

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

RECEIVED

2. Name of Operator

SOCORRO PETROLEUM COMPANY

DEC 01 1993

3. Address and Telephone No.

P.O. BOX 37, LOCO HILLS, NEW MEXICO 88255

(505) 677-3223

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1250' FNL & 100' FWL, SEC 10, T17S, R31E

UNIT D

5. Lease Designation and Serial No.

LC 029426-B

6. If Indian, Allottee or Tribe Name

7. If Unit or C.A. Agreement Designation

KEEL-WEST WATERFLOOD PROJECT

8. Well Name and No.

H.E. WEST "B" #52

9. API Well No.

30-015-27149

10. Field and Pool, or Exploratory Area

GRAYBURG JACKSON POOL

11. County or Parish, State

EDDY COUNTY, NEW MEXICO

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, ACID & FRAC

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on 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.)

6/07/93 Frac Slaughter perfs 4086'-4198'. Treatment sanded out at 3521#. Pump total of 23,010 gal gel water carrying 29,867# 16-30 sand. Flow well back up csg annulus until sand cleaned up. AIR 12 BPM, ISIP 1400#.

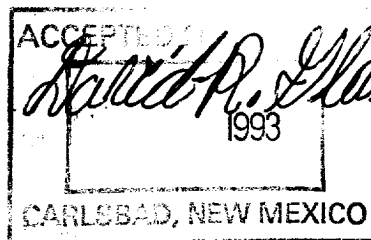
6/08/93 RIH rods and tubing.

7/01/93 Well pumped 57 BO and 35 BW.

7/15/93 Well pumped 23 BO and 49 BW.

7/31/93 Well pumped 20 BO and 41 BW.

8/04/93 POH with rods and pump. Pick up 5-1/2" 15.5# RBP and set @ 4000'. Test to 2000#. Held ok. Spot 15% acid from 3900'-4000'. Perf Jackson 3940'-3980' (total 80 holes) with 2-JSPF. RIH model "R" pkr and set @ 3766'.



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

Signed

Title

PRODUCTION MANAGER

Date

NOVEMBER 4, 1993

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

8/05/93 Acidize Jackson perfs 3940'-3980' (total 80 holes) w/2000 gal 28% acid. Drop 2 salt blocks. Got good blocking action. Max press 2200#, avg press 1800#, min press 1700#, avg rate 2.5 BPM and ISIP 1300#.

8/06/93 Swab perfs 3940'-3980'. Fluid holding @ 3000' FS with oilcut of 2%-3%. RIH rods and tubing.

8/09/93 Well pumped 5 BO and 178 BM.

8/16/93 POH w/rods and pump. Test RBP to 2000#. Spot 125 gal 15% NEFE acid from 3750'-3875'. Perf and Acidize Jackson perfs 3764'-3860' (total 66 holes) with 6000 gal 15% NEFE acid. Max press 4000#, min press 2620#, avg press 2800#, AIR 5 BPM, ISIP 2320#.

8/17/93 Swab Jackson perfs 3764'-3860'. Had 500' fluid entry 25% oilcut. Set RBP @ 3550' & test to 2000#. Spot 350 gals 15% NEFE acid from 3180'-3550'. RIH w/pkr and tbg. RBP set @ 3550'. Set pkr @ 3160'.

8/18/93 1) Acidize Grayburg perfs 3246'-3515' (total 52 holes) w/6000 gals 15% NEFE acid. Max press 3800#, avg press 2600#, min press 1340#, ISIP 2230#, avg rate 3.5 BPM. 166 bbls load to recover.

2) Swab Grayburg perfs 3246'-3515' (total 52 holes). Last swab run fluid level 2900' FS, having a 5% oilcut.

3) Swab Premier perfs 3431'-3515'. Wait 30 min had 500' fluid entry with 20% oilcut.

4) Swab Metex zone 3360'-3404'. Last run had 10% oilcut.

5) Open well. RIH w/swab. Had 1200' fluid entry from Metex perfs 3360'-3404' overnight. Had 200' fluid entry having 5% oilcut.

2) Isolate Loco Hills perfs @ 3325'. Swab to SM. Shut well in for 30 min. Had 75' fluid entry with a trace of oil.

3) Swab Grayburg sands perfs 3246'-3275'. Had 500' fluid entry with 2% oilcut.

8/20/93 1) Set RBP @ 3605' and test to 2000#.

2) RIH w/2-3/8" monitoring string to 3600'.

3) Frac Grayburg perfs 3246'-3515' (total of 52 holes) down 5-1/2" x 2-3/8" CSG annulus w/80,000 gal crosslinked gel carrying 156,000# 16/30 mesh sand. Max press 3355#, avg press 3020#, min press 2260#, AIR 25 BPM, ISIP 2815#. Flow well @ 1/4 bbl minute for 20 minutes for forced closure. Flow back 250 bbl load to tank. Leave well flowing overnight.

8/21/93 Well flowing to test tank w/40# tubing pressure on 20/64" choke. Well flowed 47 bbls oil and 210 bbls water overnight (12 hours). Kill well. POH w/2-3/8" tbg. RIH w/2-1/8" tbg with end of tubing at 3180'.

8/22/93 Flow 15 BO and 10 BM. Well dead. SICP 300#.

8/23/93 Well dead. RIH and pull RBP @ 3605' and 3887'. RIH w/tbg to 3100'.

8/24/93 Open well. Shut in tbg pressure 360# CSG press 200#. Flow back 20 BO and 10 BM. Isolate Jackson perfs 3940'-3980'. Pump sludge and emulsion clean up chemicals. Press to 1280# @ 2.9 BPM. Pump total 2000 gal chemical. ISIP 1070#. SDFM.

8/25/93 Open well, no press on tbg and CSG. Release pkr and RBP. Set RBP @ 3880' and set pkr @ 3765'. Isolate Jackson perfs 3764'-3860'. Pump 3000 gal, treatment to remove emulsion and sludge. Max press 2680#, avg press 2440', max rate 3 BPM, avg rate 2.5 BPM. Swab well. Had 5% oilcut on last run. Isolate Jackson perfs @ 3940'-3980'. Swab perfs. No show of emulsion. SM.

8/26/93 Open well with 40# SITD. RIH w/swab to clean up Jackson perfs 3940'-3980' after sludge clean out. RIH tag fluid @ 2000'. Well cleaned up holding 2% oilcut. Fluid level held @ 3500'. SM.

8/28/93 Pump 25 bbls 2% KCL water with 55 gals scale inhibitor into Jackson perfs 3940'-3980'. Over flush with 150 bbls 2% water. Set RBP @ 3880' and set pkr @ 3765'. Pump 25 bbls 2% KCL water with 55 gals scale inhibitor into Jackson perfs 3764'-3860'. Over flush with 150 bbls 2% KCL water. Ran tubing, pump and rods. Left well pumping.

8/29/93 Pump 24 hours. 73 BO and 288 BM, 20% oilcut.