

8810

LATITUDE 39°-17'-30" (7 1/2)

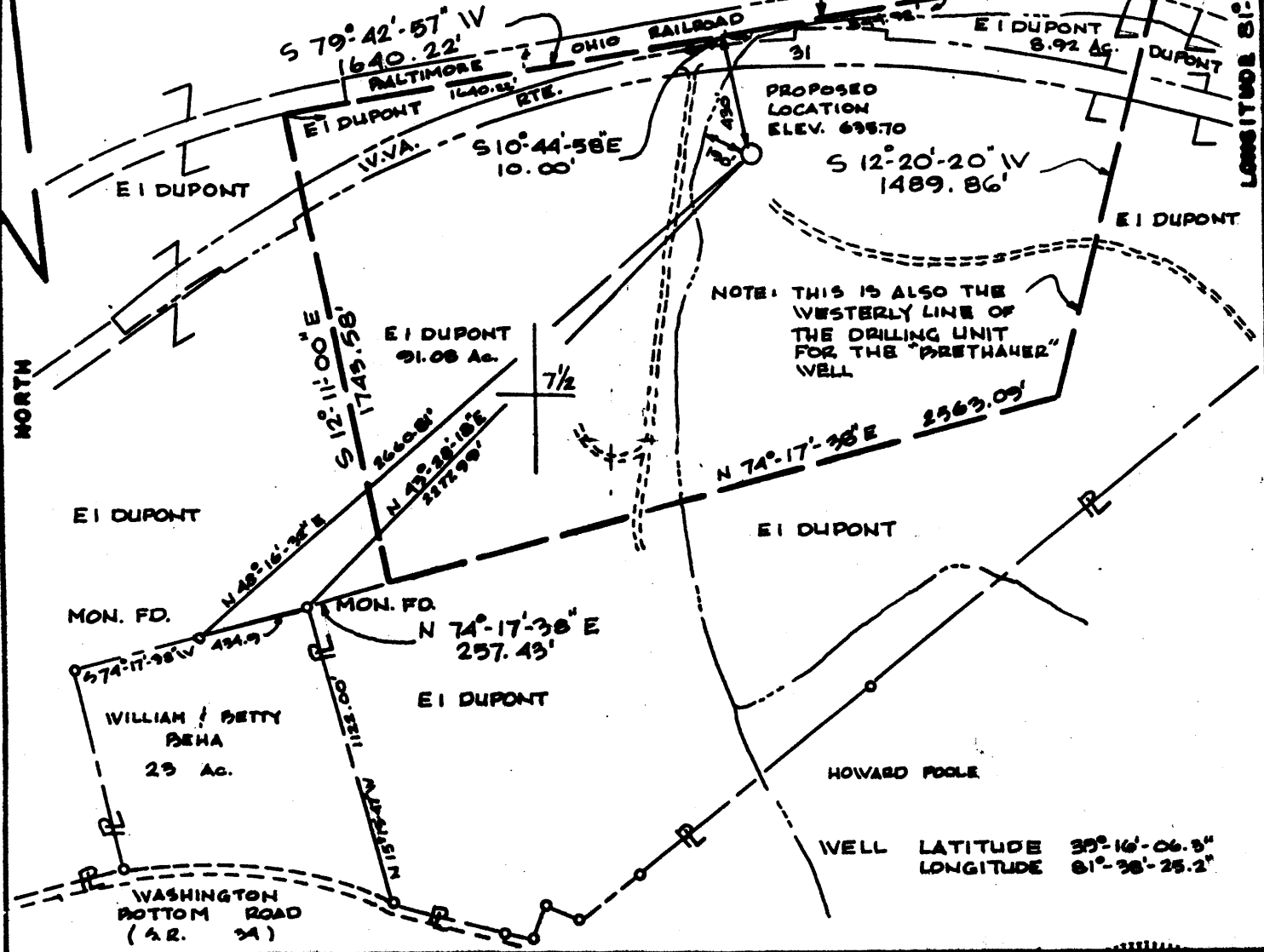
OHIO RIVER

mil 10/28/92

DRILLING UNIT ACREAGE

E I DUPONT	91.08 Ac.
E I DUPONT	8.92 Ac.
TOTAL	100 Ac.

NOTE: VVA RTE. 91 RIGHT-OF-WAY ACREAGE IS NOT INCLUDED IN THE DRILLING UNIT ACREAGE

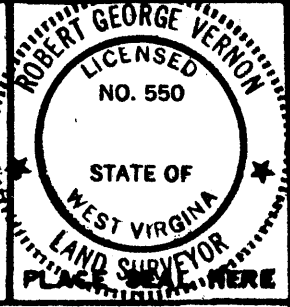


LONGITUDE 81°-57'-30" (7 1/2)

8550

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 600'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION PURGESS / NIPLE LTD. CONTROL FOR WATER PROJECT

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) Robert Vernon
 R.P.E. _____ L.L.S. #550



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



DATE MAY 28, 1980
 OPERATOR'S WELL NO DUPONT 7
 API WELL NO. 47-107 - 1053-P
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

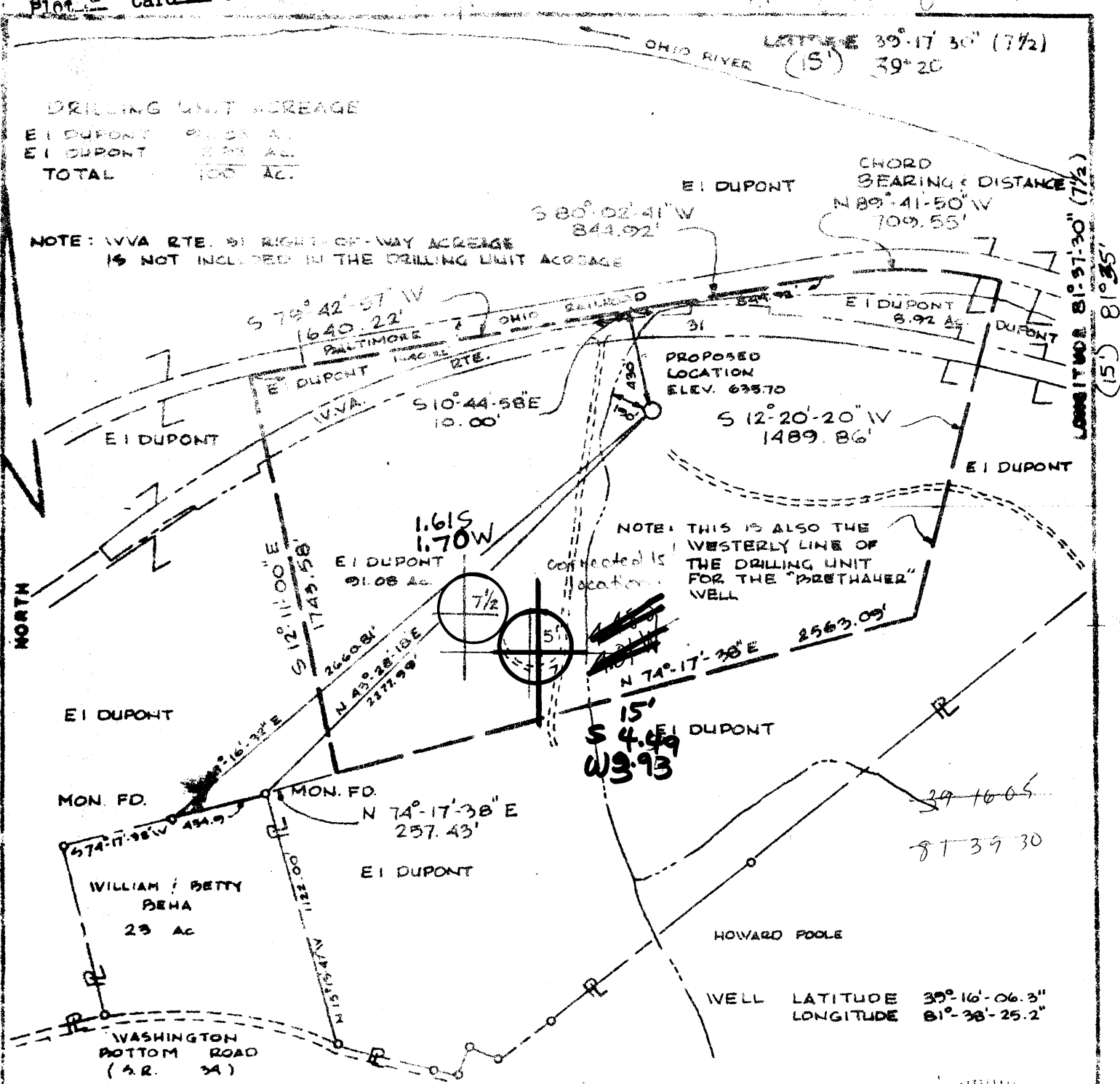
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS", PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 635.70 WATER SHED OHIO RIVER
 DISTRICT LUDECK COUNTY WOOD
 QUADRANGLE LITTLE HOCKING 7 1/2
 SURFACE OWNER E I DUPONT ACREAGE 100 OF 100 UNIT
 OIL & GAS ROYALTY OWNER E.I. DUPONT DE NEMOURS LEASE ACREAGE 100 OF 100 UNIT
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUS OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUS AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 4300'
 WELL OPERATOR E.I. DUPONT DESIGNATED AGENT R.E. SIEBER
 ADDRESS P.O. BOX 1217 ADDRESS P.O. BOX 1217
PARKERSBURG, W.Va. 26101 PARKERSBURG, W.Va. 26101

Latitude 39°-17'-30" (7/2)
(S) 39°-20'

DRILLING UNIT ACRES

E I DUPONT	91.08 AC.
E I DUPONT	8.92 AC.
TOTAL	100 AC.

NOTE: WVA RTE. 91 RIGHT-OF-WAY ACRES IS NOT INCLUDED IN THE DRILLING UNIT ACRES



NOTE: THIS IS ALSO THE WESTERLY LINE OF THE DRILLING UNIT FOR THE "PRETHAYER" WELL

FILE NO. _____
DRAWING NO. _____
SCALE 1"=600'
MINIMUM DEGREE OF ACCURACY 1 PART IN 200
PROVEN SOURCE OF ELEVATION BURGESS TRIPLE LTD. CONTROL FOR WATER PROJECT

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.



(INDICATES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS)
FORM IV-A
(8-79)



DATE MAY 28, 1980
OPERATOR'S WELL NO DUPONT 7
API WELL NO. 47-107 1053
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: DEEP X ALIQUOT IN REGION WASTE DISPOSAL
LOCATION: ELEV. 635.70 AREA SHEET OHIO RIVER
COUNTY: WOOD
SURFACE: E.I. DUPONT ACRES 100 OF 100 UNIT
OIL & GAS OWNED BY: E.I. DUPONT DE NEMOURS

DEEP WELL

CRISKANY DEPTH 4300'
R.E. SIEBER
PARKERSBURG, WVA. 26101
WASHINGTON BOTTOM

AUG 28 1980
357



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary Oil _____
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle Little Hocking 7 1/2

Permit No. 47-107-1053

Company E.I. duPont de Nemours & Co., Inc.
Address P.O. Box 1217, Parkersburg, WV 26101
Farm E.I. duPont Acres 690
Location (waters) Ohio River
Well No. 7 (G-17) Elev. 635.70
District Lubeck County Wood
The surface of tract is owned in fee by _____
E.I. duPont de Nemours & Co., Inc.
Address P.O. Box 1217, Parkersburg, WV
Mineral rights are owned by Same
Address _____
Drilling Commenced 9-9-80
Drilling Completed 9-20-80
Initial open flow Show gas cu. ft. -- bbls.
Final production 1,000 M* cu. ft. per day -- bbls.
Well open 2 hrs. before test 1500 RP.
Well treatment details: *Estimated

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 11-3/4	118 KB	118 KB	Circulate cement
9 5/8			
8 5/8	1996 KB	1996 KB	Circulate cement
7			
5 1/2	4182 KB	4182 to	3882' (est.)
4 1/2			
3			
2	4189	4189	
Liners Used			

Attach copy of cementing record.

10/20/80: Fractured by Halliburton - 579 bbl. water - 20,000# 20/40 mesh sand.

Coal was encountered at None reported Feet _____ Inches _____
Fresh water None reported Feet _____ Salt Water 1400' (est.) Feet _____
Producing Sand Oriskany Sandstone Depth 4182-4202 (KB)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sandy shale			0	40		
Sandstone			40	70		
Shale			70	250		
Sandstone			250	280		
Sandy shale			280	710		
Sandstone			710	780		
Shale			780	850		
Sandstone			850	890		
Shale			890	990		
Sandstone			990	1020		
Sandy Shale			1020	1150		
Sandstone			1150	1200		
Shale			1200	1230		
Sandstone			1230	1260		
Shale			1260	1350		
Sandstone			1350	1560		
Silty shale			1560	1820		
Sand			1820	1824		
Silt and shale			1824	4090		
Limestone			4090	4182		
<u>Sandstone ORISK</u>			4182	4202	4202 T.D. KB	

RECEIVED
NOV 14 1980
DEPT. OF MINES

(over)

* Indicates Electric Log tops in the remarks section



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

NOV 21 1979

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE November 6, 1979

Surface Owner Theodore Corbin

Company Berea Oil & Gas Corp.

Address Rt #2, Waverly, West Virginia

Address see well operator below

Mineral Owner same

Farm Corbin Acres 103

Address _____

Location (waters) Bull Creek

Coal Owner same

Well No. #2 Elevation 890'

Address _____

District Union County Wood

Coal Operator N/A

Quadrangle Willow Island

Address _____

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 7-26-80.

INSPECTOR
TO BE NOTIFIED Paul Goodnight

ADDRESS _____

Deputy Director - Oil & Gas Division

PHONE 304-477-3660

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 February 14 1979 by Theodore Corbin made to Energy Unlimited, Inc. and recorded on the 23rd day of February 1979 in Wood County, Book 717 Page 191
XX 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.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours, MARK SCHUMACHER
(Sign Name)

Address of Well Operator
632 Empire Bank Building
Fourth and Main Streets
Clarksburg
West Virginia 26301
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 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.

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

PROPOSED WORK ORDER TO XX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME N/A _____ NAME Mark Schumacher _____
 ADDRESS _____ ADDRESS Clarksburg, W VA _____
 TELEPHONE _____ TELEPHONE 304-624-6429 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 2700' _____ ROTARY XX _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Gordon _____
 TYPE OF WELL: OIL XX GAS XX COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8 <u>XX</u>	250'	250'	surface
7			
5 1/2			
4 1/2 <u>XX</u>	TD	TD	400'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150 FEET _____ SALT WATER 1500 FEET _____
 APPROXIMATE COAL DEPTHS None _____
 IS COAL BEING MINED IN THE AREA? _____ BY WHOM? _____

TO DRILL:

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

TO 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.

TO 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 thereof.

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

Official Title



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE July 28, 1980

Surface Owner E. I. Du Pont de Nemours & Co., Inc Company E. I. Du Pont de Nemours & Co., Inc
 Address P. O. Box 1217, Parkersburg, W. Va. Address P. O. Box 1217, Parkersburg, W. Va.
 Mineral Owner E. I. Du Pont de Nemours & Co., Inc Farm Washington Works Acres 690
 Address same Location (waters) Ohio River
 Coal Owner None Well No. 7 Elevation 635.70'
 Address _____ District Lubeck County Wood
 Coal Operator None Quadrangle Little Hocking (Ohio-W.Va)
 Address _____

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 4-15-81.

INSPECTOR TO BE NOTIFIED Goodnight
 ADDRESS _____
 PHONE _____

[Signature]
 Deputy Director - Oil & Gas Division

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, (~~as the case may be~~) under grant or lease dated June 22 1964 by O. E. Harless & wife made to E. I. Du Pont de Nemours & Co., Inc. and recorded on the 22nd day of June 1964, in Wood County, Book 491 Page 217

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. *

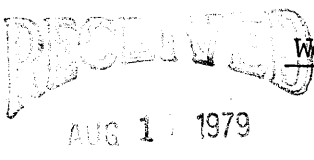
Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston,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

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
 P. O. BOX 879
 MORGANTOWN, WEST VIRGINIA 26505
 AC-304 - 292-6331

Very truly yours,
 (Sign Name) Ralph E. Sieber
 Well Operator Ralph E. Sieber

Address P. O. Box 1217 Street
 of _____
 Well Operator Parkersburg City or Town
West Virginia 26101 State

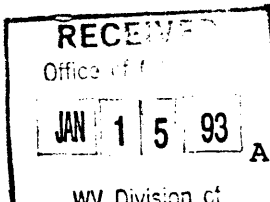


*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that 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.

47-107-1053 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."
 Signed by Ralph E. Sieber

BLANKET BOND



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: DUPONT, E.I. DE NEMOURS Operator Well No.: DUPONT #7 G-17

LOCATION: Elevation: 635.70 Quadrangle: LITTLE HOCKING
District: LUBECK County: WOOD
Latitude: 8550 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 8810 Feet West of 81 Deg. 37 Min. 30 Sec.

Well Type: OIL _____ GAS X

Company: E. I. DU PONT DE NEMOURS Coal Operator NA
AND COMPANY or Owner _____

Agent: CRAIG K. DILLON Coal Operator _____
or Owner _____

Permit Issued: 10/29/92

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of _____ ss:

CRAIG K. DILLON and DAVID A. FRESHWATER being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and GLEN ROBINSON Oil and Gas Inspector representing the Director, say that said work was commenced on the 7TH day of DECEMBER, 1992, and that the well was plugged and filled in the following manner:

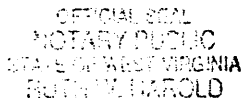
TYPE	FROM	TO	PIPE REMOVED	LEFT
CLASS A CEMENT	4,085	4,185		
6% GEL	3,454	4,085		
CLASS A CEMENT	3,354	3,454	3,515	667
6% GEL	900	3,354		
CLASS A CEMENT	550	900		
6% GEL	120	550		
CLASS A CEMENT	0	120		

Description of monument: 30" X 10' X 5 1/2" WITH ID# WELDED ON CAP
and that the work of plugging and filling said well was completed on the 11TH day of DECEMBER, 1992.

And further deponents saith not.

Sworn and subscribe before me this 30th day of December, 1992.
My commission expires: Sept 30, 1997

Craig K. Dillon
David A. Freshwater
Notary Public



Oil and Gas Inspector: Glen Robinson 1/8/93