

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPL. "E"

(See other in-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

NM-14799

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Union "A" Federal

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Lea (Penn) Gas

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

Sec. 10, T20S, R34E

12. COUNTY OR

PARISH

Lea

13. STATE

NM

1a. TYPE OF WELL:

OIL  
WELL ☐GAS  
WELL ☐DRY ☒

Other

b. TYPE OF COMPLETION:

NEW  
WELL ☐WORK  
OVER ☐DEEP-  
EN ☐PLUG  
BACK ☐DIFF.  
RESVR. ☐

Other

2. NAME OF OPERATOR

Estoril Producing Corporation

CARLS

ARENA

3. ADDRESS OF OPERATOR

400 W. Illinois, Suite 1600, Midland, Texas 79701

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

At surface 1980 FSL &amp; 1980 FWL, NE/4 SW/4, Unit K

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

4-15-88

15. DATE SPUDDED

5-6-88

16. DATE T.D. REACHED

6-20-88

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, RES, RT, GR, ETC.)\*

3634.2 GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD &amp; TVD

13,590'

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

22. IF MULTIPLE COMPL.,  
HOW MANY\*23. INTERVALS  
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0-13,590'

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

None

25. WAS DIRECTIONAL  
SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

LD/CNL &amp; RFT

27. WAS WELL CORED

No

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

| CASING SIZE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD                                  | AMOUNT PULLED |
|-------------|-----------------|----------------|-----------|---------------------------------------------------|---------------|
| 13-3/8      | 68#             | 1623           | 17 1/2    | 1200 sx "C" w/2% CaCl                             | None          |
| 8-5/8       | 32#             | 5110           | 12 1/4    | 300 sx "C" Thickset +<br>500 sx "C" + 2060 sx "H" | None          |
|             |                 |                |           | Lite                                              |               |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|---------------|-------------|----------------|-----------------|
|      |          |             |               |             |                |                 |
|      |          |             |               |             |                |                 |

31. PERFORATION RECORD (Interval, size and number)

None

HOBBS, NEW MEXICO

CONCRETE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)

AMOUNT AND KIND OF MATERIAL USED

33.\*

PRDUCTION

DATE FIRST PRODUCTION

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

WELL STATUS (Producing or  
shut-in)

DATE OF TEST

HOURS TESTED

CHOKE SIZE

PROD'N. FOR  
TEST PERIOD

OIL—BBL.

GAS—MCF.

WATER—BBL.

GAS-OIL RATIO

FLOW, TUBING PRESS.

CASING PRESSURE

CALCULATED  
24-HOUR RATE

OIL—BBL.

GAS—MCF.

WATER—BBL.

OIL GRAVITY-API (CORR.)

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

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Form 3160-5, Directional Survey, Logs

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

SIGNED

Betsy Minner

TITLE

Prod. Supervisor

DATE

7-6-88

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

SJS  
CARLSBAD, NEW MEXICO

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

| 37. SUMMARY OF POROUS ZONES:<br>SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES |     |        |                             | 38. GEOLOGIC MARKERS |             |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------|-----------------------------|----------------------|-------------|------------------|
| FORMATION                                                                                                                                                                                                                                          | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME                 | MEAS. DEPTH | TRUE VERT. DEPTH |
|                                                                                                                                                                                                                                                    |     |        |                             | Delaware Lm          | 5332        |                  |
|                                                                                                                                                                                                                                                    |     |        |                             | Cherry Canyon        | 5578        |                  |
|                                                                                                                                                                                                                                                    |     |        |                             | Bone Springs         | 8077        |                  |
|                                                                                                                                                                                                                                                    |     |        |                             | Wolfcamp             | 11248       |                  |
|                                                                                                                                                                                                                                                    |     |        |                             | Strawn               | 12066       |                  |
|                                                                                                                                                                                                                                                    |     |        |                             | Strawn Lime          | 12316       |                  |
|                                                                                                                                                                                                                                                    |     |        |                             | Atoka Shale          | 12448       |                  |
|                                                                                                                                                                                                                                                    |     |        |                             | Atoka Lime           | 12621       |                  |
|                                                                                                                                                                                                                                                    |     |        |                             | Morrow               | 13006       |                  |

JUL 27 1986