

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.

LC-029426-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

KEEL-WEST WATERFLOOD PROJECT

8. FARM OR LEASE NAME, WELL NO.

H.E. WEST "A" #22

9. API WELL NO.

30-015-27127

10. FIELD AND POOL, OR WILDCAT

GRAYBURG-JACKSON POOL

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

SEC 4, T17S, R31E

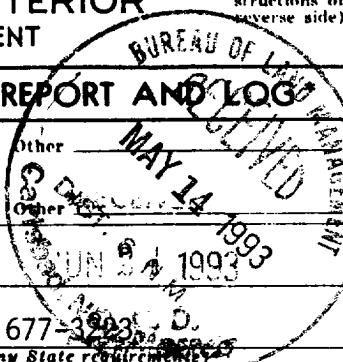
12. COUNTY OR PARISH

EDDY

13. STATE

NM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG



1a. TYPE OF WELL:

OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ Other ☐

2. NAME OF OPERATOR

SOCORRO PETROLEUM COMPANY

3. ADDRESS AND TELEPHONE NO.

P.O. BOX 37, LOCO HILLS, NM 88255 (505) 677-3903

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 1345' FSL, 35' FEL

UNIT I (NESE)

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

2/3/93

16. DATE T.D. REACHED

2/27/93

17. DATE COMPL. (Ready to prod.)

3/31/93

18. ELEVATIONS (DF, RKB, RT, GE, ETC.)*

RKB 3939'

19. ELEV. CASINGHEAD

GL 3928'

20. TOTAL DEPTH, MD & TVD

5022'

21. PLUG BACK T.D., MD & TVD

3560'

22. IF MULTIPLE COMPL., HOW MANY*

-

23. INTERVALS DRILLED BY

→ SURFACE-TD

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

3278'-3522' (43 HOLES) GRAYBURG JACKSON

25. WAS DIRECTIONAL SURVEY MADE

YES

26. TYPE ELECTRIC AND OTHER LOGS RUN

GR-DLL-MSFL-CAL, GR-CNL-LTD-PE-NGT-CAL, SDT, ML-ADEPT, FMI-GR

27. WAS WELL CORRED

YES

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13-3/8" J-55	48#	604'	15"	350SX-CIRC 163 SX TO PIT	
8-5/8" J-55	24#	1815'	12-1/4"	750SX-CIRC 152 SX TO PIT	
5-1/2" J-55	17# & 15.5#	5022'	7-7/8"	1225SX-CIRC 105 SX TO PIT	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	3543'	

31. PERFORATION RECORD (Interval, size and number)

SEE ATTACHED

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
SEE ATTACHED	

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
4/2/93		PUMPING				PRODUCING	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4/2/93	24 HRS	----	→	49	34.3	275	700
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
	10#	→	49	34.3	275	38.2	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

SOLD TO CONOCO

ACCEPTED FOR RECORD

ORIG. SIGN DAVID M. GLASS

JUN 22 1993

35. LIST OF ATTACHMENTS

DEVIATION SURVEY AND LOGS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

PRODUCTION MANAGER
CARLSBAD, NEW MEXICO

DATE

5/13/93

*(See Instructions and Spaces for Additional Data on Reverse Side)

OUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and

38.

GEOLOGIC MARKERS

TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
				MEAS. DEPTH	TRUE VERT. DEPTH
1859'	2167'				
2168'	2781'				
2782'	3196				
3197'	3521'				
3522'					

3/8/93 Perf in acid Basal Slaughter 4990'-4992' (8 holes). Acidize with 750 gal 15% NEPE acid, Max press 3300#, Min press 2870, AIR 1.8 BPM, ISIP 2250#.
Swab with no show of oil or gas, rec 100% water.

3/11/93 Perf and acidize Lower Slaughter perf 4972'-4957' (12 Holes) and 4918'-4878' (24 Holes) w/2000 gal 15% NEPE acid, Max press 3600#, Min press 2600#.
AIR 3 BPM, ISIP 2300#. Swab Lower Slaughter 4972'-4878' 9 runs 0% oilcut. Final found 800' of fluid entry/30 min.

3/12/93 Swab Slaughter perf 4972'-4957' and 4918'-4878' 9 Runs 100% water.

3/12/93 PERFORATED 26 HOLES
Middle Slaughter 4735',32',29',26',24'
Middle Slaughter 4467',65',62',60'
Upper Slaughter 4242',40',38',36'
Upper Slaughter 4213',09',07',05',4200',4194',90'88',84',81'
Upper Slaughter 4106',05',04'

3/13/93 Swab perf 4735'-4724' 100% water.

3/13/93 Swab perf 4467'-4460' 100% water.

3/13/93 Swab perf 4242'-4181' 100% water.

3/13/93 Swab perf 4106'-4104' 100% water.

3/15/93 Swab Slaughter perf 4104'-4735' 5 Runs 1% oilcut.

3/15/93 PERFORATED 33 HOLES (131 FT)
Basal Jackson 4072',69',65',61',56',54'
Lower Jackson 4040',47',44',42',38',36',34',31',25',19',17',05',03',3997',93',87',81',73',71',62',60',58',56',53',49',43',41'

3/15/93 Acidize Basal Jackson and Lower Jackson perf 4072'-3941' w/5000 gal 15% NEPE Acid. Max press 4000#, Avg press 2000#, Min press 1800#, ISIP 1600#.

3/16/93 Swab Basal and Lower Jackson perf 3941'-4072' 9 Runs 18% oilcut. Final run 20% oilcut.

3/17/93 PERFORATED 18 HOLES (105 FT)
Middle Jackson 3852',50',48',35',31',26',17',11',08',07',3794',90'
Upper Jackson 3781',76',73',71',69',38'

3/17/93 Acidize Middle and Upper Jackson perf 3852'-3738' w/3500 gal 15% NEPE acid. Max press 4000#, AVG press 2600#, Min press 1800#, AIR 3.3 BPM, ISIP 1500#.

3/17/93 Swab Middle and Upper Jackson perf 3852'-3738' 15 Runs 10% oilcut.

3/18/93 Swab Upper and Middle Jackson perf 3852'-3738' 15 Runs 18% oilcut. Final run no change in oilcut.

3/18/93 PERFORATED
Upper Slaughter 6 Holes (9 Ft) 4160',58',56'
Lovington Sand 6 Holes (9 Ft) 3646',48',50'

3/19/93 Acidize Lovington perf 3646'-3650' w/2000 gal 15% NEPE acid. Max press 4000#, AVG press 2600#, Min press 2200#, AIR 3 BPM, ISIP 2500#.

3/19/93 Swab Lovington perf 3646'-3670' 10 Runs 0% oilcut. Final run 100% water.

3/20/93 Swab Lovington perf 3650'-3646' 4 Runs 1% oilcut.

3/20/93 PERFORATED
Upper SA Carb 7 Holes 3590',89',81',77',74',71'
Premier 11 Holes 3522',20',18',15',11',08',04',2499',97',93',87'
Premier 3 Holes 3477',75',70'
Premier 2 Holes 3462',60'
Premier 4 Holes 3437',35',34',32'
Metex 8 Holes 3407',04',3400',3397',95',93',91',89'
Metex 6 Holes 3379',77',75',73',71',67'
Loco Hills Sand 3 Holes 3352',40',33'
Grayburg Sand 6 Holes 3291',89',87',82',80',78'

3/20/93 Acidize Upper SA Carb., Premier, Metex, Loco Hills Sand and Grayburg Sand perf 3590'-3278' w/4500 gal 15% NEPE acid. Max press 3800#, Min press 2600#,
AVG press 3000#, AIR 4.8 BPM, ISIP 2200#.

3/20/93 Swab Upper SA Carb., Premier, Metex, Loco Hills Sand and Grayburg Sand perf 3590'-3278' 12 runs 10% to 15% oilcut. Final run found 500' of fluid
entry/30 min.

3/22/93 Swab Upper SA Carb., Premier, Metex, Loco Hills Sand and Grayburg Sand perf 3590'-3278' 4 Runs. Final run 5% oilcut. Had 400' oil on first run.

3/22/93 Swab Upper SA Carb perf 3571'-3590' 3% oilcut. 800' fluid entry/30 min with 2%-3% oilcut.

3/22/93 Swab Premier perf 3522'-3432' 10 Runs to 3% oilcut. 800' fluid entry/30 min.

3/23/93 Swab Premier perf 3432'-3522' 5 Runs 10% oilcut.

3/23/93 Swab Metex perf 3367'-3407' 5 Runs 7.5% oilcut. 700' fluid entry/30 min.

3/23/93 Swab Loco Hills perf 3333'-3352' 4 Runs 7% oilcut.

3/23/93 Swab Grayburg perf 3278'-3291' 3 Runs 8% oilcut.

3/23/93 Swab Middle and Upper Slaughter perf 4104'-4735' 5 Runs 5% oilcut.

3/24/93 Swab Middle and Upper Slaughter perf 4104'-4735' 5 Runs 6% oilcut.

3/24/93 Swab Basal Jackson and Lower Jackson perf 3941'-4072' 2 Runs 16% oilcut.

3/27/93 Acidize Grayburg perf 3278'-3522' (43 Holes) w/2000 gal acid. Max press 3300#, Min press 1900#, AIR 7 BPM, ISIP 2475#.

3/27/93 Frac Grayburg perf 3278'-3522' w/90000 gal crosslinked gel +120000# 20/40 Brady Sand +25000# 12/20 Brady Sand, & 25000# 12/20 Resin coated sand. Max
2170# and 2800# Min 2615# ISIP 2505# AIR 7 BPM

WELL NAME AND NUMBER H. E. West "A" 22
LOCATION 1345' FSL & 35' FEL, Section 4, T17S, R31E, Eddy County, NM
OPERATOR Socorro Petroleum
DRILLING CONTRACTOR United Drilling, Inc.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and had conducted deviation tests and obtained the following results:

<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>
<u>1/4° 488'</u>	<u> </u>	<u> </u>
<u>1/4° 991'</u>	<u> </u>	<u> </u>
<u>1/2° 1513'</u>	<u> </u>	<u> </u>
<u>1/2° 2006'</u>	<u> </u>	<u> </u>
<u>3/4° 2528'</u>	<u> </u>	<u> </u>
<u>1/2° 3020'</u>	<u> </u>	<u> </u>
<u>1-1/4° 4470'</u>	<u> </u>	<u> </u>
<u>1° 5022'</u>	<u> </u>	<u> </u>

Drilling Contractor United Drilling, Inc.

By: W. M. Gibbs

Title: Business Manager

Subscribed and sworn to before me this 3rd day of March,
1993.

Karma Lamberson
Notary Public

My Commission Expires: 9-25-95

Chaves N.M.
County State