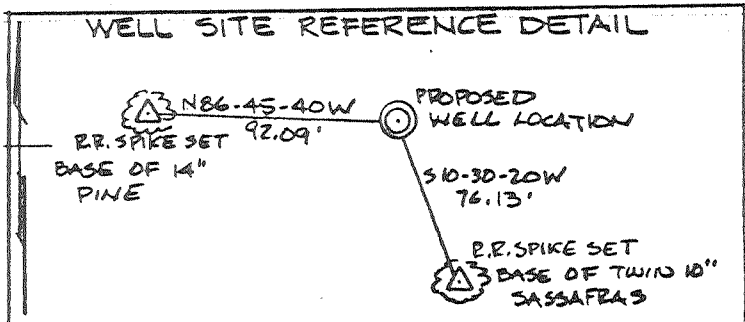


PROPOSED WELL LOCATION  
 ELEV. 679.1  
 LAT. 39° 12' 27"  
 LONG. 81° 39' 45"

RUSSELL C.,  
 LILA A. &  
 DANIEL STEPHENS  
 200 A<sup>±</sup>

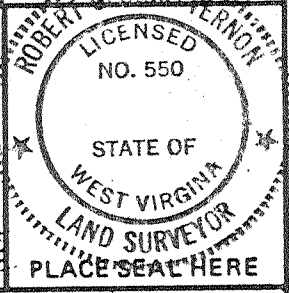
SURFACE OWNERS  
 RUSSELL C. & LILA A. STEPHENS (1/2)  
 DANIEL STEPHENS (1/2)

MINERAL OWNERS  
 JEAN H. BRADY AND HELEN K. VOGEL (1/2)  
 DANIEL STEPHENS (1/4) RUSSELL STEPHENS (1/4)



FILE NO. \_\_\_\_\_  
 DRAWING NO. 286-2538  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF \_\_\_\_\_  
 ACCURACY 1:5000  
 PROVEN SOURCE OF \_\_\_\_\_  
 ELEVATION U.S.G.S.  
 CONTOUR LOCATION \_\_\_\_\_

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) Peter B. Vining  
 R.P.E. \_\_\_\_\_ L.L.S. #550



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



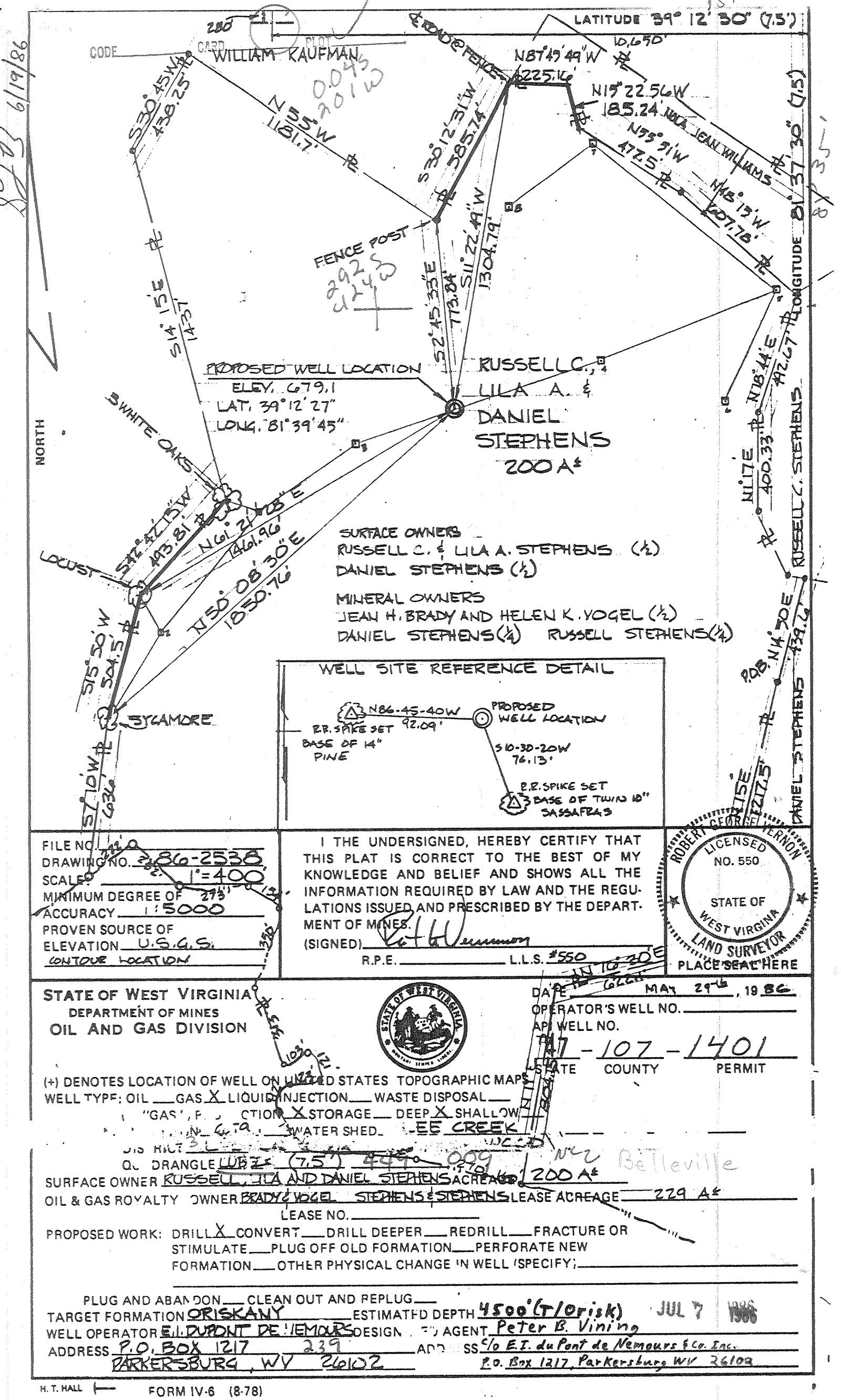
DATE MAY 29<sup>th</sup> 1986  
 OPERATOR'S WELL NO. \_\_\_\_\_  
 API WELL NO. \_\_\_\_\_  
147-107-1401-P  
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 "GAS" F. CTION X STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
 WATER SHFD. LEES CREEK

SURFACE OWNER RUSSELL, LILA AND DANIEL STEPHENS ACRES 200 A<sup>±</sup>  
 OIL & GAS ROYALTY OWNER BRADY, VOGEL, STEPHENS & STEPHENS LEASE ACRES 229 A<sup>±</sup>  
 LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE 'N WELL (SPECIFY): \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 4500' (T/orisk)  
 WELL OPERATOR E.I. DUPONT DE NEMOURS DESIGN AGENT Peter B. Vining AUG 25 1986  
 ADDRESS P.O. BOX 1217 PARKERSBURG, WV 26102 ADDRESS 1/0 E.I. du Pont de Nemours & Co. Inc. P.O. Box 1217, Parkersburg WV 26102

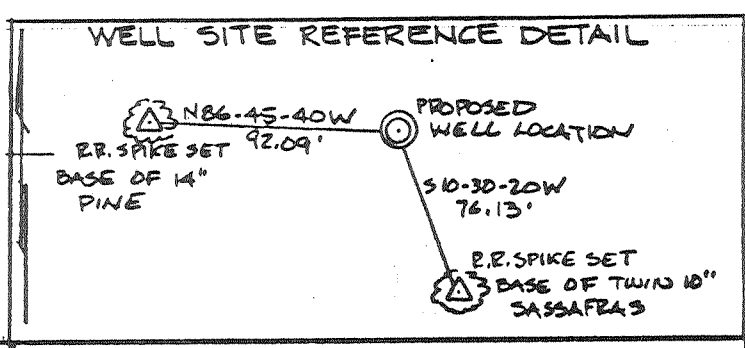


PROPOSED WELL LOCATION  
 ELEV. 679.1  
 LAT. 39° 12' 27"  
 LONG. 81° 39' 45"

RUSSELL C.,  
 LILA A. &  
 DANIEL  
 STEPHENS  
 200 A±

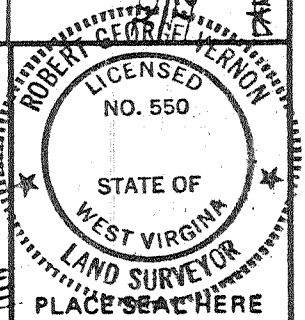
SURFACE OWNERS  
 RUSSELL C. & LILA A. STEPHENS (½)  
 DANIEL STEPHENS (½)

MINERAL OWNERS  
 JEAN H. BRADY AND HELEN K. VOGEL (½)  
 DANIEL STEPHENS (¼) RUSSELL STEPHENS (¼)



FILE NO. \_\_\_\_\_  
 DRAWING NO. 286-2538  
 SCALE 1"=400'  
 MINIMUM DEGREE OF 27'  
 ACCURACY 1:5000  
 PROVEN SOURCE OF  
 ELEVATION U.S.G.S.  
 CONTOUR LOCATION

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) Peter B. Vining  
 R.P.E. \_\_\_\_\_ L.L.S. #550



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE MAY 29 1986  
 OPERATOR'S WELL NO. \_\_\_\_\_  
 AP# WELL NO. 107-1401  
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 "GAS" F. ACTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 WATER SHED. EE CREEK

SURFACE OWNER RUSSELL, LILA AND DANIEL STEPHENS ACRES 200 A±  
 OIL & GAS ROYALTY OWNER BRADY & VOGEL STEPHENS & STEPHENS LEASE ACREAGE 229 A±  
 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 4500' (T/orisk) JUL 7 1986  
 WELL OPERATOR E.I. DUPONT DE NEMOURS DESIGN AGENT Peter B. Vining  
 ADDRESS P.O. BOX 1217 239 ADDRESS 1/2 E.I. du Pont de Nemours & Co. Inc.  
PARKERSBURG, WV 26102 P.O. Box 1217, Parkersburg WV 26102

RECEIVED  
JUN 18 1986



1) Date: June 2, 1986  
2) Operator's Well No. Du Pont G-23  
3) API Well No. 47 107 -1401  
State County Permit

DIVISION OF OIL & GAS  
DEPT. OF ENERGY

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, 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: 679.1 / Watershed: N. Fork Lee Creek/Ohio River 449  
District: Lubeck 3 / County: Wood / Quadrangle: Lubeck WV-OH (7.5 min)
- 6) WELL OPERATOR E. I. du Pont 239 CODE: 14650 7) DESIGNATED AGENT P. B. Vining c/o 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 P. Robinson  
Address Rt. 1 #6 Mt. Pleasant Est. / Address  
Mineral Wells, WV 26150
- 9) DRILLING CONTRACTOR: Name \_\_\_\_\_ Address \_\_\_\_\_
- 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate  /  
Plug off old formation  / Perforate new formation  /  
Other physical change in well (specify) Oriskany Sandstone 475

- 11) GEOLOGICAL TARGET FORMATION, \_\_\_\_\_
- 12) Estimated depth of completed well, 4550 feet
- 13) Approximate true depths: Fresh, 50 feet; salt, \_\_\_\_\_ feet.
- 14) Approximate coal seam depths: None Is coal being mined in the area? Yes \_\_\_\_\_ / No  /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11-3/4"	H-40	42	X		250'	250'	130 sxs (SURF)	Kinds Per Rule 15.05
Fresh water									Sizes
Coal									Depths set
Intermediate	8-5/8"	K-55	24	X		2200'	2200'	400 sxs (SURF)	
Production	5-1/2"	K-55	15.5	X		4550'	4550'	255 sxs (3050)	
Tubing	2-3/8"	J-55	4.7		X	4300'	4300'		Perforations:
Lin...									Top Bottom

Note: all cmt. volumes include 25% excess factor

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-107-1401

Date June 26, 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 June 26, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: AB	Plat: AS	Casing: AS	Fee: 319-93708 12/	WPCP: AS	S&E: MW	Other:
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NOTE: Keep one copy of this permit posted at the drilling location.

John W. Johnston  
Director, Division of Oil and Gas File

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



IV-35  
(Rev 8-81)

Date August 4, 1986  
Operator's  
Well No. DuPont G-23  
Farm Stephens  
API No. 47-107-1401

State of West Virginia  
Department of Mines  
Oil and Gas Division

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 X / Shallow      /)

LOCATION: Elevation: 679.1 Watershed N. Fork Lee Creek/Ohio River  
District: Lubeck County Wood Quadrangle Lubeck WV-OH(7.5 Min.)

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 Russel, Lila & Daniel Stephens  
ADDRESS Rt. 2, Box 261, Washington, WV  
MINERAL RIGHTS OWNER Same  
ADDRESS       
OIL AND GAS INSPECTOR FOR THIS WORK Glen  
P. Robinson ADDRESS Mineral Wells, WV  
PERMIT ISSUED June 26, 1986  
DRILLING COMMENCED July 21, 1986  
DRILLING COMPLETED August 2, 1986  
IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON 8/2/86

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.	24'	24'	
13-10"	257'	257'	To surf.
9 5/8			
8 5/8	2170'	2170'	To surf.
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Sandstone Depth 4280 feet  
Depth of completed well 4400 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 Plugged and Abandoned 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 reverse side)

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

Plugged and Abandoned: Cement 4270'-4170', gel 4170'-2220', cement 2220'-2120', gel 2120'-50', cement 50'-0'.

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	860	
Sandstone			860	870	
Shale			870	950	
Sandstone			950	985	
Shale and Sandstone			985	1490	
Sandstone			1490	1590	
Shale			1590	4180	
Limestone			4180	4280	
Sandstone			4280	4320	Oriskany
Lime			4320	4400	T.D.

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VA STATE SERVICE  
1986 AUG 14 PM 3:34

(Attach separate sheets as necessary)

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

Well Operator

By: *Peter D. [Signature]* /designated Agent

Date: August 4, 1986

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic

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SERVICE  
AUG 14 PM 3:34

AFFIDAVIT OF PLUGGING AND FILLING WELL

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  
Russel, Lila and Daniel Stephens  
Lease or Property Owner  
Rt. 2, Box 261, Washington, WV  
Address

E. I. du Pont de Nemours & Co., Inc.  
Name of Well Operator  
P. O. Box 1217, Parkersburg, WV 26102  
Complete Address  
August 4 19 86  
WELL AND LOCATION  
Lubeck District  
Wood County  
WELL NO. 47-107-1401

Stephens Farm  
STATE INSPECTOR SUPERVISING PLUGGING Glen P. Robinson

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Wood ss:

RECEIVED  
AUG 18 1986  
DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Peter B. Vining and Basil Chambers

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 2nd day of August, 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
4270' - 4170'	Cement (30 sacks)			
4170' - 2220'	Bentonite Gel			
2220' - 2120'	Cement (30 sacks)			2170' of 8-5/8"
2120' - 50'	Bentonite Gel			
50' - 0'	Cement (15 sacks)			257' of 11-3/4"
Coal Seams				
(Name)		Description of Monument		
(Name)		36" x 8-5/8" pipe		
(Name)		DuPont G-23		
(Name)		API 47-107- <del>1377</del> 1401		

and that the work of plugging and filling said well was completed on the 3 day of August, 19 86.  
And further deponents saith not.

Sworn to and subscribed before me this 7th day of August, 19 86.  
Basil Chambers  
Delores J. Callihan  
Notary Public

My commission expires:  
12/26/87

AUG 25 1986 Permit No. 47-107-1401 - P