

OUR PROJECT NO. 83-2039

LATITUDE 39°15'00" (7 1/2)

ALL SURFACE OWNERS SHOWN ARE ALSO THE MINERAL OWNERS.

C. MATHENY

27 Ac

D. LOWERS

21 Ac

R.T. DINES

40 Ac

F. SCHMIDT

40 Ac

D. MATHENY

72 Ac

T. WYATT

\* DRILLING UNIT ACREAGE

D. LOWERS 21 Ac

R.T. DINES 40 Ac

D. MATHENY 72 Ac

F. SCHMIDT 40 Ac

C. MATHENY 27 Ac

TOTAL 200 Ac

\* SEE DRILLING UNITIZATION PLAT ATTACHED

LEGEND

- PIPE FR
- △ STONE FR
- ▬ PROPERTY LINE
- x- FENCE
- P- 1978 TIMBER ALLOTMENT PLAT

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1:16,000  
 PROVEN SOURCE OF ELEVATION TWO U.S.G.S. ROAD INTERSECTION ELEVATIONS

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) Ralph E. Sieber 6/3/83  
 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-21  
 API WELL NO. \_\_\_\_\_  
47 - 107 - 1266  
 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 599.3' WATER SHED SANDY CREEK (A TRIBUTARY OF THE OHIO RIVER)  
 DISTRICT LUBECK COUNTY WOOD  
 QUADRANGLE LUBECK, W.VA. - OHIO (7.5 MINUTE) Bellville 15-NC  
 SURFACE OWNER DARRELL MATHENY ACREAGE 72 Ac OF 200Ac UNIT  
 OIL & GAS ROYALTY OWNER DARREL MATHENY et al. LEASE ACREAGE 200  
 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) \_\_\_\_\_

**DEEP WELL**

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION TUSCARORA SS ESTIMATED DEPTH 6100' 3-6 Washington Bottom (357)  
 WELL OPERATOR E.I. de Pont de Nemours DESIGNATED AGENT RALPH E. SIEBER DPT-Tusc.  
 ADDRESS P.O. Box 1217 ADDRESS P.O. Box 1217 cb E.I. de Pont  
PARKERSBURG, WV 26102 PARKERSBURG, WV 26102

JUN 21 1983



IV-35  
(Rev 8-81)

Date December 30, 1983  
Operator's  
Well No. 2 G-21  
Farm Matheny  
API No. 47 - 107 - 1266

State of West Virginia  
Department of Mines  
Oil and Gas Division

RECEIVED  
JAN 26 1984

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OIL & GAS DIVISION

DEPT. OF MINES

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

LOCATION: Elevation: 612.3 KB  
604.3 GL Watershed Sandy Creek  
District: Lubeck County Wood Quadrangle Lubeck (7.5)

COMPANY E.I. DuPont de Nemours & Co., Inc.

ADDRESS PO Box 1217, Parkersburg, WV 26102

DESIGNATED AGENT Ralph Sieber

ADDRESS Same

SURFACE OWNER Darrel Matheny

ADDRESS Rt. 1, Box 285, Washington, WV

MINERAL RIGHTS OWNER Same

ADDRESS   

OIL AND GAS INSPECTOR FOR THIS WORK   

J. Tephabock ADDRESS Ripley, WV

PERMIT ISSUED June 8, 1983

DRILLING COMMENCED 6/27/83

DRILLING COMPLETED 8/1/83

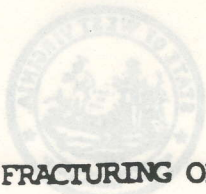
IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON   

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
<del>13-3/4"</del> 11-3/4"	162	162	To surface
9 5/8			
8 5/8	2115	2115	To surface
7			
5 1/2	5892	5892	260 Sks.
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Silurian Sands (Clinton) (Median) Depth 5900 feet  
Depth of completed well 5901 feet Rotary X / Cable Tools     
Water strata depth: Fresh    feet; Salt    feet.  
Coal seam depths: None reported Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation Oriskany Pay zone depth 4196-4202 KB feet  
Gas: Initial open flow show Mcf/d Oil: Initial open flow -- Bbl/d  
Final open flow 200 Mcf/d Final open flow -- Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 1550 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

FEB 14 1984



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

Perforated 5778-5788 (Whirlpool) fractured - no response - set plug @ 5750.  
 Perforated 5696-5711 (Tuscarora) fractured - no response - set plug @ 5674.  
 Perforated 4196-4202 (Oriskany) acidized w/500 gal 15% HCL.  
 Break down 1700 psi - (375 mcf/day)

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			20	200	
Sand			200	240	
Shale			240	310	
Sandstone			310	330	
Shale silt			330	750	
Sandstone			750	900	
Shale silt			900	1240	
Sandstone			1240	1280	
Shale			1280	1355	
Sandstone			1355	1510	
Shale silt			1510	1853	
Sandstone			1853	1856	
Shale and siltstone			1856	4096	
Limestone, Chert			4096	4193	
Sandstone <i>Oriskany</i>			4193	4200	
Limestone, Dolomite			4200	5293	
Sandstone			5293	5323	
Shale			5323	5530	
Dolomite			5530	5545	
Shale			5545	5590	
Sand and shale			5590	5710	(Driller's Clinton Formation
Shale			5710	5773	
Sandstone <i>Tuscarora</i>			5773	5790	(White Medina)
Shale (Queenstone)			5790	5901	T.D.
					<i>5901 4200 1701 expl-ftg</i>

(Attach separate sheets as necessary)

E. I. DUPONT DE NEMOURS & CO. INC.

Well Operator

By: *R. S. Silber*

Date: December 30, 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



1) Date: June 8, 1983  
2) Operator's Well No. G-21  
3) API Well No. 47 State 107 County 126 Permit

DRILLING CONTRACTOR:

Not Selected

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 X / Underground storage        / Deep X / Shallow        /)
- 5) LOCATION: Elevation: 604.3' Watershed: Sandy Creek  
District: Lubeck County: Wood Quadrangle: Lubeck, WV - OHIO
- 6) WELL OPERATOR E.I. du Pont de Nemours & Co. 11) DESIGNATED AGENT Ralph E. Sieber  
Address P. O. Box 1217 Address P. O. Box 1217 &o E.I. du Pont  
Parkersburg, WV 26102 Parkersburg, WV 26102
- 7) OIL & GAS ROYALTY OWNER (See Attachment) 12) COAL OPERATOR None  
Address        Address
- 8) SURFACE OWNER Darrell M. & Wilda F. Matheny 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Address Rt. 1 Name None  
Washington, W. VA. 26181 Address         
Acreage 78 Name         
Address
- 9) FIELD SALE (IF MADE) TO:  
Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
Name         
Address
- 15) PROPOSED WORK: Drill X / Drill deeper        / Redrill        / Fracture or stimulate X /  
Plug off old formation        / Perforate new formation        /  
Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Ascarora 35 - Queenston  
17) Estimated depth of completed well, 6100 feet  
18) Approximate water strata depths: Fresh, 350 feet; salt, 1400 feet.  
19) Approximate coal seam depths: None Is coal being mined in the area? Yes        / No        /

20) 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	13-3/8	H R2	42#	X		150	150	To Surface	Kinds
Fresh water								To Surface	
Coal									Sizes
Intermediate	8-5/8	K55	24#	X		2100	2100	690 Sx	
Production	5-1/2	K55	14#	X		6100	6100	680 Sx	Depths set
Tubing	2-3/8	EUB				6100	6100		
Liners									Perforations:
									Top Bottom

- 21) EXTRACTION RIGHTS  
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: Ralph E. Sieber  
My Commission Expires 3-7-87 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 February 13, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
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Administrator, Office of Oil and Gas

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