

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

|                                                                                                                                                                                                                                                    |                        |                                                                                                                           |                                                                                       |                                                                          |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------|
| 1a. TYPE OF WELL:<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>                                                                                    |                        |                                                                                                                           |                                                                                       | 7. UNIT AGREEMENT NAME<br>                                               |                 |
| b. TYPE OF COMPLETION:<br>NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESEV. <input type="checkbox"/> OTHER <input type="checkbox"/> |                        |                                                                                                                           |                                                                                       | 8. FARM OR LEASE NAME<br>E. H. Pipkin                                    |                 |
| 2. NAME OF OPERATOR<br>BHP Petroleum (Americas), Inc.                                                                                                                                                                                              |                        |                                                                                                                           |                                                                                       | 9. WELL NO.<br>27                                                        |                 |
| 3. ADDRESS OF OPERATOR<br>5847 San Felipe, Suite 3600, Houston, TX 77057                                                                                                                                                                           |                        |                                                                                                                           |                                                                                       | 10. FIELD AND POOL, OR WILDCAT<br>Basin Fruitland Coal                   |                 |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*<br>At surface 1380' FNL & 855' FEL (SE/NE)<br>At top prod. interval reported below<br>At total depth                                                  |                        |                                                                                                                           |                                                                                       | 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA<br>Section 1-T27N-R11W |                 |
| 14. PERMIT NO.<br>30-045-28545                                                                                                                                                                                                                     |                        | DATE ISSUED<br>5/15/91                                                                                                    |                                                                                       | 12. COUNTY OR PARISH<br>San Juan                                         |                 |
| 13. STATE<br>New Mexico                                                                                                                                                                                                                            |                        | 15. DATE SPUEDD<br>5/18/91                                                                                                |                                                                                       | 16. DATE T.D. REACHED<br>5/22/91                                         |                 |
| 17. DATE COMPL. (Ready to prod.)<br>6/29/91                                                                                                                                                                                                        |                        | 18. ELEVATIONS (DF, RNB, RT, GB, ETC.)*<br>5719' GR                                                                       |                                                                                       | 19. ELEV. CASINGHEAD<br>5719' GR                                         |                 |
| 20. TOTAL DEPTH, MD & TVD<br>1866'                                                                                                                                                                                                                 |                        | 21. PLUG, BACK T.D., MD & TVD<br>1833'                                                                                    |                                                                                       | 22. IF MULTIPLE COMPLETIONS, HOW MANY IN EACH<br>0-TD                    |                 |
| 23. INTERVALS<br>ROTARY TOOLS<br>CABLE TOOLS                                                                                                                                                                                                       |                        | 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD & TVD)*<br>Fruitland Coal 1585'-1601' and 1430'-1440' |                                                                                       | 25. WAS DIRECTIONAL SURVEY MADE<br>Yes                                   |                 |
| 26. TYPE ELECTRIC AND OTHER LOGS RUN<br>DIFL/SDL/DSN & Coal logs                                                                                                                                                                                   |                        |                                                                                                                           |                                                                                       | 27. WAS WELL CORED<br>No                                                 |                 |
| 28. CASING RECORD (Report all strings set in well)                                                                                                                                                                                                 |                        |                                                                                                                           |                                                                                       |                                                                          |                 |
| CASING SIZE                                                                                                                                                                                                                                        | WEIGHT, LB./FT.        | DEPTH SET (MD)                                                                                                            | HOLE SIZE                                                                             | CEMENTING RECORD                                                         | AMOUNT PULLED   |
| 7"                                                                                                                                                                                                                                                 | 20#                    | 134' KB                                                                                                                   | 8-3/4"                                                                                | 125 sxs "B" + additives                                                  | -0-             |
| 4-1/2"                                                                                                                                                                                                                                             | 10.5#                  | 1861' KB                                                                                                                  | 6-1/4"                                                                                | 540 sxs 50/50 POZ + addit.                                               | -0-             |
|                                                                                                                                                                                                                                                    |                        |                                                                                                                           |                                                                                       | 35 sxs "B" + additives                                                   |                 |
| 29. LINER RECORD                                                                                                                                                                                                                                   |                        |                                                                                                                           | 30. TUBING RECORD                                                                     |                                                                          |                 |
| SIZE                                                                                                                                                                                                                                               | TOP (MD)               | BOTTOM (MD)                                                                                                               | SACKS CEMENT*                                                                         | SCREEN (MD)                                                              |                 |
|                                                                                                                                                                                                                                                    |                        |                                                                                                                           |                                                                                       |                                                                          |                 |
|                                                                                                                                                                                                                                                    |                        |                                                                                                                           |                                                                                       | 2-3/8"                                                                   | 1646'           |
| 31. PERFORATION RECORD (Interval, size and number)                                                                                                                                                                                                 |                        |                                                                                                                           | 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.                                        |                                                                          |                 |
| 1585'-1601' @ 4 JSPF (64 holes @ .40" in diameter)                                                                                                                                                                                                 |                        |                                                                                                                           | DEPTH INTERVAL (MD)                                                                   |                                                                          |                 |
| 1430'-1440' @ 4 JSPF (40 holes @ .40" in diameter)                                                                                                                                                                                                 |                        |                                                                                                                           | AMOUNT AND KIND OF MATERIAL USED                                                      |                                                                          |                 |
|                                                                                                                                                                                                                                                    |                        |                                                                                                                           | 1585'-1601' Frac w/ 33M gals 30# X-link, foam, 1500# 40/70 and 96M# 12/20 Brady sand. |                                                                          |                 |
|                                                                                                                                                                                                                                                    |                        |                                                                                                                           | 1430'-1440' Frac w/ 16M gals 70Q foam, 1500# 40/70, 13M# 12/20 Brady sand.            |                                                                          |                 |
| 33. PRODUCTION                                                                                                                                                                                                                                     |                        |                                                                                                                           |                                                                                       |                                                                          |                 |
| DATE FIRST PRODUCTION<br>WOPL                                                                                                                                                                                                                      |                        | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)<br>Flowing                                           |                                                                                       | WELL STATUS (Producing or shut-in)<br>SI                                 |                 |
| DATE OF TEST<br>7/8/91                                                                                                                                                                                                                             | HOURS TESTED<br>24     | CHOKE SIZE<br>3/8"                                                                                                        | PROD'N. FOR TEST PERIOD<br>→                                                          | OIL—BBL.<br>N/A                                                          | GAS—MCF.<br>280 |
| WATER—BBL.<br>2                                                                                                                                                                                                                                    | GAS-OIL RATIO<br>N/A   |                                                                                                                           |                                                                                       |                                                                          |                 |
| FLOW. TUBING PRESS.<br>83                                                                                                                                                                                                                          | CASING PRESSURE<br>110 | CALCULATED 24-HOUR RATE<br>→                                                                                              | OIL—BBL.<br>N/A                                                                       | GAS—MCF.<br>280                                                          | WATER—BBL.<br>2 |
| 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)<br>Vented                                                                                                                                                                               |                        |                                                                                                                           | TEST WITNESSED BY<br>Fred Lowery                                                      |                                                                          |                 |
| 35. LIST OF ATTACHMENTS                                                                                                                                                                                                                            |                        |                                                                                                                           |                                                                                       |                                                                          |                 |
| 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records                                                                                                                  |                        |                                                                                                                           |                                                                                       |                                                                          |                 |
| SIGNED<br>[Signature]                                                                                                                                                                                                                              |                        | TITLE<br>Production Technician                                                                                            |                                                                                       |                                                                          |                 |

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

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, flowing and shut-in pressures, and recoveries):

| FORMATION      | TOP   | BOTTOM | DESCRIPTION, CONTENTS, ETC.  | NAME            | TOP         |                  |
|----------------|-------|--------|------------------------------|-----------------|-------------|------------------|
|                |       |        |                              |                 | MEAS. DEPTH | TRUE VERT. DEPTH |
| Fruitland Coal | 1430' | 1440'  | No cores or DST's were taken | Nacimientito Fm | Surface     |                  |
|                | 1585' | 1601'  |                              | Ojo Alamo       | 545'        |                  |
|                |       |        |                              | Kirtland Sh     | 664'        |                  |
|                |       |        |                              | Fruitland Fm    | 1390'       |                  |
|                |       |        |                              | Top Coal        | 1430'       |                  |
|                |       |        |                              | Base Coal       | 1600.75'    |                  |
|                |       |        |                              | Pictured Cliffs | 1603'       |                  |
|                |       |        |                              | TD              | 1886'       |                  |

38. GEOLOGIC MARKERS