

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION U.S.C. & G.S. B.M. 826 McKim, W. Va

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) William F. Woodhull
 R.P.E. 5229 L.L.S. _____

PLACE SEAL HERE

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

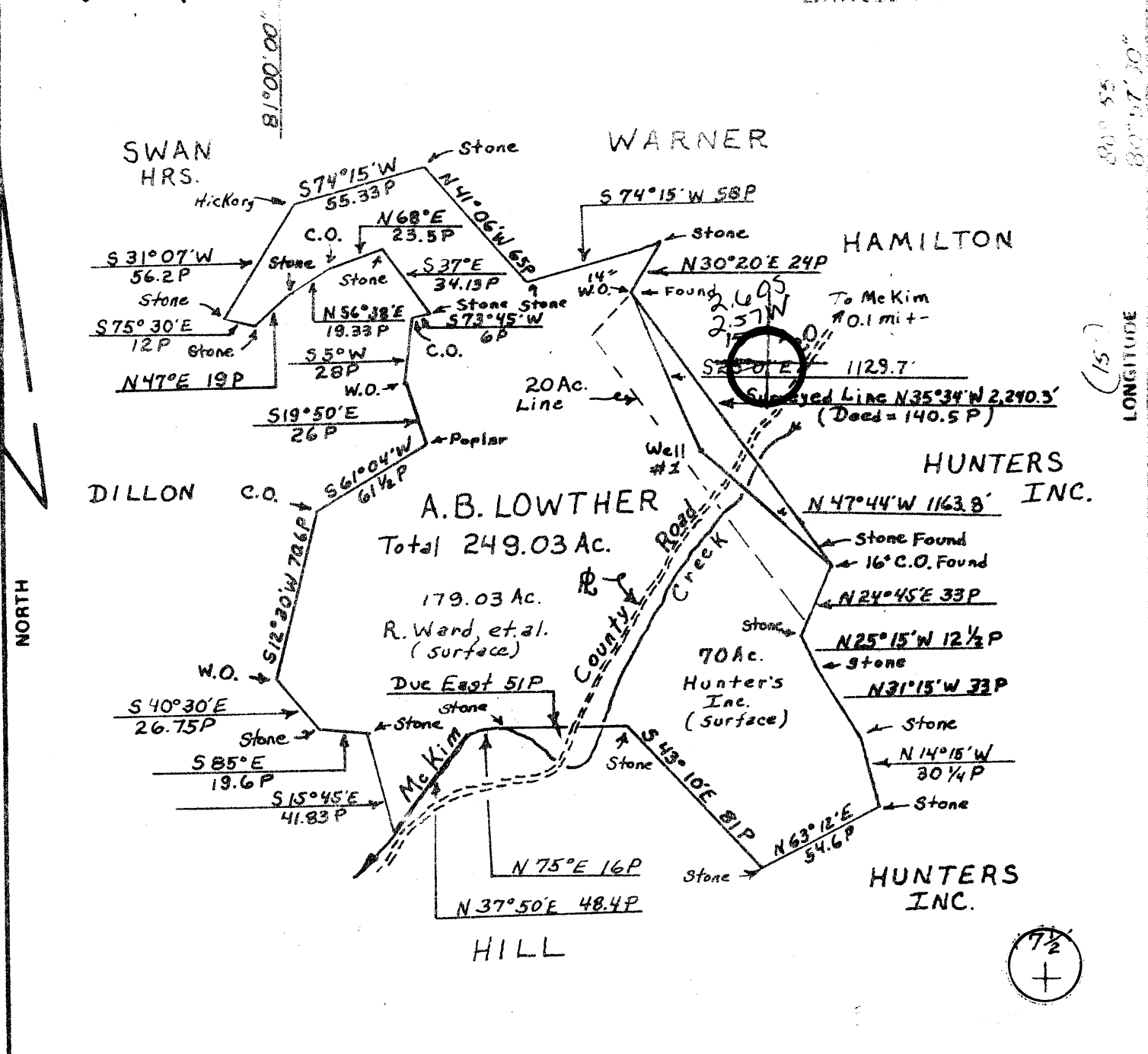


DATE 8-20, 1980
 OPERATOR'S WELL NO. 1
 API WELL NO. 47-095-0845-P
 STATE COUNTY PERMIT

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 837.0 WATER SHED Mc KIM CREEK
 DISTRICT MEADE COUNTY TYLER
 QUADRANGLE MIDDLEBOURNE 7 1/2 WEST UNION 15'
 SURFACE OWNER R. WARD, et al & HUNTERS INC. ACREAGE 249.03
 OIL & GAS ROYALTY OWNER A.B. LOWTHER HRS. LEASE ACREAGE 249.03
 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 Dominion Shale ESTIMATED DEPTH 4500'
 WELL OPERATOR Ohio L & M Co. Inc DESIGNATED AGENT. Dod Berry
 ADDRESS: Po Box 89 ADDRESS main street
Reno Ohio 45772 Middlebourne W. Va. 26149

OCT 15 1984



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 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 837.0 - WATER SHED MC KIM CREEK
 DISTRICT MEADE COUNTY TYLER
 QUADRANGLE MIDDLEBOURNE 7 1/2 WEST 11/10N 15' N
 SURFACE OWNER R. WARD, et al & HUNTERS INC. ACREAGE 249.03
 OIL & GAS ROYALTY OWNER A.B. LOWTHER HRS. LEASE ACREAGE 249.03
 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 Darwin Shale ESTIMATED DEPTH 4500
 WELL OPERATOR J.M. Petroleum Co. DESIGNATED AGENT Richard Hudson 86
 ADDRESS 411 East Main Street, Ohio ADDRESS Perkinsburg, WV
373-8771 422-7288

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Frac with 866MSCF N₂;BD:3200;ATP:2700;RATE:37.5scf/mi;ISI:2200;5Min.:2100

Perfs: 10 shots from 3266-3334

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Clay			0	12	
Blue Rock			12	35	
Red Rock			35	80	
Lime			80	90	
Sand Rock			90	100	
Slate			100	115	
Lime & Shells			115	125	
Slate			125	140	
Lime Shell			140	145	
Slate			145	167	
Red Rock			167	195	
Slate			195	205	
Lime & Shells			205	210	
Slate			210	245	
Red Rock			245	260	
Slate			260	270	
Sand			270	290	
Slate			290	295	
Lime			295	308	
Slate			308	320	
Red Rock			320	350	
Lime			350	375	
Red Rock			375	400	
Lime			400	408	
Red Rock			408	435	
Slate			435	455	
Red Rock			455	470	
Blue Lime			470	490	
Shale			490	503	
Lime			513	539	
Slate			539	555	
Lime			555	558	
Slate			558	575	
Shale			575	585	
Red Rock			585	615	
Shell			615	617	
Shale			617	638	

(Attach separate sheets as necessary)

L&M Petroleum Co.
Well Operator
By: Jean Kettering
Date: 3/3/52

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."

WELL NAME & NUMBER: A.B. Gauthier #1

FORMATION	TOP FEET	BOTTOM FEET
Lime	638	648
Slate	648	665
2nd Cow Run	665	669
Slate	669	680
Shale	680	690
Slate	690	710
Pink Rock	710	715
Slate	715	720
Blue Lime	720	750
Slate	750	755
Lime	755	760
Sand	760	795
Lime	795	805
Sand	805	910
Black Slate	910	922
Lime	922	930
Slate	930	1055
Lime Shells	1055	1060
Slate	1060	1075
Shale	1075	1080
Slate	1080	1120
1st Salt	1120	1165
Slate	1165	1175
2nd Salt	1175	1220
Slate	1220	1240
Lime Shells	1240	1245
Sand	1245	1260
Slate & Shell	1260	1272
Lime	1272	1275
Sand	1275	1335
Black Lime	1335	1340
Shale	1340	1350
Maxon Sand	1350	1380
Lime	1380	1450
Keener Sand	1450	1505
Shale	1505	1585
Injun Sand	1585	1635
Black Shale	1635	1665
Black Lime	1665	1680
White Slate	1680	1717
Big Lime	1717	1795
Sandstone	1795	1850
Shale	1850	1871
B. Injun Squaw	1871	1920
Shale	1910	1920
Squaw Sand	1920	1948
Shale & Sandstone	1948	1980
Shale	1980	2172
Weir Sand	2172	2192
Sandstone	2192	2220
Shale	2220	2723
Gordon Sand	2723	2737
Siltstone	2737	2750
Shale	2750	3282
<u>Warren Sand</u>	3282	3343
Shale	3343	3645

PREPARED BY: Jean Kettering
L&I Petroleum Co

SEP 7 1982



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
SEP - 2 1980

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 August 22, 1980

Surface Owner R. Ward/Hunters Inc.

Company L&M Petroleum Co.

Address _____

Address Rt. #1, Marietta, OH 45750

Mineral Owner A.B. Lowther Heirs

Farm A.B. Lowther Acres 249.03

Address 202 Dodd St, Middlebourne, WV

Location (waters) McKim Creek

Coal Owner Same as above

Well No. 1 Elevation 837

Address _____

District Meade County Tyler

Coal Operator None

Quadrangle _____

PERMIT MUST BE POSTED AT THE WELL SITE

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

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 Sept. 1 1971 by A.B. Lowther made to Royal Resources and recorded on the _____ day of _____ 19____ in Tyler County, Book 191 Page 59

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. [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.

47-095-0845

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	LIFT IN WELL	CEMENT FILL 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

AFFIDAVIT OF PLUGGING AND FILLING WELL

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.

NA
Coal Operator or Owner

Address

NA
Coal Operator or Owner

Address

NA
Lease or Property Owner

Address

L&M Petroleum Co.
Name of Well Operator
P.O. Box 89, Reno, OH 45773

Complete Address
March 17 19 85

WELL AND LOCATION
Meade District
Tyler County

WELL NO. 47-095-0845

A.B. Lowther #1 Farm

STATE INSPECTOR SUPERVISING PLUGGING Robert Lowther (304-758-4764)

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Ritchie

ss:

Perkins Oil & Gas Inc. and NA
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., Inc. for L&M Petroleum Co., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 4th day of February, 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
3270-3070	Cement		11 20	2 30
3070-2200	Gel			2 30
2200-2100	Cement			
2100-1120	Gel			
1120-1000	Cement			
1000-300	Gel			
300-225	Cement			
225-100	Gel			
100-0	Cement			
Coal Seams				
(Name) None				
(Name)				
(Name)				
(Name)				

3-25-85
Description of Monument
10" surface pipe
30" above ground
level.

and that the work of plugging and filling said well was completed on the 11th day of February, 19 85.

And further deponents saith not.

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

Kyle D. Peckers
Notary Public

My commission expires:
April 10, 1988

Permit No. 7-095-0845-1

095-0845-P