

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

|                                                                                                                                                          |  |                                                                                                                                                                                                                                         |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1. TYPE OF WELL:<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other <u>MAR 25 1993</u> |  | 2. NAME OF OPERATOR<br>Hallwood Petroleum, Inc.                                                                                                                                                                                         |  |
| 3. ADDRESS OF OPERATOR<br>P.O. Box 378111, Denver, CO 80237                                                                                              |  | 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*<br>At surface 947 FSL & 800 FEL Unit P<br>At top prod. interval reported below Same (vertical well)<br>At total depth Same (vertical well) |  |
| 5. PERMIT NO.<br>30-045-28854                                                                                                                            |  | DATE ISSUED<br>11/23/92                                                                                                                                                                                                                 |  |
| 6. DATE SPUDDED<br>12/12/92                                                                                                                              |  | 16. DATE T.D. REACHED<br>12/16/92                                                                                                                                                                                                       |  |
| 17. DATE COMPL. (Ready to prod.)<br>2/18/93                                                                                                              |  | 18. ELEVATIONS (OF, RKB, RT, GB, ETC.)*<br>5938 KB, 5926 GL                                                                                                                                                                             |  |
| 19. ELEV. CASINGHEAD<br>5926 GL                                                                                                                          |  | 20. TOTAL DEPTH, MD & TVD<br>2150                                                                                                                                                                                                       |  |
| 21. PLUG, BACK T.D., MD & TVD<br>2144                                                                                                                    |  | 22. IF MULTIPLE COMPL., HOW MANY*<br>n/a                                                                                                                                                                                                |  |
| 23. INTERVALS DRILLED BY<br>ROTARY TOOLS 0-2150                                                                                                          |  | CABLE TOOLS --                                                                                                                                                                                                                          |  |
| 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*<br>2080, 2116, Basal Fruitland Coal                                        |  | 25. WAS DIRECTIONAL SURVEY MADE<br>No                                                                                                                                                                                                   |  |
| 26. TYPE ELECTRIC AND OTHER LOGS RUN<br>Formation Density, Micro                                                                                         |  | 27. WAS WELL CORRED<br>No                                                                                                                                                                                                               |  |
| 28. CASING RECORD (Report all strings set in well)                                                                                                       |  |                                                                                                                                                                                                                                         |  |
| CASING SIZE                                                                                                                                              |  | WEIGHT, LB./FT.                                                                                                                                                                                                                         |  |
| 8-5/8                                                                                                                                                    |  | 24, K-55                                                                                                                                                                                                                                |  |
| 5-1/2                                                                                                                                                    |  | 17, J-55                                                                                                                                                                                                                                |  |
| DEPTH SET (MD)                                                                                                                                           |  | HOLE SIZE                                                                                                                                                                                                                               |  |
| 374                                                                                                                                                      |  | 12-1/4                                                                                                                                                                                                                                  |  |
| 2144                                                                                                                                                     |  | 7-7/8                                                                                                                                                                                                                                   |  |
| CEMENTING RECORD                                                                                                                                         |  | AMOUNT PULLED                                                                                                                                                                                                                           |  |
| 255 sxs Class B                                                                                                                                          |  | 50                                                                                                                                                                                                                                      |  |
| 170 sxs BJ Lite B +                                                                                                                                      |  | 0                                                                                                                                                                                                                                       |  |
| 100 sxs Lite B                                                                                                                                           |  | 3                                                                                                                                                                                                                                       |  |
| 29. LINER RECORD                                                                                                                                         |  |                                                                                                                                                                                                                                         |  |
| SIZE                                                                                                                                                     |  | TOP (MD)                                                                                                                                                                                                                                |  |
| None                                                                                                                                                     |  |                                                                                                                                                                                                                                         |  |
| BOTTOM (MD)                                                                                                                                              |  | SACKS CEMENT*                                                                                                                                                                                                                           |  |
|                                                                                                                                                          |  |                                                                                                                                                                                                                                         |  |
| SCREEN (MD)                                                                                                                                              |  | 30. TUBING RECORD                                                                                                                                                                                                                       |  |
| -                                                                                                                                                        |  | SIZE                                                                                                                                                                                                                                    |  |
|                                                                                                                                                          |  | 2-7/8                                                                                                                                                                                                                                   |  |
|                                                                                                                                                          |  | DEPTH SET (MD)                                                                                                                                                                                                                          |  |
|                                                                                                                                                          |  | 2017                                                                                                                                                                                                                                    |  |
|                                                                                                                                                          |  | PACKER SET (MD)                                                                                                                                                                                                                         |  |
|                                                                                                                                                          |  | n/a                                                                                                                                                                                                                                     |  |
| 31. PERFORATION RECORD (Interval, size and number)                                                                                                       |  |                                                                                                                                                                                                                                         |  |
| 2057-2143', 0.875" holes, 6 spf, 516 holes                                                                                                               |  |                                                                                                                                                                                                                                         |  |
| 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.                                                                                                           |  |                                                                                                                                                                                                                                         |  |
| DEPTH INTERVAL (MD)                                                                                                                                      |  | AMOUNT AND KIND OF MATERIAL USED                                                                                                                                                                                                        |  |
| 2057-2116                                                                                                                                                |  | Fracture stimulated with                                                                                                                                                                                                                |  |
|                                                                                                                                                          |  | 21,640# 40/20 Brady sand &                                                                                                                                                                                                              |  |
|                                                                                                                                                          |  | 257,560# 12/20 Brady sand on                                                                                                                                                                                                            |  |
|                                                                                                                                                          |  | 2/8/93                                                                                                                                                                                                                                  |  |
| 33. PRODUCTION                                                                                                                                           |  |                                                                                                                                                                                                                                         |  |
| DATE FIRST PRODUCTION<br>2/18/93                                                                                                                         |  | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)<br>Pumping                                                                                                                                                         |  |
| WELL STATUS (Producing or shut-in)<br>Shut-in                                                                                                            |  |                                                                                                                                                                                                                                         |  |
| DATE OF TEST<br>3/1/93                                                                                                                                   |  | HOURS TESTED<br>24                                                                                                                                                                                                                      |  |
| CHOKE SIZE<br>3/1/93                                                                                                                                     |  | PROD'N. FOR TEST PERIOD<br>0                                                                                                                                                                                                            |  |
| OIL—BSL.<br>0                                                                                                                                            |  | GAS—MCF.<br>560                                                                                                                                                                                                                         |  |
| WATER—BSL.<br>350                                                                                                                                        |  | GAS-OIL RATIO<br>--                                                                                                                                                                                                                     |  |
| LOW. TUBING PRESS.<br>95                                                                                                                                 |  | CASING PRESSURE<br>95                                                                                                                                                                                                                   |  |
| CALCULATED 24-HOUR RATE<br>0                                                                                                                             |  | OIL—BSL.<br>0                                                                                                                                                                                                                           |  |
| GAS—MCF.<br>560                                                                                                                                          |  | WATER—BSL.<br>350                                                                                                                                                                                                                       |  |
| OIL GRAVITY-API (CORR.)<br>--                                                                                                                            |  |                                                                                                                                                                                                                                         |  |
| 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)<br>Vented                                                                                     |  |                                                                                                                                                                                                                                         |  |
| 35. LIST OF ATTACHMENTS<br>Logs, Deviation Survey, Gas Analysis, Mud Log Report, Casing Report                                                           |  |                                                                                                                                                                                                                                         |  |
| 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records                        |  |                                                                                                                                                                                                                                         |  |
| SIGNED<br>Lois M. Banda                                                                                                                                  |  | TITLE<br>Sr. Engr. Tech.                                                                                                                                                                                                                |  |

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

ACCEPTED FOR RECORD

FARMINGTON DISTRICT OFFICE

| 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, time tool open, flowing and shut-in pressures, and recoveries): |      |        |                             |      | 38. GEOLOGIC MARKERS |                  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|-----------------------------|------|----------------------|------------------|--|
| FORMATION                                                                                                                                                                                                                                       | TOP  | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | TOP                  |                  |  |
|                                                                                                                                                                                                                                                 |      |        |                             |      | MEAS. DEPTH          | TRUE VERT. DEPTH |  |
| Ojo Alamo                                                                                                                                                                                                                                       | 1090 | 1440   | Sand, Shale                 |      |                      |                  |  |
| Kirtland                                                                                                                                                                                                                                        | 1440 | 2010   | Sand, Shale                 |      |                      |                  |  |
| Fruitland                                                                                                                                                                                                                                       | 2010 | 2150   | Sand, Shale, Coal           |      |                      |                  |  |
| Basal Fruitland<br>Coal                                                                                                                                                                                                                         | 2080 | 2116   | Coal                        |      |                      |                  |  |

NOTE: No DST's or Coring.

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# Hallwood Energy Companies

Well History Record by: *Kevin E. Kennel* 5/15/95

OPERATOR: Hallwood Petroleum Inc.

WELL: USA #5

LOCATION: SE SE (947' FSL x 800' FEL)

SECTION 24 - T32N - R13W, SAN JUAN Co., NM

SPUD DATE: 12-12-92

COMPL. DATE: 2-18-93

T.D.: 2150' PBTD: 2144'

FIELD: BASIN FRUITLAND COAL

ZONES: BASIN FRUITLAND COAL

PERFS: 2057 - 2143'

ELEVATIONS: 5938' KB ; 5926' GL

STIMULATION: WESTERN CO. FRACED ON

2/8/93 WITH 30# GEL SYSTEM,

21,640# OF 40/70 SAND & 257,560#  
ON 12/20 BRADY SAND, 1-8 PPG.

CASING DETAIL (5 1/2-INCH PRODUCTION):

FROM BOTTOM-UP:

A) GUIDE SHOE AT 2144'

B) 2 JOINTS PRE-DRILLED 5 1/2" CASING  
FROM 2057 - 2143'; 6 HOLES/FE; 516 HOLES

C) FLAT COLLAR AT 2057'

D) DAVIS LYNCH ECP (EXTERNAL CASING  
PACKER) AT 2046 - 2056'

E) NEW 5 1/2" J-55 CASING

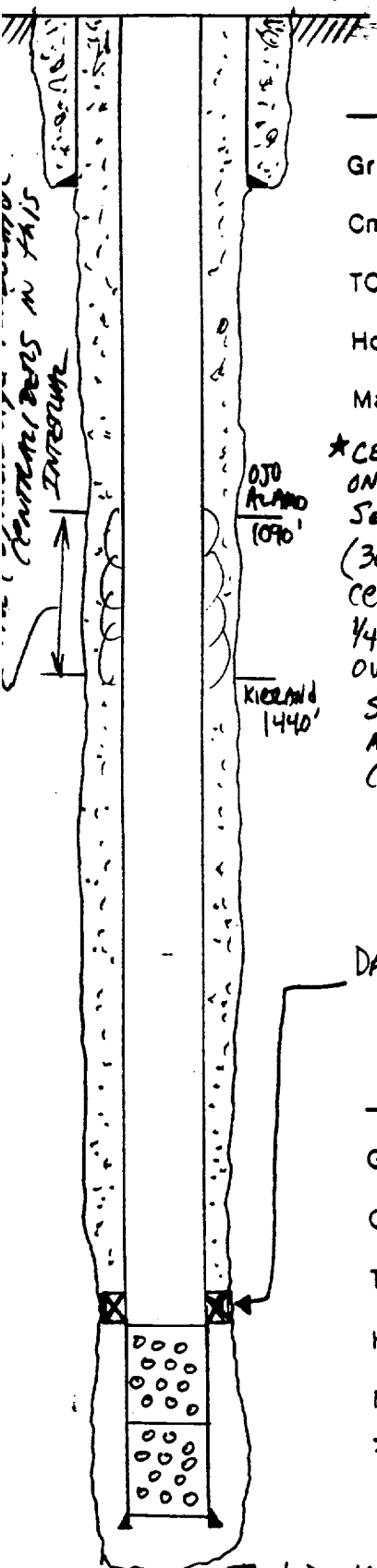
NOTE: 4 BOWSPRING CENTRALIZERS NEAR  
BOTTOM AT 2100', 2010', 1970' & 1930'.

TOTAL CEMENT = 270 SXS (594 FE<sup>3</sup>) FROM 0 - 2056'

★★ CEMENTED PRODUCTION CASING ON 12-15-92 WITH B.J. SERVICES.  
PUMPED 10 bbls. OF MUD FLOSH, 170 SACKS (477 cubic feet)

OF B.J. Lite "B" WITH 3% CaCl<sub>2</sub> x 1/4# PER SX CELLOFLAKE, TAILED IN  
WITH 100 SXS (117 cubic feet) CLASS "B" CEMENT WITH  
2% CaCl<sub>2</sub>. CIRCULATED 4 bbls. CEMENT TO SURFACE.

PRESSURE TESTED CASING TO 2500 PSI AT 9:30 PM. 12/15/92



Total Depth = 2150'

COMPANY Hallwood Petroleum, Inc.

WELL USA #5

FIELD Basin Fruitland Coal

COUNTY San Juan

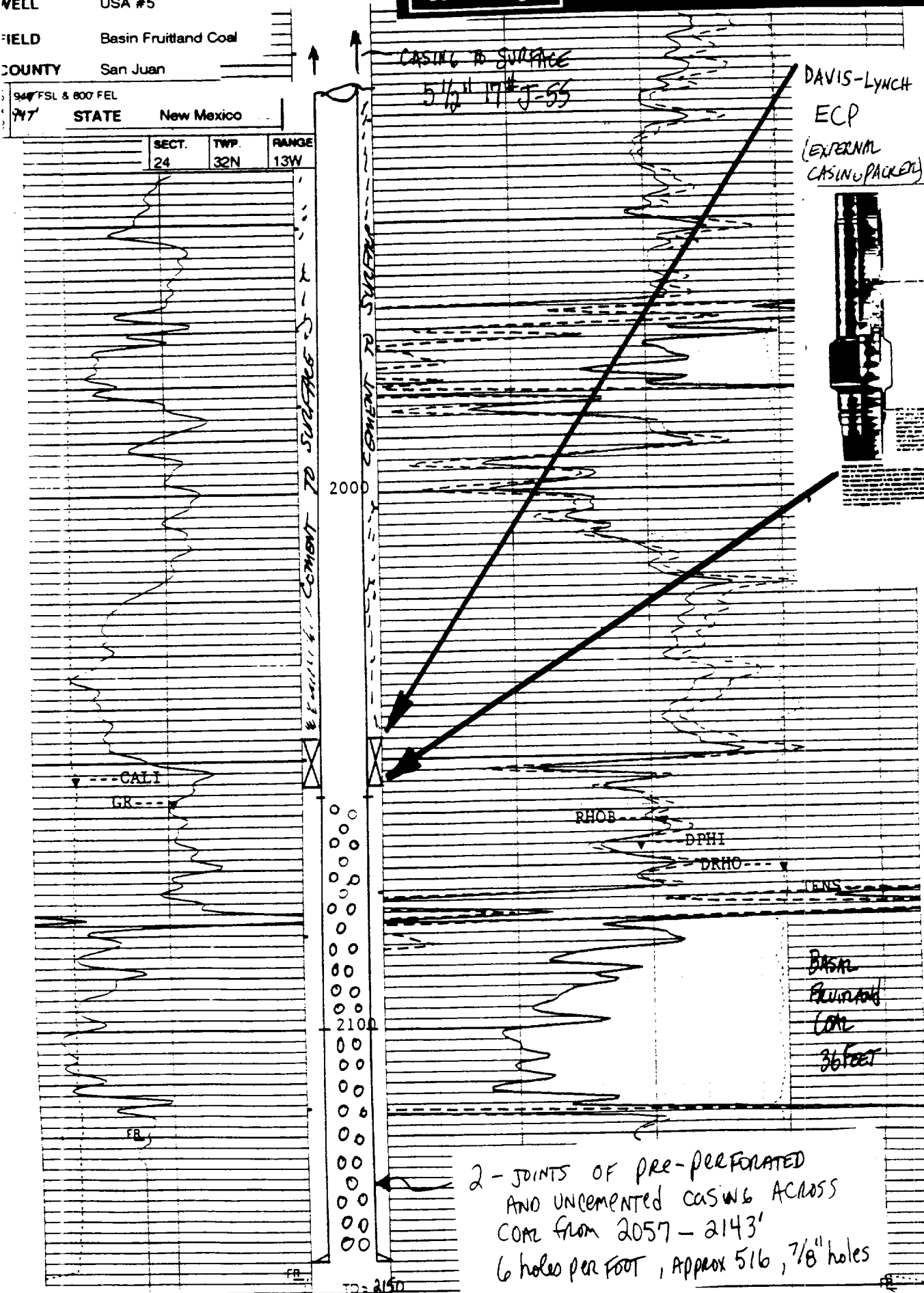
947 FSL & 800 FEL

STATE New Mexico

| SECT. | TWP. | RANGE |
|-------|------|-------|
| 24    | 32N  | 13W   |

FINAL PRINT  
Schlumberger

# FORMATION DENSITY LOG



CEMENT from 2056' TO SURFACE →

→ NO CEMENT ACROSS COAL