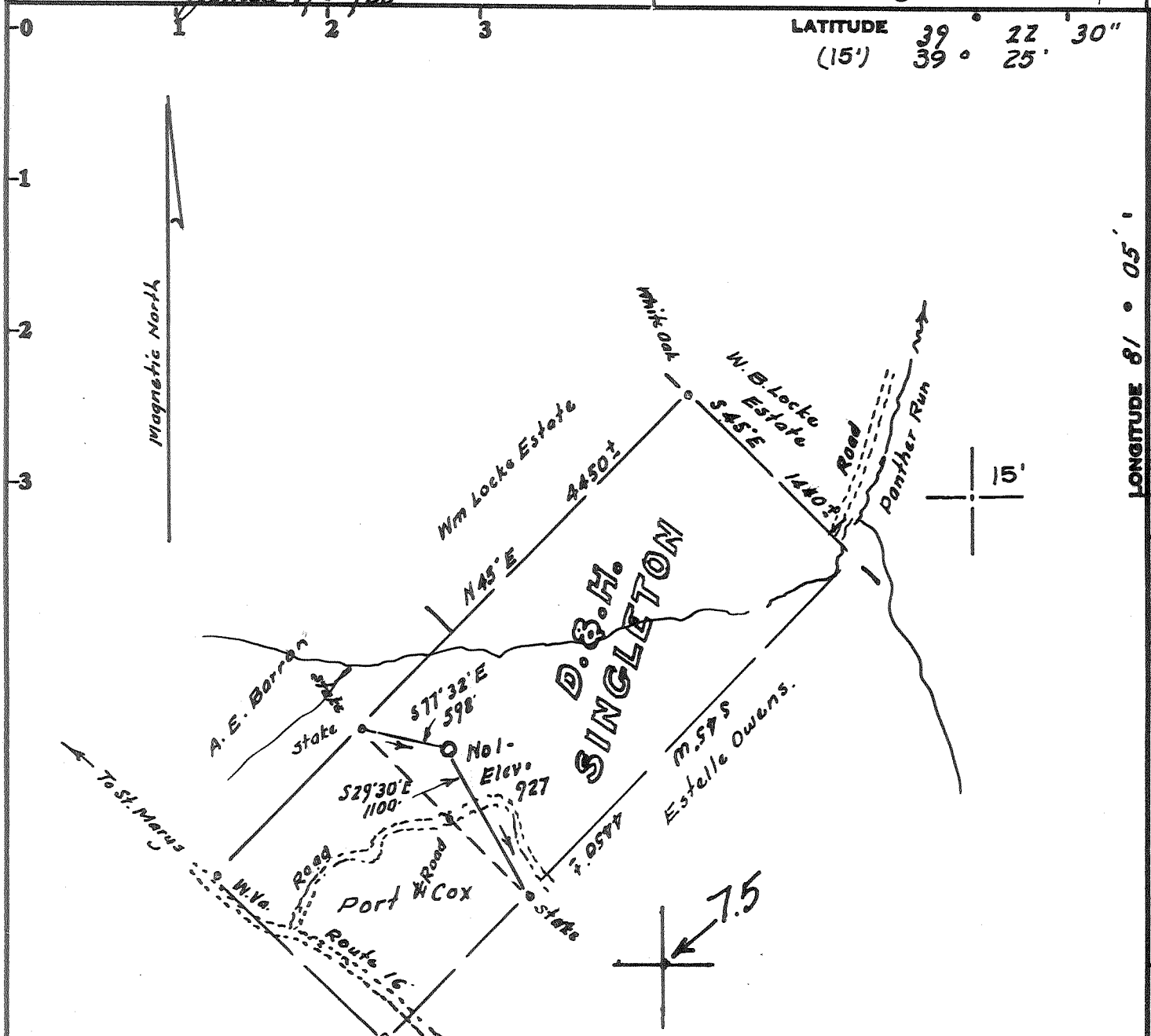


Jan 9/30/88

6480

LATITUDE 39° 22' 30"
(15') 39° 25'



LEGEND

- Lines plotted from Deeds
- Surveyed Lines
- Roads
- Well Location

OWNERSHIP

- No Coal -
- Surface - West Va. Pulp & Paper
- Minerals - D & H Singleton
- St. Marys, W. Va.

Minimum Error of Closure 1 in 200

Source of Elevation USGS B.M on Route 16 near SW corner

of tract = 1093

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment..... - 10/3/88

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: _____
Squares: N S E W

Company PETHTEL OIL & GAS CO.
 Address PO BOX 21 St. Marys, W.V. 26170
 Farm D. & H. Singleton
 Tract _____ Acres 144 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 927
 Quadrangle Ellenboro 7 1/2, St. Marys 15'
 County Pleasants District Mckim
 Engineer M. S. Estelle
 Engineer's Registration No. 1227 LLS 200
 File No. _____ Drawing No. _____
 Date February 7, 1979 Scale 1" = 1000'

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

WELL LOCATION MAP

FILE NO. 47-073-0732

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

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

MAY 10 1981

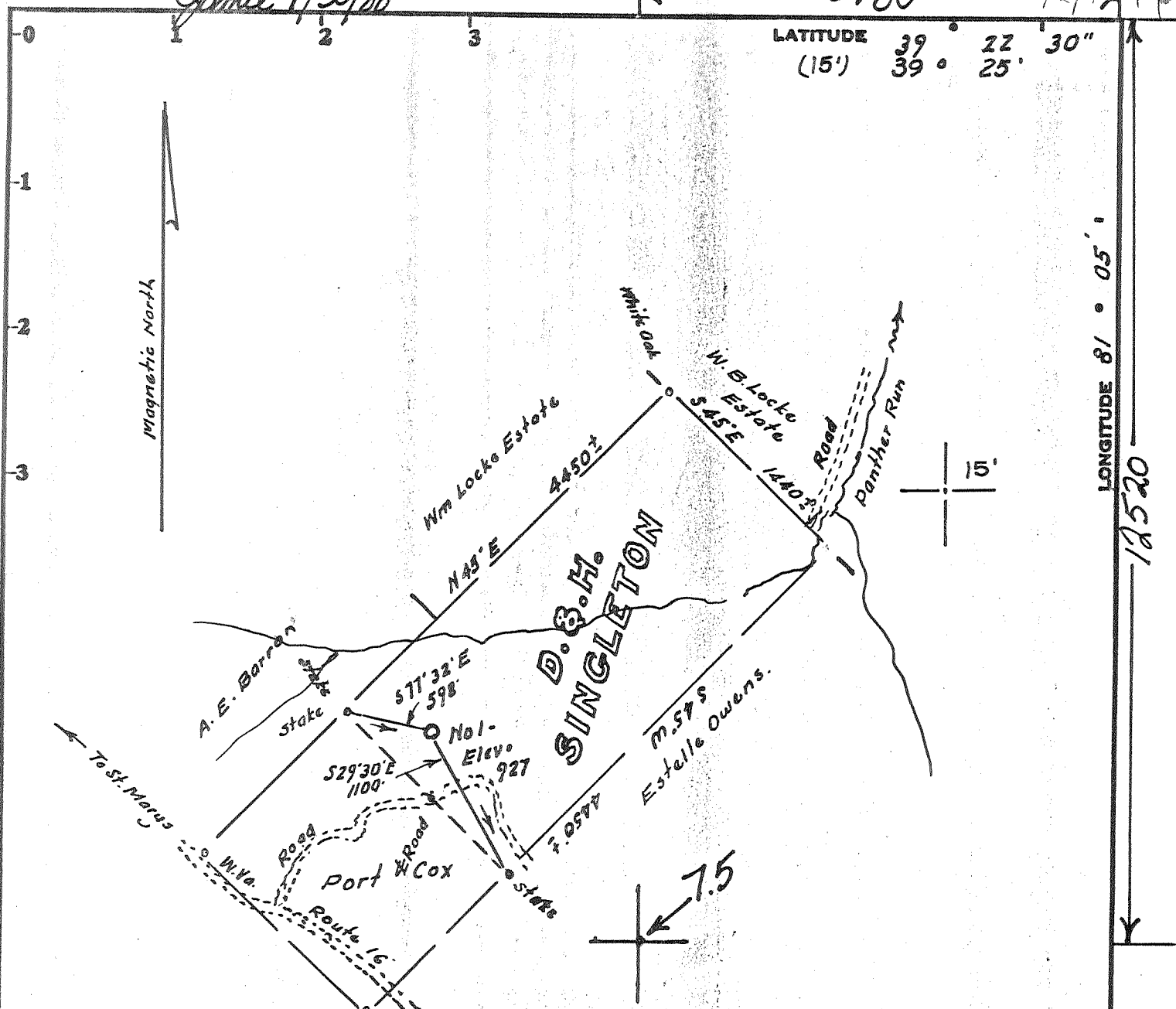
3000' Gordon

PLEAS. 0732-P

Janie 9/30/88

6480

12/7



LATITUDE 39° 22' 30" (15') 39° 25'

LONGITUDE 81° 05' 12520

LEGEND

- Lines plotted from Deeds
- Surveyed Lines
- Roads
- Well Location

OWNERSHIP

- No Coal -
- Surface - West Va. Pulp & Paper
- Minerals - D & H Singleton
- St. Marys, W. Va.

Minimum Error of Closure 1 in 200

Source of Elevation USGS B.M on Route 16 near SW corner of tract = 1093

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..... - 10/3/88

Signed: _____
Squares: N S E W

Company PETHTEL OIL & GAS CO.
 Address PO BOX 21 St. Marys, W.V. 26170
 Farm D. & H. Singleton
 Tract _____ Acres 144 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 927
 Quadrangle Ellenboro 7 1/2, St. Marys 15'
 County Pleasants District Mckim
 Engineer W. S. H. J.
 Engineer's Registration No. 1227 LLS 200
 File No. _____ Drawing No. _____
 Date February 7, 1979 Scale 1" = 1000'

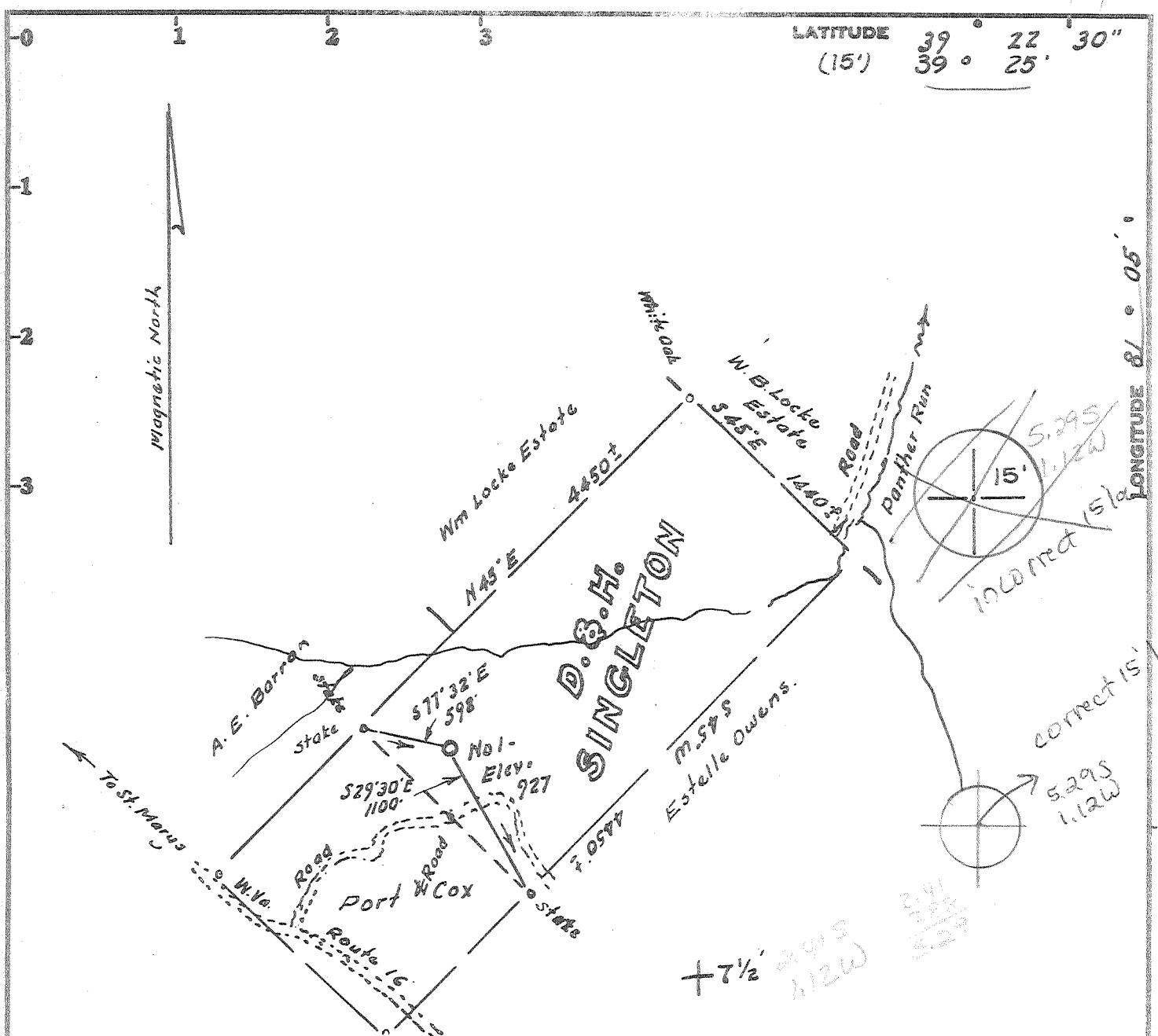
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP

FILE NO. 47-073-0732-P

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

3000' Gordon



LEGEND

- Lines plotted from Deeds
- Surveyed Lines
- Roads
- Well Location

OWNERSHIP

No Coal -
 Surface - West Va. Pulp & Paper
 Minerals - D & H Singleton
 St. Marys, W. Va.

Minimum Error of Closure 1 in 200

Source of Elevation USGS B.M on Route 16 near SW corner
of tract = 1093

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

Map No. _____

Company PETHEL OIL & GAS CO.
 Address 9/6 Frank Pethtel, Rt 3, New Matamoras Ohio 45767
 Farm D. & H. Singleton
 Tract _____ Acres 144 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 927
 Quadrangle Ellenboro 7 1/2, St. Marys 15'
 County Pleasants District McKim
 Engineer M. S. Owens
 Engineer's Registration No. 1227 LLS 200
 File No. _____ Drawing No. _____
 Date February 7, 1979 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. 47-073-0732

+ Denotes location of well on United States Topographic Maps, scale 1 to 25,000, latitude and longitude lines being represented by border lines as shown.
 — Denotes one inch spaces on border line of original tracing.

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
 10 - .41 perfs at 2918 - 2926 600 bbl. "slick" water frac
 30,000# 20/40 sand, 12 gal. clay stay, 50 gal. Parasperce, 15 gal.
 Parachek (Halliburton)

Supper Dec. 1984

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
slate	red	soft	0	10	
slate	yellow	soft	10	25	
slate	gray	soft	25	64	
slate	red	soft	64	100	
shale	gray	hard	100	105	
shale	red	soft	105	115	
shale	gray	soft	115	126	
shale	red	soft	126	131	
shale	gray	soft	131	174	
shale	red	soft	174	212	
shale	gray	soft	212	254	
sand	white	hard	254	329	300' fresh water-7-10 bailers per hour
shale	gray	soft	329	355	
shale	red	soft	355	370	
shale	gray	soft	370	532	
shale	red	soft	532	542	
shale	gray	soft	542	615	
shale	red	soft	615	643	
shale	gray	soft	643	655	
sand	gray	hard	655	675	
shale	gray	soft	675	825	
shale	pink	soft	825	847	
sand	gray	hard	847	944	
shale	red	soft	944	954	
shale	gray	soft	954	1023	
shale	red	soft	1023	1102	
shale	gray	soft	1102	1143	
sand	gray	soft	1143	1150	
shale	gray	hard	1150	1454	
sand	gray	soft	1454	1480	
shale	gray	hard	1480	1604	
sand	gray	hard	1604	1641	
shale	gray	soft	1641	1730	
sand	white	hard	1730	1752	Gas 1737 - 1743
shale	gray	soft	1752	1810	
sand	gray	hard	1810	1855	Gas 1836 - 1848
shale	gray	soft	1855	1882	
lime	brown	hard	1882	1921	
sand	gray	hard	1921	1970	Show Oil 1957 - 1970
shale	gray	soft	1970	2004	

(Attach separate sheets as necessary)

Pethtel Oil & Gas Co.

Well Operator

By: *Zedack Pethtel*

Date: October 17, 1984

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."

D. & H. Shingleton #1
47-073-0732

sand	gray	hard	2004	2087	
shale	gray	soft	2087	2468	
sand	gray	hard	2468	2522	Gas & Oil 2468-2476
shale	gray	soft	2522	2689	
sand	gray	hard	2689	2711	
shale	gray	hard	2711	2800	
sand	gray	hard	2800	2825	
shale	gray	soft	2825	2935	
sand	gray	hard	2935	2942	
shale	gray	hard	2942	<u>3070</u>	T.D. Driller

Up. Dev. undiff @ TD



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

MAR 2 1979

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 February 28, 1979

Surface Owner West Va. Pulp & Paper

Company Pethtel Oil & Gas Co.

Address _____

Address Rt. 3, New Matamoras, Ohio 45768

Mineral Owner Delbert & Harry Shingleton

Farm D. & H. Shingleton Acres 144

Address Rt. #1, St. Marys W.Va. 26170

Location (waters) Panther Run

Coal Owner N/A

Well No. 1 (one) Elevation 927

Address N/A

District McKim County Pleasants

Coal Operator _____

Quadrangle Ellenboro 7 1/2

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 11-5-79.

INSPECTOR TO BE NOTIFIED Phillip Tracy

ADDRESS Middleburne, West Virginia

PHONE 1-304-758-4573

Frank E. Pethtel
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 January 19 19 79 by Delbert C. & Harry Shingleton made to Frank E. Pethtel and recorded on the 22 day of January 19 79 in Pleasants County, Book 151 Page 182

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, Frank E. Pethtel
Pethtel Oil & Gas Co.

(Sign Name) _____
Well Operator
Frank E. Pethtel
Route 3 Street _____
New Matamoras
City or Town _____
Ohio 45767
State _____

BLANKET BOND

*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.

BLANKET BOND

47-073-0732 PERMIT NUMBER

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

PROPOSED WORK ORDER TO XXX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Pethtel Drilling NAME Burl W. Smith
 ADDRESS Routel, Newport Ohio 45768 ADDRESS Rt. 39, St. Marys, W.Va.
 TELEPHONE 614-473-2839 TELEPHONE 304-684-7259
 ESTIMATED DEPTH OF COMPLETED WELL: 3000' ROTARY _____ CABLE TOOLS XXX
 PROPOSED GEOLOGICAL FORMATION: Gordon
 TYPE OF WELL: OIL _____ GAS _____ COMB. XX STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT LIFT UP OR SACKS (CUBIC FT.)
20 - 16			
XXX 10	250'	250'	82 sacks
9 - 5/8			
8 - 5/8	1000'		
7	1600'		
5 1/2			
4 1/2	3000'	3000'	120 sacks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS No
 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

1929 137413