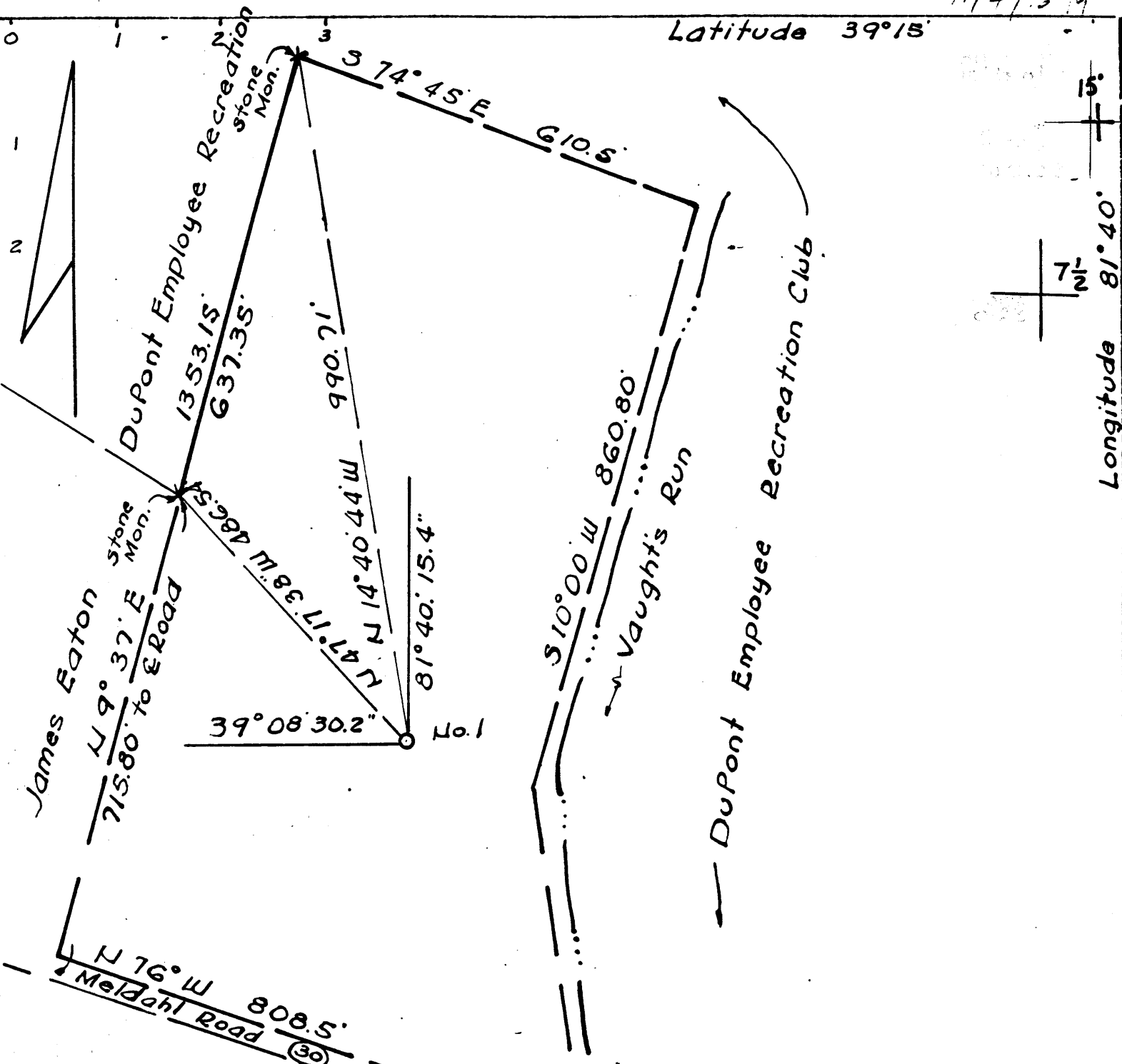


Club  Plat.  Card  CSD

11/4/59



FRACTURE.....  
 REDRILL.....  
 NEW LOCATION...  
 BRILL DEEPER...  
 ABANDONMENT ...  
 Partial Plug - 9/20/52

Source of Elevation Intersection Medahl Road & SR31 El: 685

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.

ELEVATION (Spirit Level) 659.5  
 DATE 10-28-76 SCALE 1"=200'

MINIMUM ACCURACY, one part in 3000.

COMPANY E. I. DUPONT DE NEMOURS & CO.  
 ADDRESS PARKERSBURG, W. VA.  
 FARM SAMUEL BARBER  
 TRACT J ACRES 20 LEASE No. \_\_\_\_\_  
 WELL (Farm) No. 1 SERIAL No. G-7  
 QUADRANGLE LUBECK  
 COUNTY WOOD DISTRICT LUBECK  
 SURVEYOR or ENGINEER R. U. Schulteis Jr.

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

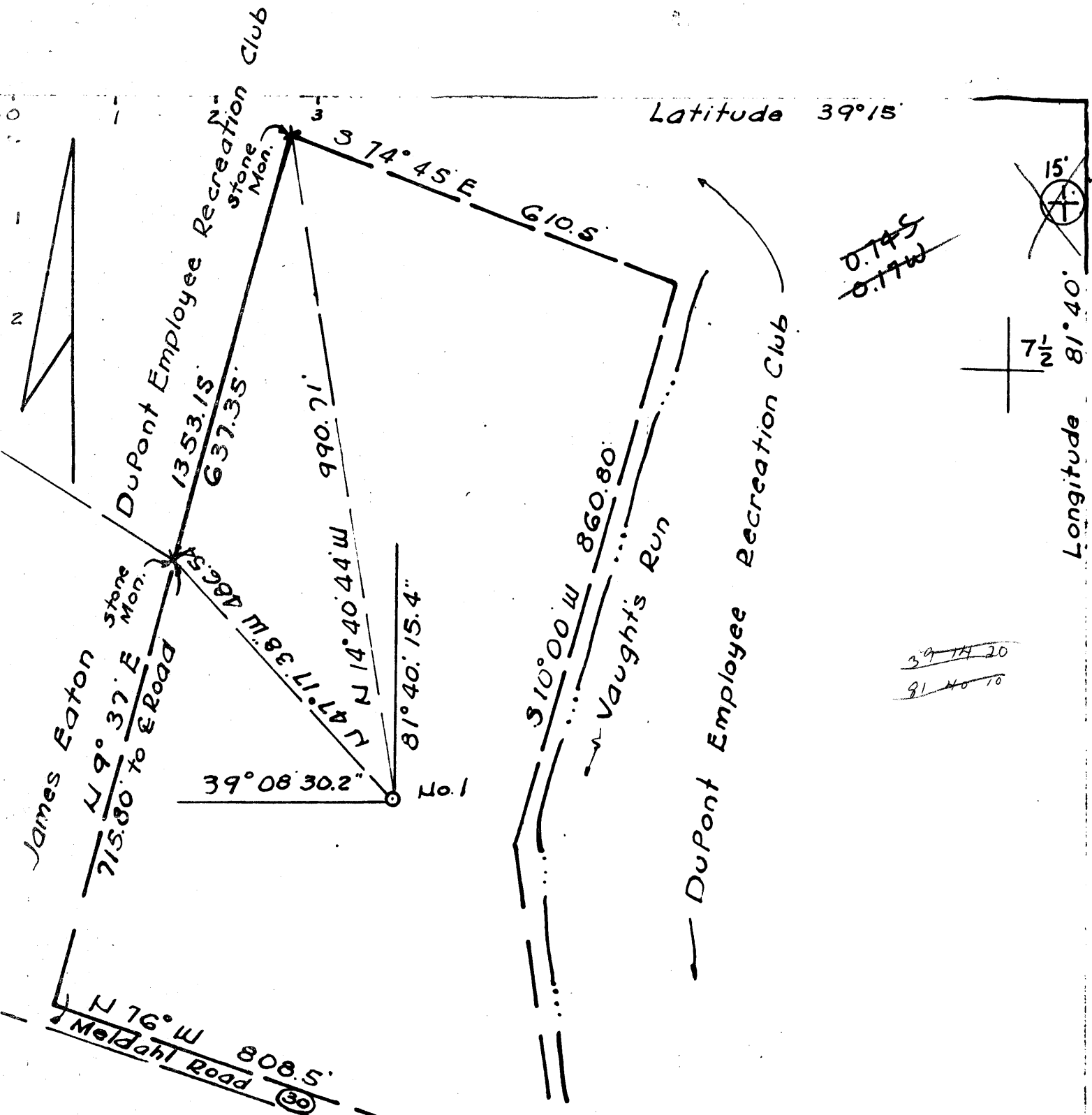
WELL LOCATION MAP  
 FILE No. W00-759-PP

+ Denotes location of well on United States Topographic Maps, Scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces in border line of original tracing.

SEP 28 1982

SURVEYOR'S or ENGINEER'S REGISTRATION No. 5681 (OHIO) Pb to produce 47-107 DEEPWELL from Barber



FRACTURE.....  
 REFRILL.....  
 NEW LOCATION...  
 DEEPER...  
 ABANDONMENT ...

Source of Elevation Intersection Medahl Road & SR31 El: 685

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.

ELEVATION (Spirit Level) 659.5  
 DATE 10-28-76 SCALE 1"=200'

MINIMUM ACCURACY, one part in 3000

COMPANY E. I. DUPONT DE NEMOURS & CO.  
 ADDRESS PARKERSBURG, W. VA.  
 FARM SAMUEL BARBER  
 TRACT J ACRES 20 LEASE No. NW  
 WELL (Name) No. 1 SERIAL No. 9-7  
 QUADRANGLE 7 1/2' LUBECK; Belleville 15'  
 COUNTY WOOD DISTRICT LUBECK  
 SURVEYOR or ENGINEER R. U. Schulteis Jr.  
 SURVEYOR'S or ENGINEER'S REGISTRATION No. 5681 (OHIO)

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

WELL LOCATION MAP  
 FILE No. W00-759

+ Denotes location of well on United States Topographic Maps, Scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

6-6 Washington Bottom (357)  
 NOV 18 1976  
 47-107 DEEP WELL



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 Lubeck  
 Permit No. WOO-#759 (47-107)

Company E.I. DuPont de Nemours Co., Inc.  
 Address Box 1217, Parkersburg, WV 26101  
 Farm Samuel D. Barber Acres 20  
 Location (waters) Vaughts Run  
 Well No. 1 (G-7) Elev. 659.5  
 District Lubeck County Wood  
 The surface of tract is owned in fee by \_\_\_\_\_  
Samuel D. Barber  
 Address Washington, W. Va.  
 Mineral rights are owned by Same  
 Address Same  
 Drilling Commenced 3/25/77  
 Drilling Completed 4/5/77  
 Initial open flow Show cu. ft. --- bbls.  
 Final production 1MM cu. ft. per day 1.5 bbls.  
 Well open 2 hrs. before test 1675 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 All New			
Cond. 13-10" 11-3/4"	150	150	Circulate to surface 100 sks.
9 5/8"			
8 5/8"	2012	2012	Circulate to surface 550 sks.
7"			
5 1/2"	4205	4205	125 feet 22 sks.
4 1/2"			
3"			
2"			
Liners Used			

Well treatment details: Attach copy of cementing record.  
Frac 4/14/77 w/500 gallons NE Acid, 1000 bbls. fresh water and 28,000# 20-40 sand.

Coal was encountered at None Feet \_\_\_\_\_ Inches \_\_\_\_\_  
 Fresh water Drilled w/mud Feet --- Salt Water Drilled w/mud Feet ---  
 Producing Sand Oriskany Depth 4216'-4227'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			0	80		Log depths measured from K.B. 12 feet above ground level.
Shale			80	116		
Sand			116	195		
Shale			195	298		
Sand			298	360		
Shale			360	736		
Sand			736	770		
Shale			770	798		
Sand			798	824		
Shale			824	918		
Sand			918	954	4110	4215
Shale			954	1206	660	660
Sand			1206	1264		
Shale			1264	1404	3450	3555
Sand (Injun)			1404	1496		
Shale			1496	1883		
Sand (Berea)			1883	1886		
Shale			1886	4110		
Lime (Onondaga)			4110	4215		
Oriskany			4215	4227		Total Depth 4227'

(over)

\* Indicates Electric Log tops in the remarks section.



RECEIVED

NOV 4 1976

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

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 11-4-76

Surface Owner Samuel D. Barber & Elsie B. Barber Company E. I. DU PONT DE NEMOURS & CO., INC  
 Address Rt. 1, Box 426, Washington, W. Va. Address P.O. Box 1217, Parkersburg, W. Va. 2610  
 Mineral Owner Same Farm Samuel D. Barber Acres 20  
 Address \_\_\_\_\_ Location (waters) Vaughts Run  
 Coal Owner None Well No. 1 (G-7) Elevation 659.5'  
 Address \_\_\_\_\_ District Lubeck County Wood  
 Coal Operator None Quadrangle Lubeck  
 Address \_\_\_\_\_

THIS PERMIT MUST BE POSTED AT THE WELL SITE

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 3-4-77.

INSPECTOR  
TO BE NOTIFIED Paul Goodnight

ADDRESS Smithville, WV.

PHONE 477-2455

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, (or as the case may be) under grant or lease dated May 5 1976 by Samuel D. Barber Elsie B. Barber made to E. I. DUPONT DENEMOURS & CO. and recorded on the 29th day of October 1976 in Wood County, Book 678 Page 37

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.

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

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

Address  
of  
Well Operator

P.O. Box 1217  
Street  
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.

W00-759 PERMIT NUMBER

47 107

"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 \_\_\_\_\_

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

PROPOSED WORK ORDER TO   X   DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME Unknown \_\_\_\_\_ NAME Ralph E. Sieber \_\_\_\_\_  
 ADDRESS \_\_\_\_\_ ADDRESS P.O. Box 1217, Parkersburg, W. Va. \_\_\_\_\_  
 TELEPHONE \_\_\_\_\_ TELEPHONE (304) 863-5311 \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: 4400' \_\_\_\_\_ ROTARY X \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany \_\_\_\_\_  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS X \_\_\_\_\_ 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	150'	150'	100 Sx
9 - 5/8			
8 - 5/8	2200'	2200'	500 Sx
7			
5 1/2	4400'	4400'	300' Fill Up
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50' FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS None \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? No \_\_\_\_\_ 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

Date March 11, 1983  
Operator's Well No. 1 (G-7)  
Farm Samuel D. Barber  
API No. 47 - 107 - 759-PP

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

RECOMPLETION FROM ORISKANY TO BEREA

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

LOCATION: Elevation: 659.5 Watershed Vaughts Run  
District: Lubeck County Wood Quadrangle Lubeck

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

ADDRESS P.O. Box 1217, Parkersburg, WV 26102

DESIGNATED AGENT Same as above

ADDRESS   

SURFACE OWNER Samuel D. Barber

ADDRESS Washington, W. Va.

MINERAL RIGHTS OWNER Same as surface

ADDRESS owner

OIL AND GAS INSPECTOR FOR THIS WORK Deo

Mace ADDRESS Sandridge, W. Va.

PERMIT ISSUED 10/28/76

DRILLING COMMENCED 3/25/77

DRILLING COMPLETED 4/5/77

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.			
13 10 <sup>3</sup> / <sub>4</sub>	150	150	Surface 100 sks.
9 5/8			
8 5/8	2012	2012	Surface 550 sks.
7			
5 1/2			
4 1/2	4205	4205	125' 22 sks
3			
2			
Liners used			
		MAR 22 1983	

GEOLOGICAL TARGET FORMATION Berea Horizon Depth 1882-88 feet

Depth of completed well 4227 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 - RECOMPLETION - 1983

Producing formation Berea Horizon Pay zone depth 1882-88 feet

Gas: Initial open flow None Mcf/d Oil: Initial open flow    Bbl/d

Final open flow 20 Mcf/d Final open flow 1/2 Bbl/d

Time of open flow between initial and final tests    hours

Static rock pressure 450 psig (surface measurement) after 24 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

Wood 759-PP

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

Set solid CI Bridge plug @ 4130'. Perforated 5 holes @ 4050'-51'.  
 Pumped 135 sks 50/50 pox mix down 5½' casing - cut casing @ 3790' -  
 casing stuck - cut casing @ 3190' - casing still stuck - cut casing @ 2123  
 and removed 5½ casing - set solid CI Bridge plug @ 1970' - perforated 8  
 3½ strips jets .50 hole diameter @ 1883-1885 - frac w/500 gal 15% HCL -  
 30M 20-40 sand and 600 barrels water.

*partial plug to  
1970'*

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
COPY OF ORIGINAL OG-10 attached.					

(Attach separate sheets as necessary)

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

Well Operator

By:

*Ralph E. Sieber*

Date:

*3/21/83*

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."



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Lubeck  
Permit No. WOO-#759 (47-107)

Rotary X Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Company E.I. DuPont de Nemours Co., Inc.  
Address Box 1217, Parkersburg, WV 26101  
Farm Samuel D. Barber Acres 20  
Location (waters) Vaughts Run  
Well No. 1 (G-7) Elev. 659.5  
District Lubeck County Wood  
The surface of tract is owned in fee by Samuel D. Barber  
Address Washington, W. Va.  
Mineral rights are owned by Same  
Address Same  
Drilling Commenced 3/25/77  
Drilling Completed 4/5/77  
Initial open flow Show cu. ft. --- bbls.  
Final production \_\_\_\_\_ cu. ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 All New			
Cond. 13-10" 11-3/4"	150	150	Circulate to surface 100 sks.
9 5/8"			
8 5/8"	2012	2012	Circulate to surface 550 sks.
7"			
5 1/2"	4205	4205	125 feet 22 sks.
4 1/2"			
3"			
2"	2121	2121	
Liners Used			

Well treatment details: Frac 4/14/77 w/500 gallons NE Acid, 1000 bbls. fresh water and 28,000# 20-40 sand.

Coal was encountered at None Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water Drilled w/mud Feet --- Salt Water Drilled w/mud Feet ---  
Producing Sand Oriskany Depth 4216'-4227'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			0	80		Log depths measured from K.B. 12 feet above ground level.
Shale			80	116		
Sand			116	195		
Shale			195	298		
Sand			298	360		
Shale			360	736		
Sand			736	770		
Shale			770	798		
Sand			798	824		
Shale			824	918		
Sand			918	954		
Shale			954	1206		
Sand			1206	1264		
Shale			1264	1404		
Sand (Injun)			1404	1496		
Shale			1496	1883		
Sand (Berea)			1883	1886		
Shale			1886	4110		
Lime (Onondaga)			4110	4215		
Oriskany			4215	4227		
					Total Depth 4227'	

RECEIVED  
MAR 23 1983  
OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

(over)

\* Indicates Electric Log tops in the remarks section.

MAR 28 1983