

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 300'
 MINIMUM DEGREE OF ACCURACY 1" / 5000'
 PROVEN SOURCE OF ELEVATION U.S.G.S. - DU PONT PLANT MONUMENTS

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) Phillip M. Shannon
 R.P.E. _____ L.L.S. #550

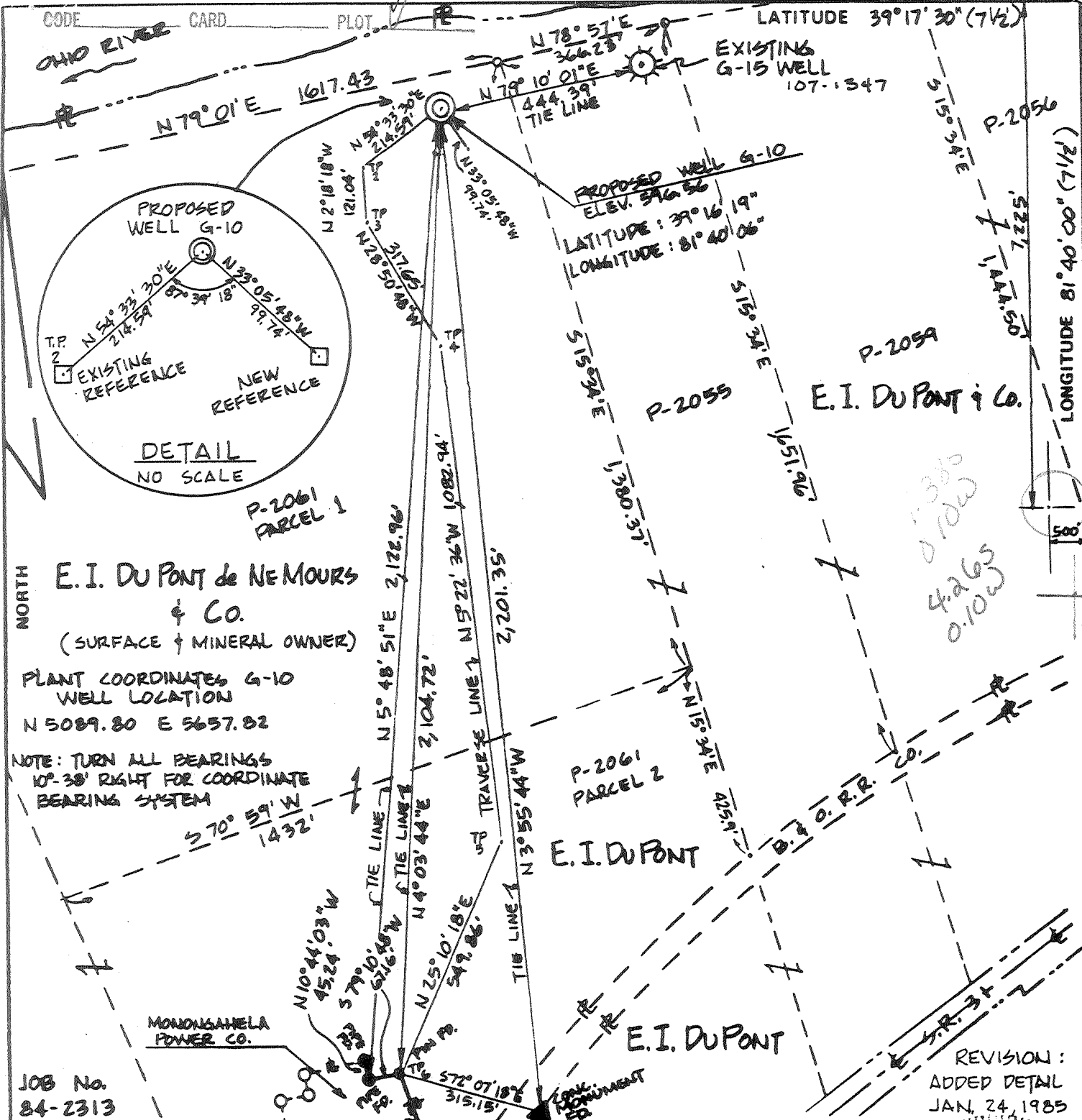


STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

(+) 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 596.56 WATER SHED ADJACENT TO OHIO RIVER
 DISTRICT LUDECK COUNTY WOOD
 QUADRANGLE LITTLE HOCKING 7 1/2° - PARKERSBURG
 SURFACE OWNER E.I. DU PONT de NEMOURS & Co. ACREAGE 99.81
 OIL & GAS ROYALTY OWNER SEE ABOVE SURVEY LEASE ACREAGE _____
 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 ORISKANY ESTIMATED DEPTH 4300' (T/ORISK.)
 WELL OPERATOR E.I. DU PONT de NEMOURS DESIGNATED AGENT PHILLIP M. SHANNON
 ADDRESS P.O. BOX 1217 PARKERSBURG, W. VA. 26102 ADDRESS CO/ E.I. DU PONT de NEMOURS P.O. BOX 1217, PK36, W. VA. 26102

DATE _____, 19____
 OPERATOR'S WELL NO. G-10
 API WELL NO. 47 - 107 - 1347 - P
 STATE COUNTY PERMIT

FEB 18 1980



E. I. DU PONT de NE MOURS & Co.
(SURFACE & MINERAL OWNER)

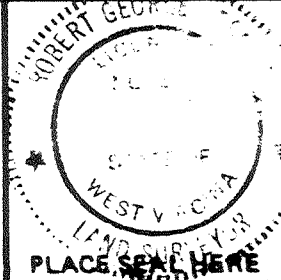
PLANT COORDINATES G-10 WELL LOCATION
N 5089.80 E 5657.82

NOTE: TURN ALL BEARINGS 10°-38' RIGHT FOR COORDINATE BEARING SYSTEM

JOB No. 84-2313

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 300'
MINIMUM DEGREE OF ACCURACY 1/5000'
PROVEN SOURCE OF ELEVATION U.S.G.S. - DU PONT PLANT MONUMENTS

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) Phillip M. Shannon
R.P.E. _____ L.L.S. #550



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE _____, 19____
OPERATOR'S WELL NO. G-10
API WELL NO. 47-107-1347
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 596.56 WATER SHED ADJACENT TO OHIO RIVER
DISTRICT LUBECK 3 COUNTY WOOD 097
QUADRANGLE LITTLE HOKING 7 1/2 - PARKERSBURG 15' SW7
SURFACE OWNER E. I. DU PONT de NE MOURS & Co. ACREAGE 99.81
OIL & GAS ROYALTY OWNER SEE ABOVE SURVEY LEASE ACREAGE _____
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 ORISKANY ESTIMATED DEPTH 4300' (T/ORISK.)
WELL OPERATOR E. I. DU PONT de NE MOURS DESIGNATED AGENT PHILLIP M. SHANNON
ADDRESS P.O. BOX 1217 ADDRESS CO/ E. I. DU PONT de NE MOURS
PARKERSBURG, W. VA. 26102 P.O. BOX 1217, PKB6, W. VA. 26102



JAN 1 1985

- 1) Date: October 17, 19 84
- 2) Operator's Well No. Du Pont G-10
- 3) API Well No. 47 - 107 - 1347
State _____ County _____ Permit _____



OIL & GAS DIV.
DEPT. OF MINES
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas X / None
- 5) LOCATION: Ohio River / Watershed: Ohio River
District: Lubeck / County: Wood / Quadrangle: Little Hocking 197.5 Min.
- 6) WELL OPERATOR E. I. du Pont de Nemours & Co., Inc. DESIGNATED AGENT Phillip M. Shannon / Du Pont
Address P. O. Box 1217 / Address P. O. Box 1217
Parkersburg, WV 26102 / Parkersburg, WV 26102

- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name GLEN ROBINSON
Address 489-9162

- 9) DRILLING CONTRACTOR:
Name _____
Address _____

- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X
Plug off old formation _____ / Perforate new formation _____
Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Oriskany Sandstone
- 12) Estimated depth of completed well, 4300' feet
- 13) Approximate strata depths: Fresh, 50' feet; salt, _____ feet.
- 14) Approximate coal seam depths: None Is coal being mined in the area? Yes _____ / No X

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	Top
Conductor	11 3/4	H-40	42	X		250'	250'	125sxs (surf)	by hole 15.05
Fresh water									
Coal									Sizes
Intermediate	8 5/8	K-55	24	X		2000'	2000'	360sxs (surf)	
Production	5 1/2	K-55	15.5	X		4300'	4300'	170sxs (TOC=2900)	Depths set
Tubing	2 3/8	J-55	4.6	X		4100'	4100'	as required by	15.010
Liners									

NOTE: All cmt. volumes include 25% excess factor

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-107-1347 Date February 6, 19 85

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 February 6, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
56	MH	MH	MH	43970

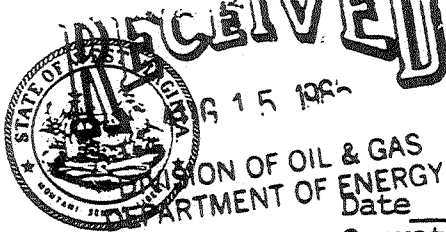
Margaret J. Hesse
Administrator, Office of Oil and Gas

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

RECEIVED

JUL 30 1985

W. VA. OIL & GAS
CONSERVATION COMMISSION



State of West Virginia
Department of Mines
Oil and Gas Division

DATE 15 1985
Date July 12, 1985
Operator's
Well No. Du Pont G-10
Farm --
API No. 47 - 107 - 1347

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

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

LOCATION: Elevation: 608 KB 596 G.L. Watershed Adjacent to Ohio River
District: Lubeck County Wood Quadrangle Little Hocking 7.5 Parkersburg

COMPANY E. I. du Pont de Nemours & Co., Inc.
ADDRESS P. O. Box 1217, Parkersburg, WV 26101
DESIGNATED AGENT Peter B. Vining
ADDRESS Same
SURFACE OWNER E. I. du Pont de Nemours & Co. Inc
ADDRESS P. O. Box 1217, Parkersburg, WV 26101
MINERAL RIGHTS OWNER Same
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK _____
G. P. Robinson ADDRESS Mineral Wells, WV
PERMIT ISSUED January 11, 1985
DRILLING COMMENCED April 16, 1985
DRILLING COMPLETED May 1, 1985
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.			
11-3/4"	245	245	To Surf.
9 5/8			
8 5/8	1995	1995	To Surf.
7			
5 1/2	4300'	4300'	220 sks.
4 1/2			
3			
2-3/8"	4018'	4018'	Tubing
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Sandstone Depth 4300 feet
Depth of completed well 4301 feet Rotary X / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 4092-98 feet
Gas: Initial open flow None Mcf/d Oil: Initial open flow - Bbl/d
Final open flow 20 Mcf/d Final open flow - Bbl/d
Time of open flow between initial and final tests 4 hours

Static rock pressure 750 psig (surface measurement) after 4 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 reverse side)

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

Perforated 4092-98' (Oriskany) acidized w/500 gallons 15% HCl (no flow)

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Surface Soil			0	20	
Shale and Sandstone			20	700	
Sandstone			700	740	
Shale			740	800	
Sandstone			800	840	
Shale and Sandstone			840	1300	
Sandstone			1300	1460	
Shale			1460	4000	
Limestone			4000	4090	Oriskany
Sandstone			4090	4140	(Oriskany)
Limestone			4140	4301	T.D.
					Helderberg @ T.D.
					From nearby Oriskany log
					Up. Devonian 1210 1150
					Lower Huron 2960 490
					Trenton 2450 150
					Acadia 2600 200
					Rhinecliff 3800 150
					Oriskany 3950 50

(Attach separate sheets as necessary)

E. I. du Pont de Nemours & Co., Inc.

Well Operator

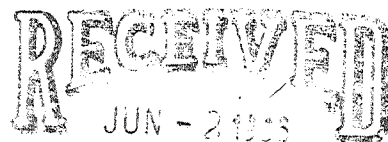
By:

Peter B. Z... (Designated Agent)

Date:

July 12, 1985

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 coal, encountered in the drilling of a well."



AFFIDAVIT OF PLUGGING AND FILLING WELL

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

AFFIDAVIT SHOULD BE MADE 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.

None
Coal Operator or Owner
Address
Coal Operator or Owner
Address
E. I. du Pont de Nemours & Co., Inc.
Lease or Property Owner
P. O. Box 1217, Parkersburg, WV 26102
Address

E. I. du Pont de Nemours & Co., Inc.
Name of Well Operator
P. O. Box 1217 Parkersburg, WV 26102
Complete Address
May 12 19 86
WELL AND LOCATION
Lubeck District
Wood County
WELL NO. 47-107-1347
Du Pont Washington Works Farm
Glen P. Robinson

STATE INSPECTOR SUPERVISING PLUGGING

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Wood ss:

Peter B. Vining and Roy Benjamin Garner
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 & Co. Inc, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 5 day of May, 19 86, 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
4020'-3800'	Cement (25 sacks)			1810' of 5-1/2"
3800'-2460'	Bentonite Gel			2460' of 5-1/2"
2460'-2355'	Cement (30 sacks)			
2355'-2050'	Bentonite Gel			
2050'-1950'	Cement (30 sacks)			1995' of 8-5/8"
1950'-50'	Bentonite Gel			245' of 11-3/4"
50' - 0'	Cement (20 sacks)			
Coal Seams		Description of Monument		
(Name)		36"x7" O.D. cemented pipe		
(Name)		Du Pont No. 8 G-10		
(Name)		API 47-107-1347		
(Name)				

and that the work of plugging and filling said well was completed on the 8 day of May, 19 86.

And further deponents saith not.

Sworn to and subscribed before me this 24th day of May, 19 86.
Peter B. Vining
Roy B. Garner
Notary Public

My commission expires:

Apr 10, 1994

Permit No. W00-1347P