

State of New Mexico  
Energy, Minerals and Natural ResourcesOIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505  
FEB 2000  
RECEIVED  
OIL CON. DIV  
DIST. 3

|                           |                    |
|---------------------------|--------------------|
| WELL PI NO.               | 30-045-29950       |
| 5. Indicate Type of Lease | FEE                |
| 6. Oil & Gas Lease No.    | B-11242-47, V-4832 |

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

|                                                                                                                                                                                                                                                   |                                  |                                                                       |                                                     |                                                                                                                                                                     |                                |                                                               |                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------|-----------------|
| 1a. Type of Well:<br><input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER                                                                                   |                                  |                                                                       |                                                     |                                                                                                                                                                     |                                | 7. WF State 16                                                |                 |
| b. Type of Completion:<br>NEW WELL <input checked="" 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"/> |                                  |                                                                       |                                                     |                                                                                                                                                                     |                                | 8. Well No. #2                                                |                 |
| 2. Name of Operator<br>Richardson Operating Company #019219                                                                                                                                                                                       |                                  |                                                                       |                                                     |                                                                                                                                                                     |                                | 9. Pool name or Wildcat<br>Harper Hill FR Sand PC Ext. #71860 |                 |
| 3. Address of Operator<br>1700 Lincoln Street, Suite 1700, Denver, CO 80203                                                                                                                                                                       |                                  |                                                                       |                                                     |                                                                                                                                                                     |                                |                                                               |                 |
| 4. Well Location<br>Unit Letter <u>B</u> : <u>900</u> Feet From The <u>North</u> Line and <u>1745</u> Feet From The <u>East</u> Line<br>Section <u>16</u> Township <u>30N</u> Range <u>14W</u> NMPM San Juan County                               |                                  |                                                                       |                                                     |                                                                                                                                                                     |                                |                                                               |                 |
| 10. Date Spudded<br>9/17/99                                                                                                                                                                                                                       | 11. Date T.D. Reached<br>9/23/99 | 12. Date Compl. (Ready to Prod.)<br>12/20/99                          | 13. Elevations (DF & RKB, RT, GR, etc.)<br>5710' GR | 14. Elev. Casinghead<br>5710'                                                                                                                                       |                                |                                                               |                 |
| 15. Total Depth<br>1420'                                                                                                                                                                                                                          | 16. Plug Back T.D.<br>1375' KB   | 17. If Multiple Compl. How Many Zones?<br>2                           | 18. Intervals Drilled by<br>Rotary Tools<br>X       | Cable Tools                                                                                                                                                         |                                |                                                               |                 |
| 19. Producing Interval(s), of this completion - Top, Bottom, Name<br>1292' - 1300' Pictured Cliffs                                                                                                                                                |                                  |                                                                       |                                                     |                                                                                                                                                                     |                                | 20. Was Directional Survey Made<br>yes                        |                 |
| 21. Type Electric and Other Logs Run<br>Compensated Neutron Log                                                                                                                                                                                   |                                  |                                                                       |                                                     |                                                                                                                                                                     |                                | 22. Was Well Cored<br>no                                      |                 |
| 23. CASING RECORD (Report all strings set in well)                                                                                                                                                                                                |                                  |                                                                       |                                                     |                                                                                                                                                                     |                                |                                                               |                 |
| CASING SIZE                                                                                                                                                                                                                                       | WEIGHT, LB./FT.                  | DEPTH SET                                                             | HOLE SIZE                                           | CEMENTING RECORD                                                                                                                                                    | AMOUNT PULLED                  |                                                               |                 |
| 7"                                                                                                                                                                                                                                                | 20#                              | 131'                                                                  | 8 - 3/4"                                            | 55 sx (65 cu.ft.)                                                                                                                                                   | surface                        |                                                               |                 |
| 4 - 1/2"                                                                                                                                                                                                                                          | 10.5#                            | 1413'                                                                 | 6 - 1/4"                                            | 95 sx (206 cu.ft.)                                                                                                                                                  | surface                        |                                                               |                 |
|                                                                                                                                                                                                                                                   |                                  |                                                                       |                                                     | 75 sx (89 cu.ft.)                                                                                                                                                   |                                |                                                               |                 |
| 24. LINER RECORD                                                                                                                                                                                                                                  |                                  |                                                                       |                                                     |                                                                                                                                                                     |                                |                                                               |                 |
| SIZE                                                                                                                                                                                                                                              | TOP                              | BOTTOM                                                                | SACKS CEMENT                                        | SCREEN                                                                                                                                                              | SIZE                           | DEPTH SET                                                     | PACKER SET      |
|                                                                                                                                                                                                                                                   |                                  |                                                                       |                                                     |                                                                                                                                                                     | 2 - 3/8"                       | 1274'                                                         |                 |
| 26. Perforation record (interval, size and number)<br>1292' - 1300' 32 holes 0.36"<br>4 spf                                                                                                                                                       |                                  |                                                                       |                                                     | 27. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.<br>DEPTH INTERVAL<br>1292' - 1300'<br>AMOUNT AND KIND OF MATERIAL USED<br>29,018# 20/40 Arizona<br>70% Nitrogen foam |                                |                                                               |                 |
| 28. PRODUCTION                                                                                                                                                                                                                                    |                                  |                                                                       |                                                     |                                                                                                                                                                     |                                |                                                               |                 |
| Date First Production                                                                                                                                                                                                                             |                                  | Production Method (Flowing, gas lift, pumping--Size and type of pump) |                                                     |                                                                                                                                                                     | Well Status (Prod. or Shut-in) |                                                               |                 |
| Date of Test<br>2/3/00                                                                                                                                                                                                                            | Hours Tested<br>24               | Choke Size<br>3/8"                                                    | Prod'n For Test Period                              | Oil - Bbl.                                                                                                                                                          | Gas - MCF<br>TSTM              | Water - Bbl<br>360                                            | Gas - Oil Ratio |
| Flow Tubing Press.<br>0                                                                                                                                                                                                                           | Casing Pressure<br>180           | Calculated 24-Hour Rate                                               | Oil - Bbl.                                          | Gas - MCF<br>TSTM                                                                                                                                                   | Water - Bbl.<br>180            | Oil Gravity - API - (Corr.)                                   |                 |
| 29. Disposition of Gas (Sold, used for fuel, vented, etc.)<br>vented                                                                                                                                                                              |                                  |                                                                       |                                                     |                                                                                                                                                                     |                                | Test Witnessed By                                             |                 |
| 30. List Attachments                                                                                                                                                                                                                              |                                  |                                                                       |                                                     |                                                                                                                                                                     |                                |                                                               |                 |
| 31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief                                                                                                            |                                  |                                                                       |                                                     |                                                                                                                                                                     |                                |                                                               |                 |
| Signature<br>Cathleen Colby                                                                                                                                                                                                                       | Printed Name<br>Cathleen Colby   |                                                                       | Title<br>Land Manager                               | Date<br>2/10/00                                                                                                                                                     |                                |                                                               |                 |

## Northwestern New Mexico

T. Penn. "B" \_\_\_\_\_  
T. Penn. "C" \_\_\_\_\_

T. Penn. "D" \_\_\_\_\_

T. Leadville \_\_\_\_\_

T. Madison

T. Elbert

T. McCracken

T. Ignacio Otzte \_\_\_\_\_  
T. Granite \_\_\_\_\_

## 1. Granite

T.

\_\_\_\_\_

T. \_\_\_\_\_

T. \_\_\_\_\_

T. \_\_\_\_\_  
E. \_\_\_\_\_

I. \_\_\_\_\_  
E. \_\_\_\_\_

1. \_\_\_\_\_

1. *Phragmites australis* (Cav.) Trin. ex Steud.

## IMPORTANT WATER SANDS

No. 2, from ..... to ..... No. 4, from ..... to .....

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

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

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