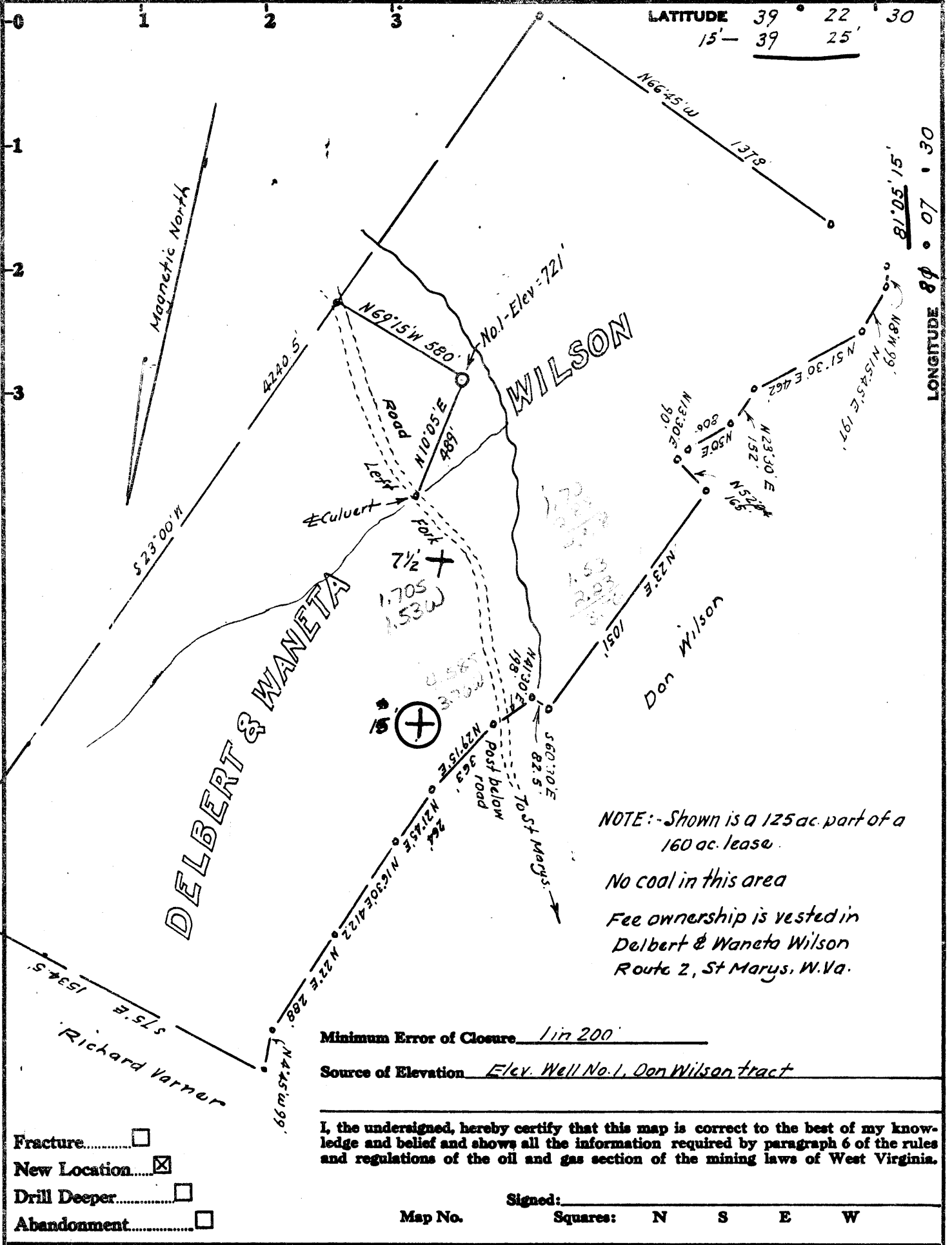


10/10/78 *TE*



NOTE:- Shown is a 125 ac. part of a 160 ac. lease.
 No coal in this area
 Fee ownership is vested in Delbert & Waneta Wilson
 Route 2, St Marys, W.Va.

Minimum Error of Closure 1 in 200'
 Source of Elevation Elev. Well No. 1, Don Wilson tract

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.

- Fracture
- New Location
- Drill Deeper
- Abandonment

Signed: _____
 Squares: N S E W

Company	<u>Brown & Pethtel Oil & Gas Co.</u>
Address	<u>P.O. Box 21, St Marys, West Va.</u>
Farm	<u>Delbert and Waneta Wilson</u>
Tract	Acres <u>160</u> Lease No. _____
Well (Farm) No.	<u>One</u> Serial No. _____
Elevation (Spirit Level)	<u>721</u>
Quadrangle	<u>Schultz 7 1/2 St. Marys 15 C</u>
County	<u>Pleasants</u> District <u>McKim</u>
Engineer	<u>[Signature]</u>
Engineer's Registration No.	<u>1227 445 200</u>
File No.	Drawing No. _____
Date	<u>Oct 5, 1978</u> Scale <u>1" = 500'</u>

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

WELL LOCATION MAP
 FILE NO. PLEAS - 726

+ Denotes location of well on United States Topographic Maps, scale 1 to ^{62,500}/_{24,000} latitude and longitude lines being represented by border lines as shown.

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

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 47-073

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State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date August 6, 1987
Operator's
Well No. D. & W. Wilson #1
Farm Delbert Wilson
API No. 47 - 073 - 726

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 XY / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production XX / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 721 Watershed Left Fork of French Creek
District: McKim County Pleasants Quadrangle Schultz

COMPANY Brown & Pethtel Oil & Gas Co.

ADDRESS Rt. #3, New Matamoras, OH

DESIGNATED AGENT Zedack Pethtel

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 3/22/79

DRILLING COMPLETED 3/25/79

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.	
Size				
20-16 Cond.				
13-10"				
9 5/8				
8 5/8	262'		100 sack	std. KCL
7			3 sack	
5 1/2				
4 1/2	2700'		150 sack	std.
3			150 poz	
			5 sack	all
2			10% salt	
			1000 gal	15% HCL
Liners used				

GEOLOGICAL TARGET FORMATION Gordon Depth 2474-2480 feet

Depth of completed well 2714 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 2474-2480 feet

Gas: Initial open flow 150 Mcf/d Oil: Initial open flow 30 Bbl/d

Final open flow 75 Mcf/d Final open flow 1 Bbl/d

Time of open flow between initial and final tests 240 hours

Static rock pressure 600 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 , 1979 - 13 holes - .50 holes from 2478 - 2484'

Frac by Halliburton Services - 138,000 scf N₂ - 50 gal. Clay stay, 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	321	
sandstone	brown	h	321	390	
shale	gray	s	390	462	
shale	red	s	462	758	
sandstone	brown	h	758	796	
shale	gray	s	796	862	
sandstone	brown	h	862	896	
shale	gray	s	896	1056	
sandstone	white	h	1056	1170	
shale	gray	s	1170	1192	
sandstone	white	h	1192	1266	
shale	gray	s	1266	1364	
sandstone	bl-gray	h	1364	1456	
lime	brown	h	1456	1536	
shale	gray	s	1536	1568	
sandstone	gray	h	1568	1735	
shale	gray	s	1735	1800	
sand & shale	gray	h & s	1800	2189	
sandstone	brown	h	2189	2204	
sand & shale	gray	h & s	2204	2474	
sandstone	brown	h	2474	2486	
shale	gray	s	2486	2714	

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

T. D.

(Attach separate sheets as necessary)

Brown & Pethtel Oil & Gas Co.

Well Operator

By: Jedock 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."

3652



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

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OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE Oct. 10, 1978
Surface Owner Dalbert and Waneta Wilson Route 2, Box 122, St. Marys, W. Va.
Company Crown and Petchel Oil and Gas Co.
Address Box 21, St. Marys, W. Va
Mineral Owner Dalbert and Waneta Wilson Route 2, Box 122, St. Marys, W. Va.
Farm Dalbert and Waneta Wilson 160 Acres
Address
Location (waters) French Creek
Well No. _____ Elevation 721
District McKin County Pleasants
Coal Operator _____
Address _____
Quadrangle Schultz

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.

[Signature]
Deputy Director - Oil & Gas Division

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

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 1977 by Zedick Petchel 10th by Jan. 78 Pleasants made to 149 and recorded on the _____ day of _____ 19____ in _____ County, Book _____ Page _____

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

Very truly yours,
(Sign Name) Zedick Petchel
Well Operator
Box 21
Address of Well Operator St. Marys Street
W. Va. City or Town
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.

BY AND DRILL

PLEAS-726 PERMIT NUMBER
47 073

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 _____ DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____

DRILLING CONTRACTOR: (If Known)

RESPONSIBLE AGENT:

NAME _____

NAME Zedash Pothtal

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