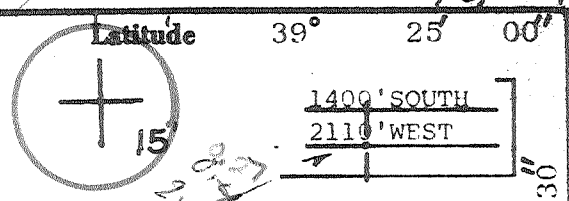


9/10/79 15



8.27  
8.46.5  
2148.4  
63

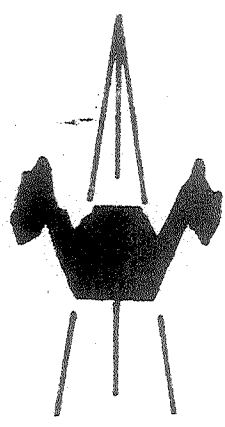
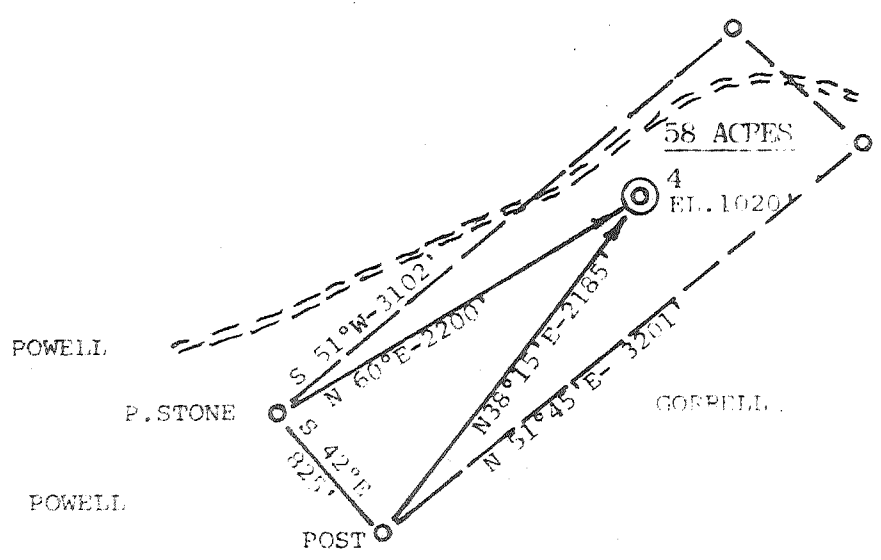
39 24 35  
81 02 45

2.00  
2.23  
2.63

(15.)  
Longitude  
81° 02' 30"

LAIDLEY

MILLER



ACCURACY: 1" / 200'

New Location   
 Drill Deeper   
 Abandonment   
 Fracture   
 Redrill   
 Other

Formation GORDON Oil   
 Est. Depth 2750' Gas   
 Other

Source of Elevation NEAR CRAIG CEM. (974')  
 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 COMPANY  
 Address MARIETTA, OHIO  
 Surface Owner JIMMIE A. POWELL  
 Mineral Owner JIMMIE A. POWELL  
 Well No. 4 Acres 58  
 Elevation 1020'  
 Quadrangle BENS RUN Series 7.5  
 County PLEASANTS District UNION  
 Date 9/17/79 Scale 1" = 1000'

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

WELL LOCATION MAP  
47 - 073 - 0794  
 STATE COUNTY PERMIT

+ Denotes location of well on United States Topographic Maps.  
 Engineer CHET WATERMAN OCT 9 1979  
 Engineer's Registration No. 3788 File No. 79-618

6-6 Shawnee (82) Shiloh-wick (86)



**RECEIVED**

MAR - 5 1981

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
**Oil and Gas Division**  
**WELL RECORD**

OIL & GAS DIVISION  
DEPT. OF MINES

Quadrangle Willow Island  
Permit No. 47-073-0794

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

Company L&M Petroleum Co.  
Address Rt. 1, Box 18-B, Marietta, OH  
Farm Jimmie A. Powell Acres 116  
Location (waters) Sugar Creek  
Well No. 4 Elev. 1020  
District Union County Pleas.  
The surface of tract is owned in fee by \_\_\_\_\_  
same as above  
Address Harmony Acres, St. Marys, WV  
Mineral rights are owned by Same as above  
Address \_\_\_\_\_  
Drilling Commenced 10/7/79  
Drilling Completed 11/21/79  
Initial open flow 200 cu. ft. \_\_\_\_\_ bbls.  
Final production 180 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	250	250	
7			
5 1/2			
4 1/2	2995.05	2995.05	200 sx
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

1st frac: 270BW, 60M# sand at 2500 psig, 8BPM, w/60lMSCF Nitrogen

2nd frac: 1120 MSCF Nitrogen at 2200 psi, 4lBPM, 1st 1950, 5 ml. 1950

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Berea/Weir Depth 2236-2246; 2284-2676  
*Weir Berca*

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay dirt	Red	S	0	4		
Rock	Gray	S	4	6		
Rock	Red	S	6	15		
Sand Rock	Red	H	15	20		
Sand Rock	Red	H	20	25		
Sand Rock	Yellow	H	25	45		
Shale	Gray	S	45	113	300' water	
Shale & Sand	G&W	M	1535	1862		
L. Lime	W	M	1862	1911		
Shale	Gray	S	1911	1960		
Sand/Shale	Gray	M	1960	2000		
B. Lime	Gray	H	2000	2042	2100 water	
Sand/Shale	G/W		2042	2116		
Shale	Gray	S	2116	2420	2355 oil	
Sand/Shale	Gray	M	2420	3000		

(over)

\* Indicates Electric Log tops in the remarks section.

APR 07 1981



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
SEP 17 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 September 14, 1979

Surface Owner Jimmie A. Powell  
Address St. Marys, WV  
Mineral Owner Same  
Address \_\_\_\_\_  
Coal Owner Same  
Address \_\_\_\_\_  
Coal Operator None  
Address \_\_\_\_\_

Company L & M Oil Company  
Address R.D. #1, Box 18-B, Marietta, OH  
Farm Jimmie A. Powell Acres 116  
Location (waters) Sugar Creek  
Well No. 4 Elevation 1020  
District Union County Pleasants  
Quadrangle Willow Island

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 5-18-80.

INSPECTOR Phil Tracy  
TO BE NOTIFIED \_\_\_\_\_  
ADDRESS Middlebourne, W.Va.  
PHONE 758-4573

*[Signature]*  
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 11/15 19 77 by James A. Powell made to J. E. Olds and recorded on the 21 day of Nov. 19 77 in Pleasants County, Book 148 Page 558, 559

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 Oil Company  
(Sign Name) *[Signature]*  
Well Operator

Phillip C. Hunter  
Street  
R.D. #1, Box 18-B, Newport Pike  
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 there to by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

47-073-0794

PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 3, 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 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 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