

89° 25'

LATITUDE 39° 22' 30"  
2,375' SOUTH  
1650 WEST

D. UNDERWOOD  
T.M. 15/31  
24 AC.

PRODUCING WELL  
(PERKINS)  
810' TO WELL LOCATION

N 56° W  
619'

T.M. 15-30  
8 AC. EXCEPT.

OLD ROAD

I. WILSON  
T.M. 15/29  
72.5 AC.

WELL 3  
LOCATION  
15'

E. UNDERWOOD  
T.M. 15/25  
72.5 AC.

S 81° W  
1815'

C. HADLEY  
T.M. 15/12  
191 AC.

EMERY UNDERWOOD  
T.M. 15/25  
56.25 AC.

N 46° E  
2904'

S 18° E  
1089'

O.W. GRIFFIN  
T.M. 4/21  
91 AC. (RIT. CO.)

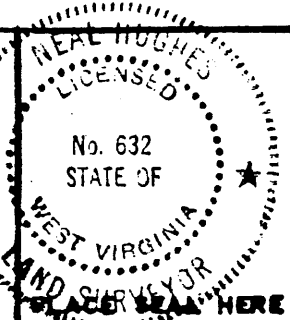
O.W. GRIFFIN  
T.M. 15/24  
104.8 AC.

N 85° 12' E  
908'

O.W. GRIFFIN  
T.M. 15/24  
6.8 AC.

FILE NO. L+M  
DRAWING NO. 1  
SCALE 1" = 500'  
MINIMUM DEGREE OF  
ACCURACY 1/300  
PROVEN SOURCE OF  
ELEVATION BM 951

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) Neal Hughes  
R.P.E. \_\_\_\_\_ L.L.S. 632



(+) DENOTES LOCATION OF  
WELL ON UNITED STATES  
TOPOGRAPHIC MAPS  
FORM IV-6  
(8-78)



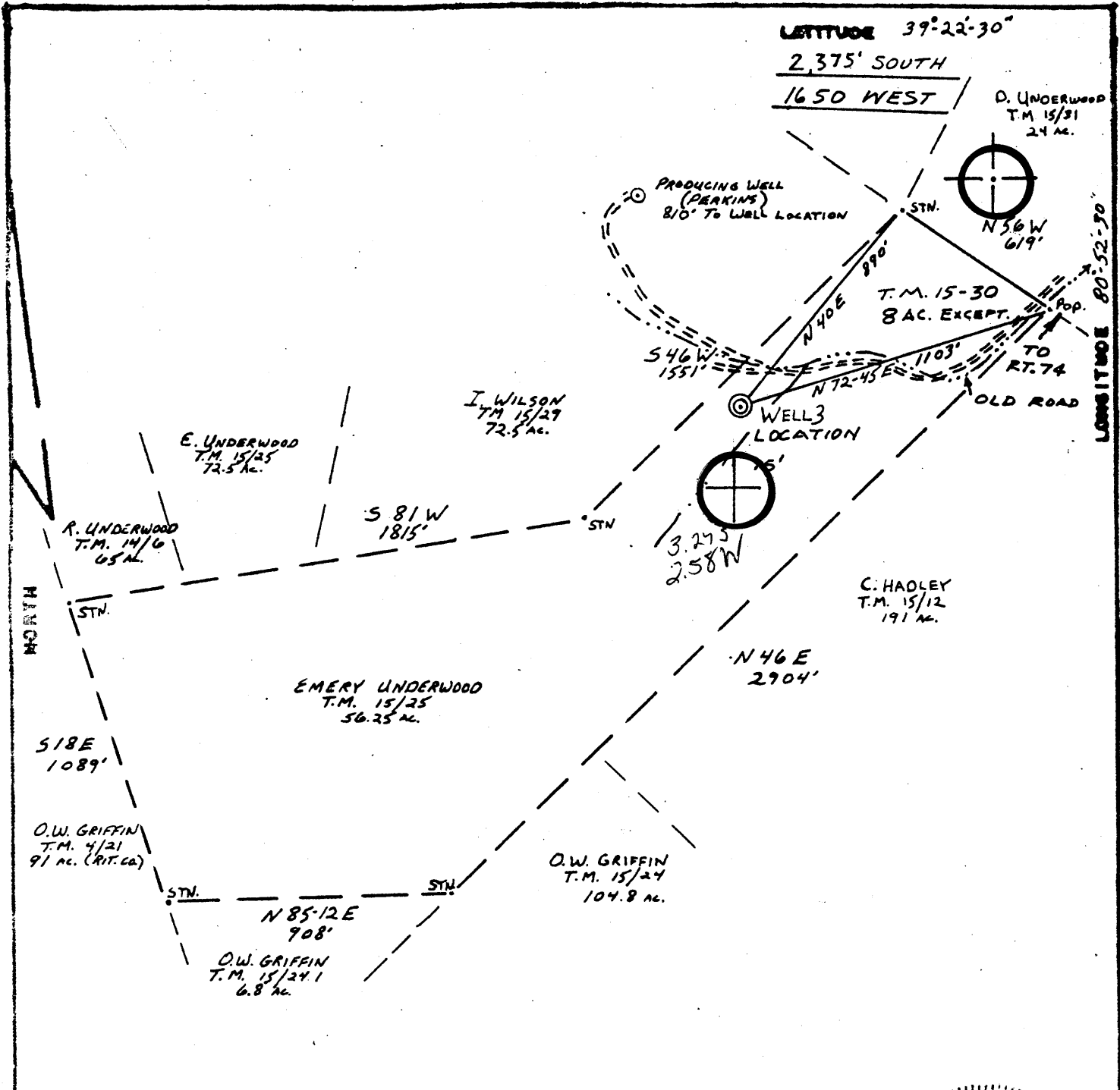
DATE NOV 19, 19 80  
OPERATOR'S WELL NO. 3  
API WELL NO. 47-095-0885  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

CANCELLED

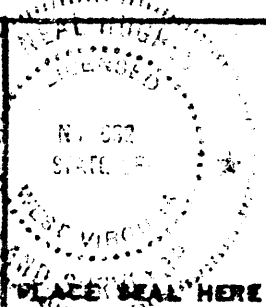
WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
(IF "GAS", PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
LOCATION: ELEVATION 821' WATER SHED BIG RUN  
DISTRICT CENTERVILLE COUNTY TYLER  
QUADRANGLE PENNSBORO 7 1/4 W 11 151  
SURFACE OWNER EMERY UNDERWOOD ACREAGE 56.25  
OIL & GAS ROYALTY OWNER O.W. GRIFFIN LEASE ACREAGE 56 1/4  
LEASE NO. 42829  
PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR  
STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW  
FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
TARGET FORMATION Devonian Shale ESTIMATED DEPTH 4500' 1983  
WELL OPERATOR W.M. Petroleum Co DESIGNATED AGENT James Cogan  
ADDRESS 1421 Box 18-B ADDRESS U.S. Newwood  
Marion, Ohio 45750 Williamstown, WV 26187



FILE NO. L+M  
 DRAWING NO. 1  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/300  
 PROVEN SOURCE OF ELEVATION BM 951

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) Neal Hughes  
 R.P.E. \_\_\_\_\_ L.L.S. 632



(+) DEMOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78)



DATE NOV 19, 19 80  
 OPERATOR'S WELL NO. 3  
 API WELL NO. 47-095-0885  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 ( IF "GAS", PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 821' WATER SHED BIG RUN  
 DISTRICT CENTERVILLE COUNTY TYLER  
 QUADRANGLE PENNSBORD 7 1/2' Westdilton 15'  
 SURFACE OWNER EMERY UNDERWOOD ACREAGE 56.25  
 OIL & GAS ROYALTY OWNER O.W. GRIFFIN LEASE ACREAGE 56 1/4  
 LEASE NO. 42829  
 PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUS OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUS \_\_\_\_\_  
 TARGET FORMATION Devonian Shale ESTIMATED DEPTH 4500'  
 WELL OPERATOR P.M. Petroleum Co DESIGNATED AGENT James Cogan  
 ADDRESS 1121 S. 18th St ADDRESS 113 Shulwood  
Marietta, Ohio 45750 Williamstown, WV 26187



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
DEC - 1 1980

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE 11/24/80

Surface Owner Emery Underwood  
Address Tyler Co., WV  
Mineral Owner O.W. Griffin #42829  
Address 2604 26th Ave, Parkersburg, WV 26101  
Coal Owner Same as above  
Address \_\_\_\_\_  
Coal Operator None  
Address \_\_\_\_\_

Company L&M Petroleum Co.  
Address Rt. 1, Marietta, OH 45750  
Farm O.W. Griffin Acres 56.25  
Location (waters) Big Run  
Well No. 3 Elevation 821'  
District Centerville County Tyler  
Quadrangle Pennsboro

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 8-9-81,

INSPECTOR  
TO BE NOTIFIED Phil Tracy  
ADDRESS Middlebourne, WV  
PHONE 758-4573

J.E. Huggins  
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 12/8 19 72 by O.W. Griffin made to R.W. Keener and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19  , in Tyler County, Book 197 Page 299  
 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, L&M Petroleum Co.  
(Sign Name) Jeanne Cogan  
Well Operator  
Rt. #1, Box 18-B  
Street  
Marietta  
City or Town  
Ohio 45750  
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.

BLANKET BOND

"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 \_\_\_\_\_

47-095-0885 PERMIT NUMBER

**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 Joanne Cogan  
 ADDRESS \_\_\_\_\_ ADDRESS 113 Sherwood, Willaimstown  
 TELEPHONE \_\_\_\_\_ TELEPHONE 304-375-2252 WV  
 ESTIMATED DEPTH OF COMPLETED WELL: 4500' ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Devonain Shale  
 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	250	250	125 <del>sx</del> to surface
7			
5 1/2			
4 1/2	TD	TD	400 <del>sx</del> or as reqd
3			Perf. Top: <i>by rule 15.01</i>
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? 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