

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:<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <input type="checkbox"/>  |                 | 5. LEASE DESIGNATION AND SERIAL NO.<br>NM-025777  |                         |
| b. TYPE OF COMPLETION:<br>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"/> |                 | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME  |                         |
| 2. NAME OF OPERATOR<br>Westall - Mask  |                 | 7. UNIT AGREEMENT NAME  |                         |
| 3. ADDRESS OF OPERATOR<br>Drawer 1477, Roswell NM 88201  |                 | 8. FARM OR LEASE NAME<br>Keohane/Federal  |                         |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*<br>At surface 2,310' from East line and 330' from South line<br>At top prod. interval reported below<br>At total depth                                |                 | 9. WELL NO.<br>2-1  |                         |
| 14. PERMIT NO.   |                 | DATE ISSUED<br>JAN 5 1979   |                         |
| 15. DATE SPUDDED<br>11/30/78   |                 | 16. DATE T.D. REACHED<br>12/7/78  |                         |
| 17. DATE COMPL. (Ready to prod.)<br>12/27/78   |                 | 18. ELEVATIONS (DF, REB, RT, GR, ETC.)*<br>ARTESIA, OFFICE 3689.5 Gr.                     |                         |
| 19. ELEV. CASINGHEAD   |                 | 20. TOTAL DEPTH, MD & TVD<br>4,200'   |                         |
| 21. PLUG, BACK T.D., MD & TVD  |                 | 22. IF MULTIPLE COMPL., HOW MANY*   |                         |
| 23. INTERVALS DRILLED BY   |                 | ROTARY TOOLS<br>X   |                         |
| 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*<br>Grayburg 3,785 (6 Holes)<br>4,075 (3 Holes) 4,135 (3 Holes)   |                 | 25. WAS DIRECTIONAL SURVEY MADE   |                         |
| 26. TYPE ELECTRIC AND OTHER LOGS RUN<br>Gammatron  |                 | 27. WAS WELL CORED  |                         |
| 28. CASING RECORD (Report all strings set in well)   |                 |   |                         |
| CASINO SIZE  | WEIGHT, LB./FT. | DEPTH SET (MD)  | HOLE SIZE               |
| 8 5/8  | 20#             | 685'  |                         |
| 4 1/2  | 9 1/2#          | 4216' 420°  |                         |
| CEMENTING RECORD   |                 |   |                         |
| 300 Sacks Class "C"  |                 |   |                         |
| 365 Sacks Class "C"  |                 |   |                         |
| AMOUNT PULLED  |                 |   |                         |
| 29. LINER RECORD   |                 |   |                         |
| SIZE   | TOP (MD)        | BOTTOM (MD)   | SACKS CEMENT*           |
|  |                 |   |                         |
| 30. TUBING RECORD  |                 |   |                         |
| SIZE   | DEPTH SET (MD)  | PACKER SET (MD)   |                         |
|  |                 |   |                         |
| 31. PERFORATION RECORD (Interval, size and number)   |                 |   |                         |
| 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.   |                 |   |                         |
| DEPTH INTERVAL (MD)  |                 | AMOUNT AND KIND OF MATERIAL USED  |                         |
| 3,785' (6 Holes)   |                 | Spot 40,000 Gals. Gelled  |                         |
| 4,075' (3 Holes)   |                 | 2% KCL Water & 300 Gal DS-30  |                         |
| 4,135' (3 Holes)   |                 | 39,000 # Sand 20/40   |                         |
| 33. PRODUCTION   |                 |   |                         |
| DATE FIRST PRODUCTION<br>12/27/78  |                 | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)<br>Pump Ideco MM 600 |                         |
| DATE OF TEST<br>12/27/78   |                 | WELL STATUS (Producing or shut-in)<br>Producing   |                         |
| HOURS TESTED<br>24   | CHOKE SIZE      | PROD'N. FOR TEST PERIOD   | OIL—BBL.<br>40          |
|  |                 |   | GAS—MCF.<br>TSTM        |
|  |                 |   | WATER—BBL.<br>20        |
|  |                 |   | GAS-OIL RATIO           |
| FLOW. TUBING PRESS.  | CASING PRESSURE | CALCULATED 24-HOUR RATE   | OIL—BBL.<br>40          |
|  |                 |   | GAS—MCF.<br>TSTM        |
|  |                 |   | WATER—BBL.<br>20        |
|  |                 |   | OIL GRAVITY-API (CORR.) |
| 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)<br>Continental Oil Company (Purchaser)  |                 |   |                         |
| 35. LIST OF ATTACHMENTS<br>2 Dual Laterologs, 2 Neutron Gamma ray Logs, Geologist Report and Archaeologist Report  |                 |   |                         |
| 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  |                 |   |                         |
| SIGNED — Jack Mark   |                 | TITLE (Agent) Co-Owner  |                         |
| DATE 12/29/78  |                 |   |                         |

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

Water is going into Shenandoah Oil Corp. waterflood.

# 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                 | TOP         |                  |
|  |        |        |                                |                      | MEAS. DEPTH | TRUE VERT. DEPTH |
| Seven Rivers   | 2,620' |        | No Sand seen in Queen Interval |                      |             |                  |
| Queen  | - - -  |        |                                |                      |             |                  |
| 1st Sand   | 3,570' |        |                                |                      |             |                  |
| Penrose  | 3,610' |        |                                |                      |             |                  |
| Grayburg   | 3,800' |        |                                |                      |             |                  |
| Premier  | 4,000' |        |                                |                      |             |                  |
| San Andres   | 4,060' |        |                                |                      |             |                  |

KAY C. HAVENOR  
GEOLOGIST

505/623-7184  
SUITE 1004  
SECURITY NATIONAL BANK BUILDING  
ROSWELL, NEW MEXICO 88201

December 8, 1978

Westall - Mask  
Drawer 1477  
Roswell, NM 88201

Gentlemen:

Samples on your 24-1 Keohane Federal were examined in my office per request of Mr. Jim Jennings. Results, mostly negative, were reported Thursday evening to Mr. Westall in Artesia, via telephone.

Samples from 2500' to 4100' were delivered to Roswell. Most of the samples had been washed to the point that few sands were visible. No shows were observed. No significant dolomite porosity was seen.

Sample tops, as can be called are:

|              |         |                                 |
|--------------|---------|---------------------------------|
| Seven Rivers | 2620'   |                                 |
| Queen        | ----    | no sand seen in Queen interval. |
| 1st sand     | 3570'   |                                 |
| Penrose      | 3610'   |                                 |
| Grayburg     | 3800'   |                                 |
| Premier      | 4000'   |                                 |
| San Andres   | 4060'?? |                                 |

Last sample: 4100'

Samples are in the hall of the tenth floor Security National Bank Building in order that your personnel may pick them up.

Enclosed are the original sample description sheets on this well.

Respectfully submitted,

*Kay C. Havenor*

Kay C. Havenor  
Certified Professional Geologist

