

W. CARPENTER
1.6 AC.

LATITUDE 39° 25'

13,000' SOUTH

9,800' WEST

NEW BRIDGE
U.S. 50A

TANNERY
RUN

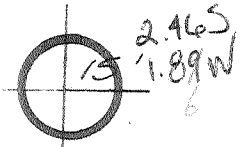
OHIO RIVER

S27E
297'

OLD PIKE

ST. RT. 2

N13 1/2 E
264'



QUAKER STATE
50 AC.

W.VA. DEPT
OF HIGHWAYS

HOPE
GAS

N47W 380'

N73 3/4 W 206'

N79W 313'

39 22 50

81 12 10

J. FRANKLIN
CARPENTER
70 ACRES (DEED)
63.25 (CALC.)

POWER LINE

HIGH PRESSURE
OIL LINE

G. WESTBROOK
44.5 AC.

S48 1/2 E 150'

N38 1/2 W 495'

N85 1/2 W 123'

HOPE GAS
M-398

N67 1/4 W 1567'

N. WEST
12.2 AC

N62W 1315'

WELL
LOCATION
#4

PIONEER FARM
WOMEN'S CLUB



H. KUNTZ

G. WESTBROOK

N48E 1410'

C. WEST
3.8 AC.

18

L + M

1" = 500'

ACCURACY 1/200

ELEVATION B.M. 629

Neal Hughes
632

Sept 12 80
WELL # 4

073 0965

862'

WASHINGTON

PLEASANTS

QUADRANGLE RAYEN ROCK 7 1/2 ST. MARY'S 5' WC

J. FRANKLIN CARPENTER

TO (MINNYS ROAD R/W)

LEASE TO J. FRANKLIN

LEASE ADJUST 69.48

STIMULATE ... FORMATION ... WELL (SPECIFIC)

WELL OPERATOR J.M. ... ESTIMATED DEPTH 4500'
ADDRESS #21 Box 18-B ... ADDRESS Parkersburg, W.V.
614-373-8771 6-6 St. Marys (77) 304-422-7208

81010



RECEIVED

FEB 20 1981

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

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

Quadrangle Raven Rock
Permit No. 47-073-0965

Company L&M Petroleum Co.
Address Rt. #1, Box 18-B, Marietta, OH
Farm Frank Carpenter Acres 69.48
Location (waters) Tannery Run
Well No. 4 Elev. 862'
District Washington County Pleasants
The surface of tract is owned in fee by J. Franklin Carpenter
Address Rt. #1, St. Marys, WV
Mineral rights are owned by Same as above
Address _____
Drilling Commenced 10/28/80
Drilling Completed 11/3/80
Initial open flow 150 cu. ft. _____ bbls.
Final production 100 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	1045		
7			
5 1/2			
4 1/2	3796.85	3796.85	450 sx
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Frac Well on 2/6/81 using 410 bbl. water & 60M# sand at 1900# BD, 2900ATP, @6BPM, w/ 847MSCF Nitrogen. Perfs: 24 shots from 3240-3650

D-3800'
L-3818'

Coal was encountered at _____ Feet _____ Inches 100 MCF
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Upper Devonian Formation Depth 2500 to 3818 Dev. Sh.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Maxon Sand			1450	1471		
B. Injun Sand			1668	1704		
Squaw Sand			1731	1733		
Berea Sand			2090	2094		
Gordon Sand			2487	2494		
Upper Devonian			2500	3818		<u>Dev. Sh.</u>

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

(over)

* Indicates Electric Log tops in the remarks section.

MAR 23 1981



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED
SEP 18 1980

OIL AND GAS WELL PERMIT APPLICATION
OIL & GAS DIVISION
DEPT. OF MINES

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

DATE September 16, 1980

Surface Owner J. Franklin Carpenter

Company L&M Petroleum Co.

Address Rt. #1, St. Marys, WV

Address Rt. #1, Marietta, OH 45750

Mineral Owner Same as above

Farm J. Franklin Carpenter Acres 69.48

Address _____

Location (waters) Tannery Run

Coal Owner Same as above

Well No. 4 Elevation 862

Address _____

District Washington County Pleasants

Coal Operator None

Quadrangle Raven Rock

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 5-18-81

INSPECTOR TO BE NOTIFIED Phil Tracy

ADDRESS Middlebourne, WV

PHONE 758-4573

Thomas E. Huggins
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 Sept. 29 19 77 by J. Franklin Carpenter made to Quaker State Refining Corp. and recorded on the _____ day of _____ 19 _____ in Pleasants County, Book 148 Page 460

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 addresses _____ 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 Petroleum Co.
(Sign Name) *Phillip C. ...* Asst. Sec.
Well Operator

Address of Well Operator
Rt. #1, Box 18-B
Street
Marietta
City or Town
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
C-304 - 292-6331

"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.

47-073-0965 PERMIT NUMBER

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."

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	LEFT 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 ~~twelve~~ 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