



FILE NO. P.D.C. # 3-P4 2, 3  
 DRAWING NO. 1  
 SCALE 1" = 3000'  
 MINIMUM DEGREE OF ACCURACY 1" IN 200'  
 PROVEN SOURCE OF ELEVATION INT. AND STRIP ROAD = 1301'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES  
 (SIGNED) Thomas E. Weaver, Jr.  
 R.P.E. \_\_\_\_\_ L.L.S. # 410

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE FEBRUARY 11 1980  
 OPERATOR'S WELL NO. # 3  
 API WELL NO. 47-001-1303  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 1460' WATER SHED CLAPBOARD RUN  
 DISTRICT PHILIPPI COUNTY BARBOUR  
 QUADRANGLE PHILIPPI 7 1/2' + 15'  
 SURFACE OWNER BADGER COAL CORP. ACREAGE 491.18'  
 OIL & GAS ROYALTY OWNER BADGER COAL & RUTH W. DAYTON LEASE ACREAGE 491.18  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION HAVERTY ESTIMATED DEPTH 5300'  
 WELL OPERATOR PETROLEUM DEVELOPMENT DESIGNATED AGENT PETROLEUM DEVELOPMENT CORP.  
 ADDRESS 103 E. MAIN ST. ADDRESS 103 E. MAIN ST.  
BRIDGEPORT W. Va. BRIDGEPORT W. Va.

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date May 14, 1980

FORM IV-35  
(Obverse)

Operator's  
Well No. Badger Coal Co. #3

108-78,

WELL OPERATOR'S REPORT  
OF

Well No. 47 - 001 - 1303  
State County Ferris

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil  Gas  Liquid Injection  Waste Disposal   
(If "Gas", Production  Underground storage  Deep  Shallow   
LOCATION: Elevation: 1460' Watershed: Clapboard Run  
District: Philippi County: BARBOUR Quadrangle: Philippi 7.5'

WELL OPERATOR Petroleum Development Corporation DESIGNATED AGENT Petroleum Development Corporation  
Address 103 East Main Street, PO Box 26 Address 103 East Main Street, PO Box 26  
Bridgeport, W. Va. 26330 Bridgeport, W. Va. 26330

PERMITTED WORK: Drill  Convert  Drill deeper  Re-drill  Fracture or stimulate   
Plug off old formation  Perforate new formation   
Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON February 27, 1980

OIL & GAS INSPECTOR FOR THIS WORK:

IF APPLICABLE: PLUGGING OF DRY HOLE OR  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED

Name Bob Stewart

Address Box 345

Jane Lew, W. Va. 26378

LOGICAL TARGET FORMATION: 4th Elk Depth 4800 feet  
Depth of completed well, 5017 feet Rotary  Cable Tools   
Water strata depth: Fresh, 265; 390 feet; salt, \_\_\_\_\_ feet.  
Coal seam depths: 210, open @ 303, 595 Is coal being mined in the area? no  
Work was commenced April 7, 1980, and completed April 17, 1980

LOGGING AND TUBING PROGRAM

| LOGGING OR<br>TUBING TYPE | SPECIFICATIONS |       |                  |     | FOOTAGE INTERVALS |              | DEPTH FILL-<br>UP SACKS<br>(Cubic feet) | PACKERS  |              |
|---------------------------|----------------|-------|------------------|-----|-------------------|--------------|---|----------|--------------|
|                           | Size           | Grade | Weight<br>per ft | New | Used              | For drilling |   |          | Left in well |
| Surface casing            | 11 3/4"        |       |                  | X   |                   | 350'         | 346'                                    | surface  | Wings        |
| Production casing         | 8 5/8"         | H-40  | 23#              | X   |                   | 1721'        | 1695'                                   | 400 sks. | Wings        |
| Production casing         | 4 1/2"         | K-55  | 9.5#<br>610.5#   | X   |                   | 5017'        | 4914'                                   | 350 sks. | Bottom       |

RECEIVED

MAY 19 1980

OIL & GAS DIVISION

DEPT. OF MINES

PERMITS DATA

Production casing 3rd & 4th Elk Log depth 4567' & 4832'  
Log interval no show  
Production casing 1,517  
Depth of casing 48  
Production casing 1500 Log depth 48  
Production casing Benson Log depth 3920

TAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

|               |         |                |               |               |           |
|---------------|---------|----------------|---------------|---------------|-----------|
| 3rd & 4th Elk | 485 bbl | 10,000# 80/100 | 50,000# 20/40 | 500 gal. acid | 4567-4832 |
| Benson        | 420 bbl | 10,000# 80/100 | 50,000# 20/40 | 500 gal. acid | 3920-3930 |

WELL LOG

| FORMATION   | Color | Hard or Soft | 2-       |             | REMARKS<br>Including indication of all fresh and salt water, coal, oil and gas |
|-------------|-------|--------------|----------|-------------|--|
|             |       |              | Top Feet | Bottom Feet |  |
| fill        |       |              | 0        | 25          |  |
| shale       |       |              | 25       | 50          |  |
| sand, shale |       |              | 50       | 190         |  |
| sand        |       |              | 190      | 210         |  |
| coal        |       |              | 210      | 215         |  |
| sand        |       |              | 215      | 303         | fresh H <sub>2</sub> O 5" @ 265'   |
| open mine   |       |              | 303      | 310         |  |
| sand, shale |       |              | 310      | 595         | fresh H <sub>2</sub> O 1/2" @ 390'   |
| coal        |       |              | 595      | 600         |  |
| sand, shale |       |              | 600      | 800         |  |
| red rock    |       |              | 800      | 850         |  |
| sand, shale |       |              | 850      | 1150        |  |
| big lime    |       |              | 1150     | 1260        |  |
| big injun   |       |              | 1260     | 1320        |  |
| sand, shale |       |              | 1320     | 1930        |  |
| gordon      |       |              | 1930     | 1960        |  |
| sand, shale |       |              | 1960     | 2248        | gas check @ 2100' no show  |
| bayard      |       |              | 2248     | 2272        |  |
| sand, shale |       |              | 2272     | 3602        |  |
| riley       |       |              | 3602     | 3642        |  |
| sand, shale |       |              | 3642     | 3911        | gas check @ 3750' no show  |
| benson      |       |              | 3911     | 3938        |  |
| sand, shale |       |              | 3938     | 4560        | gas check @ 4550' no show  |
| 3rd elk     |       |              | 4560     | 4581        |  |
| sand, shale |       |              | 4581     | 4724        |  |
| 4th elk     |       |              | 4724     | 4735        |  |
| sand, shale |       |              | 4735     | 5017 TD     | gas check @ TD no show   |

3911  
 1460  
 2457

(Attach separate sheets to complete as necessary)

Petroleum Development Corporation

Well Operator

By Charles W. Leitch

Its Completion Engineer

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."