found FL @ 3700'. Made total of 6 swab runs. Final swab run found 100' of fluid 100% water.
2) Found perfs 4160'-4148' communicated with perfs 4114'-4086'. Swab Slaughter perfs 4086'-4160'. Total of 22 swab runs. Swab fluid level down to 3800' FS, 16%-22% oilcut. Final swab run found 300' of fluid 20% oilcut.

5/03/93 1) Swab Slaughter perfs 4086'-4160'. 1st swab run found FL @ 1300' FS. Rec 6 bbls fluid 25% oilcut. Had 400' free oil on top of first swab run.

5/12/93 Lay down 2-7/8" tubing. Run Digital Sonic Log P&TD 4294'.

8/30/93 1) PU 5-1/2" RBP. Set @ 3853'. Circulate hole clean. Spot 3 bbls acid from 3838'-3718'. POH. RU and perf with 2-JSPF 90° out of phase as follows:

ZONE	PERF
Jackson	3812'-3826'
	3744'-3746'
	TOTAL 32 HOLES

Acidize with 3200 gal 15% NEFE acid. Had good ball action. Ballout occurred. Max pressure 4400#, average pressure 3300#, minimum pressure 2600#, AIR 2.8 BPM, ISIP 3150#, 15 minute SI 2560#.

2) Flow well back to pit.

8/31/93 1) Swab Jackson perfs 3744'-3826'. Found FL 150'. Total of 11 swab runs, 30% oilcut.
2) Pump 20 bbls of water mixed with 55 gals Scale Inhibitor. Over flush with 150 bbls fresh water.
Spot 460 gal 15% acid from 3660'-3200'. RU wireline truck and perforate Grayburg as follows:

GRAYBURG ZONE	PERF
Premier Sand	3530', 26', 22', 20', 15', 13', 03', 3482', 80', 43', 42', 40', 38', 27'
Metex Sand	3399', 96', 83', 80', 76', 70'
Loco Hills Sand	3341', 33'
Grayburg Sand	3262', 59'
	TOTAL 48 HOLES

9/01/93 1) Rig up. Test surface lines to 3000#. Spot 10 bbls acid across Grayburg perfs 3259'-3530' (total 48 holes). Set packer @ 3150'. Breakdown press 1800# @ 1 BPM. Acidize Grayburg perfs 3530'-3259' with 6200 gal 15% NEFE acid. Ballout occurred. Maximum pressure 3900#, average pressure 2400#, minimum pressure 0#, ISIP 2200#, 15 minute SIP 2160#.

2) Circulate balls off RBP @ 3667'.

3) Swab Grayburg perfs 3530'-3259' (SN @ 3150'), had very little feed in.

4) Isolate Premier perfs 3427'-3530'. Swab to SN. Had 300' fluid 1% oil. SWI.

9/02/93 1) Swab Premier perfs 3530'-3427'. Had 1200' fluid entry overnight. Had 120' free oil on top of fluid. 200' fluid feed in having 5% oilcut.

2) Isolate Metex perfs 3370'-3399'. Swab well dry in 3 swab runs. Had 100' fluid with 25% oilcut.

3) Isolate Loco Hills Sand perfs 3341'-3333'. Swab dry in 3 swab runs. Had 75' fluid with 2% oilcut.

4) Isolate Grayburg Sand perfs 3262'-3269'. Swab well dry 2 runs. Had fluid 50' with trace of oil.

9/03/93 Open well with Grayburg Sand (3262'-3259') isolated. Run in hole with swab tag fluid @ 2900'. Had 350' fluid overnight had 100' free oil on top with 25% oilcut through out run.

9/04/93 1) RIH with 2-3/8" monitoring string to 3664'. Test wireline lubricator and BOP to 2000#. Held OK.

2) Run tie-in log with Gamma Ray logging tool in monitoring string.

3) Circulate hole clean with 2% KCL water.

4) Press test surface lines to 4600#.

9/5/93 Frac Grayburg perfs 3259'-3530' (total 48 holes) down 5-1/2" x 2-3/8" casing annulus with 79,000 gal crosslinked gel carrying -157,700# 16/30 mesh sand. Max pressure 3780#, average pressure 3200#, minimum pressure 1940#, AIR 29.5 BPM, ISIP 2250#, 15 minutes SIP 2163#.

9/7/93 Flow to battery on 20/64" choke. (60# FTP). Circulate wellbore clean with 2% KCL water to top of RBP and POH.

9/8/93 First day of production.

9/10/93 First day of test. Pump 24 hours. 46 BO and 293 BW. Test. 13.6% oilcut.