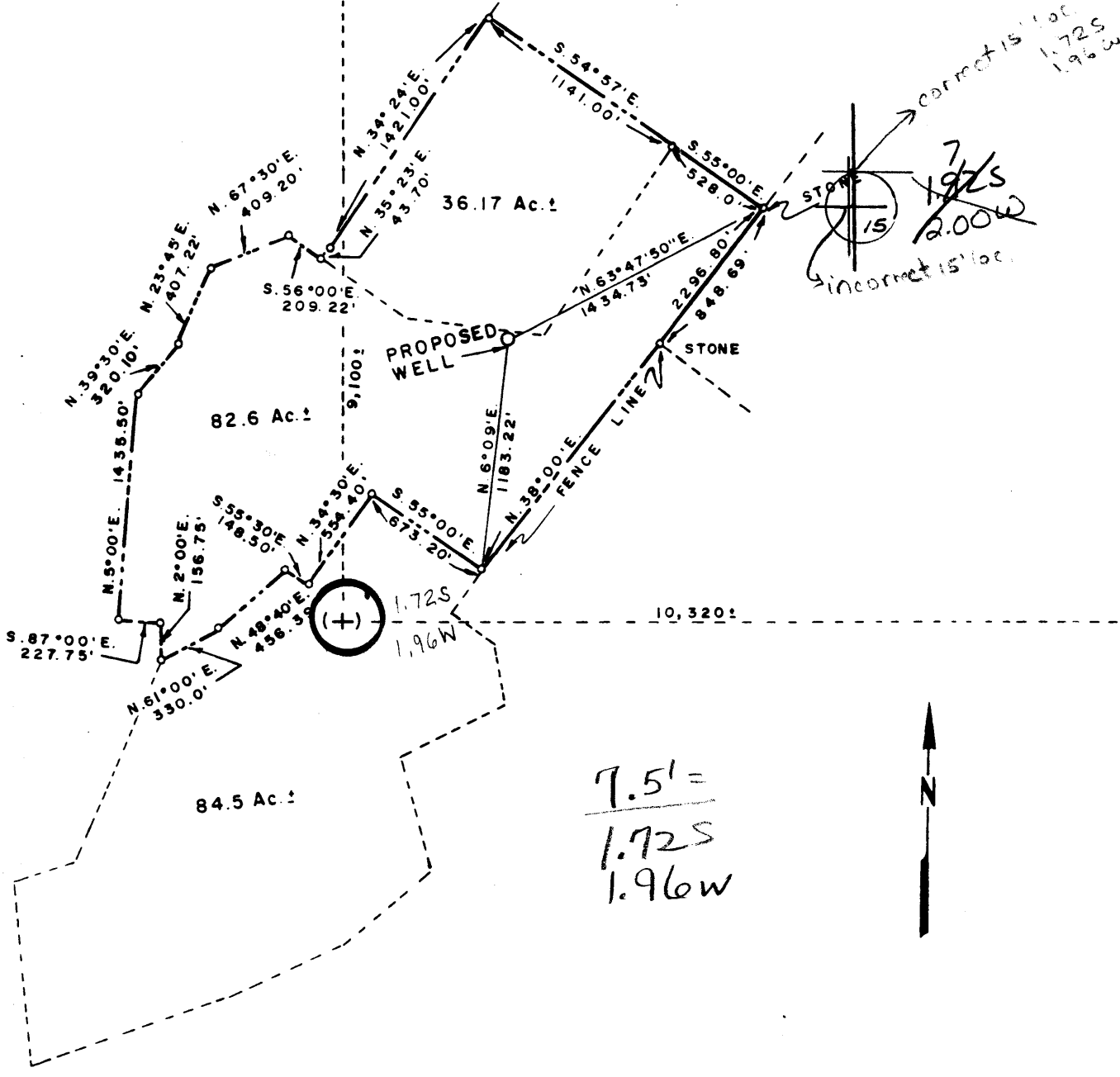


Plot Land CSD



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 800'
 MINIMUM DEGREE OF ACCURACY 1/2400
 PROVEN SOURCE OF ELEVATION U.S.G.S. D-128
 ELEV. 1243.44

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) John A. Schellman

R. E. 5214 L. L. S. 57

PLACE SEAL HERE

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

DATE SEPTEMBER 8, 19 81
 OPERATORS WELL NO. PPG 102
 API WELL NO. _____
47 - 051 - 0683
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ SALT ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1282 WATERSHED OHIO RIVER
 DISTRICT FRANKLIN COUNTY MARSHALL
 QUADRANGLE NEW MARTINSVILLE 75 N 15 W E

SURFACE OWNER STEPHEN C. & CHARLENE RAPCHAK ACREAGE 203.27
 OIL & GAS ROYALTY OWNER MARY LARIMORE HEIRS LEASE ACREAGE 203
 LEASE NO. 8

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEANOUT AND REPLUG ___
 TARGET FORMATION BENSON ESTIMATED DEPTH 3500
 WELL OPERATOR PPG INDUSTRIES DESIGNATED AGENT C. D. Daughless OCT 13 1981
 ADDRESS Box 191 New Martinsville WV 26155 ADDRESS SAME
Proctor (27)



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AUG - 7 1984

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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DEC 21 1984

OIL & GAS DIVISION
DEPT. OF MINES and Gas Division

WELL RECORD

OIL & GAS DIVISION
DEPT. OF MINES
Rotary _____ Oil _____
Gas _____ X _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Quadrangle New Martinsville

Permit No. 47-051-0683

Company PPG INDUSTRIES INC.
Address P.O. Box 191 New Martinsville WV
Farm Larimore Acres 203
Location (waters) Ohio River
Well No. PPG 102 Elev. 1,282'
District Franklin County Marshall
The surface of tract is owned in fee by Stephen C. XXXXXXXXX & Charlene Rapchak
Address 204 LaSomme Dr., Lexington, KY 40505
Mineral rights are owned by Edna Wilson and Opal Kelly Address Toledo, Ohio
Drilling Commenced 11/23/81
Drilling Completed 12/1/81
Initial open flow * _____ cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks)
Size 20-16			
Cond. 13-10" 11 3/4	410'	410'	
9 5/8			
8 5/8	1,478'	1,478'	425 sacks cement
7			
5 1/2			
4 1/2			
3			
2			
Lines Used			

Attach copy of cementing record.

NOT TREATED

*No natural open flow. Since well was not completed, there is no production.

Coal was encountered at 335 Feet 24 Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Clay			0	7.		
Shale			7	35		
Coal			35	37		
Shale			37	85		
Shale - Red Rock			85	110		
Sand			110	135		
Shale - Red Rock			135	235		
Sand			235	335		
Coal			335	337		
Shale			337	345		
Red Rock & Shale			345	370		
Sand			370	405		
Red Rock			405	410		
Sand			410	440		
Shale			440	520		
Sand			520	550		
Red Rock			550	570		
Sand			570	645		
Red Rock			645	660		
Sand			660	1050		
Shale			1050	1160		
Sand w/Shale			1160	1190		
Shale			1190	1280		

* Indicates Electric Log tops in the remarks section.

(over)

JAN 7 1985

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			1280	1310		
Shale			1310	1555		
Coal			1555	1557		
Shale			1557	1605		
Coal			1605	1610		
Sand			1610	1700		Hole damp at 1630'
Black Shale			1700	1710		
Shale			1710	1725		
White Sand			1725	1790		
Limey Sand			1790	1800		
Sand			1800	1805		
Shale			1805	1835		
White Sand			1835	1865		
Sandy Shale			1865	1945		
Big Lime			1945	2000		
Gray Sand (Injun)			2000	2240		
Gray Shale			2240	2400		
White Sand (Weir)			2400	2465		
Sandy Shale			2465	2675		
Lt. Brown Sand			2675	2715		
Shale			2715	2880		
Gray Sand (Gordon)			2880	3025		
Sandy Shale			3025	3090		
Lt. Brown Sand			3090	3115		
Gray Sand			3115	3150		
Lt. Brown Sand			3150	3165		
Gray Sand			3165	3215		
Gray Sand			3215	3245		
Shale			3245	3661		

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DEC 21 1984

OIL & GAS DIVISION
DEPT. OF MINES

Date July 20, _____ 19 84

APPROVED PPG Industries, Inc. (Owner)

By A. L. Krueger, Operations Foreman,
Brine Well



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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SEP 14 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE September 11, 1981

Surface Owner Stephen C. & Charlene Rapchak
Address 204 La. Somme, Lexington, KY 40505
Mineral Owner Edna Wilson & Opal Kelly (Heirs)
Address Toledo, Ohio
Coal Owner Appalachian Power Company
Address Box 1990 Roanoke, VA 24009
Coal Operator NONE
Address _____

Company PPG Industries
Address Box 191
Farm Larimore Acres 203
Location (waters) Ohio River
Well No. PPG 102 Elevation 1282
District Franklin County Marshall
Quadrangle New Martinsville, 7.5

NOTE: Allan R. Poole and Rachel I. Poole, His wife, assigned the lease of Mary B. Larimore property to Pittsburgh Plate Glass Company(PPG Industries) the 7th day of July 1964, 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 April 15 1984 by Mary B. Larimore made to Allan R. Poole and recorded on the 23rd day of April 1964, in Marshall County, Book 363 Page 503

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 _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours,
(Sign Name) John E. Bidam
Well Operator

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

Address Box 191
of _____ Street
Well Operator New Martinsville
City or Town
West Virginia
State

Fred B. Bennett
Deputy Director - Oil & Gas Division

*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 reciting 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.

BLANKET BOND

47-051-0683

PERMIT NUMBER

RECEIVED

SEP 14 1981

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO _____ DRILL XXX DEEPEN _____ FRACTURE STIMULATE ON _____
WV DEPARTMENT OF MINES

DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME S.W. Jack Drilling Co. NAME C. D. Douglass
 ADDRESS P.O. Box 48, Buchannon, W.Va. 26201 ADDRESS PPG Industries, Inc.
 TELEPHONE 304-472-6147 TELEPHONE 304-455-2200
 ESTIMATED DEPTH OF COMPLETED WELL: 3500' ROTARY XXX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Benson
 TYPE OF WELL: OIL XXX GAS XXX COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

PROPOSED TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
- 16			
- 10 1 3/4"	200'		
- 5/8			
- 5/8	2000'	2000'	cement to surface
1/2			
1/2	3480'	3480'	cement 200' above highest producing zone
			Perf. Top
			Perf. Bottom
1 1/2			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100' FEET _____ SALT WATER 1800' FEET _____
 APPROXIMATE 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 ALL 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 of fee.

WAIVER: 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.

For Coal Company