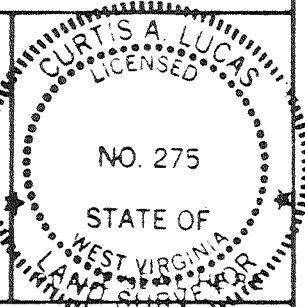


FILE NO 1344  
 MAP 72 sq S-55 W-55  
 SCALE 1" = 800'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION W.M. Looney #30  
1076.63'

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) Curtis A. Lucas  
 CURTIS A. LUCAS LLS 275



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



DATE April 18, 1984  
 FARM PA TALLMAN NO. 76  
 API WELL NO. 47-087-3878-LI  
 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 1049.86' WATER SHED Sycamore Fork  
 DISTRICT Smithfield 5 COUNTY Roane  
 QUADRANGLE Tariff 7 1/2 1835 OTTER 15' WCK  
 SURFACE OWNER Delmas Conley ACREAGE 52.51  
 OIL & GAS ROYALTY OWNER Anna Lee Collins LEASE ACREAGE 2350  
 LEASE NO. 81216-50  
 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 Big Injun ESTIMATED DEPTH 2,140'  
 WELL OPERATOR PENNZOIL COMPANY DESIGNATED AGENT JAMES A. CREWS  
 ADDRESS P. O. BOX 1588 673 ADDRESS P. O. BOX 1588  
PARKERSBURG, W. V. 26101 PARKERSBURG, W. V. 26101

MAY 7 1984

8-D Tariff-Tallman (199)



IV-35  
(Rev 8-81)

Date December 4, 1984  
Operator's  
Well No. 76  
Farm P. A. Tallman  
API No. 47- - - 087 - 3878-Li

**RECEIVED** State of West Virginia  
Department of Mines  
Oil and Gas Division

DEC 7 - 1984  
OIL & GAS DIVISION  
DEPT. OF MINES WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas \_\_\_ / Liquid Injection x / Waste Disposal \_\_\_ /  
(If "Gas," Production \_\_\_ / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow \_\_\_ /)

LOCATION: Elevation: 1049 Watershed Sycamore Fork  
District: Smithfield County Roane Quadrangle Tariff 7.5'

COMPANY Pennzoil Company  
ADDRESS P. O. Box 1588, Parkersburg, WV 26101  
DESIGNATED AGENT James A. Crews  
ADDRESS P.O. Box 1588, Parkersburg, WV 26101  
SURFACE OWNER Delmas Conley  
ADDRESS Left Hand, WV 25251  
MINERAL RIGHTS OWNER Anna Lee Collins  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK Homer  
Dougherty ADDRESS Linden Rt., Box 3-A,  
PERMIT ISSUED 5-3-84 Looneyville WV  
DRILLING COMMENCED 6-11-84  
DRILLING COMPLETED 6-14-84  
IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON \_\_\_\_\_

| Casing & Tubing  | Used in Drilling | Left in Well | Cement fill up Cu. ft. |
|------------------|------------------|--------------|------------------------|
| Size 20-16 Cond. |                  |              |                        |
| 13-10"           |                  |              |                        |
| 9 5/8            |                  |              |                        |
| 8 5/8            |                  |              |                        |
| 7                | 419              | 419          | 100 sks.               |
| 5 1/2            |                  |              |                        |
| 4 1/2            | 2075             | 2075         | 50 sks.                |
| 3                |                  |              |                        |
| 2                |                  |              |                        |
| Liners used      |                  |              |                        |

GEOLOGICAL TARGET FORMATION Big Injun Depth 2070-2080 feet  
Depth of completed well 2136 feet Rotary x / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 59-78 feet; Salt 1785-1860 feet  
Coal seam depths: \_\_\_\_\_ Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Water Injection Well Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in  
(If applicable due to multiple completion--)  
Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

DEC 26 1984  
(Continue on reverse side)

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

WELL LOG

| FORMATION              | COLOR | HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS   |
|------------------------|-------|--------------|----------|-------------|---|
|                        |       |              |          |             | Including indication of all fresh and salt water, coal, oil and gas |
| Sand                   |       |              | 0        | 18          |   |
| Siltstone              |       |              | 18       | 58          |   |
| Sand                   |       |              | 58       | 78          |   |
| Siltstone, Shale, Sand |       |              | 78       | 1898        |   |
| Little Lime            |       |              | 1898     | 1938        |   |
| Blue Monday            |       |              | 1938     | 1944        |   |
| Pencil Cave            |       |              | 1944     | 1960        |   |
| Big Lime               |       |              | 1960     | 2070        |   |
| Big Injun              |       |              | 2070     | 2088        |   |
| Pocono Shale           |       |              | 2088     | 2136        |   |
| Total Depth            |       |              |          | <u>2136</u> |   |

(Attach separate sheets as necessary)

Pennzoil Company  
Well Operator

By: *Curtis A. Lucas*  
Date: 12-4-84

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."

- 1) Date: April 12, 1984  
 2) Operator's Well No. P. A. Tallman #76  
 3) SIC Code \_\_\_\_\_  
 4) API Well NO. 47 - 087 - 3878-LI  
 State County Permit  
 5) UIC Permit No. \_\_\_\_\_

STATE OF WEST VIRGINIA  
 NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION  
 for the  
 OFFICE OF OIL AND GAS, DEPARTMENT OF MINES, AND FOR  
 (CLASS II WELLS ONLY)  
 THE DIVISION OF WATER RESOURCES, DEPARTMENT OF NATURAL RESOURCES

RECEIVED  
APR 17 1984  
OIL & GAS DIVISION  
DEPT. OF MINES

- 6) WELL TYPE: Liquid injection  / Gas injection (not storage) \_\_\_\_\_ / Waste disposal \_\_\_\_\_  
 7) LOCATION: Elevation: 1049.86 Watershed: Sycamore Fork  
 District: Smithfield County: Roane Quadrangle: Tariff 7.5'  
 8) WELL OPERATOR Pennzoil Company 9) DESIGNATED AGENT James A. Crews  
 Address P. O. Box 1588 Address P. O. Box 1588  
Parkersburg, WV 26101 Parkersburg, WV  
 10) OIL & GAS INSPECTOR TO BE NOTIFIED 11) DRILLING CONTRACTOR:  
 Name Homer Dougherty Name \_\_\_\_\_  
 Address Linden Rt., Box 3-A Address \_\_\_\_\_  
Looneyville, WV  
 12) PROPOSED WELL WORK: Drill  / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate  /  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_ / Convert \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_  
 13) GEOLOGICAL TARGET FORMATION, Big Injun Depth 2060 feet(top) to 2085 feet(bottom)  
 14) Estimated depth of completed well, (or actual depth of existing well) 2140 ft.  
 15) Approximate water strata depths; Fresh, 350 feet; salt, \_\_\_\_\_ feet.  
 16) Approximate coal seam depths: \_\_\_\_\_  
 17) Is coal being mined in the area? Yes \_\_\_\_\_ / No  /  
 18) Virgin reservoir pressure in target formation 80 psig. Source Estimated  
 19) Estimated reservoir fracture pressure 2655 psig (BHFP)  
 20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 25 Bottom hole pressure 2000  
 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: \_\_\_\_\_  
Fresh Water, Bactericides  
 22) FILTERS (IF ANY): Coal Filters  
 23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: \_\_\_\_\_

24) CASING AND TUBING PROGRAM

| CASING OR TUBING TYPE | SPECIFICATIONS |            |                |                                     |                                     | FOOTAGE INTERVALS |              | CEMENT FILL-UP OR SACKS (Cubic feet) | PACKERS   |
|-----------------------|----------------|------------|----------------|-------------------------------------|-------------------------------------|-------------------|--------------|--------------------------------------|---|
|                       | Size           | Grade      | Weight per ft. | New                                 | Used                                | For drilling      | Left in well |                                      |   |
| Conductor             |                |            |                |                                     |                                     |                   |              |                                      | Kinds   |
| Fresh water           | <u>7</u>       |            |                |                                     | <input checked="" type="checkbox"/> | <u>380</u>        | <u>380</u>   | <u>Cement to surface</u>             | Sizes   |
| Coal                  |                |            |                |                                     |                                     |                   |              |                                      |   |
| Intermediate          |                |            |                |                                     |                                     |                   |              |                                      |   |
| Production            | <u>4-1/2</u>   | <u>K55</u> | <u>9.5</u>     | <input checked="" type="checkbox"/> |                                     | <u>2138</u>       | <u>2138</u>  | <u>Over Lower Salt Sand</u>          | Depths set  |
| Tubing                |                |            |                |                                     |                                     |                   |              |                                      |   |
| Liners                |                |            |                |                                     |                                     |                   |              |                                      | Perforations:<br>Top <input checked="" type="checkbox"/> Bottom |

- 25) APPLICANT'S OPERATING RIGHTS were acquired from P. A. Tallman, et ux  
 by deed \_\_\_\_\_ / lease  / other contract \_\_\_\_\_ / dated May 21, 1906, of record in the  
Roane County Clerk's office in Lease Book 12 at page 26

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-087-3878-LI

Date May 3 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and (if required) construction and reclamation plan, subject to any modifications and conditions specified below.

Permit expires May 3, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

|                           |                              |                             |                               |               |
|---------------------------|------------------------------|-----------------------------|-------------------------------|---------------|
| <del>BOND</del><br>BANKET | Agent:<br><i>[Signature]</i> | Plat:<br><i>[Signature]</i> | Casing:<br><i>[Signature]</i> | Fee<br>174.59 |
|---------------------------|------------------------------|-----------------------------|-------------------------------|---------------|

*[Signature: Michael Jouis]*  
Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

OFFICE USE ONLY

This part of Form IV-3(b) is to record the dates of certain occurrences and any follow-up inspections.

|                       | Date | Follow-up inspection(s) | Date(s) |
|-----------------------|------|-------------------------|---------|
| Application received  |      |                         |         |
| Well work started     |      | " "                     |         |
| Total depth reached   |      | " "                     |         |
| Well Record received  |      | " "                     |         |
| Reclamation completed |      | " "                     |         |

OTHER INSPECTIONS

Reason: \_\_\_\_\_

Reason: \_\_\_\_\_