**Oil and Gas Division**

**DEPT. OF MINES**

**WELL RECORD**

**Quadrangle: New Martinsville**

**Permit No. 47-051-0682**

**Company:** PPG INDUSTRIES INC.

**Address:** P.O. Box 197 New Martinsville, WV

**Farm:** Goudy

**Acres:** 124.68

**Location (wells):** Ohio River

**Well No.:** PPG 101

**Elev:** 1,281

**District:** Franklin

**County:** Marshall

**The surface of tract is owned in fee by:** Marshall H. and Sarah Geneva Goudy

**Address:** R. D. #1, Proctor, WV 26055

**Mineral rights are owned by:** same

**Address:***

**Drilling Commenced:** 11/16/81

**Drilling Completed:** 11/22/81

**Initial open flow:** *cu. ft.***

**Final production:** 89 Mcf. *cu. ft. per day***

**Well open:** *hrs. before test***

**Well treatment details:** NOT TREATED

*Since well was not completed, there is no production.*

**Coal was encountered at:** 490 Feet

**Inches:** 48

**Fresh water:** Feet

**Salt Water:** Feet

**Producing Sand:** Depth

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<table>
<thead>
<tr>
<th>Formation</th>
<th>Color</th>
<th>Hard or Soft</th>
<th>Top Feet</th>
<th>Bottom Feet</th>
<th>Oil, Gas or Water</th>
<th>Remarks</th>
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<td>Clay</td>
<td></td>
<td></td>
<td>0</td>
<td>20</td>
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<td>1/2&quot; stream water on connections</td>
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<tr>
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<td>895</td>
<td>1285</td>
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*Indicates Electric Log tops in the remarks section.*
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<th>Formation</th>
<th>Color</th>
<th>Hard or Soft</th>
<th>Top Feet</th>
<th>Bottom Feet</th>
<th>Oil, Gas or Water</th>
<th>Remarks</th>
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<td>White Sand (Injun Sand)</td>
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<td>2025</td>
<td>2215</td>
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<tr>
<td>Sand w/Sahle</td>
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<td>Oil @ 2070</td>
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<td>Sand (Weir Sand)</td>
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<td>Shale &amp; Sand (Gordon)</td>
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<td>2930</td>
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<td>T.D.</td>
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</table>

**RECEIVED**

DEC 21 1984

OIL & GAS DIVISION
DEPT. OF MINES

Date: July 20, 1984

APPROVED: PPG Industries, Inc. Owner: A. L. Krueger

By: A. L. Krueger, Operations Foreman Brine Well
TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

Surface Owner: Marshall M. & Sarah Geneva Goudy
Address: BD #1 Proctor, WV 26055
Mineral Owner: SAME
Address:
Coal Owner: Appalachian Power Company
Address: Box 1990 Roanoke, VA 24009
Coal Operator: NONE
Address:

DATE: September 11, 1981

Company: PPG Industries, Inc.
Address: Box 191 New Martinsville, WV 26155
Farm: Goudy
Acres: 124.68
Location (waters): Ohio River
Well No.: PGC 101
Elevation: 1281
District: Franklin
County: Marshall
Quadrangle: New Martinsville
7.5

NOTE: Allan R. Poole and Rachel I. Poole, his wife, assigned the lease of the Marshall Goudy property to Pittsburgh Plate Glass Company (PPG Industries) the 7th day of July 1964. As recorded in the office of the clerk of the County Commission of Marshall County, West Virginia, in Assignment Book 4 page 505. This conveys all interest in the oil and gas lease to PPG.

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated May 1, 1964 by Marshall M. & Sarah Geneva Goudy made to Allan R. Poole and recorded on the 6th day of May in Marshall County, Book 363 Page 599.

X NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE

OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days.

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22 of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 5-30-82.

Very truly yours,

(Sign Name) John E. Eldred
Well Operator
Address Box 191
Street
New Martinsville
City or Town West Virginia
State

"SECTION 3. If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit certifying the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

47-051-0682 PERMIT NUMBER
PROPOSED WORK ORDER TO DRILL XXX DEEPEN FRACTURE-STIMULATE

BILLING CONTRACTOR: (If Known) S.W. Jack Drilling Co

NAME: C. D. Douglass

ADDRESS: PPC Industries, Inc.

TELEPHONE: 304-455-2200

RESPONSIBLE AGENT: [faxed information]

RECYCLING WATER FLOOD OTHER

INTENDED CASING PROGRAM:

<table>
<thead>
<tr>
<th>CASING AND TUBING SIZE</th>
<th>USED FOR DRILLING</th>
<th>LEFT IN WELL</th>
<th>CEMENT FILL UP OR SACKS - CUBIC FT.</th>
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<tr>
<td>-16</td>
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<td></td>
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<tr>
<td>-10</td>
<td>11 3/4&quot;</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>3/8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/8</td>
<td>2000'</td>
<td>2000'</td>
<td>cement to surface</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>3480'</td>
<td>3480'</td>
<td></td>
</tr>
<tr>
<td>3/4</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

PROXIMATE FRESH WATER DEPTHS 100' FEET SALT WATER 1800' FEET

PROXIMATE COAL DEPTHS 400', 600'

COAL BEING MINED IN THE AREA? No BY WHOM?

DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, $100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt eof.

VER: I the undersigned, Agent for __________ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the __________ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

BLANKET BOND

For Coal Company
STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION  
APPLICATION FOR A WELL WORK PERMIT

4) WELL TYPE: A Oil / Gas /  
B (If "Gas", Production/heavy)  
Underground storage / Deep / Shallow /

5) LOCATION:  
Elevation: 1281  
Watershed: OHIO RIVER  
District: Franklin Dist  
County: Marshall  
Quad: New Martinsville

6) WELL OPERATOR: Energy Management Services  
Address: 3501 Emerson Ave (P.O. Box 4248)  
Parkersburg, W.V. 26104  
( )  
DESIGNATED AGENT: Niki Traverson  
Address: 204 North Hills Drive  
Parkersburg, W.V. 26101

8) OIL & GAS INSPECTOR TO BE NOTIFIED  
Name: Robert Lowther  
Address: General Delivery  
Middlebourne, W.V.

9) DRILLING CONTRACTOR:  
Name: N.A.  
Address: 

10) PROPOSED WELL WORK:  
Drill / Drill deeper / Redrill / Stimulate  
Plug off old formation / Perforate new formation /  
Other physical change in well (specify).

11) GEOLOGICAL TARGET FORMATION, Riley and Gordon (434)  
Estimated depth of completed well, 3648'  
Approximate tracts depths: Fresh, 1386' feet; salt, 176 c.f.

14) Approximate coal seam depths:  
Is coal being mined in the area? Yes / No

15) CASING AND TUBING PROGRAM  
<table>
<thead>
<tr>
<th>CASING OR TUBING TYPE</th>
<th>SPECIFICATIONS</th>
<th>FOOTAGE INTERVALS</th>
<th>CEMENT FILL-UP OR SACKS (Cubic feet)</th>
<th>PACKERS</th>
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<td>Grade</td>
<td>Weight per ft.</td>
<td>New Used</td>
<td>For drilling</td>
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<td>Fresh water</td>
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<tr>
<td>Coal</td>
<td></td>
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<tr>
<td>Intermediate</td>
<td>8 5/8</td>
<td>XX</td>
<td>1386' (EXISTING)</td>
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<td>Production</td>
<td>4 1/2</td>
<td>XX</td>
<td>t.d.</td>
<td>176 c.f.</td>
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<td>Tubing</td>
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<td>Liners</td>
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</table>

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-051-0682 Frac  
Date July 2 1985

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 reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires July 2, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

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

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.