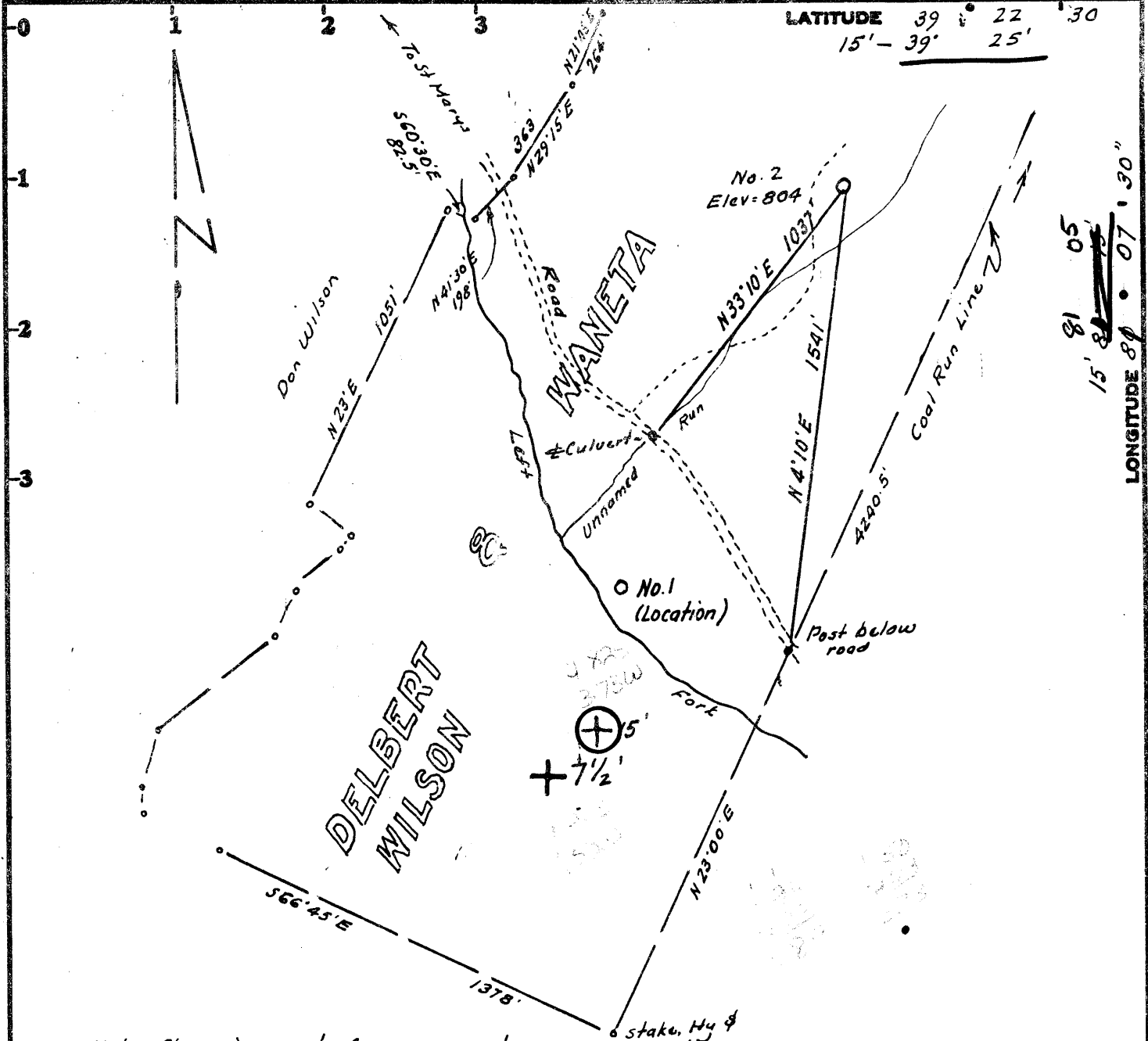


10/10/78



LATITUDE 39° 22' 30"  
15' - 39° 25'

LONGITUDE 81° 05' 30"  
15' 81° 07' 30"

Note: - Shown is a part of a 125 ac. part of a 160 ac Lease. No Coal in this area. Fee ownership is vested in Delbert & Waneta Wilson whose P.O. Address is Route 2, St Marys West Va.

Minimum Error of Closure 1 in 200

Source of Elevation Elev Well No. 1, Don Wilson tract = 1056

- Fracture.....
- New Location.....
- 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.

Signed: W. S. Stetson

Map No. \_\_\_\_\_ Squares: N S E W

Company Brown & Pethtel Oil & Gas Co.  
 Address P.O. Box 21, St. Marys, W. Va  
 Farm Delbert & Waneta Wilson  
 Tract \_\_\_\_\_ Acres 160 Lease No. \_\_\_\_\_  
 Well (Farm) No. Two Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 804 EC  
 Quadrangle Schultz 7 1/2' St. Marys 15'  
 County Pleasants District McKim  
 Engineer W. S. Stetson  
 Engineer's Registration No. 1227 LLS 200  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Oct 5, 1978 Scale 1" = 500'

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

WELL LOCATION MAP  
FILE NO. PLEAS-727

+ Denotes location of well on United States Topographic Maps, scale 1 to <sup>62,500</sup>/<sub>24,000</sub>, latitude and longitude lines being represented by border lines as shown. OCT 30 1978

- Denotes one inch spaces on border line of original tracing. 47-073

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Date August 6, 1987  
Operator's Well No. D & W Wilson #2  
Farm Delbert & Waneta Wilson  
API No. 47 - 073 - 727

**State of West Virginia**  
DEPARTMENT OF ENERGY  
Oil and Gas Division

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 755 Watershed Left Fork of French Creek  
District: McKim County Pleasants Quadrangle Schultz

COMPANY Brown & Pethel Oil & Gas Co.  
ADDRESS Rt. #3, New Matamoras, OH  
DESIGNATED AGENT Zedack Pethel  
ADDRESS P.O. Box 21, St. Marys, WV 26170  
SURFACE OWNER Delbert & Waneta Wilson  
ADDRESS Rt. #2, St. Marys, WV 26170  
MINERAL RIGHTS OWNER Same  
ADDRESS       
OIL AND GAS INSPECTOR FOR THIS WORK       
ADDRESS       
PERMIT ISSUED       
DRILLING COMMENCED 3/27/79  
DRILLING COMPLETED 3/30/79  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED CN

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"			
9 5/8			
8 5/8	300'		100 sack std. 3 1/2 CaCl 1/2 Flo check
7			
5 1/2			
4 1/2	2675'		150 sks. std. 150 poz.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon (Upper Dev. Shale) Depth 2504-2518 feet  
Depth of completed well 2684 feet Rotary XX / Cable Tools       
Water strata depth: Fresh 25 feet; Salt 0 feet  
Coal seam depths: 0 Is coal being mined in the area? 0

OPEN FLOW DATA

Producing formation Gordon (Upper Dev. Shale) Pay zone depth 2510-2516 feet  
Gas: Initial open flow 50 Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow (10) Mcf/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 240 hours  
Static rock pressure 340 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

(Continue on reverse side)

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

Perforated by Basin Surveys - April 7, 1979 - 13 holes - .50 holes - from 2510 - 2516'

Frac by Halliburton Services - 107,000 scf N<sub>2</sub> - 100 sacks 80/100 - 500 sacks 20/40

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
clay	yellow	s	0	20	water 25 - 27
sandstone	brown	s	20	27	
shale	gray	s	27	45	
shale	red	s	45	65	
shale	gray	s	65	104	
sandstone	brown	h	104	124	
shale	gray	s	124	206	
sandstone	brown	h	206	226	
shale	gray	s	226	330	
sandstone	brown	h	330	354	
shale	gray	s	354	488	
sandstone	brown	h	488	506	
shale	red	s	506	806	
sandstone	gray	h-s	806	935	
shale	gray	s	935	1080	
sandstone	wh-gr	h-s	1080	1304	
shale	gray	s	1304	1450	
sandstone	gray	h	1450	1504	
lime	brown	h	1504	1574	
shale	gray	h-s	1574	1610	
sandstone	gray	h	1610	1774	
shale	gray	s	1774	1912	
sand & shale	gr-br	h-s	1912	1982	
shale	gray	s	1982	2086	
sandstone	gray	h	2086	2096	
shale	brown	s	2096	2118	
sandstone	gray	h	2118	2126	
sand & shale	gr-br	h-s	2126	2504	
sandstone	brown	h	2504	2518	
shale	gray	s	2518	2684	

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DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY  
T.D.

(Attach separate sheets as necessary)

Brown & Pethtel Oil & Gas Company

Well Operator

By: Zedek Pethtel

Date: \_\_\_\_\_

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."

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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 Oct, 10, 1978

Surface Owner Delbert and Wanda Wilson Company Brown And Pothel Oil and Gas Co.  
Address Route 2, Box 122 St. Marys, W. Va. Address Box 21, St. Marys, W. Va.

Mineral Owner Delbert and Wanda Wilson Farm Delbert and Wanda Wilsons 160  
Address Route 2, Box 122 St. Marys, W. Va. Location (waters) French Creek

Coal Owner \_\_\_\_\_ Well No. 2 Elevation 804  
Address \_\_\_\_\_ District McKin County Pleasants

Coal Operator \_\_\_\_\_ Quadrangle Schultz  
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 2-10-79.

INSPECTOR  
TO BE NOTIFIED Phillip Tracy  
ADDRESS Box 173, Middlebourne, WV  
PHONE 758-4573

[Signature]  
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 December 30 19 77 by Delbert Wilson made to Zedack Pothel and recorded on the 4th day of Jan. 1978 in Pleasants County, Book 149 Page 41

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, WEST VIRGINIA 26505  
AC-304 - 292-6331

Address  
of  
Well Operator

Very truly yours,  
[Signature]  
(Sign Name) Zedack Pothel  
Well Operator  
Box 21  
Street  
St. Marys  
City or Town  
W. Va.  
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.

BOND DRILL

"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 \_\_\_\_\_

PLEAS-727 \_\_\_\_\_ PERMIT NUMBER  
47 073

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

PROPOSED WORK ORDER TO \_\_\_\_\_ DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME \_\_\_\_\_ NAME **Zadeck Pachtel** \_\_\_\_\_  
 ADDRESS \_\_\_\_\_ ADDRESS **111 Lafayette St. St. Marys, W. Va.** \_\_\_\_\_  
 TELEPHONE \_\_\_\_\_ TELEPHONE **1-304-684-7010** \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: \_\_\_\_\_ ROTARY \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: \_\_\_\_\_  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ 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			
9 - 5/8			
8 - 5/8			
7			
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? \_\_\_\_\_ 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