

Submit to Appropriate  
District Office  
State Lease - 6 copies  
Fee Lease - 5 copies  
DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

L 10 1996

Form C-105  
Revised 1-1-89

|                                                                                                     |
|-----------------------------------------------------------------------------------------------------|
| WELL API NO.                                                                                        |
| 30-025-11211                                                                                        |
| 5. Indicate Type of Lease<br>STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |
| 6. State Oil & Gas Lease No.<br>014915                                                              |

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

|                                                                                                                                                                                                                              |                                                    |                                        |                                                         |                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------------------------------|---------------------------------|
| 1a. Type of Well:<br>OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> OTHER _____                                                                                 | 7. Lease Name or Unit Agreement Name<br><br>Lillie |                                        |                                                         |                                 |
| b. Type of Completion:<br>NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> DIFF RESVR <input type="checkbox"/> OTHER _____ | 8. Well No.<br>3                                   |                                        |                                                         |                                 |
| 2. Name of Operator<br>Arch Petroleum Inc.                                                                                                                                                                                   | 9. Pool name or Wildcat<br>Fowler Silurian         |                                        |                                                         |                                 |
| 3. Address of Operator<br>10 Desta Drive, Suite 420E, Midland, TX 79705                                                                                                                                                      |                                                    |                                        |                                                         |                                 |
| 4. Well Location<br>Unit Letter <u>E</u> : <u>2310</u> Feet From The <u>North</u> Line and <u>330</u> Feet From The <u>West</u> Line<br>Section <u>23</u> Township <u>24S</u> Range <u>37E</u> NMPM <u>Lea</u> County        |                                                    |                                        |                                                         |                                 |
| 10. Date Spudded<br>5/6/96                                                                                                                                                                                                   | 11. Date T.D. Reached<br>5/13/96                   | 12. Date Compl. (Ready to Prod.)<br>NA | 13. Elevations (DF & RKB, RT, GR, etc.)<br>GR= 3224'    | 14. Elev. Casinghead            |
| 15. Total Depth<br>9857                                                                                                                                                                                                      | 16. Plug Back T.D.<br>7190'                        | 17. If Multiple Compl. How Many Zones? | 18. Intervals Drilled By<br>Rotary Tools<br>Cable Tools |                                 |
| 19. Producing Interval(s), of this completion - Top, Bottom, Name<br>Not Productive                                                                                                                                          |                                                    |                                        |                                                         | 20. Was Directional Survey Made |
| 21. Type Electric and Other Logs Run                                                                                                                                                                                         |                                                    |                                        |                                                         | 22. Was Well Cored              |

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

| CASING SIZE | WEIGHT LB./FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD    | AMOUNT PULLED |
|-------------|----------------|-----------|-----------|---------------------|---------------|
| 13 3/8"     | 48#            | 327'      | 17 1/2"   | 500 sx, Circ        |               |
| 9 5/8"      | 36#            | 3896'     | 12 1/4"   | 2324 sx, Toc @ 35'  | by TS         |
| 7"          | 23# & 26#      | 7300'     | 8 1/4"    | 1125 sx, Toc @ 100' | by TS         |
|             |                |           |           |                     |               |
|             |                |           |           |                     |               |

| 24. LINER RECORD |       |        |              | 25. TUBING RECORD |           |            |
|------------------|-------|--------|--------------|-------------------|-----------|------------|
| SIZE             | TOP   | BOTTOM | SACKS CEMENT | SIZE              | DEPTH SET | PACKER SET |
| 5"               | 7192' | 9710'  | 310          |                   |           |            |
|                  |       |        |              |                   |           |            |

|                                                                                                              |                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 26. Perforation record (interval, size, and number)<br><br>7168' - 7184'<br><br>2 - 1/2" JHPF Total 16 holes | 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.<br>DEPTH INTERVAL<br>7190'<br>7168' - 7184'<br>AMOUNT AND KIND MATERIAL USED<br>CIBP<br>A/500 gal 15% NEFE HCL |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|

28. PRODUCTION

|                                                            |                                                                     |                         |                        |            |                                      |                             |                 |
|------------------------------------------------------------|---------------------------------------------------------------------|-------------------------|------------------------|------------|--------------------------------------|-----------------------------|-----------------|
| Date First Production                                      | Production Method (Flowing, gas lift, pumping - Size and type pump) |                         |                        |            | Well Status (Prod. or Shut-in)<br>SI |                             |                 |
| Date of Test                                               | Hours Tested                                                        | Choke Size              | Prod'n For Test Period | Oil - Bbl. | Gas - MCF                            | Water - Bbl.                | Gas - Oil Ratio |
| Flow Tubing Press.                                         | Casing Pressure                                                     | Calculated 24-Hour Rate | Oil - Bbl.             | Gas - MCF  | Water - Bbl.                         | Oil Gravity - API - (Corr.) |                 |
| 29. Disposition of Gas (Sold, used for fuel, vented, etc.) |                                                                     |                         |                        |            |                                      | Test Witnessed By           |                 |

30. List Attachments

31. 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

Signature Bobbie Brooks Printed Name Bobbie Brooks Title Production Analyst Date 6/12/96

in

1998

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 Otzte _____ |
| 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. Delaware Sand _____ | T. Todilto _____            | T. _____               |
| T. Drinkard _____        | T. Bone Springs _____  | T. Entrada _____            | T. _____               |
| T. Abo _____             | T. _____               | 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.....to.....  
No. 2, from.....to.....  
No. 3, from.....to.....  
No. 4, 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.....

## LITHOLOGY RECORD (Attach additional sheet if necessary)

| From | To | Thickness<br>in Feet | Lithology |
|------|----|----------------------|-----------|
|      |    |                      |           |

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to Appropriate  
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Form C-103  
Revised 1-1-89

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P.O. Box 1980, Hobbs, NM 88240

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P.O. Drawer Dd, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, Nm 87410

|                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                     |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BAG DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)                                                                                              |  | API NO. (assigned by OCD on New Wells)<br><b>30-025-11211</b>                                                                                                                                                                                                                                                                       |  |
| 1. Type of Well:<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>                                                                                                                                                                    |  | 5. Indicate Type of Lease<br>STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>                                                                                                                                                                                                                                 |  |
| 2. Name of Operator<br><b>ARCH PETROLEUM INC.</b>                                                                                                                                                                                                                                                    |  | 6. State Oil & Gas Lease No.<br><b>014915</b>                                                                                                                                                                                                                                                                                       |  |
| 3. Address of Operator<br><b>10 DESTA DRIVE, SUITE 420E, MIDLAND, TX 79705</b>                                                                                                                                                                                                                       |  | 7. Lease Name or Unit Agreement Name<br><b>LILLIE</b>                                                                                                                                                                                                                                                                               |  |
| 4. Well Location<br>Unit Letter <b>E</b> : <b>2310</b> Feet From The <b>NORTH</b> Line and<br>Section <b>23</b> Township <b>24S</b> Range <b>37E</b> <b>330</b> Feet From The <b>WEST</b> Line<br>NMPM <b>LEA</b> County                                                                             |  | 8. Well No.<br><b>3</b>                                                                                                                                                                                                                                                                                                             |  |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.)<br><b>GL=3224'</b>                                                                                                                                                                                                                                |  | 9. Pool name or Wildcat<br><b>FOWLER ABO (96455)</b>                                                                                                                                                                                                                                                                                |  |
| 11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                                                                                     |  |
| <b>NOTICE OF INTENTION TO:</b><br>PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/><br>TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/><br>PULL OR ALTER CASING <input type="checkbox"/><br>OTHER: <input type="checkbox"/> |  | <b>SUBSEQUENT REPORT OF:</b><br>REMEDIAL WORK <input type="checkbox"/> ALTER CASING <input type="checkbox"/><br>COMMENCE DRILLING OPNS. <input type="checkbox"/> PLUG AND ABAN. <input type="checkbox"/><br>CASING TEST AND CMT JOB <input type="checkbox"/><br>OTHER: <b>Recomplete in Abo</b> <input checked="" type="checkbox"/> |  |

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

5/14/96 Set CIBP @ 6980'. Perf Abo formation w/4" hollow carrier gun w/deep penetrating charges as follows: 6287', 6296.5', 6303', 6313', 6320.5', 6335', 6342.5', 6354', 6374', 6380', 6387', 6394', 6412', 6417', 6430', & 6436' (w/2- 1/2" JHPF total 32 holes). RIH w/dump bailer and dump 2 sxs on top of CIBP. PBTD=6960'.

Acidized w/2,000 gal 15% NEFE HCL. Flowed & swabbed back load.  
Release pkr & POH w/tbg. RIH w/2 jts MA, 4'X 2-3/8" PN, 2-3/8" SN, & 205 jts 2-3/8" tbg.  
SN @ 6454' (bottom perf @ 6436'). NUWH. RIH w/10' GA, 2" X 1-1/2" X 20' pump, 170- 3/4",  
87- 7/8", 8'X 7/8", 4'X 7/8", & PR. Hung well on PU.  
Began pumping well to battery on 5/23/96

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

|                                                              |                            |                                   |
|--------------------------------------------------------------|----------------------------|-----------------------------------|
| SIGNATURE <u>Bobbie Brooks</u>                               | TITLE <u>PROD. ANALYST</u> | DATE: <u>6/12/96</u>              |
| TYPE OR PRINT NAME <u>BOBBIE BROOKS</u>                      |                            | TELEPHONE NO. <u>915/685-1961</u> |
| APPROVED BY <u>ORIGINAL SIGNED BY JERRY SUTTON</u>           |                            |                                   |
| CONDITIONS OF APPROVAL, IF ANY: <u>DISTRICT I SUPERVISOR</u> |                            | DATE <u>JUL 8 1996</u>            |