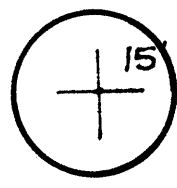
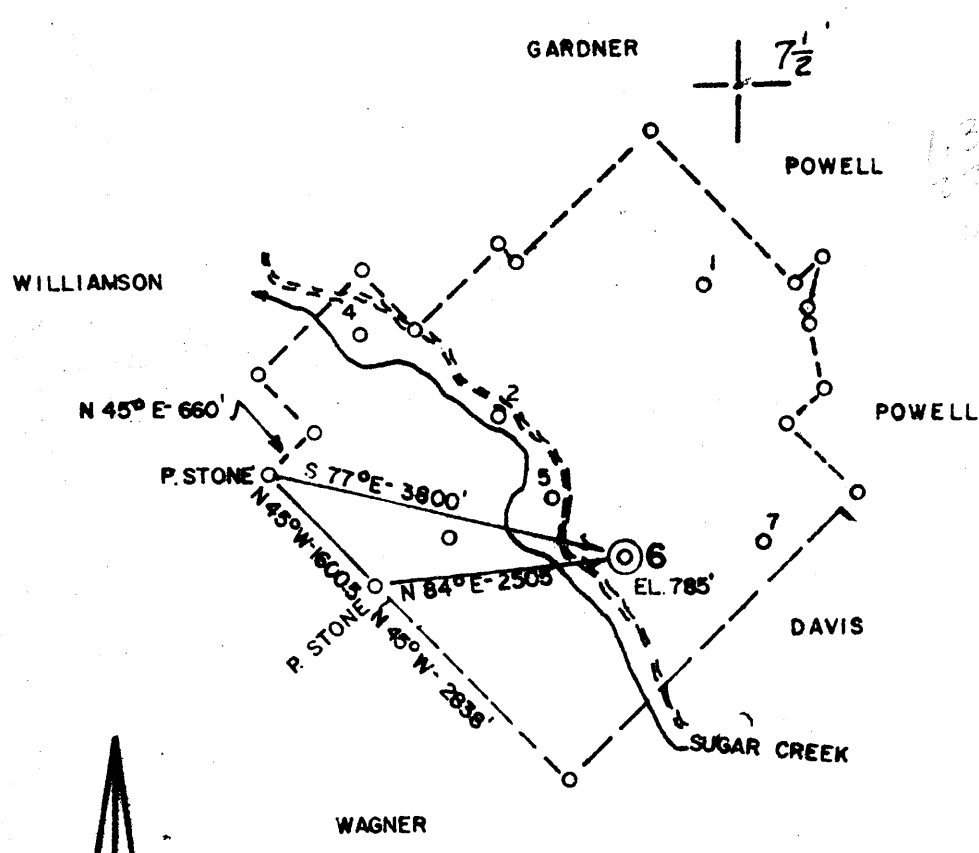


6620' SOUTH  
7260' WEST

1.245  
338 W



Longitude 81° 00' 00"  
81° 00' 00"  
81° 00' 00"



ACCURACY: 1" / 200'

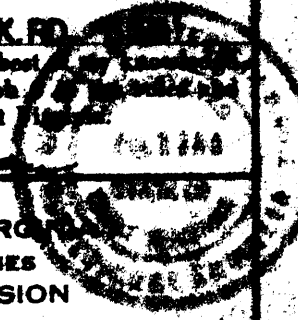
- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill
- Other

Formation GORDON  
Est. Depth 2550'

Oil   
Gas   
Other

Source of Elevation SHAWNEE RD INT W/SUGCRK RD  
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 regulations of the oil and gas section of the mining laws of West Virginia.

*Chet Waterman*



Company L & M OIL COMPANY PETROLEUM INC.  
 Address MARIETTA, OH  
 Surface Owner WESTVACO  
 Mineral Owner L. C. WAGNER

Well No. 6 Acres 504.29  
 Elevation 785' ST MARYS 15' EC  
 Quadrangle BENS RUN Series 7.5'  
 County PLEASANTS District UNION  
 Date 10/10/79 Scale 1" = 2000'

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

**WELL LOCATION MAP**  
47 - 073 - 0806  
 STATE COUNTY PERMIT

+ Denotes location of well on United States Topographic Maps.  
 Engineer CHET WATERMAN NOV 14 1979  
 Engineer's Registration No. 3788 File No. 79-722



**RECEIVED**

DEC - 1 1980

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

**Oil and Gas Division**  
**WELL RECORD**

OIL & GAS DIVISION  
DEPT. OF MINES

Quadrangle Bens Run  
Permit No. 47-073-0806

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

Company L&M Petroleum Co.  
Address Rt. 1, Marietta, OH 45750  
Farm L.C. Wagner Acres 504.29  
Location (waters) Sugar Creek  
Well No. 6 Elev. 785'  
District Union County Pleasants  
The surface of tract is owned in fee by Westvaco  
Address Ruppert, WV  
Mineral rights are owned by L.C. Wagner  
Address Rt. 2, St. Marys, WV  
Drilling Commenced 1/28/80  
Drilling Completed 2/4/80  
Initial open flow 150 M 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			
7			
5 1/2			
4 1/2	2798.56	2798.56	300 sx
3			
2			
Liners Used			

Well treatment details:  
Frac well on 11/20/80 using 550 bbl water & 60M# sand at 2050 psig  
41 BPM

Attach copy of cementing record.

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches T.D. 2865  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet  
Producing Sand Berea \_\_\_\_\_ Depth 2234-2237

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
B. Injun Sand			1709	1856		
Weir Sand			2156	2234		
Berea Sand			2234	2237		
Gordon Sand			2626	2647	Oil/Gas ?	

NOTE: No logs or Samples were taken above these depths.

(over)

\* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
OCT 25 1979  
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 10/17/79

Surface Owner Westvaco  
Address St. Marys, WV  
Mineral Owner L.C. Wagner  
Address St. Marys, WV  
Coal Owner Same  
Address \_\_\_\_\_  
Coal Operator None  
Address \_\_\_\_\_

Company L & M Petroleum  
Address R.D. #1, Box 18-B, Marietta, OH  
Farm L.C. Wagner Acres 504.29  
Location (waters) Sugar Creek  
Well No. 6 Elevation 785'  
District Union County Pleasants  
Quadrangle Bens Run

~~THIS PERMIT MUST BE POSTED AT THE WELL SITE~~

All provisions 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 6-29-80.

INSPECTOR TO BE NOTIFIED Phil Tracy

ADDRESS Middlebourne, W.Va.

PHONE 758-4573

*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 11/2 19 77 by L.C. Wagner made to J.E. Olds and recorded on the 15 day of NOV. 19 77 in Pleasants County, Book 148 Page 528, 529

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 Oil Company

(Sign Name) *Phillip C. Hunter*  
Well Operator

Phillip C. Hunter

Street

R.D. #1, Box 18-B, Newport Pike

City or Town

Marietta, Ohio 45750

State

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

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 owners thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

47-073-0806

PERMIT NUMBER

I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12 and will carry out the specific requirements.

Signed by \_\_\_\_\_

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  
 TELEPHONE \_\_\_\_\_ TELEPHONE 1-304-424-0876  
 ESTIMATED DEPTH OF COMPLETED WELL: \_\_\_\_\_ X ROTARY \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Gordon  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. X 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
3			Perf. Top
2			Perf. Bottom
Liners			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 hereof.

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