



New Location   
 Drill Deeper   
 Abandonment

Minimum Error of Closure ONE PART IN 200  
 Source of Elevation A. L. & M. CO. WELL A-665 - ELEV. 916'  
 "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 ALLEGHENY LAND & MINERAL CO.  
 Address CLARKSBURG W. VA. 26301  
 Farm AARON SCHWARTZMAN M.D. W. BRENT MAXWELL  
 Tract \_\_\_\_\_ Acres 2400 Lease No. \_\_\_\_\_  
 Well (Farm) No. \_\_\_\_\_ Serial No. A-730  
 Elevation (Spirit Level) 1164'  
 Quadrangle HOLBROOK NE  
 County DODDRIDGE District SOUTHWEST  
 Engineer Daniel L. Wheeler  
 Engineer's Registration No. 530 L.L.S.  
 File No. 162 Drawing No. I-321  
 Date 11-3-77 Scale 1" = 1000'

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

**WELL LOCATION MAP**  
 FILE NO. DOD-1880

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.  
 - Denotes one inch spaces on border line of original tracing.

47-017- DEC 15 1977



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
Oil and Gas Division

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OIL & GAS DIVISION  
DEPT. OF MINES

WELL RECORD

Quadrangle HOLBROOK  
Permit No. DOD-1880

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

Company Allegheny Land & Mineral Co.  
Address Box 1740, Clarksburg, WV 26301  
Farm W. B. Maxwell Acres 2.400  
Location (waters) South Fork-Hughes River  
Well No. A-730 Elev 1164'  
District Southwest County Doddridge  
The surface of tract is owned in fee by Aaron Schwartzman, M.D.,  
Address 2000 Nichols Ave., Washington, DC 20018  
Mineral rights are owned by The Union National Bank  
W.B. Maxwell Hrs. Clarksburg, WV  
Drilling Commenced January 4, 1978  
Drilling Completed January 7, 1978  
Initial open flow \_\_\_\_\_ cu. ft. \_\_\_\_\_ bbls.  
Final production \_\_\_\_\_ cu. ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ 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	308'	308'	Cement to surface
5 1/2			
4 1/2	2400'	2400"	" " 1690'
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Well was fractured by Halliburton 2-2-78

Final test: Open flow - 311 MCF

Rock Pressure - 1150# - 65 hrs.

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Weir Depth 2186-2304'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	30		
Clay & Shale			30	330		
Sand & Shale			330	690		
Lime			690	750		
Sand & Shale			750	1350		
Black Shale			1350	1418		
Sand & Shale			1418	1886		
Big Lime			-1886	1944		
Injun Sand			1944	2030		
Sand & Shale			2030	2186		
Weir Sand			2186	2304		
Shale			2304	2500		
total depth -			2500			(Driller)

PERFORATIONS:

2189 - 2303' - 31 holes

(over)

\* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

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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 November 18, 1977

Surface Owner Aaron Schwartzman, M. D.  
Address 2007 Nichols Ave., Washington, DC

Company Allegheny Land and Mineral Co.  
Address P. O. Drawer 1740, Clarksburg, WV

Mineral Owner The Union National Bank  
Address City in Fact of W. B. Maxwell Hrs. Clarksburg, West Virginia

Farm W. B. Maxwell Acres 2,400  
Location (waters) South Fork of Hughes River

Coal Owner same  
Address \_\_\_\_\_

Well No. A-730 Elevation 1164'  
District Southwest County Doddridge

Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

Quadrangle Holbrook

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 3-22-78.

INSPECTOR TO BE NOTIFIED Paul Garrett

Robert T. Hill  
Deputy Director - Oil & Gas Division

ADDRESS Clarksburg, W. Va.

PHONE 622-3871

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 see attached 19\_\_\_\_ by \_\_\_\_\_ made to \_\_\_\_\_ and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in \_\_\_\_\_ County, Book \_\_\_\_\_ Page \_\_\_\_\_

XX 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, ALLEGHENY LAND & MINERAL CO.  
(Sign Name) [Signature] Manager  
Land, Lease and Right of Way  
P. O. Drawer 1740  
Clarksburg  
West Virginia

\*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

DODD-1880 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."

47-017

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

**THIS IS AN ESTIMATE ONLY**  
**ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO XX DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME \_\_\_\_\_ NAME \_\_\_\_\_  
 ADDRESS \_\_\_\_\_ ADDRESS \_\_\_\_\_  
 TELEPHONE \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: 2,700' ROTARY XX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Berea  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS XX 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	20'	20'	cement to surface
13 - 10			
9 - 5/8			
8 - 5/8	300'	300'	cement to surface
7			
5 1/2			cement to 300' above
4 1/2	2700'	2700'	producing horizon
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 40-80 FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS none  
 IS COAL BEING MINED IN THE AREA? \_\_\_\_\_ 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

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OIL & GAS DIVISION  
DEPT. OF MINES

Under lease or grant dated the 7th day of October, 1898, by W. Brent Maxwell and Lillie J. Maxwell, his wife, unto the Carter Oil Company, subsequently Consolidated Gas Supply Corporation. This lease was recorded on the 15th day of September, 1899, in Deed or Lease Book 14 at Page 376, in the Office of the County Clerk of Doddridge County, West Virginia.

Allegheny Land and Mineral Company is vested with the drilling rights in the subject lease by virtue of an agreement dated the 3rd day of October, 1977 granted by Consolidated Gas Supply Corporation.