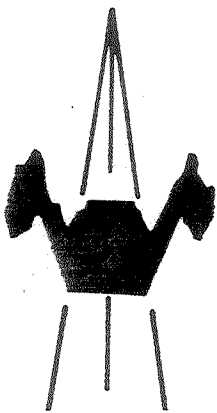
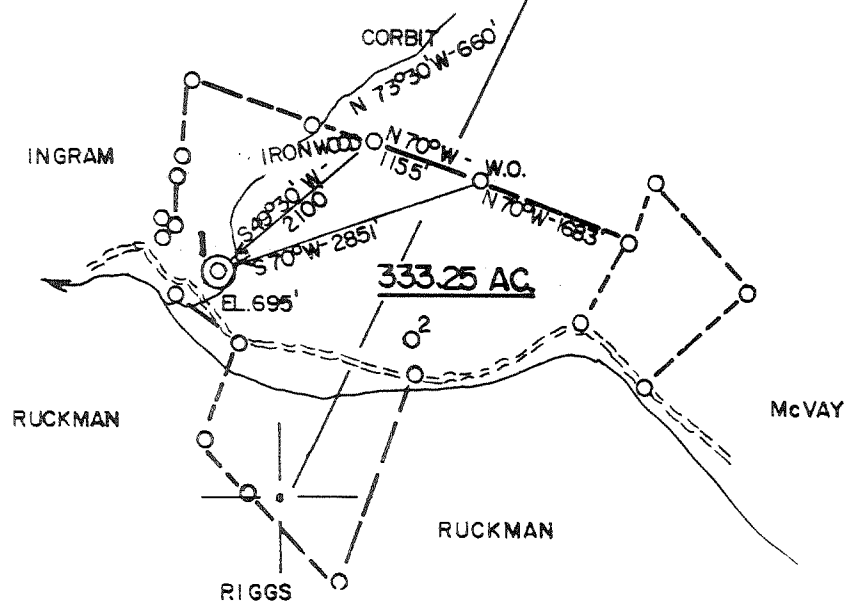


3/23/79

Latitude 39° 20' 00"

13,120' SOUTH
8,550' WEST

Longitude 81° 15' 00"



ACCURACY: 1"/200'

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill
- Other _____

Formation GORDON Oil
 Est. Depth 2800' Gas
 Other _____

Source of Elevation BORLAND 682'
 I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Company LEM OIL Co
 Address MARIETTA, OH
 Surface Owner GEORGE BILLS, JR.
 Mineral Owner SAME
 Well No. 1 Acres 333.25
 Elevation 695'
 Quadrangle MARIETTA Series 15'
WILLOW ISLAND Series 7.5'
 County PLEASANTS District JEFFERSON
 Date 8/7/79 Scale 1" = 2000'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

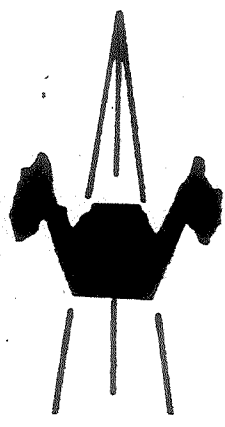
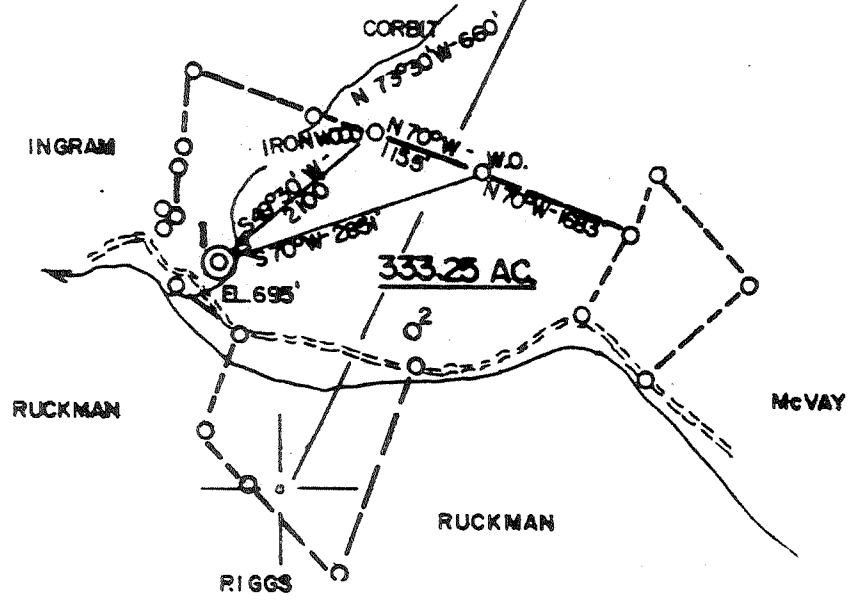
WELL LOCATION MAP
 47 - 073 - **0788 - P**
 STATE COUNTY PERMIT
 + PLUGGING PERMIT CANCELLED
 + Denotes location of well on United States Topographic Maps.
 Engineer CHET WATERMAN
 Engineer's Registration No. 3788 File No. 79-512

8/28/79

Latitude 39° 20' 00"

13,120' SOUTH
8,550' WEST

Longitude 81° 15' 00"



ACCURACY: 1"/200'

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill
- Other

Formation GORDON
Est. Depth 2800'

Oil
Gas
Other

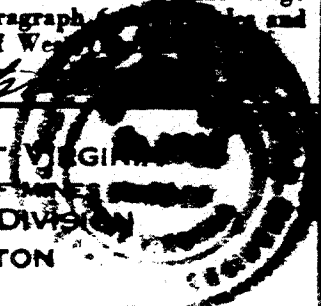
Source of Elevation BORLAND 682'

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 1 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Chet Waterman

Company LEM OIL CO
 Address MARIETTA, OH
 Surface Owner GEORGE BILLS, JR.
 Mineral Owner SAME
 Well No. 1 Acres 333.25
 Elevation 695'
 Quadrangle WILLOW ISLAND Series 7.5
 County PLEASANTS District JEFFERSON
 Date 8/7/79 Scale 1" = 2000'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON



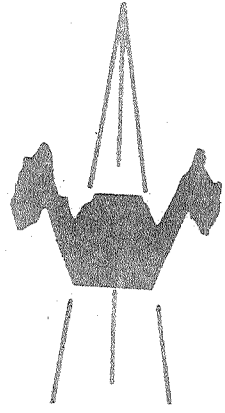
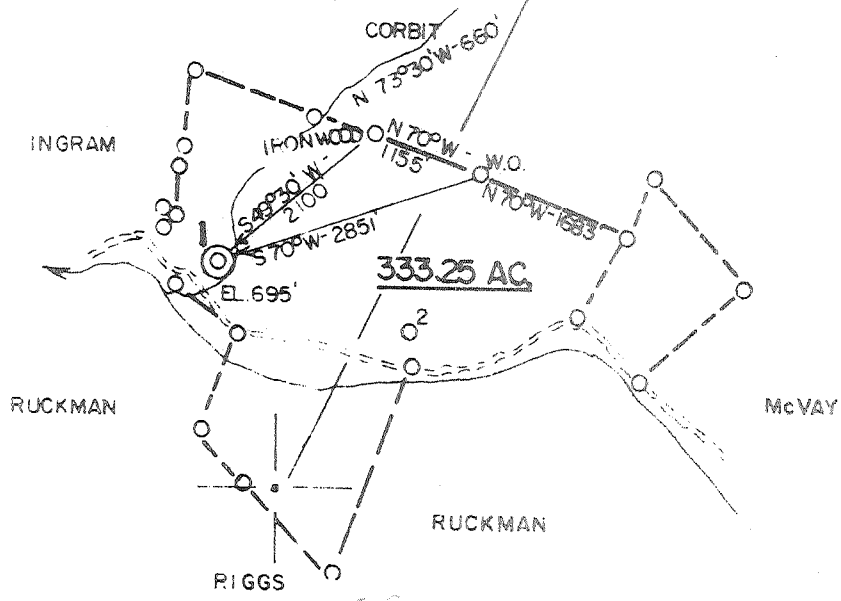
WELL LOCATION MAP
47 - 073 - **0788 - P**
STATE COUNTY PERMIT

+ Denotes location of well on United States Topographic Maps.
 Engineer CHET WATERMAN JUL 31 1981
 Engineer's Registration No. 3788 File No. 79-512

Latitude 39° 20' 00"

13,120' SOUTH
8,550' WEST

Longitude 81° 15' 00"



ACCURACY: 1/200'

New Location

Drill Deeper

Abandonment

Fracture

Redrill

Other

Formation GORDON

Est. Depth 2800'

Oil

Gas

Other

Source of Elevation BORLAND 682'

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Chet Waterman

Company LEM OIL CO

Address MARIETTA, OH

Surface Owner GEORGE BILLS, JR.

Mineral Owner SAME

Well No. 1 Acres 333.25

Elevation 695'

Quadrangle MARIETTA SE Series 7.5'

County PLEASANTS District JEFFERSON

Date 8/7/79 Scale 1" = 2000'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
47 - 073 - **0788**
STATE COUNTY PERMIT

+ Denotes location of well on United States Topographic Maps.
Engineer CHET WATERMAN SEP 24 1979
Engineer's Registration No. 3788 File No. 79-512



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

MAY 15 1980

Oil and Gas Division
WELL RECORD

OIL & GAS DIVISION
DEPT. OF MINES

Quadrangle Willow Island

Permit No. 47-073-0788

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

Company L & M Petroleum Inc.
Address Rt. #1, Newport Pike, Marietta, OH
Farm George Bills Acres 333.25
Location (waters) Horse Neck Run
Well No. #1 Elev. 682
District Jefferson County Pleasants
The surface of tract is owned in fee by _____
George Bills
Address 4802 Bath Rd, Akron, Ohio
Mineral rights are owned by same as
above Address _____
Drilling Commenced 9/3/79
Drilling Completed 2/28/80
Initial open flow 5M cu. ft. .5 bbls.
Final production 5M cu. ft. per day - bbls.
Well open 12 hrs. before test 400 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	251	251	
7			
5 1/2			
4 1/2	1910.67	1910.67	^{TD} 300 cfs
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Refrac well with 48M# sand & 1025 bbl. water at 1500 PSIG, 20 BPM, with
180MSCF Nitrogen

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Gantz Depth 1479 - 1506

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Coffee Shale			1374	1380		
Berea			1380	1382		
Stray			1480	1542		Interval that blew out
Thirty-foot Sand			1614	1650		
Gordon Stray			1660	1724		
Gordon			1760	1840	Oil/Gas	

(over)

JUL 7 1980



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

AUG 28 1979

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 August 27, 1979

Surface Owner George Bills, Jr.

Company L & M Operating, Inc. OIL CO.

Address 4802 Bath Rd, Akron, OH 44308

Address 322 Third Street, Marietta, OH

Mineral Owner Same

Farm George Bills, Jr. Acres 333.25

Address _____

Location (waters) Horse Neck Run

Coal Owner Same

Well No. 1 Elevation 682'

Address _____

District Jefferson County Pleasants

Coal Operator None

Quadrangle Willow Island

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 5-1-80

INSPECTOR Tracy
TO BE NOTIFIED _____

ADDRESS _____

PHONE _____

Robert L. ...
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 28th/ Sept. 19 78 by George Bills made to Ray Dietz and recorded on the 29th day of September 19 78 in Pleasants County, Book 716 Page 625

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 Operating, Inc. OIL CO.
(Sign Name) *Phillip C. Hunter*
Well Operator

Phillip C. Hunter
Street
322 Third Street
City or Town
Marietta, 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

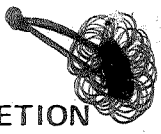
47-073-0788

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 _____

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 Lynn St, Parkersburg, WV
 TELEPHONE _____ TELEPHONE 1-304-424-0876
 ESTIMATED DEPTH OF COMPLETED WELL: 2800 ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: 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	<input checked="" type="checkbox"/>	250	250
7			Surface
5 1/2			
4 1/2	<input checked="" type="checkbox"/>	TD	TD
3			400
2			Perf. Top
Liners			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150' FEET 1500' SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS None
 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