

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

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

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

|                                                                                                                                                                                                                           |                                                |                                                                                                     |                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| 1a. TYPE OF WELL:<br>OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <b>Water Injection</b>                                                                        |                                                | 5. LEASE DESIGNATION AND SERIAL NO.<br><b>LC-02419 (a)</b>                                          |                                                            |
| b. TYPE OF COMPLETION:<br>NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input checked="" type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other |                                                | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                                                |                                                            |
| 2. NAME OF OPERATOR<br><b>Shelly Oil Company</b>                                                                                                                                                                          |                                                | 7. UNIT AGREEMENT NAME<br><b>Shelly Unit</b>                                                        |                                                            |
| 3. ADDRESS OF OPERATOR<br><b>Box 730 - Hobbs, New Mexico</b>                                                                                                                                                              |                                                | 8. FARM OR LEASE NAME                                                                               |                                                            |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*<br>At surface <b>1900' FUL &amp; 640' FUL Section 22-178-31E</b><br>At top prod. interval reported below<br>At total depth   |                                                | 9. WELL NO.<br><b>54</b>                                                                            |                                                            |
| 14. PERMIT NO.                                                                                                                                                                                                            |                                                | DATE ISSUED                                                                                         |                                                            |
| 10. FIELD AND POOL, OR WILDCAT<br><b>Grayburg Jackson</b>                                                                                                                                                                 |                                                | 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA<br><b>Section 22-178-31E</b>                      |                                                            |
| 12. COUNTY OR PARISH<br><b>McKittrick</b>                                                                                                                                                                                 |                                                | 13. STATE<br><b>New Mexico</b>                                                                      |                                                            |
| 15. DATE SPUDDED                                                                                                                                                                                                          | 16. DATE T.D. REACHED<br><b>April 29, 1967</b> | 17. DATE COMPL. (Ready to prod.)<br><b>May 2, 1967</b>                                              | 18. ELEVATIONS (DF, RKB, BT, GR, ETC.)*<br><b>3628' BW</b> |
| 19. ELEV. CASINGHEAD                                                                                                                                                                                                      | 20. TOTAL DEPTH, MD & TVD<br><b>3802' MD</b>   |                                                                                                     |                                                            |
| 21. PLUG, BACK T.D., MD & TVD<br><b>3801' MD</b>                                                                                                                                                                          |                                                | 22. IF MULTIPLE COMPL., HOW MANY*                                                                   |                                                            |
| 23. INTERVALS DRILLED BY                                                                                                                                                                                                  |                                                | ROTARY TOOLS<br><b>3451-3802'</b>                                                                   |                                                            |
| 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*<br><b>Injection Zones - 3127-3470' - Grayburg<br/>3150-3788' - San Andres</b>                                                               |                                                | 25. WAS DIRECTIONAL SURVEY MADE<br><b>No</b>                                                        |                                                            |
| 26. TYPE ELECTRIC AND OTHER LOGS RUN<br><b>Walog - Gamma Ray Neutron Log</b>                                                                                                                                              |                                                | 27. WAS WELL CORED<br><b>No</b>                                                                     |                                                            |
| 28. CASING RECORD (Report all strings set in well)                                                                                                                                                                        |                                                |                                                                                                     |                                                            |
| CASING SIZE                                                                                                                                                                                                               | WEIGHT, LB./FT.                                | DEPTH SET (MD)                                                                                      | HOLE SIZE                                                  |
| CEMENTING RECORD                                                                                                                                                                                                          |                                                |                                                                                                     |                                                            |
| AMOUNT PULLED                                                                                                                                                                                                             |                                                |                                                                                                     |                                                            |
| <b>See completion log dated - October 9, 1958</b>                                                                                                                                                                         |                                                |                                                                                                     |                                                            |
| 29. LINER RECORD                                                                                                                                                                                                          |                                                |                                                                                                     |                                                            |
| SIZE                                                                                                                                                                                                                      | TOP (MD)                                       | BOTTOM (MD)                                                                                         | SACKS CEMENT*                                              |
| <b>4-1/2"OD</b>                                                                                                                                                                                                           | <b>3272</b>                                    | <b>3801</b>                                                                                         | <b>100</b>                                                 |
| SCREEN (MD)                                                                                                                                                                                                               |                                                |                                                                                                     |                                                            |
| <b>---</b>                                                                                                                                                                                                                |                                                |                                                                                                     |                                                            |
| 30. TUBING RECORD                                                                                                                                                                                                         |                                                |                                                                                                     |                                                            |
| SIZE                                                                                                                                                                                                                      | DEPTH SET (MD)                                 | PACKER SET (MD)                                                                                     |                                                            |
| <b>2-3/8"OD</b>                                                                                                                                                                                                           | <b>3490'</b>                                   | <b>3490'</b>                                                                                        |                                                            |
| 31. PERFORATION RECORD (Interval, size and number)                                                                                                                                                                        |                                                |                                                                                                     |                                                            |
| <b>Perforated 4-1/2"OD liner from 3127' to 3788' with a total of 41' and 41 shots.<br/>(See attached sheet for details)</b>                                                                                               |                                                |                                                                                                     |                                                            |
| 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.                                                                                                                                                                            |                                                |                                                                                                     |                                                            |
| DEPTH INTERVAL (MD)                                                                                                                                                                                                       |                                                | AMOUNT AND KIND OF MATERIAL USED                                                                    |                                                            |
| <b>3510-3788'</b>                                                                                                                                                                                                         |                                                | <b>2000 gals. 15% Reg. acid</b>                                                                     |                                                            |
| <b>3127-3470'</b>                                                                                                                                                                                                         |                                                | <b>2000 gals. 15% Reg. acid.</b>                                                                    |                                                            |
| 33.* PRODUCTION                                                                                                                                                                                                           |                                                |                                                                                                     |                                                            |
| DATE FIRST PRODUCTION                                                                                                                                                                                                     |                                                | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)<br><b>Water Injection Well</b> |                                                            |
| 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—MCF.                                                                                                                                                                                                                  |                                                | 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<br><b>See attached sheet for detail of deepening.</b>                                                                                                                                             |                                                |                                                                                                     |                                                            |
| 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records                                                                                         |                                                |                                                                                                     |                                                            |
| SIGNED <b>(SIGNED) V. E. Fletcher</b>                                                                                                                                                                                     |                                                | TITLE <b>District Superintendent</b>                                                                |                                                            |
| DATE <b>May 3, 1967</b>                                                                                                                                                                                                   |                                                |                                                                                                     |                                                            |

\*(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 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 | TOP<br>TRUE VERT. DEPTH |
| Grayburg<br>San Andres                                                                                                                                                                                                                             | 0<br>3451<br>3472 | 3451<br>3472<br>3602 | See completion log dated October 9, 1958.<br>Sand & Dolomite<br>Dolomite | San Andres           | 3472'       |                         |
| <del>Grayburg</del><br><del>San Andres</del>                                                                                                                                                                                                       |                   |                      |                                                                          |                      |             |                         |
| See attached sheet.                                                                                                                                                                                                                                |                   |                      |                                                                          |                      |             |                         |

DEEPENING RECORD FOR SKELLY UNIT NO. 54

1. Moved in and rigged up Workover Rig.
2. Pulled tubing and packer.
3. Ran drill pipe with 6-1/4" bit.
4. Deepened well from 3451' to 3802'.
5. Ran Welox Gamma Ray Neutron Log.
6. Set 16 jts. (529') of new 4-1/2" 9.5# & 10.5# casing liner 3272-3801' and cemented with 100 sacks of cement.
7. Drilled and cleaned out cement inside of 4-1/2"OD liner to 3801'. PWD 3801'.
8. Tested liner with no pressure loss.
9. Perforated 4-1/2"OD liner with one shot per interval at the following depths:  
3127', 3139', 3152', 3189', 3202', 3229', 3236', 3251', 3265', 3274', 3298', 3311', 3320', 3333', 3348', 3364', 3381', 3400', 3414', 3422', 3429', 3435', 3440', 3454', 3460', 3470', 3510', 3520', 3531', 3562', 3579', 3584', 3664', 3689', 3710', 3727', 3738', 3746', 3769', 3776', and 3788', a total of 41' and 41 shots.
10. Isolated and treated through 4-1/2"OD casing perforations 3510-3788' (Intervals) with 2000 gallons 15% Reg. Acid and 24 ball sealers.
11. Isolated and treated through 4-1/2"OD casing perforations 3127-3470' (Intervals) with 2,000 gals. 15% Reg. Acid and 33 ball sealers.
12. Pulled retrievable bridge plug.
13. Set Baker Model "Y" Production Packer at 3490'.
14. Ran 2-3/8"OD tubing with Baker Model "E" Seal Assembly and set in packer at 3490'.
15. Installed dual injection equipment.
16. Water will be injected down the tubing into the San Andres Formation through 4-1/2"OD liner perforations 3510-3788' (Intervals) and down the casing-tubing annulus into the Grayburg Formation through 4-1/2" OD liner perforations 3127-3470' (Intervals).
17. No tests on injection rates.

RECEIVED

MAY 6 1967

F. C. C.  
ANALYSIS OFFICE

- [illegible]