

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 ☐ GAS WELL ☒ DRY ☐ Other \_\_\_\_\_

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR

Getty Oil Company

3. ADDRESS OF OPERATOR

P.O. Box 3360, Casper, Wyoming 82602

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

At surface 1520' FNL &amp; 790' FWL

At top prod. interval reported below same

At total depth same

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED

2-5-81

15. DATE SPURRED

2-22-81

16. DATE T.D. REACHED

3-8-81

17. DATE COMPL. (Ready to prod.)

3-20-81

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

5916' GL 5927' KB

19. ELEV. CASINGHEAD

-

20. TOTAL DEPTH, MD &amp; TVD

6370'

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

6325'

22. IF MULTIPLE COMPL., HOW MANY\*

-

23. INTERVALS DRILLED BY

ROTARY TOOLS

0'-6370'

CABLE TOOLS

-

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

Dakota 6203'-6257'

25. WAS DIRECTIONAL SURVEY MADE  
Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL, CNL-FDC, CBL-GR

27. WAS WELL CORED  
No

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

| CASING SIZE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | AMOUNT PULLED |
|-------------|-----------------|----------------|-----------|---------------|
| 8 5/8"      | 24#             | 321'           | 12 1/4"   |               |
| 5 1/2"      | 14 & 15.5#      | 6368'          | 7 7/8"    | 39.84'        |

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" | 6246'          |                 |

31. PERFORATION RECORD (Interval, size and number)

32, 0.42" holes 6203'-6225'  
6232'-6235'  
6247'-6249'  
6255'-6257'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED  
6203'-6257' Acidized with 1500 gals 15%  
HCl. Fraced with 95,000 gals 20# gel, 898,200  
SCF of N<sub>2</sub>, & 80,000 # of 20-40 sand.

33.\* PRODUCTION

|                       |                 |                                                                      |                         |          |            |                         |                                    |  |
|-----------------------|-----------------|----------------------------------------------------------------------|-------------------------|----------|------------|-------------------------|------------------------------------|--|
| DATE FIRST PRODUCTION |                 | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) |                         |          |            |                         | WELL STATUS (Producing or shut-in) |  |
| 3-16-81               |                 | Flowing                                                              |                         |          |            |                         | Shut-in                            |  |
| DATE OF TEST          | HOURS TESTED    | CHOKE SIZE                                                           | PROD'N. FOR TEST PERIOD | OIL—BBL. | GAS—MCF.   | WATER—BBL.              | GAS-OIL RATIO                      |  |
| 3-30-81               | 3               | 3/4"                                                                 | →                       | 12       | 550        | 5                       | 46                                 |  |
| FLOW. TUBING PRESS.   | CASING PRESSURE | CALCULATED 24-HOUR RATE                                              | OIL—BBL.                | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.) |                                    |  |
| 254#                  | 672#            | →                                                                    | 96                      | 3564     | 40         | 59.0                    |                                    |  |

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

Vented

TEST WITNESSED BY

Paul Berhost

35. LIST OF ATTACHMENTS

ACCEPTED FOR RECORD

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

SIGNED

TITLE Area Superintendent

MAY 1 1981  
DATE 4-21-81

FARMINGTON DISTRICT

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

BY

RB

NMOCC

# 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 | DESCRIPTION, CONTENTS, ETC. | NAME                                                                                                                        | MEAS. DEPTH                                                                          | TRUE VERT. DEPTH |
| Dakota                                                                                                                                                                                                                                                | 6122' |        |                             | Ojo Alamo<br>Kirtland<br>Fruitland<br>Pic. Cliffs<br>Chacra<br>Cliff House(MV)<br>Gallup<br>Greenhorn<br>Graneros<br>Dakota | 392'<br>508'<br>1467'<br>1592'<br>2510'<br>3137'<br>5203'<br>6027'<br>6088'<br>6122' |                  |

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122  
 Revised 9-1-65

|                                                                                                                           |                    |                                |                       |                                                   |                    |                                              |                  |                                     |                    |
|---------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------|-----------------------|---------------------------------------------------|--------------------|----------------------------------------------|------------------|-------------------------------------|--------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                    |                                |                       |                                                   |                    | Test Date<br><b>3-30-81</b>                  |                  |                                     |                    |
| Company<br><b>GETTY OIL COMPANY</b>                                                                                       |                    |                                |                       | Connection<br><b>Not Connected</b>                |                    |                                              |                  |                                     |                    |
| Pool<br><b>BASIN</b>                                                                                                      |                    |                                |                       | Formation<br><b>DAKOTA</b>                        |                    |                                              |                  | Unit                                |                    |
| Completion Date<br><b>3-20-81</b>                                                                                         |                    | Total Depth<br><b>6370</b>     |                       | Plug Back TD<br><b>6320</b>                       |                    | Elevation<br><b>5934 G.L.</b>                |                  | Farm or Lease Name<br><b>FED.2W</b> |                    |
| Csg. Size<br><b>5.500</b>                                                                                                 | Wt.<br><b>15.5</b> | d<br><b>4.950</b>              | Set At<br><b>6368</b> | Perforations:<br>From <b>6203</b> To <b>6257</b>  |                    | Well No.<br><b>1E</b>                        |                  |                                     |                    |
| Tbg. Size<br><b>2.375</b>                                                                                                 | Wt.<br><b>4.7</b>  | d<br><b>1.990</b>              | Set At<br><b>6248</b> | Perforations:<br>From <b>Open</b> To <b>Ended</b> |                    | Unit<br><b>E</b>                             | Sec.<br><b>2</b> | Twp.<br><b>27N</b>                  | Rge.<br><b>12W</b> |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br><b>Single Gas</b>                                              |                    |                                |                       |                                                   |                    | Packer Set At                                |                  | County<br><b>San Juan</b>           |                    |
| Producing Thru                                                                                                            |                    | Reservoir Temp. °F<br><b>6</b> |                       | Mean Annual Temp. °F                              |                    | Baro. Press. - P <sub>a</sub><br><b>12.0</b> |                  | State<br><b>New Mexico</b>          |                    |
| L<br><b>6248</b>                                                                                                          | H<br><b>6248</b>   | Gg<br><b>.720</b>              | % CO <sub>2</sub>     | % N <sub>2</sub>                                  | % H <sub>2</sub> S | Prover<br><b>2.000</b>                       | Meter Run        | Taps                                |                    |

  

| FLOW DATA |                     |   |              |                 |                      |          | TUBING DATA     |           | CASING DATA     |          | Duration of Flow |
|-----------|---------------------|---|--------------|-----------------|----------------------|----------|-----------------|-----------|-----------------|----------|------------------|
| NO.       | Prover Line Size    | X | Orifice Size | Press. p.s.i.g. | Diff. h <sub>w</sub> | Temp. °F | Press. p.s.i.g. | Temp. °F  | Press. p.s.i.g. | Temp. °F |                  |
| SI        |                     |   |              |                 |                      |          | <b>1612</b>     |           | <b>1670</b>     |          | <b>168 HRSI</b>  |
| 1.        | <b>2.000 x .750</b> |   |              |                 |                      |          | <b>402</b>      | <b>60</b> | <b>1004</b>     |          | <b>1st hr.</b>   |
| 2.        | <b>2.000 x .750</b> |   |              |                 |                      |          | <b>281</b>      | <b>60</b> | <b>721</b>      |          | <b>2nd hr.</b>   |
| 3.        | <b>2.000 x .750</b> |   |              |                 |                      |          | <b>254</b>      | <b>60</b> | <b>672</b>      |          | <b>3rd hr.</b>   |
| 4.        |                     |   |              |                 |                      |          |                 |           |                 |          |                  |
| 5.        |                     |   |              |                 |                      |          |                 |           |                 |          |                  |

  

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                       |                   |                             |                      |
|---------------------------|-----------------------|------------------|-------------------------|-----------------------|-------------------|-----------------------------|----------------------|
| NO.                       | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P <sub>m</sub> | Flow Temp. Factor Ft. | Gravity Factor Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
| 1                         | <b>11.000</b>         |                  | <b>414</b>              | <b>1.000</b>          | <b>1.179</b>      | <b>1.060</b>                | <b>5691</b>          |
| 2                         | <b>11.000</b>         |                  | <b>293</b>              | <b>1.000</b>          | <b>1.179</b>      | <b>1.038</b>                | <b>3944</b>          |
| 3                         | <b>11.000</b>         |                  | <b>266</b>              | <b>1.000</b>          | <b>1.179</b>      | <b>1.033</b>                | <b>3564</b>          |
| 4.                        |                       |                  |                         |                       |                   |                             |                      |
| 5.                        |                       |                  |                         |                       |                   |                             |                      |

  

|     |                |          |                |   |                                                         |
|-----|----------------|----------|----------------|---|---------------------------------------------------------|
| NO. | P <sub>t</sub> | Temp. °R | T <sub>r</sub> | Z | Gas Liquid Hydrocarbon Ratio <b>1,000 to 3</b> Mcf/bbl. |
| 1   |                |          |                |   | A.P.L. Gravity of Liquid Hydrocarbons _____ Deg.        |
| 2.  |                |          |                |   | Specific Gravity Separator Gas _____ X X X X X X X X    |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid _____ X X X X X          |
| 4.  |                |          |                |   | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.         |
| 5.  |                |          |                |   | Critical Temperature _____ R _____ R                    |

  

|                            |                                            |                |                             |                                                           |
|----------------------------|--------------------------------------------|----------------|-----------------------------|-----------------------------------------------------------|
| P <sub>c</sub> <b>1682</b> | P <sub>c</sub> <sup>2</sup> <b>2829124</b> |                |                             |                                                           |
| NO.                        | P <sub>t</sub> <sup>2</sup>                | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |
| 1                          |                                            |                |                             |                                                           |
| 2                          |                                            |                |                             |                                                           |
| 3                          | <b>70756</b>                               | <b>672</b>     | <b>451584</b>               | <b>2377540</b>                                            |
| 4                          |                                            |                |                             |                                                           |
| 5                          |                                            |                |                             |                                                           |

(1)  $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1899$

(2)  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1393$

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.061$

  

|                                                                                                                            |                        |                     |
|----------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------|
| Absolute Open Flow <b>4.061</b> Mcfd @ 15.025                                                                              | Angle of Slope @ _____ | Slope, n <b>.75</b> |
| Remarks: _____                                                                                                             |                        |                     |
| Approved By Commission: _____ Conducted By: <b>Paul D. Berhost</b> Calculated By: <b>Paul D. Berhost</b> Checked By: _____ |                        |                     |