

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION 966'
ROAD INTERSECTION

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) Paul K. Marshall
 R.P.E. _____ L.L.S. 580

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1000' WATER SHED MONONGAHELA RIVER
 DISTRICT GRANT COUNTY MONONGAHELA
 QUADRANGLE MORGANTOWN (15') - MORGANTOWN SOUTH (7.5')
 SURFACE OWNER MORGANTOWN INDUSTRIAL PARK ACREAGE 708.72
 OIL & GAS ROYALTY OWNER MORGANTOWN INDUSTRIAL PARK LEASE ACREAGE 816.46
 LEASE NO. _____



DATE SEPTEMBER 5, 1983
 OPERATOR'S WELL NO. 4
 API WELL NO. 47-061-0740
 STATE COUNTY PERMIT

Cancelled

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

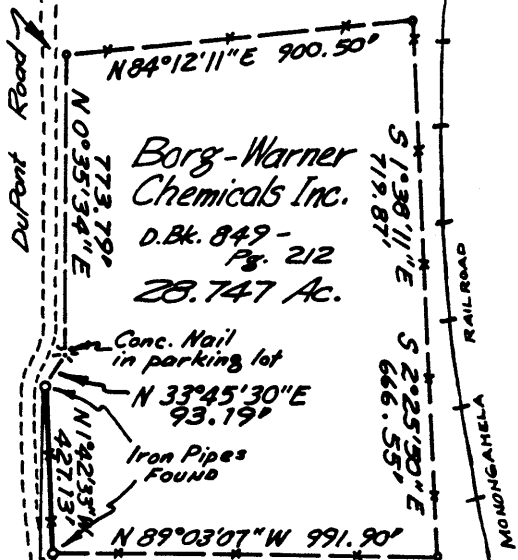
FEB 3 1987

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION SPEECHLEY ESTIMATED DEPTH 3100'
 WELL OPERATOR Borg-Warner Chemicals DESIGNATED AGENT ARTHUR T. SANDY
 ADDRESS PO BOX 1868

6141241-0740
 Cat in folder 47-061-0740

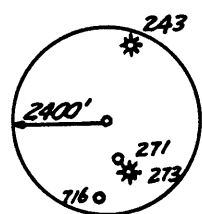
LATITUDE 39°40'00"

15'



LONGITUDE 79°55'00"

22,700'



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STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE SEPTEMBER 5, 1983
 OPERATOR'S WELL NO. 4
 API WELL NO. 47-061-0740
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1000' WATER SHED MONONGAHELA RIVER
 DISTRICT GRANT COUNTY MONONGAHELA
 QUADRANGLE MORGANTOWN (-15-) - MORGANTOWN SOUTH (-15-) 151WC
 SURFACE OWNER MORGANTOWN INDUSTRIAL PARK ACREAGE 708.72
 OIL & GAS ROYALTY OWNER MORGANTOWN INDUSTRIAL PARK LEASE ACREAGE 816.46
 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 SPEECHLEY ESTIMATED DEPTH 3100'
 WELL OPERATOR Borg-Warner Chemicals DESIGNATED AGENT ARTHUR T. SANDY
 ADDRESS P.O. BOX 1868 ADDRESS P.O. BOX 1868
PARKERSBURG, W.VA. 26102 PARKERSBURG, W.VA. 26102



1) Date: September 5, 19 83
 2) Operator's Well No. 4
 3) API Well No. 47 - 061 - 0740
 State County Permit

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 / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 1000' Watershed: Monongahela River
 District: Grant County: Monongahela Quadrangle: Morgantown South
 6) WELL OPERATOR Borg Warner Chemicals 7) DESIGNATED AGENT Arthur T. Sandy
 Address P.O. Box 1868 Address P.O. Box 1868
Parkersburg, W.V. 26102 Parkersburg, W.V. 26102
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name William Blosser Name _____
 Address Rt. 4 Box 317 Address _____
Fairmont, W.V. 26564
 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, Marcellus Shale Speechley
 12) Estimated depth of completed well, 3100' feet
 13) Approximate strata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No

15) 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	16"			X			30'		Kinds
Fresh water	1 3/4"			X			350'	CTS	By Rule 15-01
Coal									Sizes
Intermediate	8 5/8"			X			990'	CTS	Depths set
Production									
Tubing	4 1/2"			X			3100'	310 sacks or as by Rule 15-01	
Liners							CEMENT 100' above top of Big Lime (975') to TD		Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-061-0740 Date October 26, 19 83

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 October 26, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>ol</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>201089</u>
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[Signature]
 Administrator, Office of Oil and Gas

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

File

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