

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

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

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

|                                                                                                                                   |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
|-----------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------|----------------------------------------------|-----------------------------------|------------------------------------|---------------------------------------------------|--------------------------------|------------------------------------|--|---------------|--|-------------------------|--|---------------|--|
| 1a. TYPE OF WELL:                                                                                                                 |  | OIL WELL <input type="checkbox"/>                                    | GAS WELL <input checked="" type="checkbox"/> | DRY <input type="checkbox"/>      | Other <input type="checkbox"/>     |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| b. TYPE OF COMPLETION:                                                                                                            |  | NEW WELL <input checked="" type="checkbox"/>                         | WORK OVER <input type="checkbox"/>           | DEEP-EN <input type="checkbox"/>  | PLUG BACK <input type="checkbox"/> | DIFF. RESVR. <input type="checkbox"/>             | Other <input type="checkbox"/> |                                    |  |               |  |                         |  |               |  |
| 2. NAME OF OPERATOR                                                                                                               |  |                                                                      |                                              |                                   |                                    | 14. PERMIT NO.                                    | DATE ISSUED                    |                                    |  |               |  |                         |  |               |  |
| Pan American Petroleum Corporation                                                                                                |  |                                                                      |                                              |                                   |                                    |                                                   | MAY 13 1964                    |                                    |  |               |  |                         |  |               |  |
| 3. ADDRESS OF OPERATOR                                                                                                            |  |                                                                      |                                              |                                   |                                    | U. S. GEOLOGICAL SURVEY                           |                                |                                    |  |               |  |                         |  |               |  |
| P. O. Box 480 Farmington, New Mexico                                                                                              |  |                                                                      |                                              |                                   |                                    | FARMINGTON, N. M.                                 |                                |                                    |  |               |  |                         |  |               |  |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*                                      |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| At surface 1850' FSL and 1190' FSL                                                                                                |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| At top prod. interval reported below                                                                                              |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| At total depth Same                                                                                                               |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| 15. DATE SPUDDED                                                                                                                  |  | 16. DATE T.D. REACHED                                                |                                              | 17. DATE COMPL. (Ready to prod.)  |                                    | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*           |                                | 19. ELEV. CASINGHEAD               |  |               |  |                         |  |               |  |
| 4-21-64                                                                                                                           |  | April 21, 1964                                                       |                                              | May 3, 1964                       |                                    | RKB 5304                                          |                                |                                    |  |               |  |                         |  |               |  |
| 20. TOTAL DEPTH, MD & TVD                                                                                                         |  | 21. PLUG, BACK T.D., MD & TVD                                        |                                              | 22. IF MULTIPLE COMPL., HOW MANY* |                                    | 23. INTERVALS DRILLED BY                          |                                | ROTARY TOOLS                       |  | CABLE TOOLS   |  |                         |  |               |  |
| 6032                                                                                                                              |  | 5997                                                                 |                                              | —                                 |                                    | —                                                 |                                | 0-6032                             |  |               |  |                         |  |               |  |
| 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*                                                     |  |                                                                      |                                              |                                   |                                    |                                                   |                                | 25. WAS DIRECTIONAL SURVEY MADE    |  |               |  |                         |  |               |  |
| 5855 - 5928 Graneros Dakota                                                                                                       |  |                                                                      |                                              |                                   |                                    |                                                   |                                | No                                 |  |               |  |                         |  |               |  |
| 5928 - 5990 Main Dakota                                                                                                           |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| 26. TYPE ELECTRIC AND OTHER LOGS RUN                                                                                              |  |                                                                      |                                              |                                   |                                    |                                                   |                                | 27. WAS WELL CORED                 |  |               |  |                         |  |               |  |
| Induction Electric and Gamma Ray Sonic                                                                                            |  |                                                                      |                                              |                                   |                                    |                                                   |                                | No                                 |  |               |  |                         |  |               |  |
| 28. CASING RECORD (Report all strings set in well)                                                                                |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| CASING SIZE                                                                                                                       |  | WEIGHT, LB./FT.                                                      |                                              | DEPTH SET (MD)                    |                                    | HOLE SIZE                                         |                                | CEMENTING RECORD                   |  | AMOUNT PULLED |  |                         |  |               |  |
| 8 5/8"                                                                                                                            |  | 24#                                                                  |                                              | 358                               |                                    | 12 1/4"                                           |                                | 250 Sacks                          |  | None          |  |                         |  |               |  |
| 4 1/2"                                                                                                                            |  | 10.5#                                                                |                                              | 6032                              |                                    | 7 7/8"                                            |                                | 1600 Sacks                         |  | None          |  |                         |  |               |  |
| 29. LINER RECORD                                                                                                                  |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| SIZE                                                                                                                              |  | TOP (MD)                                                             |                                              | BOTTOM (MD)                       |                                    | SACKS CEMENT*                                     |                                | SCREEN (MD)                        |  |               |  |                         |  |               |  |
|                                                                                                                                   |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| 30. TUBING RECORD                                                                                                                 |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| SIZE                                                                                                                              |  | DEPTH SET (MD)                                                       |                                              | PACKER SET (MD)                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| 2 3/8"                                                                                                                            |  | 5849                                                                 |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| 31. PERFORATION RECORD (Interval, size and number)                                                                                |  |                                                                      |                                              |                                   |                                    | 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.    |                                |                                    |  |               |  |                         |  |               |  |
| 5936-60 and 5972-84 with 2 shots per foot                                                                                         |  |                                                                      |                                              |                                   |                                    | DEPTH INTERVAL (MD)                               |                                |                                    |  |               |  |                         |  |               |  |
| 5856-68 with 4 shots per foot                                                                                                     |  |                                                                      |                                              |                                   |                                    | AMOUNT AND KIND OF MATERIAL USED                  |                                |                                    |  |               |  |                         |  |               |  |
|                                                                                                                                   |  |                                                                      |                                              |                                   |                                    | 5936-60x5972-84 47,910 Gal Water x 50,000 lb Sand |                                |                                    |  |               |  |                         |  |               |  |
|                                                                                                                                   |  |                                                                      |                                              |                                   |                                    | 5856-68 25,110 Gal Water x 20,000 lb Sand         |                                |                                    |  |               |  |                         |  |               |  |
| 33.* PRODUCTION                                                                                                                   |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| DATE FIRST PRODUCTION                                                                                                             |  | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) |                                              |                                   |                                    |                                                   |                                | WELL STATUS (Producing or shut-in) |  |               |  |                         |  |               |  |
|                                                                                                                                   |  | Flow                                                                 |                                              |                                   |                                    |                                                   |                                | Shut-in                            |  |               |  |                         |  |               |  |
| DATE OF TEST                                                                                                                      |  | HOURS TESTED                                                         |                                              | CHOKE SIZE                        |                                    | PROD'N. FOR TEST PERIOD                           |                                | OIL—BBL.                           |  | GAS—MCF.      |  | WATER—BBL.              |  | GAS-OIL RATIO |  |
| May 3, 1964                                                                                                                       |  | 3                                                                    |                                              | 3/4"                              |                                    | —                                                 |                                |                                    |  | 1,250         |  |                         |  |               |  |
| FLOW. TUBING PRESS.                                                                                                               |  | CASING PRESSURE                                                      |                                              | CALCULATED 24-HOUR RATE           |                                    | OIL—BBL.                                          |                                | GAS—MCF.                           |  | WATER—BBL.    |  | OIL GRAVITY-API (CORR.) |  |               |  |
| 775                                                                                                                               |  | 1625                                                                 |                                              | —                                 |                                    |                                                   |                                | 10,000                             |  |               |  |                         |  |               |  |
| 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)                                                                        |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| To be sold to El Paso Natural Gas Company                                                                                         |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| 35. LIST OF ATTACHMENTS                                                                                                           |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| None                                                                                                                              |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| Fred L. Nabors, District Engineer                                                                                                 |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| SIGNED                                                                                                                            |  |                                                                      |                                              | ORIGINAL SIGNED BY                |                                    |                                                   |                                | TITLE                              |  |               |  |                         |  |               |  |
| Fred L. Nabors                                                                                                                    |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |
| DATE May 8, 1964                                                                                                                  |  |                                                                      |                                              |                                   |                                    |                                                   |                                |                                    |  |               |  |                         |  |               |  |

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

# 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<br>DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES |      |        | 38. GEOLOGIC MARKERS |             |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|----------------------|-------------|------------------|
| FORMATION                                                                                                                                                                                                                                             | TOP  | BOTTOM | NAME                 | MEAS. DEPTH | TRUE VERT. DEPTH |
| Sand x Shale                                                                                                                                                                                                                                          | 0    | 1340   |                      |             |                  |
| Pictured Cliffs                                                                                                                                                                                                                                       | 1340 | 1550   |                      |             |                  |
| Lewis Shale                                                                                                                                                                                                                                           | 1550 | 2907   |                      |             |                  |
| Kesavertle                                                                                                                                                                                                                                            | 2907 | 4075   |                      |             |                  |
| Kancone Shale                                                                                                                                                                                                                                         | 4075 | 4994   |                      |             |                  |
| Gallup                                                                                                                                                                                                                                                | 4994 | 5358   |                      |             |                  |
| Base Gallup                                                                                                                                                                                                                                           | 5358 | 5758   |                      |             |                  |
| Greenhorn                                                                                                                                                                                                                                             | 5758 | 5820   |                      |             |                  |
| Graneros Shale                                                                                                                                                                                                                                        | 5820 | 5855   |                      |             |                  |
| Graneros Dakota                                                                                                                                                                                                                                       | 5855 | 5928   |                      |             |                  |
| Main Dakota                                                                                                                                                                                                                                           | 5928 | 6032   |                      |             |                  |