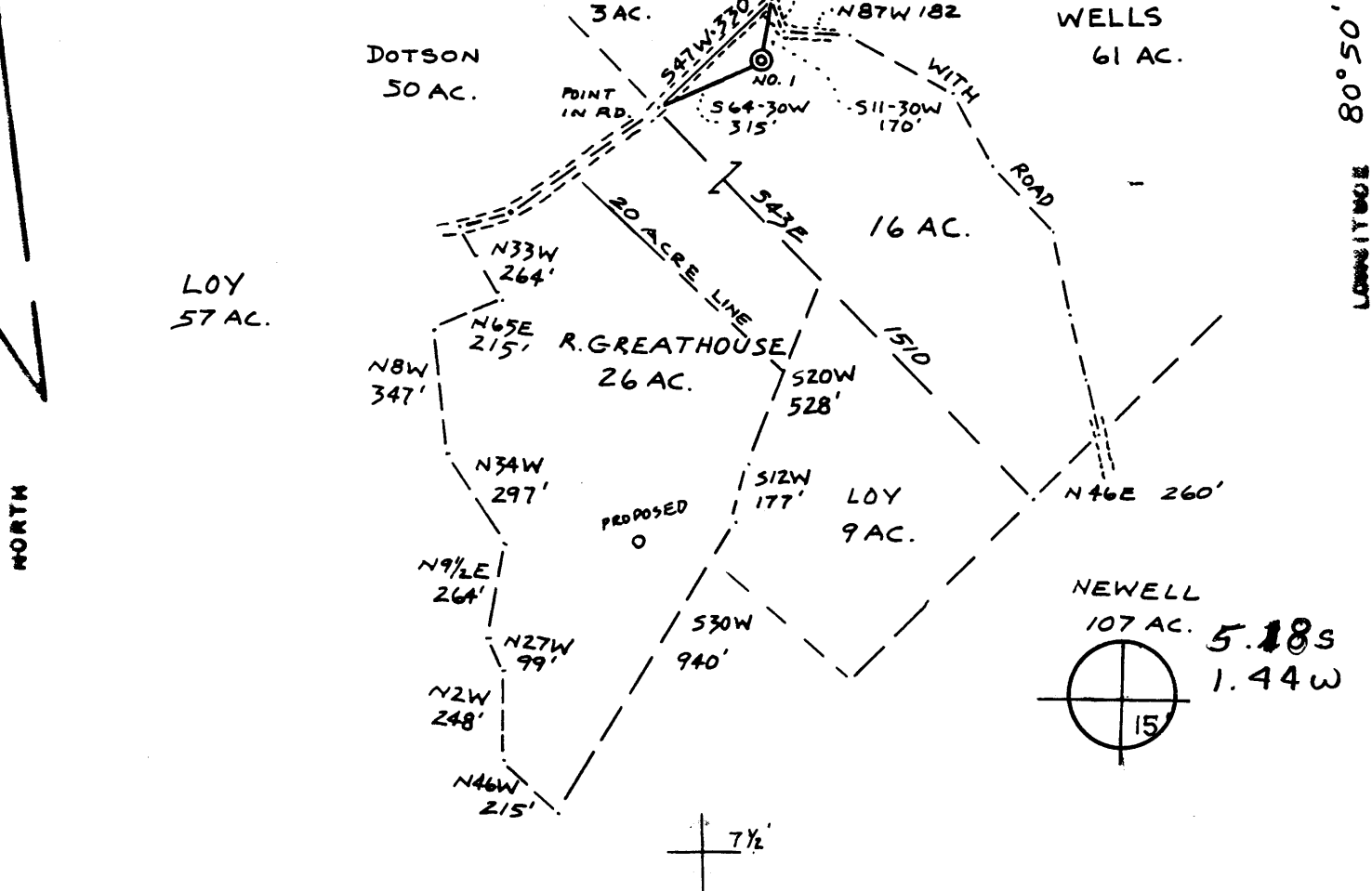


LETITUDE 39° 32' 30"  
 15 MI TO RT. 46 (15')  
 39° 35'  
 12,150 SOUTH  
 7550' WEST



L+M  
 FILE NO. R. SMITH  
 DRAWING NO. 1  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION RD. INTER. 1155

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

PLACE SEAL HERE

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



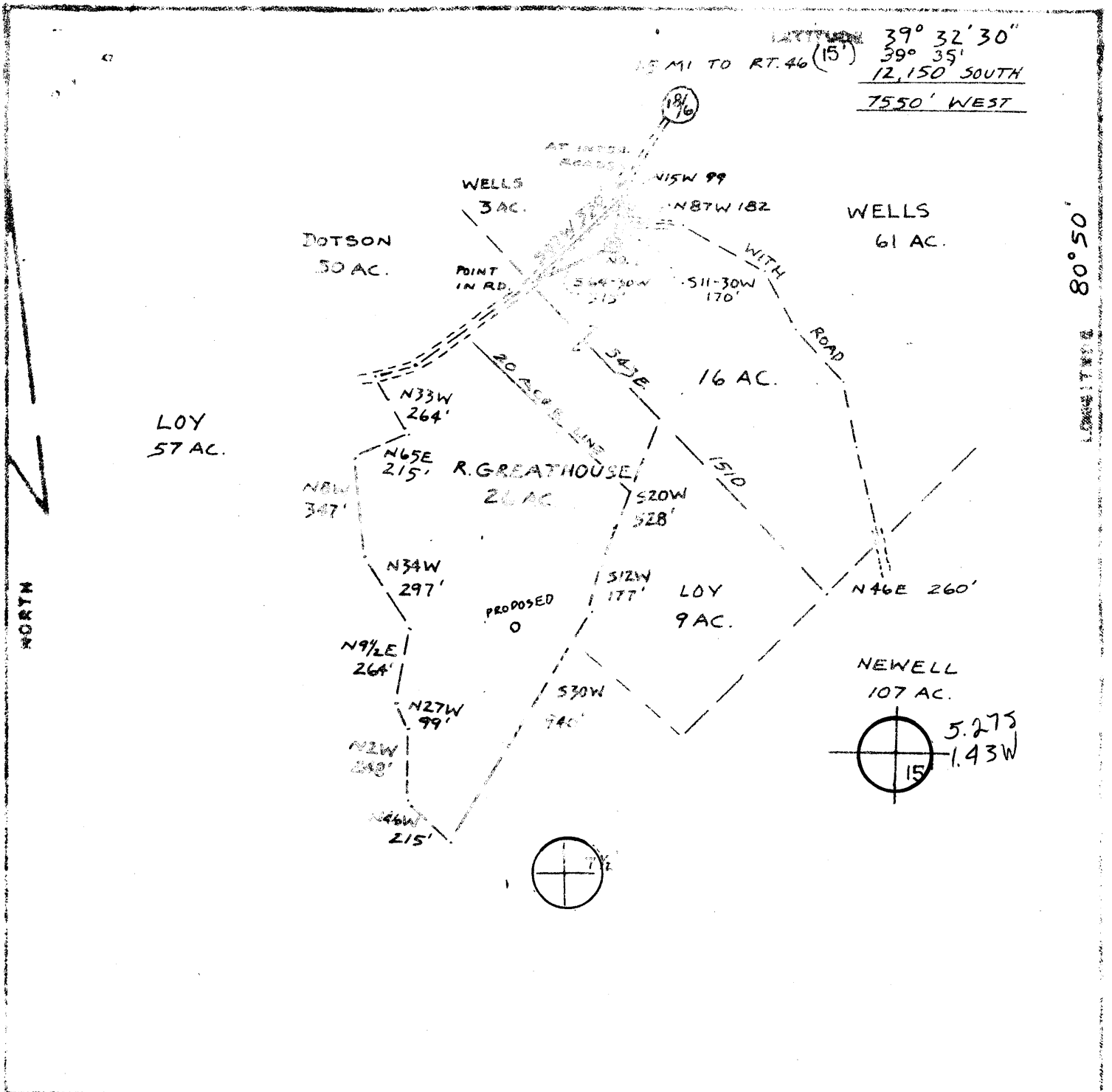
DATE JUNE 23, 1980  
 OPERATOR'S WELL NO. 1  
 API WELL NO. 47-095-0826  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

**CANCELLED**  
 NOV 22 1982

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS", PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_)  
 LOCATION: ELEVATION 1137' WATER SHED GORRELL RUN  
 DISTRICT ELLWORTH COUNTY TYLER  
 QUADRANGLE PORTERS FALLS 7 1/2' NEW MARTINSVILLE 15' SC  
 SURFACE OWNER R. GREATHOUSE ACREAGE 42  
 OIL & GAS ROYALTY OWNER RALPH C. SMITH LEASE ACREAGE 42  
 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 REPLUS \_\_\_\_\_  
 TARGET FORMATION DEVONIAN ESTIMATED DEPTH 3400'  
 WELL OPERATOR L+M PETROLEUM CO. DESIGNATED AGENT RICHARD HUDSON  
 ADDRESS MARIETTA, OHIO ADDRESS PARKERS BURG, WVA



L+M  
 FILE NO. R. SMITH  
 DRAWING NO. 1  
 SCALE 1" = 500'  
 MIN. MAX. SCALE OF ACCURACY 1/200  
 PROVEN SOURCE OF INFORMATION RD. INTER 1155

I, THE WRITER, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND CONTAINS ALL THE INFORMATION NECESSARY TO LOCATE AND IDENTIFY THE LOCATION AND PRESENTED TO THE DEPARTMENT OF REVENUE  
*Neal Hughes*  
 632

INDICATES LOCATION OF WELL IN UNITED STATES GEOGRAPHIC ZONE  
 FORM IV-B  
 (6-79)  
 REL. TYPE OF STRATA  
 LOCATION ELEVATION 1137'  
 DISTRICT ELLWORTH  
 QUAD PORTERS FALLS 7 1/2 NEW MARTINSVILLE SC  
 SURFACE OWNER R. GREATHOUSE  
 DEPT. OF REVENUE RALPH C. SMITH  
 PROPERTY    
 TARGET DEVONIAN  
 WELL L+M PETROLEUM CO.  
 ADDRESS MARIETTA, OHIO

DATE JUNE 23 80  
 OPERATOR WELL 1  
 API WELL NO. 47-095-0826  
 STATE COUNTY  
 STATE OF MISSISSIPPI  
 COUNTY OF WALKER  
 DISTRICT OF TULSA  
 LOCALITY GORRELL RUN TYLER  
 WELL NO. 42  
 3400'  
 RICHARD HUDSON  
 PARKERSBURG, WVA

RECEIVED  
AUG - 1 1980  
STATE OF WEST VIRGINIA

RECEIVED

DEPARTMENT OF MINES  
OIL & GAS DIVISION  
DEPT. OF MINES  
Oil and Gas Division

JUL 23 1980

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE July 14, 1980

Surface Owner R. Greathouse  
Address Sistersville, WV  
Mineral Owner Ralph C. Smith  
Address Wells St., Sistersville, WV  
Coal Owner Same as above  
Address \_\_\_\_\_  
Coal Operator None  
Address \_\_\_\_\_

Company L & M Petroleum Co.  
Address Rt. #1, Box 18-B, Marietta, OH  
Farm Ralph C. Smith Acres 42  
Location (waters) Gorrell Run  
Well No. 1 Elevation 1137'  
District Ellsworth County Tyler  
Quadrangle Porters Fall

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 4-4-81.

INSPECTOR TO BE NOTIFIED Phil Tracy  
ADDRESS Rt. 2, Alma, WV  
PHONE 758-4573

*John B. Burchett*  
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 10/6 19 79 by Ralph C. Smith made to Bridgewater Oil Co. and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Tyler County, Book 223 Page 68

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) *Phillip C. Hart*  
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

47-095-0826

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 *Phillip C. Hart*

**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: 2800' 3400' ROTARY  CABLE TOOLS \_\_\_\_\_  
PROPOSED GEOLOGICAL FORMATION: Devonian Gordon  
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'	Surface
7			
5 1/2			
4 1/2	TD	TD	400 sx
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 500 FEET 1500 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



Well No. 1  
Farm Ralph C. Smith  
API # 47-095-0826-Ren  
Date: September 10, 1981

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil  / Gas  /  
(If "Gas", Production \_\_\_ / Underground storage \_\_\_ / Deep \_\_\_ / Shallow \_\_\_ /

LOCATION: Elevation: 1137 Watershed: Gorrell Run  
District: Ellsworth County: Tyler Quadrangle: Porters Fall

WELL OPERATOR L&M Petroleum Co.  
Address P.O. Box 89  
Reno, Ohio 45773

DESIGNATED AGENT David Clovis  
Address Box 288  
Parkersburg, WV 26101

OIL AND GAS ROYALTY OWNER Ralph C. Smith  
Address Wells St., Sistersville, WV

COAL OPERATOR None  
Address \_\_\_\_\_

Acreage 42

COAL OWNER(S) WITH DECLARATION ON RECORD:  
NAME NA  
Address \_\_\_\_\_

SURFACE OWNER R. Greathouse  
Address Sistersville, WV

NAME \_\_\_\_\_  
Address \_\_\_\_\_

Acreage \_\_\_\_\_

FIELD SALE (IF MADE) TO:  
NAME NA  
Address \_\_\_\_\_

COAL LESSEE WITH DECLARATION ON RECORD:  
NAME NA  
Address \_\_\_\_\_

OIL AND GAS INSPECTOR TO BE NOTIFIED:  
NAME Phil Tracy  
Address Rt. 23, Alma, WV 26320  
758-4573  
Telephone \_\_\_\_\_

RECEIVED

SEP 11 1981

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_\_ / lease  / other contract \_\_\_ / dated 10/6, 1979, to the undersigned well operator from Ralph C. Smith.

(If deed, lease, or other contract has been recorded:)

Recorded on \_\_\_\_\_, 19\_\_\_, in the office of the Clerk of County Commission of Tyler County, West Virginia, in Deed Book #223 at page 68. A permit is requested as follows:

PROPOSED WORK: Drill  / Drill Deeper \_\_\_ / Redrill \_\_\_ / Fracture or stimulate \_\_\_ / Plug off old formation \_\_\_ / Perforate new formation \_\_\_ / Other physical change in well (specify) \_\_\_\_\_

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1613 WASHINGTON ST., E.  
CHARLESTON, WV 25311  
Telephone - 304/348-3092

L&M Petroleum Co.  
Well Operator  
By: Joanne Cogan  
Its: Vice President

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) \_\_\_\_\_

Address \_\_\_\_\_

GEOLOGICAL TARGET FORMATION Devonian Shale

Estimated depth of completed well 4500 feet. Rotary x / Cable tools \_\_\_ /  
Approximate water strata depths: Fresh, NA feet; salt, NA feet.  
Approximate coal seam depths: NA  
Is coal being mined in this area: Yes \_\_\_ / No x /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS Cubic ft.	PACKERS	
	Size	Grade	Weight per ft	New	Used	For Drill-ling			Left in Well
Conductor	8 5/8			x		250	250	125 sx	Kinds
Fresh water									
Coal									Sizes
Intermed.									
Production Tubing	4.5			x		4500	4500	165 sx	or Depths set
Liners								as req. by sec. 1501	Perforations:
									Top Bottom

**NOTE:** Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 renewed. This permit shall expire if operations have not commenced by 5-14-82.

  
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator \_\_\_ / owner \_\_\_ / lessee \_\_\_ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regularions.

Date: \_\_\_\_\_, 19\_\_\_\_.

By: \_\_\_\_\_

Its: \_\_\_\_\_ 