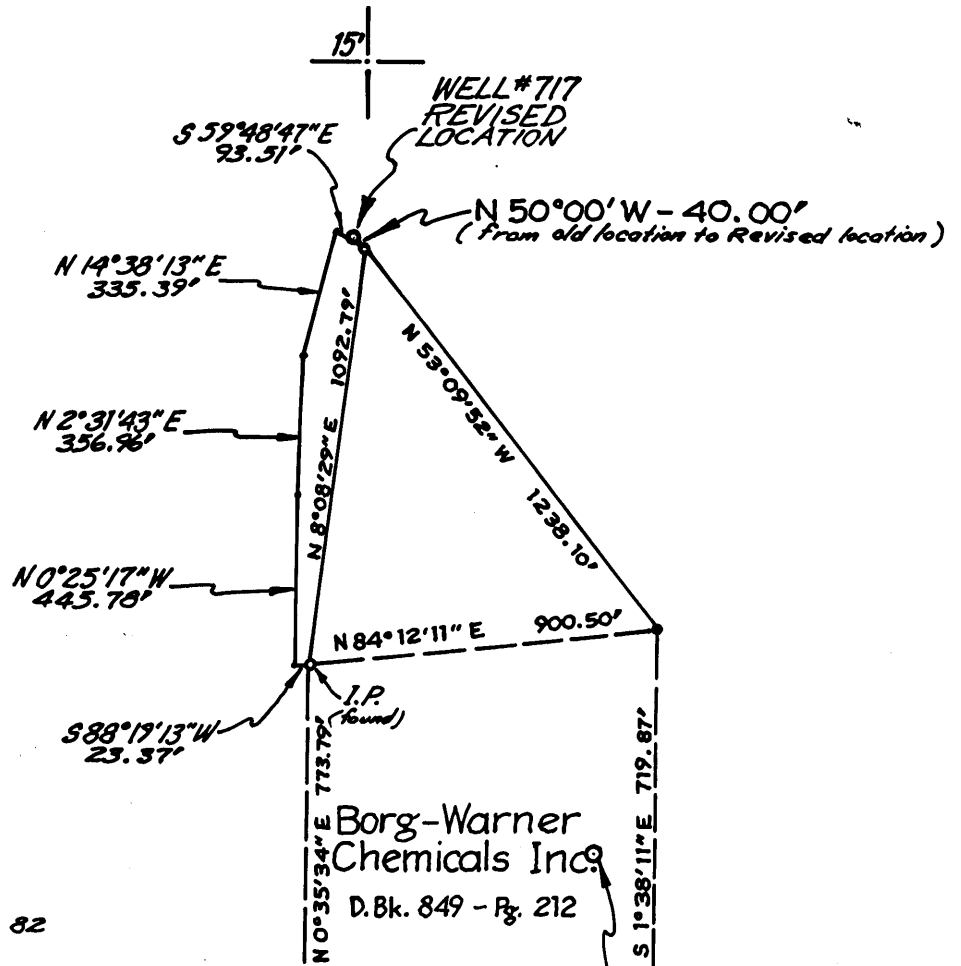


Existing Well # 245  
N 28°23'15"E from  
old well location.



NORTH



PRINCESS COALS INC.  
D.Bk. 816 - Pg. 2

NOTE:

Original Well location surveyed by  
J. E. Huffman - L.L.S. # 631... SEPT. 82  
Well location Revision surveyed by  
Paul K. Marshall - L.L.S. # 580... SEPT. 83

Existing Well # 271  
S 20°35'56"E - 1661.29' from  
old well location.

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 500'  
MINIMUM DEGREE OF  
ACCURACY 1:2500  
PROVEN SOURCE OF  
ELEVATION PLANT FLOOR  
of MAINT. SHOP 953.5'

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 REGU-  
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-  
MENT OF MINES.

(SIGNED) Paul K. Marshall  
R.P.E. \_\_\_\_\_ L.L.S. 580



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION



DATE SEPTEMBER 5, 19 83  
OPERATOR'S WELL NO. 717 REVISED  
API WELL NO. \_\_\_\_\_

47 - 061 - 0717-Free  
STATE COUNTY PERMIT  
FRAQ CANCELLED

(+) 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 917.9' 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. \_\_\_\_\_

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

JAN 23 1983

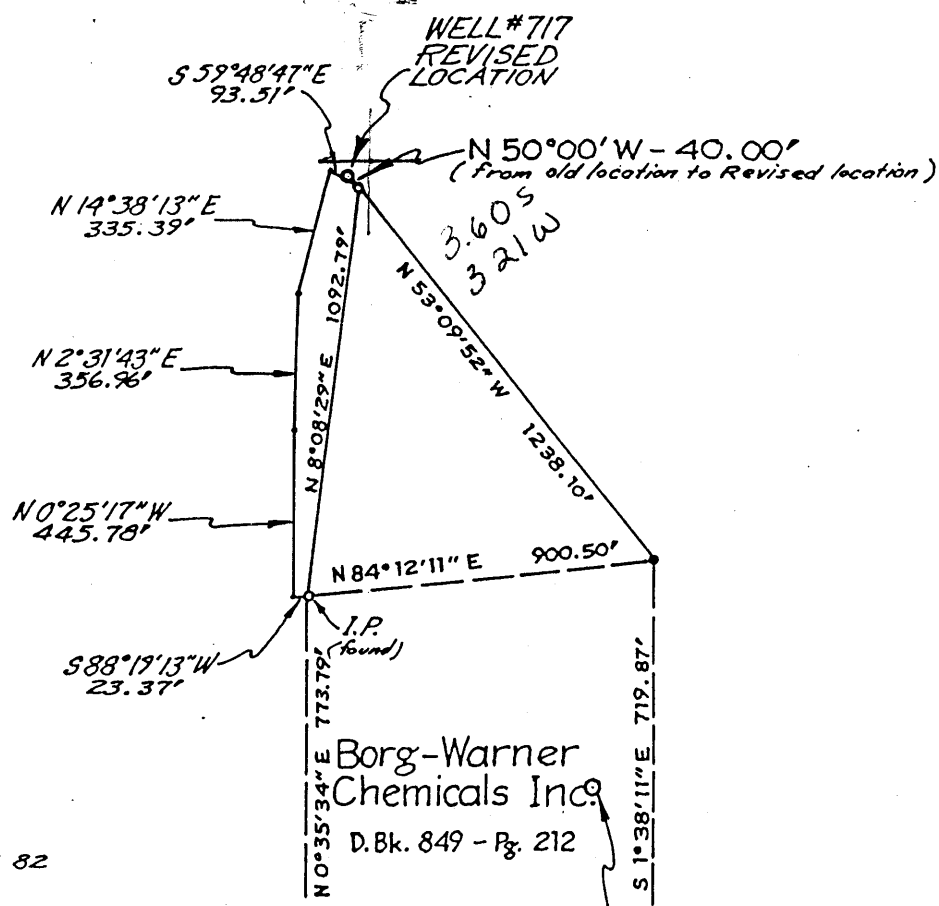
LATITUDE 39°40'00"  
39 37 30

Existing Well # 245  
N 28°23'15"E from  
old well location.

LONGITUDE 79°57'30"  
79°55'00"

7.5  
0515 rmp  
72 S  
99 W

NORTH



PRINCESS COALS INC.  
D.Bk. 816 - Pg. 2

Borg-Warner  
Chemicals Inc  
D.Bk. 849 - Pg. 212

NOTE:

Original Well location surveyed by  
J. E. Huffman - L.L.S. # 631... SEPT. 82  
Well location Revision surveyed by  
Paul K. Marshall - L.L.S. # 580... SEPT. 83

Existing Well # 271  
S 20°35'56"E - 1661.29' from  
old well location.

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 500'  
MINIMUM DEGREE OF  
ACCURACY 1:2500  
PROVEN SOURCE OF  
ELEVATION PLANT FLOOR  
of MAINT. SHOP 953.5'

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 REGU-  
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-  
MENT 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



DATE SEPTEMBER 5, 19 83  
OPERATOR'S WELL NO. 717 REVISED  
API WELL NO.

47 - 061 - 0717 - F  
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 917.9' WATER SHED MONONGAHELA RIVER

DISTRICT GRANT 5 COUNTY MONONGAHELA

QUADRANGLE Morgantown (15') Morgantown South (7.50) 485, 086 WC4

SURFACE OWNER PRINCESS COALS INC. ACREAGE 708.72

OIL & GAS ROYALTY OWNER PRINCESS COALS INC. 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 105 ADDRESS P.O. BOX 1868  
PARKERSBURG, W.VA. 26102 PARKERSBURG, W.VA. 26102

DEC 8 1983

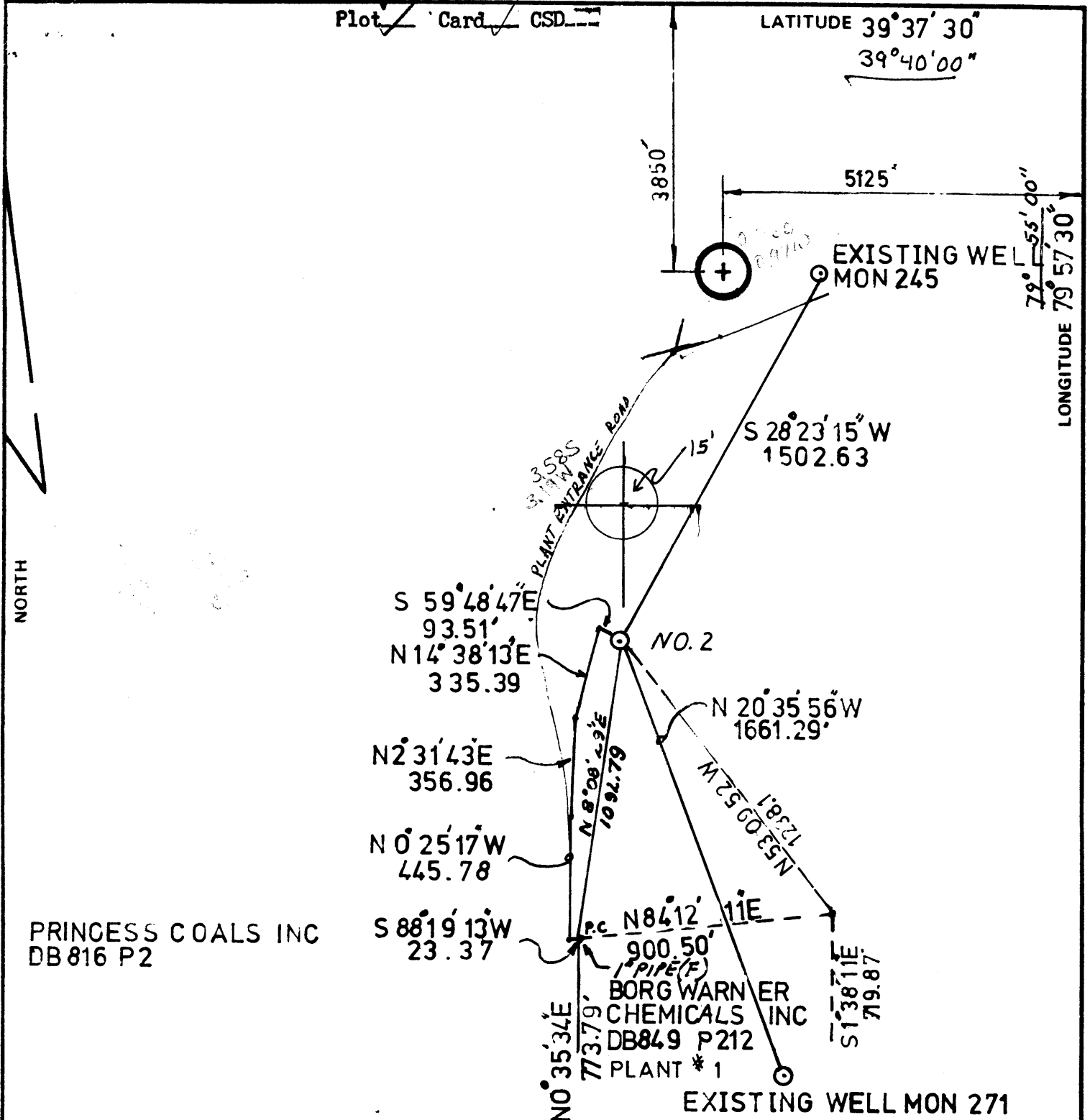
Plot  Card  CSD

LATITUDE 39° 37' 30"

39° 40' 00"

LONGITUDE 79° 57' 30"

NORTH

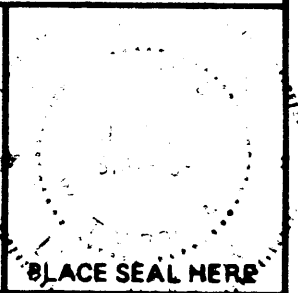


PRINCESS COALS INC  
DB 816 P2

BORG WARNER  
CHEMICALS INC  
DB 849 P212  
PLANT # 1

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE **1 = 500**  
 MINIMUM DEGREE OF ACCURACY **1/2500**  
 PROVEN SOURCE OF ELEVATION **PLANT FLOOR MAINT SHOP 953.5'**

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) Richard Hoffman  
 R.P.E. \_\_\_\_\_ L.L.S. W. 631



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE Sept. 13, 19 82  
 OPERATOR'S WELL NO. 2  
 API WELL NO. 47-061-0717  
 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 917.9 WATER SHED MONONGAHELA RIVER  
 DISTRICT GRANT COUNTY MONONGAHELA LIA  
 QUADRANGLE MORGANTOWN SOUTH 75 Morgantown 15' WC  
 SURFACE OWNER PRINCESS COALS INC. ACREAGE 708.72  
 OIL & GAS ROYALTY OWNER PRINCESS COALS INC. LEASE ACREAGE 816.461  
 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' JAN 24 1983  
 WELL OPERATOR Borg Warner Chemicals DESIGNATED AGENT Arthur T. Sandy  
 ADDRESS PO Box 1868 ADDRESS Same  
Parkersburg, WV 26102 SPD-Grdn Str4 G-4 Wastover (69)

IV-35  
(Rev 8-81)



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SEP 22 1983

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date 9/20/83  
Operator's  
Well No. 2  
Farm Princess Coals Inc  
API No. 47 - 061 - 0717

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

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

LOCATION: Elevation: 918' Watershed Monongahela River  
District: Grant County Monongalia Quadrangle Morgantown S 7 1/2'

COMPANY Borg-Warner Chemicals  
ADDRESS Box 1868, Parkersburg WV 26101  
DESIGNATED AGENT Arthur T. Sandy  
ADDRESS Same  
SURFACE OWNER Princess Coals Inc  
ADDRESS PO Box 1210, Huntington WV 25714  
MINERAL RIGHTS OWNER Same  
ADDRESS Same  
OIL AND GAS INSPECTOR FOR THIS WORK      
W. Blosser ADDRESS Fairmont WV  
PERMIT ISSUED      
DRILLING COMMENCED June 14, 1983  
DRILLING COMPLETED June 20, 1983  
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"	199'	199'	surface
9 5/8			
8 5/8	970'	970'	surface
7			
5 1/2			
4 1/2		2999'	558 ft <sup>3</sup>
3			
2-3/8		2746.55'	None
Liners used			

GEOLOGICAL TARGET FORMATION Speechley Depth 3100 feet  
Depth of completed well 2999 feet Rotary XX / Cable Tools      
Water strata depth: Fresh 50 feet; Salt     feet  
Coal seam depths: 242-246, 468-470 Is coal being mined in the area?    

OPEN FLOW DATA  
Producing formation Gantz Gordon Stray Fifth Bayard Speechley Pay zone depth 1520, 1800, 2080, 2210, 2800 feet  
Gas: Initial open flow 60 Mcf/d Oil: Initial open flow none Bbl/d  
Final open flow 179 Mcf/d Oil: Final open flow none Bbl/d  
Time of open flow between initial and final tests     hours  
Static rock pressure 710 psig (surface measurement) after 168 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

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

- 6-27-83: treated Speechley (2736-2869, 21 holes) with 661 MSCF N<sub>2</sub>.  
gas test before fracture: 0 Mcf/day; gas test af: 44 Mcf/day
- 7-07-83: treated Bayard (2205-2215) with 350 MSCF N<sub>2</sub>.  
gas test before fracture: 5 Mcf/day; gas test af: 5 Mcf/day
- 7-12-83: treated Fifth (2088-2093, 2065-2069) with 540 MSCF N<sub>2</sub>.  
gas test before fracture: 0 Mcf/day; gas test af: 101 Mcf/day
- 7-20-83: treated Gordon Stray (1800-1806) with 488 MSCF N<sub>2</sub>.  
gas test before fracture: 0 Mcf/day; gas test af: 43 Mcf/day
- 7-27-83: treated Gantz (1520-1526) with 577 MSCF N<sub>2</sub>.  
gas test before fracture: 60 Mcf/day; gas test af: 60 Mcf/day

101  
60  
43  
5  
44  
2537

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
shale & sandstone			0	46	hole damp @ 30'
sandstone			46	74	1/4" water @ 50'
shale			74	91	
sandstone			91	134	
sandstone & shale			134	152	
shale			152	169	
sandstone			169	242	
coal			242	246	
shale			246	280	
sandstone & shale			280	457	1/2" water @ 420'
sandstone			457	468	1/2" water @ 468'
coal			468	470	
shale & siltstone			470	515	
sandstone & shale			515	605	
sandstone			605	675	
shale & siltstone			675	938	
limestone			938	954	
siltstone			954	964	
silty limestone			964	988	
limestone (Greenbrier)			988	1066	"Big Lime"
sandstone			1066	1200	"Big Injun"
shaly siltstone			1200	1258	
sandstone			1258	1358	
siltstone			1358	1510	
sandstone			1510	1528	show gas at 1519' 60 Mcf/day
siltstone			1528	1638	
silty sandstone			1638	1703	
shaly siltstone			1703	1796	
sandstone			1796	1807	
shaly siltstone			1807	1884	
silty sandstone			1884	1895	
shaly/sandy siltstones			1895	2046	
sandstone			2046	2096	
siltstone			2096	2134	
sandstone			2134	2184	
shaly/coarse siltstones			2184	3032	TD-Speechley @ TD

(Attach separate sheets as necessary)

Borg-Warner Chemicals

Well Operator

By: Arthur T. Sandy, Energy Resource Manager

Date: September 20, 1983

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

**RECEIVED**  
NOV 26 1986



1) Date: August 15, 1986  
 2) Operator's Well No. TWO  
 3) API Well No. 47 State 061 County 717 Rev. W Frac. Permit

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY, OIL AND GAS DIVISION  
 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY  
**APPLICATION FOR A WELL WORK PERMIT**

- 4) WELL TYPE: A Oil  / Gas   
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow )  
 5) LOCATION: Elevation: 917.9' Watershed: Monongahela River  
 District: Grant 105 5 County: Monongahela 061 Quadrangle: Morgantown South 484  
 6) WELL OPERATOR Borg Warner Chemicals 7) DESIGNATED AGENT Arthur T. Sandy  
 Address P.O. Box 1868 Address Same  
Parkersburg, W.V. 26102  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Donald Ellis Name \_\_\_\_\_  
 Address 2604 Crabapple Lane 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, Speerlex Gantz sand 413  
 12) Estimated depth of completed well, 3100 (1510-1528) 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	11"	H-40	42#	X		50' 199	50' 199	GTS	Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8"	H-40	20#	X		650' 970	650' 970	GTS	
Production	4 1/2"	J-55	10.5#	X		3000'	3000'	to 1200'	Depths set
Tubing									
Lin...									Perforations:
									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-061-0717-F Date December 5 1986

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 December 5, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fee:	WPCP:	SAE:	Other:
	<u>DE</u>	<u>105</u>	<u>AS</u>	<u>360968</u>	<u>Tank</u>	<u>AS</u>	

DE  
 Director, Division 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.

8785



1) Date: May 4, 1983  
2) Operator's Well No. P2-208  
3) API Well No. 47 061 0724  
State County Permit

DRILLING CONTRACTOR:

Chisler Brothers  
Pontreas, WV

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas X /  
B (If "Gas", Production Unknown / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow \_\_\_\_\_ /)
- 5) LOCATION: Elevation: 1358.43 Watershed: Miracle Run  
District: Battelle County: Monongalia Quadrangle: Wadestown
- 6) WELL OPERATOR Eastern Assoc. Coal Corp. 11) DESIGNATED AGENT Gary L. Bennett  
Address Rt. 1, Box 144 Address Rt 1, Box 144  
Fairview, WV 26570 Fairview, WV 26570
- 7) OIL & GAS ROYALTY OWNER Formerly Consolidated Gas Supply Corporation 12) COAL OPERATOR Eastern Assoc. Coal Corp.  
Address 445 West Main St. Address Rt. 1, Box 144  
Clarksburg, WV 26301 Fairview, WV 26570  
Acreage 101 Acres
- 8) SURFACE OWNER Frank Toothman 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Address Rt. 1, Box 144 Name Eastern Assoc. Coal Corp.  
Fairview, WV 26570 Address Rt. 1, Box 144  
Acreage 153.46 Acres Address Fairview, WV 26570
- 9) FIELD SALE (IF MADE) TO:  
Address N/A
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
Name William A. Blosser  
Address Box 1028  
Golfax, WV 26366
- 14) COAL LESSEE WITH DECLARATION ON RECORD:  
Name None  
Address \_\_\_\_\_
- 15) PROPOSED WORK: Drill \_\_\_\_\_ / Drill deeper \_\_\_\_\_ / Redrill X / Fracture or stimulate \_\_\_\_\_  
Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
Other physical change in well (specify) Plug and Abandon
- 16) GEOLOGICAL TARGET FORMATION, 5th and Bayard Sands
- 17) Estimated depth of completed well, 3325 feet
- 18) Approximate water strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.
- 19) Approximate coal seam depths: 690-697 ft. Is coal being mined in the area? Yes X / No \_\_\_\_\_

20) CASING AND TUBING PROGRAM \*Refer to affidavit of plugging, form OC-8.

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									
Coal									Sizes
Intermediate									
Production									Depths set
Tubing									
Liners									Perforations: Top Bottom

- 21) EXTRACTION RIGHTS \*Application for the purpose of redrilling to plug and mine through.  
Check and provide one of the following:  
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.  
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 22) ROYALTY PROVISIONS  
Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes  No
- If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
- 24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: \_\_\_\_\_ Signed: [Signature]  
My Commission Expires 12/14/1985 Its: DESIGNATED AGENT

OFFICE USE ONLY  
DRILLING PERMIT

Permit number \_\_\_\_\_ Date \_\_\_\_\_

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. 10) 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.)

Permit expires January 24, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
-------	--------	-------	--------	-----

Administrator, Office of Oil and Gas

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.  
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
  - (1) A brief description of the tract of land including the district and county wherein the tract is located;
  - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
  - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
  - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

.....

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator \_\_\_\_\_/ owner \_\_\_\_\_/ lessee \_\_\_\_\_/ of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_, 19 \_\_\_\_\_

By \_\_\_\_\_

Its \_\_\_\_\_





PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) \_\_\_\_\_

Address \_\_\_\_\_

GEOLOGICAL TARGET FORMATION, Speechley

Estimated depth of completed well, 3100 feet Rotary X / Cable tools \_\_\_\_\_ /

Approximate water strata depths: Fresh, N/A feet; salt, N/A feet.

Approximate coal seam depths: 350' Is coal being mined in the area? Yes \_\_\_\_\_ / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft			For drilling	Left in well			
Conductor	11"	H-40	42#	X		50'	50'	To surface	Kinds	
Fresh Water										
Coal									Sizes	
Intermediate	8 5/8"	H-40	20#	X		650'	650'	To surface		
Production	4 1/2"	J-55	10.5#	X		3000'	3000'	To 1200'	Depths set	
Tubing										
Liners									Perforations:	
									Top	Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 9-18-83

BY [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator \_\_\_\_\_ / owner X / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

(See attached letter)

Date: \_\_\_\_\_, 19 \_\_\_\_\_

By [Signature]  
Its \_\_\_\_\_

# Morgantown Ordnance Works

DIVISION OF PRINCESS COALS, INC.  
P. O. BOX 1109  
MORGANTOWN, WEST VIRGINIA 26505  
PHONE 304/292-9453

September 14, 1982

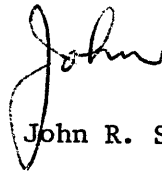
Arthur Sandy  
Borg Warner Chemicals  
International Center  
Parkersburg, WV 26101

Dear Art:

It certainly was a pleasure meeting with you last week and reviewing the two well locations proposed by Borg Warner. We agree on the locations you have selected and look forward to your starting the proposed drilling program.

If we can be of additional assistance, please do not hesitate to contact us.

Sincerely,



John R. Snider

JRS/ljs

cc Phil Snyder  
Cecil Underwood

**RECEIVED**

OCT 19 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES