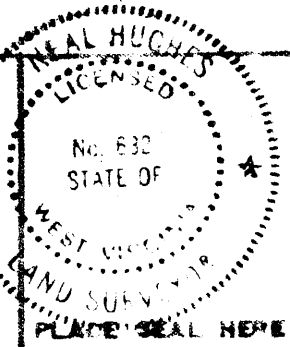


FILE NO. L-21  
 DRAWING NO. 1  
 SCALE 1"=1000'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION BM 781

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 August 13, 1980  
 OPERATOR'S WELL NO. 1  
 API WELL NO. 47-095-0846  
 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 818 WATER SHED BIG RUN  
 DISTRICT McELROY COUNTY TYLER  
 QUADRANGLE SHIRLEY T7 WEST UNION 15' NE  
 SURFACE OWNER EARL WARNER, ET. UX. + CLYDE WARNER, ST. ACREAGE 26014  
 OIL & GAS ROYALTY OWNER EARL WARNER, ST. UX. + CLYDE WARNER, ST. UX. LEASE ACREAGE 26014  
 LEASE NO. \_\_\_\_\_  
 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'  
 WELL OPERATOR L.M. Petrusak DESIGNATED AGENT John H. Nelson  
 ADDRESS 741, Marith, Ohio ADDRESS Yakusky, W.V.  
614-578-8771 304-422-7208



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 Shirley  
 Permit No. 47-095-0846 W

Company L&M Petroleum Co.  
 Address P.O. Box 89, Reno, OH 45773  
 Farm Earl & Clyde Warner Acres 260  
 Location (waters) Big Run  
 Well No. 1 Elev. 818  
 District McElroy County Tyler  
 The surface of tract is owned in fee by \_\_\_\_\_  
 same as above  
 Address Box 29, Alma, WV  
 Mineral rights are owned by same as above  
 Address \_\_\_\_\_  
 Drilling Commenced 9/15/80  
 Drilling Completed 9/20/80  
 Initial open flow 150 cu. ft. \_\_\_\_\_ bbls.  
 Final production 80 M cu. ft. per day \_\_\_\_\_ bbls.  
 Well open 6 hrs. before test \_\_\_\_\_ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8	248		
7			
5 1/2			
4 1/2	3360.7	3360.7	150 sx
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Well was re-frac'ed on 8/19/81 using 967.5 MSCF Nitrogen; BD: 2800; ATP: 2800  
 RATE: 45MSCF/min; ISI:2200; 5 min: 2100  
 Bridgeplug set at 2630; Perf w/ 30 shots from 2546-2570 use these

Bridge Plug set @ 2630'

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
 Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
 Producing Sand Gordon Sandstone Depth 2552-2576

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Maxon Sand			1681	1694		
Big Lime			1711	1774		
B. Injun Sand			1850	1978		
Weir Sand			2132	2194		
Berea Sand			2324	2328		
Gordon Sand			2552	2576		
<p>NOTE: No logs or samples were taken above these depths.</p> <p style="text-align: right;">146 logs</p>						

**RECEIVED**

AUG 31 1981

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks

Date August 28, 19 81

APPROVED L&M Petroleum, Co. Owner

By *Jean Ketting* Asst.-Secy.  
(Title)



RECEIVED

FEB 19 1981

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
Oil and Gas Division  
WELL RECORD

OIL & GAS DIVISION

DEPT. OF MINES

Quadrangle Shirley  
Permit No. 47-095-0846

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

Company <u>L&amp;M Petroleum Co.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>Rt. #1, Box 18-B, Marietta, OH</u>				
Farm <u>Earl &amp; Clyde Warner</u> Acres <u>260</u>				
Location (waters) <u>Big Run</u>				
Well No. <u>1</u> Elev. <u>818</u>				
District <u>McElroy</u> County <u>Tyler</u>				
The surface of tract is owned in fee by _____ <u>Same as above</u>				
Address <u>Box 29, Alma, WV</u>				
Mineral rights are owned by <u>Same as above</u> Address _____				
Drilling Commenced <u>9/15/80</u>				
Drilling Completed <u>9/20/80</u>				
Initial open flow <u>150</u> cu. ft. _____ bbls.				
Final production <u>80</u> cu. ft. per day _____ bbls.				
Well open <u>6</u> hrs. before test _____ RP.				
Well treatment details: _____				

Attach copy of cementing record.

Frac well on 1/8/81 using 14 bbl water and 8MSCF Nitrogen. Break down was at 2800 psi  
Well is scheduled for re-frac.

80 MCF

~~DTD 3650~~  
LTD Not Recorded

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Fifty Foot (Gordon) Depth 2552 to 2576

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Maxon Sand			1681	1694		
Big Lime			1711	1774		
B. Injun Sand			1850	1978		
Weir Sand			2132	2194		
Berea Sand			2324	2328		
Gordon Sand			2552	2576		
			<u>TD</u> 3650			
						3650 818 2832

(over)

\* Indicates Electric Log tops in the remarks section.

MAR 23 1981



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

**RECEIVED**  
SEP - 2 1980

**OIL AND GAS WELL PERMIT APPLICATION** OIL & GAS DIVISION  
DEPT. OF MINES

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

DATE August 25, 1980

Surface Owner Earl & Clyde Warner, et ux  
Address Box 29, Alma, WV  
Mineral Owner Earl & Clyde Warner  
Address \_\_\_\_\_  
Coal Owner Same as above  
Address \_\_\_\_\_  
Coal Operator None  
Address \_\_\_\_\_

Company L&M Petroleum Co.  
Address Rt. #1, Marietta, OH 45750  
Farm Earl & Clyde Warner Acres 260  
Location (waters) Big Run  
Well No. 1 Elevation 818  
District MCElroy County Tyler  
Quadrangle Shirley

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 5-5-81.

INSPECTOR TO BE NOTIFIED Phil Tracy  
ADDRESS 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 April 1 1971 by Earl & Clyde Warner made to Royal Resources and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_ in Tyler County, Book 181 Page 503

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, L&M Petroleum Co.  
(Sign Name) *[Signature]* Asst. Sec.  
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

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.

47-095-0846 \_\_\_\_\_ PERMIT NUMBER

"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 \_\_\_\_\_

**BLANKET BOND**

**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 Richard Hudson  
 ADDRESS \_\_\_\_\_ ADDRESS Parkersburg, WV 26101  
 TELEPHONE \_\_\_\_\_ TELEPHONE 304-422-7208  
 ESTIMATED DEPTH OF COMPLETED WELL: 4500' ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Devonian 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 PUT UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	<b>250</b>		<b>125 sx</b>
7			
5 1/2			
4 1/2	<b>TD</b>	<b>TD</b>	<b>400 sx</b>
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?  **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

AFFIDAVIT OF PLUGGING AND FILLING WELL

OIL & GAS DIVISION

**DEPT. of MINES**

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

None  
Coal Operator or Owner

None  
Coal Operator or Owner

Earl & Clyde Warner Et. Ux.  
Lease or Property Owner

Middlebourne, WV  
Address

Ohio L. & M. Co., Inc.  
Name of Well Operator

P.O. Box 89, Reno, Ohio 44773  
Complete Address

February 9, 19 85  
WELL AND LOCATION

McClroy District

Tyler County

WELL NO. Earl Warner #1

Earl and Clyde Warner Farm

Robert Louthier

STATE INSPECTOR SUPERVISING PLUGGING

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Ritchie

ss:

Kyle D. Perkins and Roy B. Garner

being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Ohio L.&M. Co. for LOM Petroleum, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 13th day of January, 19 85, and that the well was plugged and filled in the following manner:

Sand or Zone Record Formation	Filling Material	Plugs Used Size & Kind	Casing	
			CSG PULLED	CSG LEFT IN
Bridge plug at 2630			1300	2000
2330-2300	Cement		0	238
2100-2000	Gel			
2000-1850	Cement			
1850-1700	Gel			
1700-1300	Cement			
1300-320	Gel			
320-220	Cement			
220-40	Gel			
40-0	Cement			
Coal Seams				
(Name)				
(Name)				
(Name)				
(Name)				

3-26-85  
Description of Monument

and that the work of plugging and filling said well was completed on the 17th day of January, 19 85.

And further deponents saith not.

Kyle D. Perkins  
Roy B. Garner

Sworn to and subscribed before me this 18th day of March, 19 85.

Don L. Perkins  
Notary Public

My commission expires:  
April 10, 1994

Permit No. 41-095-0086-P

095-0846