

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other in-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-B355.5.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

|                                                                                              |  |                                              |                                    |                                  |                                    |                                                  |                                |
|----------------------------------------------------------------------------------------------|--|----------------------------------------------|------------------------------------|----------------------------------|------------------------------------|--------------------------------------------------|--------------------------------|
| 1a. TYPE OF WELL:                                                                            |  | OIL WELL <input checked="" type="checkbox"/> | GAS WELL <input 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                                                                          |  |                                              |                                    |                                  |                                    | Jicarilla Contract #47                           |                                |
| Chace Oil Company, Inc.                                                                      |  |                                              |                                    |                                  |                                    | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME             |                                |
| 3. ADDRESS OF OPERATOR                                                                       |  |                                              |                                    |                                  |                                    | Jicarilla Apache                                 |                                |
| 313 Washington, SE, Albuquerque, NM 87108                                                    |  |                                              |                                    |                                  |                                    | 7. UNIT AGREEMENT NAME                           |                                |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* |  |                                              |                                    |                                  |                                    | 8. FARM OR LEASE NAME                            |                                |
| At surface Unit 'D' - 510' FNL & 560' FWL                                                    |  |                                              |                                    |                                  |                                    | Jicarilla Tribal Contract #47                    |                                |
| At top prod. interval reported below                                                         |  |                                              |                                    |                                  |                                    | 9. WELL NO.                                      |                                |
| At total depth                                                                               |  |                                              |                                    |                                  |                                    | 10. FIELD AND POOL, OR WILDCAT                   |                                |
| 14. PERMIT NO.                                                                               |  |                                              |                                    |                                  |                                    | South Lindrith Gallup Dakota                     |                                |
| DATE ISSUED                                                                                  |  |                                              |                                    |                                  |                                    | 11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA |                                |
| 15. DATE SPUDDED                                                                             |  |                                              |                                    |                                  |                                    | Section 13, T23N, R4W                            |                                |
| 16. DATE T.D. REACHED                                                                        |  |                                              |                                    |                                  |                                    | 12. COUNTY OR PARISH                             |                                |
| 17. DATE COMPL. (Ready to prod.)*                                                            |  |                                              |                                    |                                  |                                    | 13. STATE                                        |                                |
| 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*                                                      |  |                                              |                                    |                                  |                                    | Rio Arriba New Mexico                            |                                |

|                                                                               |                              |                                   |                          |              |                                 |
|-------------------------------------------------------------------------------|------------------------------|-----------------------------------|--------------------------|--------------|---------------------------------|
| 5/7/85                                                                        | 5/20/85                      | 6/6/85                            | 7322' GR                 | 7323'        |                                 |
| 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                     |
| 7480' KB                                                                      | 7435' KB                     |                                   | 0-7480'                  | No           |                                 |
| 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* |                              |                                   |                          |              | 25. WAS DIRECTIONAL SURVEY MADE |
| Gallup: 6202'-6345'; Greenhorn: 7114'-7134'; Dakota 'A': 7192'-7210';         |                              |                                   |                          |              | Yes                             |
| Tocito: 6924'-6928'; Dakota 'D': 7352'-7374';                                 |                              |                                   |                          |              |                                 |
| 26. TYPE ELECTRIC AND OTHER LOGS RUN                                          |                              |                                   |                          |              | 27. WAS WELL CORED              |
| Induction and density                                                         |                              |                                   |                          |              |                                 |

|                                                    |                 |                |           |                             |               |
|----------------------------------------------------|-----------------|----------------|-----------|-----------------------------|---------------|
| 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#/ft          | 225' KB        | 12 1/4"   | SEE ATTACHED 200 (236 CF)   | None          |
| 4 1/2"                                             | 11.6#/ft        | 7480' KB       | 7 7/8"    | SEE ATTACHED 1885 (3080 CF) | None          |

|                  |          |             |               |             |                     |                |                 |
|------------------|----------|-------------|---------------|-------------|---------------------|----------------|-----------------|
| 29. LINER RECORD |          |             |               |             | 30. TUBING RECORD   |                |                 |
| SIZE             | TOP (MD) | BOTTOM (MD) | BACKS CEMENT* | SCREEN (MD) | SIZE                | DEPTH SET (MD) | PACKER SET (MD) |
|                  |          |             |               |             | 2 3/8               | 7331.5' KB     | None            |
|                  |          |             |               |             | S. N. # 7295 77' KB |                |                 |

|                                                   |  |                                                |                                  |
|---------------------------------------------------|--|------------------------------------------------|----------------------------------|
| 31. PERFORATION RECORD (Interval, size and type)* |  | 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. |                                  |
| SEE ATTACHED                                      |  | 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) |               |
| 6/7/85                                                     |                 | Swabbing                                                             |                         |          |            | Producing                          |               |
| DATE OF TEST                                               | HOURS TESTED    | CHOKE SIZE                                                           | PROD'N. FOR TEST PERIOD | OIL—BBL. | GAS—MCF.   | WATER—BBL.                         | GAS-OIL RATIO |
| 6/8/85                                                     | 24              | 2"                                                                   |                         | 121      | 19         | 43                                 | 157           |
| FLOW. TUBING PRESS.                                        | CASING PRESSURE | CALCULATED 24-HOUR RATE                                              | OIL—BBL.                | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.)            |               |
| 145                                                        | 160             |                                                                      | 121                     | 19       | 43         | 42                                 |               |
| 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) |                 |                                                                      |                         |          |            | TEST WITNESSED BY                  |               |
| To be sold, used for fuel                                  |                 |                                                                      |                         |          |            | Andy Birdsell                      |               |
| 35. LIST OF ATTACHMENTS                                    |                 |                                                                      |                         |          |            |                                    |               |

|                                                                                                                                   |           |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------|
| 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records |           |
| SIGNED                                                                                                                            | TITLE     |
| <i>D. W. Miller</i>                                                                                                               | President |
| FARMINGTON-RESOURCE AREA                                                                                                          |           |
| DATE 6/11/85                                                                                                                      |           |
| BY                                                                                                                                |           |

\*(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 83, 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.)

## Jicarilla Apache 47-17 Well

37. SUMMARY OF POROUS ZONES:  
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

| FORMATION     | TOP   | BOTTOM            | DESCRIPTION, CONTENTS, ETC.              | 38. GEOLOGIC MARKERS |             |                  |
|---------------|-------|-------------------|------------------------------------------|----------------------|-------------|------------------|
|               |       |                   |                                          | NAME                 | MEAS. DEPTH | TRUE VERT. DEPTH |
| Ojo Alamo     | 2576' | 2742'             | Sand - wet                               |                      |             |                  |
| Pict. Cliffs  | 2981' | 3038'             | Sand - w/ coal and shale strks - no show |                      |             |                  |
| Chacra        | 3334' | 4020'             | Shale - w/ sd strks - no show            |                      |             |                  |
| Cliff House   | 4515' | 4576'             | Sand and shale - tite                    |                      |             |                  |
| Point Lookout | 5088' | 5244'             | Sand - wet                               |                      |             |                  |
| Gallup        | 5772' | 6408'             | Sand and shale - oil and gas             |                      |             |                  |
| Juana Lopez   | 6804' | 6935'             | Sand and shale - poss shows              |                      |             |                  |
| Greenhorn     | 7086' | 7149'             | Sandy lime - oil and gas shows           |                      |             |                  |
| Dakota 'A'    | 7174' | 7265'             | Sand w/ sh strks - oil and gas           |                      |             |                  |
| Dakota 'D'    | 7320' | 7400'             | Sand w/ sh strks - oil and gas           |                      |             |                  |
| Burro Canyon  | 7423' | Still in<br>at TD | Sand - wet                               |                      |             |                  |

Jicarilla Apache 47-17 Well:

#28. Cementing Record:

Spud: Cemented with 200 sks (236 CF) of Class B neat, 1/4/lb. per sack Flocele, 3% calcium chloride.

First Stage: Cemented with 1260 sks (1802 CF) 50/50 pozmix, 2% gel, 6 1/4/lb. per sack Gilsonite, 6 lb/sk salt.

Second Stage: Cemented with 575 sks (1219 CF) 65/35 pozmix, 6% gel, 12 1/4 lb/sk Gilsonite.

Tailed in with 50 sks (59 CF) Class B neat

#31. Perforation Record:

Dakota 'D': 7352', 7354', 7356', 7358', 7362', 7364', 7366', 7368', 7370', 7372', 7374', 4 SPF, 44 holes.

Dakota 'A': 7192', 7194', 7196', 7198', 7200', 7202', 7204', 7206', 7208', 7210', 3 SPF, 30 holes.

Greenhorn: 7114', 7117', 7124', 7127', 7130', 7134', 18 holes, 3 SPF.

Tocito: 6924', 6926', 6928', 3 SPF, 9 holes.

Gallup: 6202', 6206', 6208', 6210', 6212', 6214', 6216', 6218', 6220', 6222', 6224', 6226', 6228', 6230', 6232', 6238', 6240', 6242', 6244', 6246', 6248', 6250', 6252', 6254', 6301', 6303', 6305', 6334', 6337', 6339', 6341', 6343', 6345', 3 SPF, 99 holes.

#32. Acid, Fracture:

Dakota 'D': 250 gal 7 1/2% acetic acid  
67,700 lbs 20/40 sand  
2,600 bbls water

Dakota 'A':) 300 gal 7 1/2% Hcl  
Greenhorn:) 90,000 lbs 20/40 sand  
Tocito:) 2,500 bbls water

Gallup: 400 gal 7 1/2% Hcl  
125,000 lbs 20/40 sand  
3,400 bbls water