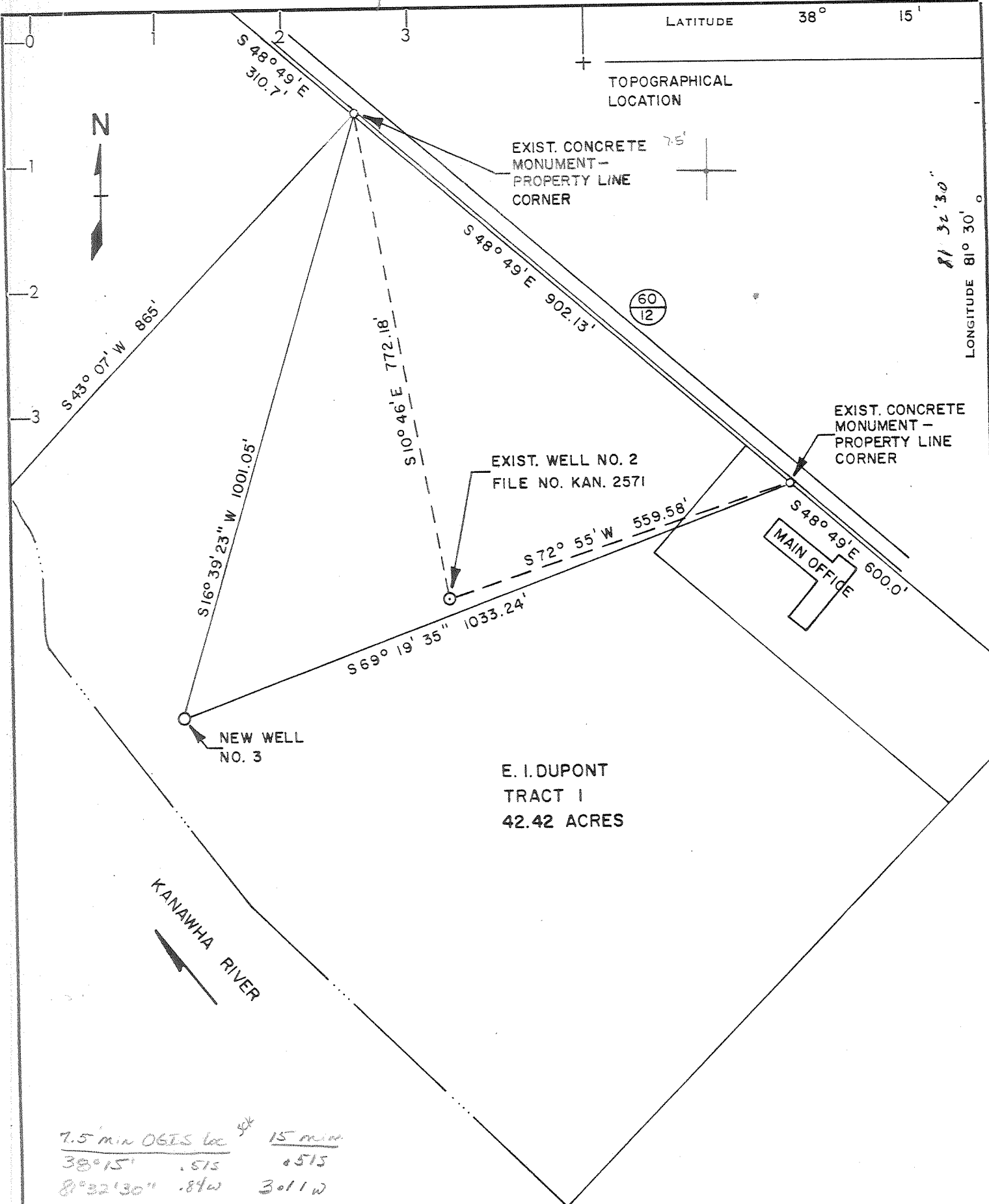


4400'

2/5/79 *TE*



7.5' min OBIS loc *50'* 15' min
 38° 15' .515 .515
 81° 32' 30" .84w 3011w

* E. I. DUPONT MAP 2312, SH. 1 & 2
 DWG. B-846, PROPERTY MAP

CERTIFICATE

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Minimum degree of accuracy is one part in 200

Signed *J. Spradling* WV 2417

COMPANY E. I. DUPONT DEMOURS & CO. INC.

ADDRESS 901 W. DUPONT AVE., BELLE, W.V. 25015

FARM INDUSTRIAL SITE

MAP * ACRES 539 LEASE NO.

WELL (FARM) NO. 3 SERIAL NO.

ELEVATION (SPIRIT LEVEL) 602.5 DUPONT DATUM = 606.65 USGS

QUADRANGLE PEYTONA

COUNTY KANAWHA DISTRICT MALDEN

POINT OF PROVEN ELEVATION USGS BENCH MARK 11JJ = 611.00'

FILE NO. DRAWING NO.

DATE 1/29/79 SCALE 1" = 200'

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

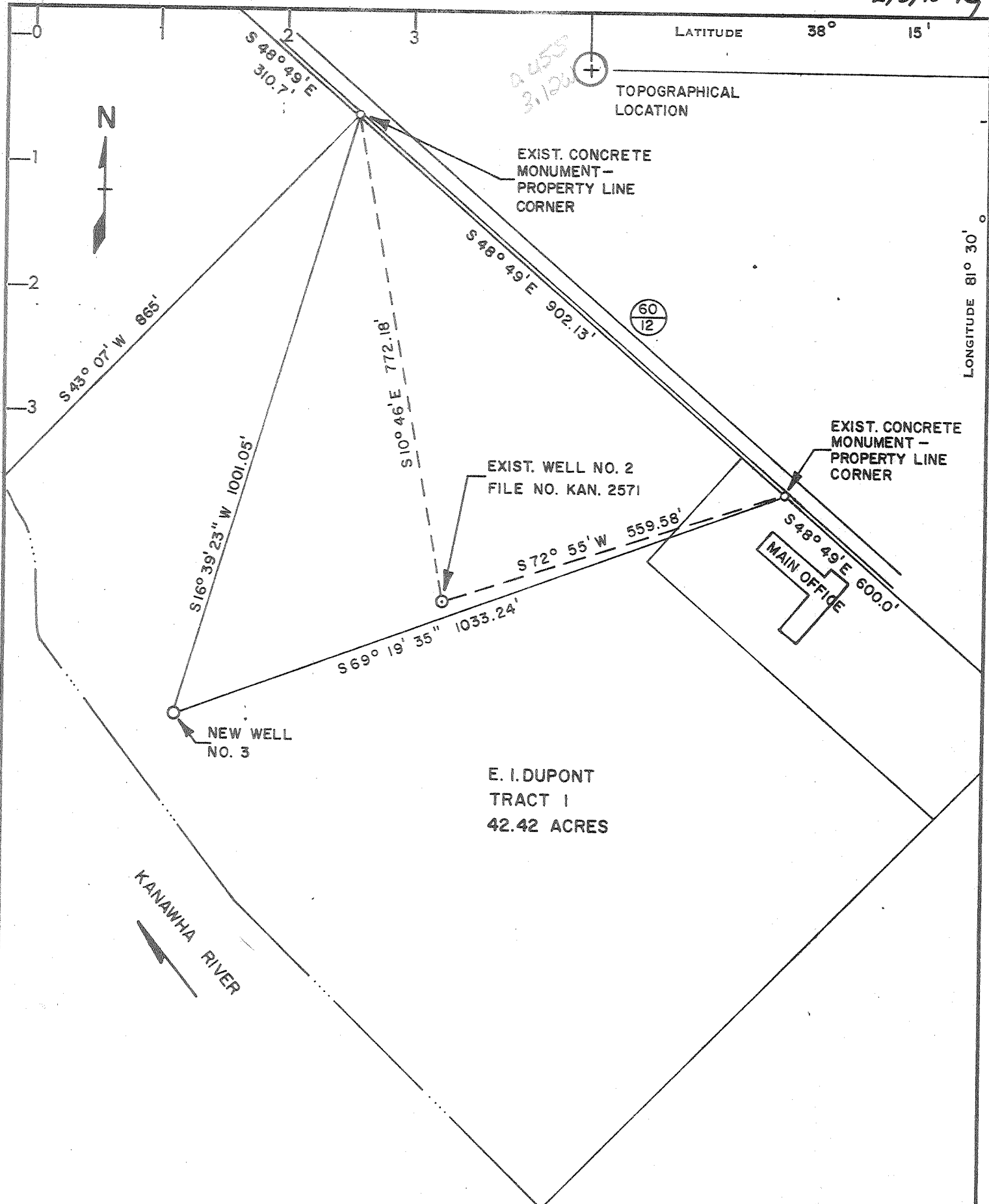
WELL LOCATION MAP

FILE NO. **47-039-3377-F**

APR 22 1985

+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 TO 62,500. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.

- DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.



E. I. DUPONT
TRACT I
42.42 ACRES

* E. I. DUPONT MAP 2312, SH. 1 & 2
DWG. B-846, PROPERTY MAP

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

CERTIFICATE
"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Minimum degree of accuracy is one part in 200

Signed: *J. Edwards* W.V. 2117

COMPANY E. I. DUPONT DEMOURS & CO. INC.
 ADDRESS 901 W. DUPONT AVE., BELLE, W.V. 25015
 FARM INDUSTRIAL SITE
 MAP * ACRES 539 LEASE NO. _____
 WELL (FARM) NO. 3 SERIAL NO. _____
 ELEVATION (SPIRIT LEVEL) 602.5 DUPONT DATUM = 606.65 USGS
 QUADRANGLE PEYTONA *NE*
 COUNTY KANAWHA DISTRICT MALDEN
 POINT OF PROVEN ELEVATION USGS BENCH MARK 11JJ = 611.00'

FILE NO. _____ DRAWING NO. _____
 DATE 1/29/79 SCALE 1" = 200'

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

WELL LOCATION MAP

FILE NO. **47-039-3377**

+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 TO 62,500. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.

FEB 20 1979

- DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

5,200' 7/11/79

West Virg
Department of Mines
Oil and Gas Division

Well No. _____
1270
API No. 059-337

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 602 Watershed Kanawha
District: Malden County Kanawha Quadrangle Peyrona

COMPANY E. I. du Pont de Nemours & Co.

See Attached Sketch

ADDRESS 901 W. Du Pont Ave., Belle, WV 25015

SIGNATURE AGENT _____

ADDRESS _____

INTERFACE OWNER E. I. du Pont de Nemours & Co.

ADDRESS 901 W. Du Pont Ave., Belle, WV 25015

GENERAL RIGHTS OWNER E. I. du Pont de Nemours & Co.

ADDRESS 901 W. Du Pont Ave., Belle, WV 25015

LAND AND GAS INSPECTOR FOR THIS WORK _____

ADDRESS _____

PERMIT ISSUED _____

DRILLING COMMENCED October, 1978 (?)

DRILLING COMPLETED July, 1979

APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
WORKING. VERBAL PERMISSION OBTAINED

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.		20" 101 ft.	
13-10"		13 3/8" 1982'	
9 5/8		5120'	
8 5/8			
7			
5 1/2			
4 1/2			
3		3 1/2' FRP 4305'	
2			
Liners used			

GEOLOGICAL TARGET FORMATION Newburg, Oriskany, Marcellus Sandstone, Sand, Shale Depth 5150-4328' feet

Depth of completed well 5136 feet Rotary x / Cable Tools _____

Water strata depth: Fresh Unknown feet; Salt Unknown feet

Coal seam depths: Unknown. Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation N.A. Pay zone depth _____ feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ Mcf/d 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

(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

(Continue on next page)

over →

WELL #5

Gray 13 3/8" X 9 5/8" X
3 1/2" O.D. Surface Casing
3000 psi MSP
All Measurements From G.L.

Class A Cement
105 Sacks
2% Gel, 5% NaCl
20" O.D. C/S
Conductor Casing
94#/Ft., H-40
3 1/2" O.D. FRP

Halliburton Light
Cement, 3% CaCl₂,
10#/SK Gilsonite,
1/4#/SK Flocele

Pozmix 50/50 Cement
1250 Sacks, W/ 2%
Bentonite, 3/4% CFR-2
10% Salt

Class H Cement
250 Sacks W/2% CaCl₂,
3/4% CFR-2

4282' - 4283'
Perforations - 4 holes
squeezed off w/Class A
cement to isolate
basal Marcellus Shale

T.I.W. 9 5/8" X 3 1/2"
Steel Packer W/Viton*
Pack-off and 10'
Polished Bore (Chevron
Style Teflon* Seals)

4 1/2" O.D. X 40' FRP
Screen W/Top 15'
Blank, Slots 0.030" X
3" - 20 /Row Equally
Spaced 1 1/2" Vertically

7 7/8" Core Hole

20' - 3 1/2" O.D. Incoloy Tubing
101'

13 3/8" O.D. C/S Surface Casing,
54.5#/ft., K-55, ST&C

9 5/8" O.D. C/S Casing, H-80
40#/Ft., LT&C

1982'

20% NaCl₂, 25-50 psi Above Injecti
Pressure

3953' DV Tool

3 1/2" O.D. C/S Tubing

4305'

4328' Perforations "Black
4 Holes/ft. Shale"
4349' (Injection Zone)

5077' Records of top of screen
questionable as corrected
G.L., would not allow any
screen below casing.

5120'

Plug Stuck in Hole 5136'

5157'

3315'

3980'

5131'

5157'

on Hamilton

lus Marcellus

n Cayugan

g Newburg
one

4349'
ga 4425'
ny 4455'
urg 4670'

INC 5120'



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
JUL 24 1978

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE July 14, 1978

Surface Owner E. I. du Pont de Nemours & Company Company E. I. du Pont de Nemours & Company
 Address 901 W. Du Pont Ave., Belle, WV 25015 Address 901 W. Du Pont Ave., Belle, WV 25015
 Mineral Owner Same Farm Industrial Site Acres 539
 Address _____ Location (waters) Kanawha River
 Coal Owner _____ Well No. Three Elevation 602
 Address _____ District Malden County Kanawha
 Coal Operator _____ Quadrangle Peytona
 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 9-18-79.

[Signature]
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Martin Nichols
PH: 548-6993 ADDRESS Clendenin, W. Va.

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 _____ 19____ by _____ made to _____ and recorded on the _____ day of _____ 19____, in _____ County, Book _____ Page _____

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, W. Va. 26505

Very truly yours,
 (Sign Name) E. I. du Pont de Nemours & Company
 Well Operator
901 W. Du Pont Avenue
 Street
Belle
 City or Town
West Virginia 25015
 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.

BLANKET BOND

47-039-3377

PERMIT NUMBER

[Handwritten signature]

RECEIVED
JUL 8 - 85

AFFIDAVIT OF PLUGGING AND FILLING WELL

OIL AND GAS DIVISION

DEPT. OF MINES

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, one copy mailed to the Department of Mines, 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.

N/A

E. I. Du Pont de Nemours and Company, Inc.

Coal Operator or Owner

Name of Well Operator

Address

Belle, W. Va. 25015

Complete Address

Belle, W. Va. DuPont Plant 19 85

Coal Operator or Owner

WELL AND LOCATION

Address

Malden District

Lease or Property Owner

Kanawha County

Address

WELL NO. 3

Farm

STATE INSPECTOR SUPERVISING PLUGGING

Carlos Hively

AFFIDAVIT

STATE OF WEST VIRGINIA,

ss:

County of Kanawha

Harold W. Jones, President of Harold W. Jones, Inc.,

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 E. I. Du Pont de Nemours and Co., Inc., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 10th day of June, 19 85, and that the well was plugged and filled in the following manner:

Sand or Zone Record Formation	Filling Material	Plugs Used Size & Kind	Casing	
			CSG PULLED	CSG LEFT IN
Newburg	100 sks Class H	9-5/8 cement ret. @ 5080	(5080)	(TD)
Cayugan	253 sks Class H	Cement Plug (4450-5080)		
Onondaga	117 Class A 177 Class H	9-5/8 cement ret @ 4800	(4800-4450)	
Marcellus Shale	200 sks A + 5% Salt	Cement plug 4300-3750		
Hamilton	220 sks A + 5% Salt	Cement plug 3750-3350		
	200 sks A + 5% Salt	Cement plug 3350-2750		
	270 sks A + 5% Salt	Cement plug 2750-2150		
	300 sks A + 5% Salt	Cement Plug 2150-1450		
	225 sks A + 5% Salt	Cement Plug 1450- 800		
	400 sks A + 5% Salt	Cement Plug 800- 0		
	Redi Mix	15- 0		
		(13-3/8 csg. 0 - 1997)	None	All (Left In)
		(9-5/8 csg. 0 - 5100)		"
Coal Seams		Description of Monument		
(Name) N/A		3x3 concrete block - 1 foot		
(Name)		above ground level - Brass		
(Name)		plate with company name, per-		
(Name)		mit No. and date plugged.		

Harold W. Jones 7/8/85

and that the work of plugging and filling said well was completed on the 22nd day of June, 19 85.

And further deponents saith not.

Harold W. Jones

Sworn to and subscribed before me this 27th day of June, 19 85.

Grace C. Orsborne

Notary Public,
State of Texas

My commission expires:
1-31-89

Permit No. 039-3377-P

Grace C. Orsborne
Notary's Printed Name