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

Form C-105  
Revised 11-4-74

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|                                           |                              |
|-------------------------------------------|------------------------------|
| 5a. Indicate Type of Lease                |                              |
| State <input checked="" type="checkbox"/> | Fee <input type="checkbox"/> |
| 5. State Oil & Gas Lease No.              |                              |
| 647-349                                   | 647-351                      |

1a. TYPE OF WELL  
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐  
b. TYPE OF COMPLETION  
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

MAY 4 1979

O. C. C.

ARTESIA, OFFICE

|                                         |
|-----------------------------------------|
| 7. Unit Agreement Name                  |
| Empire Abo Pressure Maintenance Project |
| 8. Farm or Lease Name                   |
| Empire Abo Unit "G"                     |

2. Name of Operator  
ARCO Oil and Gas Company  
Division of Atlantic Richfield Company  
3. Address of Operator  
Box 1710, Hobbs, New Mexico 88240

|                                |
|--------------------------------|
| 9. Well No.                    |
| 324                            |
| 10. Field and Pool, or Wildcat |
| Empire Abo                     |

4. Location of Well  
UNIT LETTER I LOCATED 2250 FEET FROM THE South LINE AND 235 FEET FROM THE East  
LINE OF SEC. 33 TWP. 17S RGE. 28E

|            |
|------------|
| 12. County |
| Eddy       |

|                                                                   |                       |                                  |                                          |                                 |
|-------------------------------------------------------------------|-----------------------|----------------------------------|------------------------------------------|---------------------------------|
| 15. Date Spudded                                                  | 16. Date T.D. Reached | 17. Date Compl. (Ready to Prod.) | 18. Elevations (D.F., RKB, RT, GR, etc.) | 19. Elev. Casinghead            |
| 3/1/79                                                            | 3/14/79               | 4/1/79                           | 3662.3' GR                               |                                 |
| 20. Total Depth                                                   | 21. Plug Back T.D.    | 22. If Multiple Compl., How Many | 23. Intervals Drilled by Rotary Tools    | Cable Tools                     |
| 6370'                                                             | 6331'                 |                                  | 0-6370'                                  |                                 |
| 24. Producing Interval(s), of this completion - Top, Bottom, Name |                       |                                  |                                          | 25. Was Directional Survey Made |
| 6252-6262' Abo Reef                                               |                       |                                  |                                          | No                              |
| 26. Type Electric and Other Logs Run                              |                       |                                  |                                          | 27. Was Well Cored              |
| CNL-FDC w/caliper, DLL w/RXO & CBL                                |                       |                                  |                                          | No                              |

| 28. CASING RECORD (Report all strings set in well) |                |           |           |                  |               |
|----------------------------------------------------|----------------|-----------|-----------|------------------|---------------|
| CASING SIZE                                        | WEIGHT LB./FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
| 8-5/8" OD                                          | 24# K-55       | 775'      | 11"       | 700 sx           |               |
| 5-1/2" OD                                          | 15.5# K-55     | 6370'     | 7-7/8"    | 1270 sx          |               |
|                                                    |                |           |           |                  |               |
|                                                    |                |           |           |                  |               |

| 29. LINER RECORD |     |        |              |        | 30. TUBING RECORD |           |            |
|------------------|-----|--------|--------------|--------|-------------------|-----------|------------|
| SIZE             | TOP | BOTTOM | SACKS CEMENT | SCREEN | SIZE              | DEPTH SET | PACKER SET |
|                  |     |        |              |        | 2-3/8" OD         | 6101'     | 6110'      |
|                  |     |        |              |        |                   |           |            |

|                                                    |                                                |                                                                                                                                                 |
|----------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 31. Perforation Record (Interval, size and number) | 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. |                                                                                                                                                 |
| 6252-6262' - 20 .48" holes                         | DEPTH INTERVAL                                 | AMOUNT AND KIND MATERIAL USED                                                                                                                   |
|                                                    | 6252-6262'                                     | 1000 gal 60/40 pad acid, flush w/27 BLC, 150 gal 15% LSTNE-FE acid, 1000 gal 10# gelled CaCl, 1000 gal LC, 1500 gal 15% LSTNE-FE acid, flush w/ |

|                       |                                                                     |                                |                         |            |              |                           |               |
|-----------------------|---------------------------------------------------------------------|--------------------------------|-------------------------|------------|--------------|---------------------------|---------------|
| 33. PRODUCTION        |                                                                     | 27 BLC                         |                         |            |              |                           |               |
| Date First Production | Production Method (Flowing, gas lift, pumping - Size and type pump) | Well Status (Prod. or Shut-in) |                         |            |              |                           |               |
| 3/25/79               | Pmpg                                                                | -Prod-                         |                         |            |              |                           |               |
| Date of Test          | Hours Tested                                                        | Choke Size                     | Prod'n. Per Test Period | Oil - Bbl. | Gas - MCF    | Water - Bbl.              | Gas-Oil Ratio |
| 4/29/79               | 24 hrs                                                              | -                              |                         | 185        | 80           | 0                         | 432:1         |
| Flow Testing Press.   | Casing Pressure                                                     | Calculated 24-Hour Rate        | Oil - Bbl.              | Gas - MCF  | Water - Bbl. | Oil Gravity - API (Corr.) |               |
| 3000# hyd press pkr   |                                                                     |                                | 185                     | 80         | 0            | 44°                       |               |

|                                                            |                   |
|------------------------------------------------------------|-------------------|
| 34. Disposition of Gas (Sold, used for fuel, vented, etc.) | Test Witnessed By |
| Sold                                                       | N. H. Truitt      |

35. List of Attachments  
Logs as listed in Item 26 above & Inclination Report.

36. 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 [Signature] TITLE Dist. Drlg. Supt. DATE 5/2/79

## 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 a copy of all electrical and radioactivity logs run in the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured by tape. In the case of sectionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 20 through 34 shall be reported for each zone. The form is to be filed in quadruplicate 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 _____           | T. Miss _____          | T. Cliff House _____        | T. Leadville _____     |
| T. 7 Rivers _____        | T. Devonian _____      | T. Menefee _____            | T. Madison _____       |
| T. Queen _____           | T. Silurian _____      | T. Point Lookout _____      | T. Elbert _____        |
| T. Grayburg _____        | T. Montoya _____       | T. Mancos _____             | T. McCracken _____     |
| T. San Andres _____      | T. Simpson _____       | T. Gallup _____             | T. Ignacio Qtzte _____ |
| T. Glorieta _____        | T. McKee _____         | Base Greenhorn _____        | T. Granite _____       |
| T. Paddock _____         | T. Ellenburger _____   | T. Dakota _____             | T. _____               |
| T. Blinberry _____       | T. Gr. Wash _____      | T. Morrison _____           | T. _____               |
| T. Tubb _____            | T. Granite _____       | T. Todilto _____            | T. _____               |
| T. Drinkard _____        | T. Delaware Sand _____ | T. Entrada _____            | T. _____               |
| T. Abo _____ 5796'       | T. Bone Springs _____  | T. Wingate _____            | T. _____               |
| T. Wolfcamp _____        | T. _____               | T. Chinle _____             | T. _____               |
| T. Penn. _____           | T. _____               | T. Permian _____            | T. _____               |
| T. Cisco (Bough C) _____ | T. _____               | T. Penn. "A" _____          | T. _____               |

## OIL OR GAS SANDS OR ZONES

|                                                    |                            |
|----------------------------------------------------|----------------------------|
| No. 1, from _____ 6252' _____ to _____ 6262' _____ | No. 4, from _____ to _____ |
| No. 2, from _____ to _____                         | No. 5, from _____ to _____ |
| No. 3, 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 _____ 5617 _____ to _____ 5780' _____ feet. | Water flow to surf TSTM _____ |
| 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    | 233  | 233                  | Surface, caliche, sd & Red Bed |      |    |                      |           |
| 233  | 530  | 297                  | Red Bed                        |      |    |                      |           |
| 530  | 770  | 240                  | Red Bed, Anhydrite             |      |    |                      |           |
| 770  | 5414 | 4644                 | Anhydrite                      |      |    |                      |           |
| 5414 | 5956 | 542                  | Anhydrite & Lime               |      |    |                      |           |
| 5956 | 6081 | 125                  | Dolo                           |      |    |                      |           |
| 6081 | 6215 | 134                  | Dolo, Lime, Sd                 |      |    |                      |           |
| 6215 | 6370 | 155                  | Dolo, Lime                     |      |    |                      |           |

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X-PERT DRILLING COMPANY, INC.

DEVIATION SURVEYS

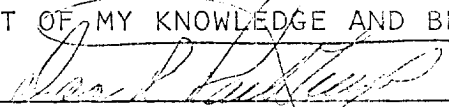
ARCO G-324  
EMPIRE ABO UNIT

MAY 4 1979

G. C. C.  
ARTESIA, OFFICE

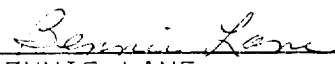
| DEPTH | SURVEY ( DEGREES ) |
|-------|--------------------|
| 264   | 1/4                |
| 513   | 1/2                |
| 870   | 3/4                |
| 1170  | 1 1/2              |
| 1473  | 1 3/4              |
| 1750  | 1 3/4              |
| 2050  | 1 3/4              |
| 2350  | 1 3/4              |
| 2650  | 1 1/2              |
| 2950  | 1 3/4              |
| 3258  | 1 1/2              |
| 3550  | 1 1/2              |
| 3850  | 1                  |
| 4283  | 1/2                |
| 4597  | 3/4                |
| 4906  | 1                  |
| 5275  | 1 1/4              |
| 5450  | 2 3/4              |
| 5587  | 2 1/2              |
| 5710  | 2 3/4              |
| 6050  | 2                  |
| 6370  | 1 1/2              |

I CERTIFY THAT THE STATEMENTS MADE HEREIN ARE  
TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

  
DAN R. PARKHURST, VICE PRESIDENT  
X-PERT DRILLING COMPANY, INC.

STATE OF NEW MEXICO )  
                                  ) SS.  
COUNTY OF LEA )

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGE BEFORE  
ME THIS 16TH DAY OF MARCH, 1979, BY DAN R. PARKHURST.

  
BENNIE LANE  
NOTARY PUBLIC  
MY COMMISSION EXPIRES: MARCH 2, 1981  
3-2-81