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Form C-105  
Revised 11-1-8

# NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG

|                                |                                         |
|--------------------------------|-----------------------------------------|
| 5a. Indicate Type of Lease     |                                         |
| State <input type="checkbox"/> | Fee <input checked="" type="checkbox"/> |
| 5. State Oil & Gas Lease No.   |                                         |
|                                |                                         |

|                                                                                                                                                                                                              |                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| TYPE OF WELL                                                                                                                                                                                                 |                                                                                                          |
| OIL WELL <input type="checkbox"/>                                                                                                                                                                            | GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> |
| TYPE OF COMPLETION                                                                                                                                                                                           |                                                                                                          |
| NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/> |                                                                                                          |

|                        |
|------------------------|
| 7. Unit Agreement Name |
| 8. Farm or Lease Name  |
| Graves                 |

Name of Operator

|             |
|-------------|
| 9. Well No. |
| 4           |

Harvey E. Yates Company  
Address of Operator

|                                |
|--------------------------------|
| 10. Field and Pool, or Wildcat |
| Cato - San Andres              |

Post Office Box 1933, Roswell, New Mexico 88201  
Location of Well

T. LETTER M LOCATED 660 FEET FROM THE South LINE AND 660 FEET FROM

|            |
|------------|
| 12. County |
| Chaves     |

West LINE OF SEC. 6 TWP. 8S RGE. 31E NMPM

|              |                       |                                  |                                        |                      |
|--------------|-----------------------|----------------------------------|----------------------------------------|----------------------|
| Date Spudded | 16. Date T.D. Reached | 17. Date Compl. (Ready to Prod.) | 18. Elevations (DF, RKB, RT, GR, etc.) | 19. Elev. Casinghead |
| 3/31/78      | 4/7/78                |                                  | 4167.3' GL                             |                      |

|             |                    |                                  |                          |              |             |
|-------------|--------------------|----------------------------------|--------------------------|--------------|-------------|
| Total Depth | 21. Plug Back T.D. | 22. If Multiple Compl., How Many | 23. Intervals Drilled By | Rotary Tools | Cable Tools |
| 3795'       |                    |                                  |                          | 0-3795'      |             |

Producing Interval(s), of this completion - Top, Bottom, Name

|                                 |
|---------------------------------|
| 25. Was Directional Survey Made |
| No                              |

Type Electric and Other Logs Run

|                    |
|--------------------|
| 27. Was Well Cored |
| No                 |

CNL

## CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT LB./FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD          | AMOUNT PULLED |
|-------------|----------------|-----------|-----------|---------------------------|---------------|
| 8 5/8"      | 23#            | 1262'     | 11"       | 375 sx Lite & 100 sx C1 C | 2% CaCl       |
| 4 1/2"      | 9.5# & 11.6#   | 3785'     | 7 7/8"    | 275 sx C1 C 50-50 POZ     | - 1550'       |

## LINER RECORD

| SIZE | TOP | BOTTOM | SACKS CEMENT | SCREEN |
|------|-----|--------|--------------|--------|
|      |     |        |              |        |

## 30. TUBING RECORD

| SIZE | DEPTH SET | PACKER SET |
|------|-----------|------------|
|      |           |            |

## Perforation Record (Interval, size and number)

3583', 84' & 86' - 3 holes  
3638', 39', 42', 44', 51', 55', 61', 66' & 67' - 9 holes  
3700', 12', 13' - 3 holes | 1940' - 2 holes  
3746', 49' & 50' - 3 holes | 1833'-1842'-18 holes

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

| DEPTH INTERVAL | AMOUNT AND KIND MATERIAL USED |
|----------------|-------------------------------|
|                | SEE ATTACHED                  |

## PRODUCTION

|                  |                                                                     |                                |
|------------------|---------------------------------------------------------------------|--------------------------------|
| First Production | Production Method (Flowing, gas lift, pumping - Size and type pump) | Well Status (Prod. or Shut-in) |
|------------------|---------------------------------------------------------------------|--------------------------------|

|               |                 |                         |                         |            |              |                           |                 |
|---------------|-----------------|-------------------------|-------------------------|------------|--------------|---------------------------|-----------------|
| Vol Test      | Hours Tested    | Choke Size              | Prod'n. For Test Period | Oil - Bbl. | Gas - MCF    | Water - Bbl.              | Gas - Oil Ratio |
| tubing Press. | Casing Pressure | Calculated 24-Hour Rate | Oil - Bbl.              | Gas - MCF  | Water - Bbl. | API Gravity - API (Corr.) |                 |

Disposition of Gas (Sold, used for fuel, vented, etc.)

Test Witnessed by

List of Attachments

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Paul Harder

TITLE Engineer

DATE 6/29/78

## INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 30 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

**INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE**

### Southeastern New Mexico

### Northwestern New Mexico

|                           |                        |                             |                         |
|---------------------------|------------------------|-----------------------------|-------------------------|
| T. Anhy _____             | T. Canyon _____        | T. Ojo Alamo _____          | T. Penn. "B" _____      |
| T. Salt _____             | T. Strawn _____        | T. Kirtland-Fruitland _____ | T. Penn. "C" _____      |
| B. Salt _____             | T. Atoka _____         | T. Pictured Cliffs _____    | T. Penn. "D" _____      |
| T. Yates <u>1750</u>      | T. Miss _____          | T. Cliff House _____        | T. Leadville _____      |
| T. 7 Rivers <u>1912</u>   | T. Devonian _____      | T. Menefee _____            | T. Madison _____        |
| T. Queen <u>2380</u>      | T. Silurian _____      | T. Point Lookout _____      | T. Elbert _____         |
| T. Grayburg _____         | T. Montoya _____       | T. Mancos _____             | T. McCracken _____      |
| T. San Andres <u>2840</u> | T. Simpson _____       | T. Gallup _____             | T. Ignacio Qtzite _____ |
| T. Glorieta _____         | T. McKee _____         | Base Greenhorn _____        | T. Granite _____        |
| T. Paddock _____          | T. Ellenburger _____   | T. Dakota _____             | T. _____                |
| T. Blinebry _____         | T. Gr. Wash _____      | T. Morrison _____           | T. _____                |
| T. Tubb _____             | T. Granite _____       | T. Todilto _____            | T. _____                |
| T. Drinkard _____         | T. Delaware Sand _____ | T. Entrada _____            | T. _____                |
| T. Abo _____              | T. Bone Springs _____  | T. Wingate _____            | T. _____                |
| T. Wolfcamp _____         | T. P1 <u>3535</u>      | T. Chinle _____             | T. _____                |
| T. Penn. _____            | T. P2 <u>3625</u>      | T. Permian _____            | T. _____                |
| T. Cisco (Bough C) _____  | T. P3 <u>3724</u>      | T. Penn. "A" _____          | T. _____                |
| T. Bowers <u>2215</u>     |                        |                             |                         |

OIL OR GAS SANDS OR ZONES

## OIL OR GAS SANDS OR ZONES

No. 1, from 3384 to \_\_\_\_\_

No. 2, from \_\_\_\_\_ to \_\_\_\_\_

No. 3, from \_\_\_\_\_ to \_\_\_\_\_

No. 4, from \_\_\_\_\_ to \_\_\_\_\_

No. 5, from \_\_\_\_\_ to \_\_\_\_\_

No. 6, from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet. ....

No. 2, from.....to.....feet. ....

No. 3, from.....to.....feet. ....

No. 4, from.....to.....feet. ....

FORMATION RECORD (Attach additional sheets if necessary)

| From | To   | Thickness<br>in Feet | Formation       | From | To | Thickness<br>in Feet | Formation |
|------|------|----------------------|-----------------|------|----|----------------------|-----------|
| 0    | 1140 | 1140                 | red beds & anhy |      |    |                      |           |
| 1140 | 2487 | 1347                 | anhy            |      |    |                      |           |
| 2487 | 3795 | 1308                 | lime            |      |    |                      |           |