

⊙ = PROPOSED WELL

LATITUDE 39° 30'

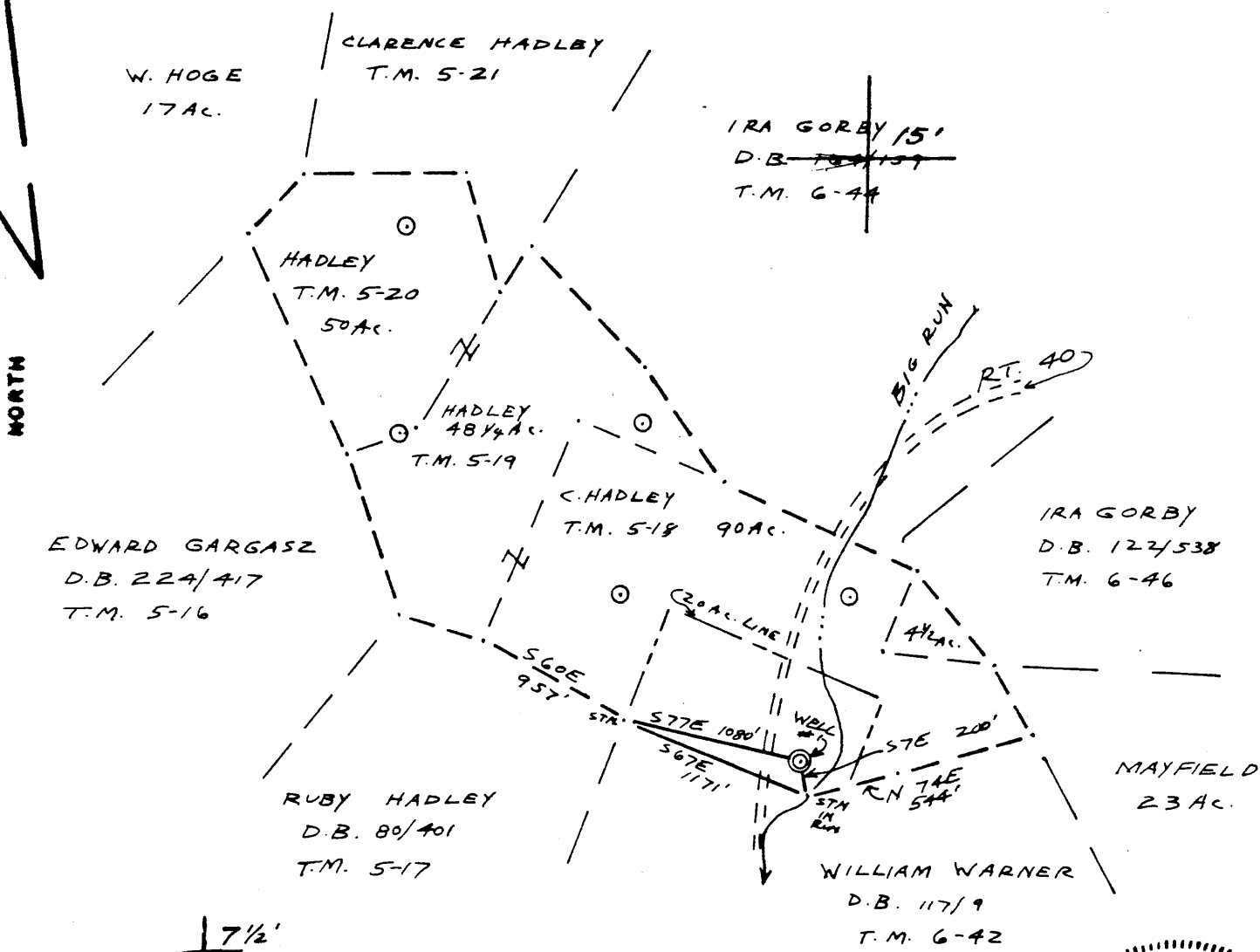
15,200' SOUTH

12,925' WEST

— — — — — = BOUNDARY LINE

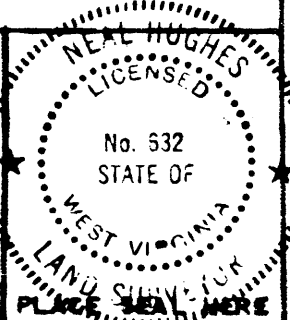
- - - - - = 20 ACRE SPACING LINE

LONGITUDE 80° 45'



FILE NO. L+M
 DRAWING NO. 1
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1-200
 PROVEN SOURCE OF ELEVATION B.M. 748

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 REVISOR
 API WELL NO. 47 095
 STATE COUNTY 0844 REV. P
 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 740' WATER SHED BIG RUN
 DISTRICT McELROY COUNTY TYLER
 QUADRANGLE SHIRLEY 7 1/2 WEST UNION
 SURFACE OWNER CLARENCE HADLEY, ET UX. ACREAGE 188
 OIL & GAS ROYALTY OWNER CLARENCE HADLEY, ET UX. LEASE ACREAGE 191
 LEASE NO. _____
 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 REPLUG _____
 TARGET FORMAT Division 2 ESTIMATED DEPTH 4500
 WELL OPERATOR Ohio L+M Co. Inc. DESIGNATED Don Berry
 ADDRESS PO Box 89 Reno Ohio 45773 ADDRESS Main Street Middlebourne, W. Va. 26149
 OCT 15 1984

U = PROPOSED WELL

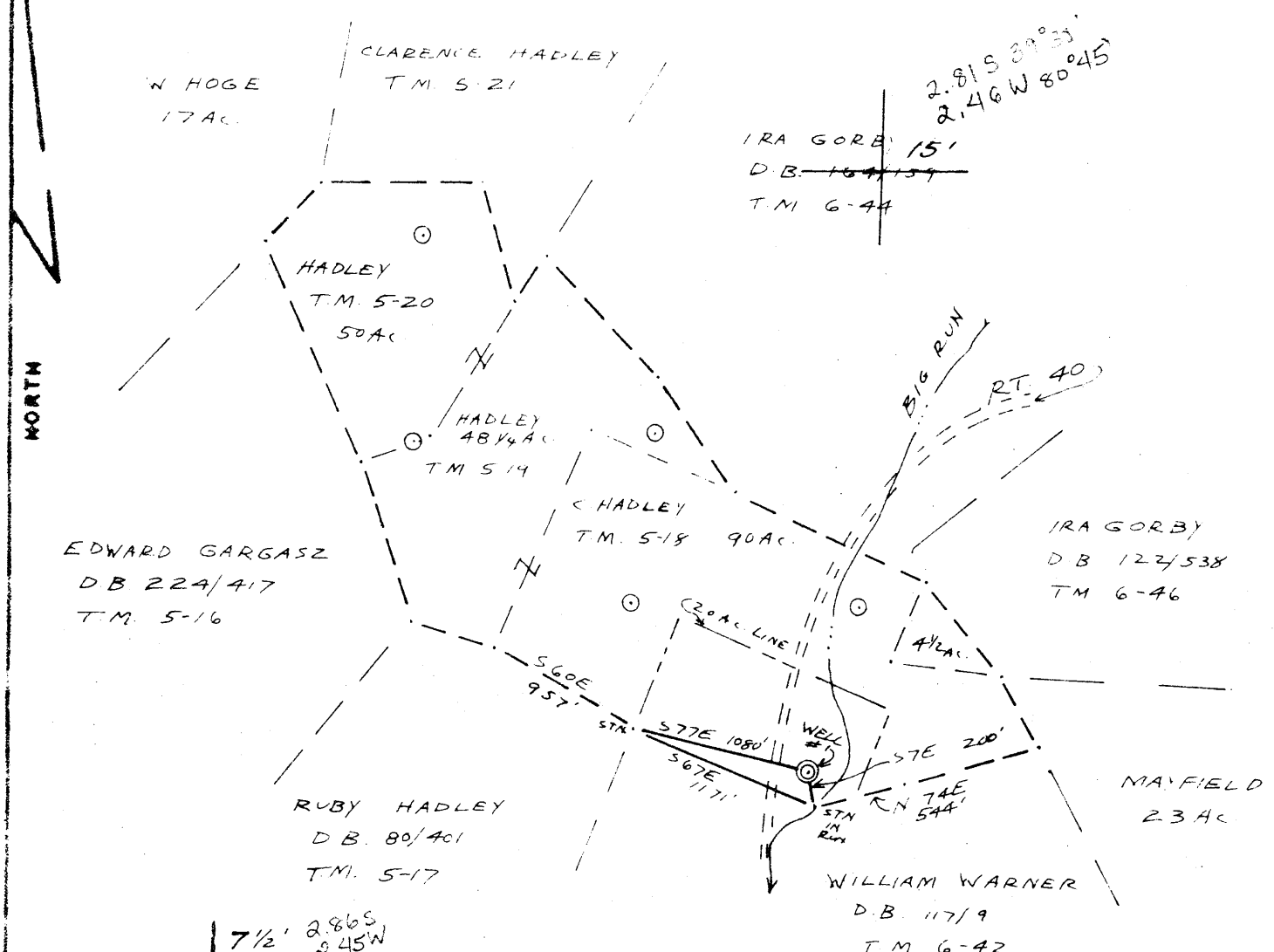
LONGITUDE 39° 30'

--- BOUNDARY LINE

15,200' SOUTH

- - - 20 ACRE SPACING LINE

12,925' WEST



LONGITUDE 80° 45'

FILE NO. L+M
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1" = 200'
 PROVEN SOURCE OF ELEVATION B.M. 748

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND IN ACCORDANCE WITH THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Neal Hughes
 P.P.E. _____ L.L.S. 632



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



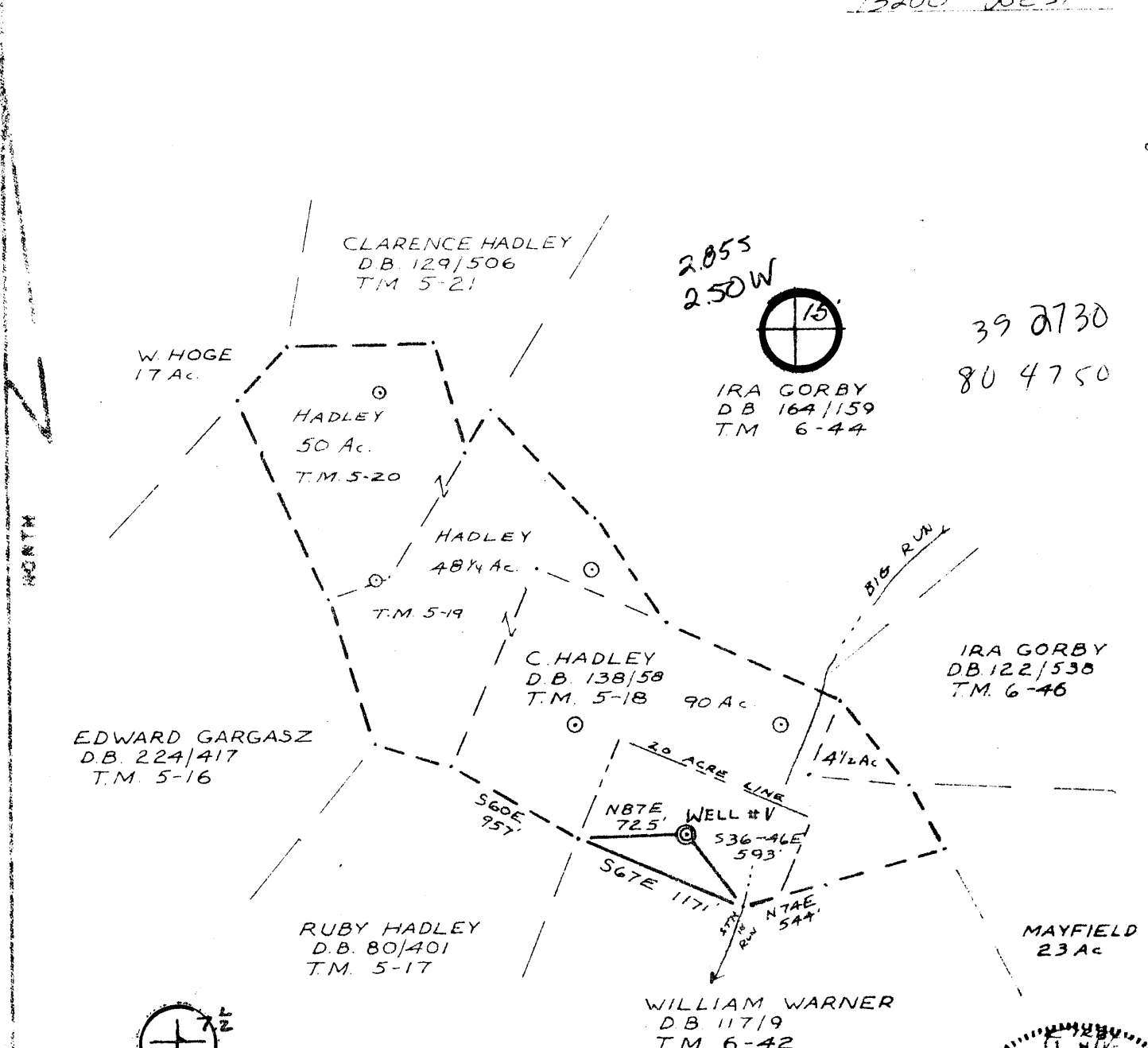
DATE August 13 1980
 OPERATOR'S WELL NO. (REVISED)
 API WELL NO. 47 095 0844 REV.
 STATE COUNTY PERMIT

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 740 WATER SHED BIG RUN
 DISTRICT McELROY COUNTY TYLER
 QUADRANGLE SHIRLEY T2 WEST UNION NE
 SURFACE OWNER CLARENCE HADLEY, ET UX ACREAGE 188
 OIL & GAS ROYALTY OWNER CLARENCE HADLEY, ET UX LEASE ACREAGE 191
 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) _____

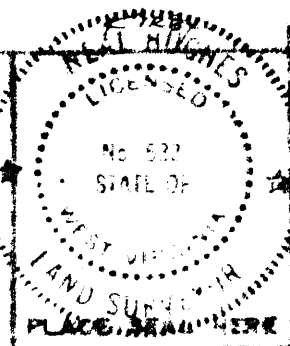
PLUS AND ABANDON _____ CLEAN OUT AND REPLUS _____
 TARGET FORMATION Permian Shale ESTIMATED DEPTH 4500
 WELL OPERATOR Am Petroleum Co DESIGNATED AGENT Richard Hulson
 ADDRESS 121 S. 18th St. Martinsburg, WV PHONE 304-472-7208
614-373-8771

Plot Card
 PROPOSED WELL
 BOUNDARY LINE
 20 ACRE SPACING LINE
 LATITUDE 39°30'
 15,000' SOUTH
 13200' WEST



FILE NO. L-M
 DRAWING NO. 1
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1-200
 PROVEN SOURCE OF ELEVATION B.M. 748

I, THE UNDERSIGNED, DO 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
 (6-75)



DATE August 13 1980
 OPERATOR'S WELL NO. 1
 API WELL NO. 47-095 0844
 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 785' WATER SHED _____
 DISTRICT McELROY COUNTY TYLER
 QUADRANGLE SHIRLEY T2 WEST UNION 15' N2
 SURFACE OWNER CLARENCE HADLEY, ET AL ACREAGE 188
 OIL & GAS ROYALTY OWNER CLARENCE HADLEY, ET AL LEASE ACREAGE 191
 LEASE NO. _____
 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 D. M. Petroleum Co. DESIGNATED AGENT Richard Nelson
 ADDRESS Rt 41 Merrill, Ohio ADDRESS Hubert, W.V.
614-833-8971 304-422-7208

3-3 Big Moses (94)

SEP 23 1980



RECEIVED

MAR 30 1981

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

COAL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

Quadrangle Shirley
Permit No. 47-095-0844

Rotary Oil _____
Cable _____ Gas _____
Recycling _____ Comb.
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company I&M Petroleum Co.
Address Rt. #1, Box 18-B, Marietta, OH
Farm Clarence Hadley Acres 191
Location (waters) Big Run
Well No. 1 Elev. 758
District McElroy County Tyler
The surface of tract is owned in fee by _____
Clarence Hadley
Address Box 26, Alma, WV 26320
Mineral rights are owned by same as above
Address _____
Drilling Commenced 9/21/80
Drilling Completed 9/26/80
Initial open flow 100 cu. ft. _____ bbls.
Final production 150 cu. ft. per day _____ bbls.
Well open NA 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	247'		
7			
5 1/2			
4 1/2	3377.15	3377.15	300 sx
3			
2			
Liners Used			

Well treatment details: Attach copy of cementing record.
Frac well on 3/20/81 using 350 bbl water, 60M# sand, & 900MSCF N₂; BD:3750
ATP: 2600; Rate: 7BPM; ISI: 2100; 5 min: 1600

150 MCF

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet
Producing Sand Warren Depth 3180 - 3240 *perf @ tested on P.I. ca*

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Big Lime			1648	1698		
B. Injun Sand			1706	1912		
Weir Sand			2064	2130		
Berea Sand			2256	2261		
Gordon Sand			2700	2709		
Warren Sand			3180	3240	Oil/Gas	

NOTE: NO LOGS OR SAMPLES WERE TAKEN ABOVE THESE DEPTHS.

3240
3209
31' exp. log

* Indicates Electric Log tops in the remarks section.



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 Clarence Hadley

Company L&M Petroleum Co.

Address Joseph Mills, WV

Address Rt. #1, Marietta, OH 45750

Mineral Owner Same

Farm Clarence Hadley Acres 191

Address _____

Location (waters) _____

Coal Owner Same

Well No. 1 Elevation 758

Address _____

District McElroy County Tyler

Coal Operator None

Quadrangle Shirley

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 5-5-81.

INSPECTOR
TO BE NOTIFIED Phil Tracy

ADDRESS Middlebourne, WV

PHONE 758-4573

Frederic B. Smith
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 Oct. 20 1972 by Clarence Hadley made to Royal Resources and recorded on the _____ day of _____ 19____, in Tyler County, Book 196 Page 310
 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) [Signature] Asst. Sec.
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.

47-095-0844 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 X 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 X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale
 TYPE OF WELL: OIL _____ GAS _____ COMB. X STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT PUT UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	250		125 sx
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 _____ 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

RECEIVED
MAR 25 1985

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

Address

None
Coal Operator or Owner

Address

Clarence Hadley, 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

McElroy District

Tyler County

WELL NO. Clarence Hadley No. 1

Clarence Hadley Farm

STATE INSPECTOR SUPERVISING PLUGGING Robert Lowther

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Ritchie

ss:

Hyle 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 L.M. Petroleum, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 7th day of January, 1985, 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
3160-2000	Cement		1310	200
2910-2000	Gel		0	24
2030-1800	Cement			
1830-1310	Gel			
1310-1200	Cement			
1230-320	Gel			
320-220	Cement			
220-40	Gel			
40-0	Cement			
Coal Seams				
(Name) None				
(Name)				
(Name)				
(Name)				

M.D. 3-25-85

Description of Monument
7" pipe cemented into
the 8" pipe. App. 30"
above the ground.

and that the work of plugging and filling said well was completed on the 11th day of January, 1985.

And further deponents saith not.

Hyle D. Perkins
Roy B. Garner

Sworn to and subscribed before me this 18th day of March, 1985.

Donald P. [Signature]
Notary Public

My commission expires:

April 10, 1986

Permit No. 11-095-0844-R

095-0844