

7.5' OGIS Loc 15'  
 38° 30' 1.795 1.795  
 81° 30' 1.08W 64W 1.08W

Minimum Error of Closure 1 IN 200  
 Source of Elevation ... USGS BIA EL. 665 ARONS FORK ROAD  
 "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."

- New Location
- Drill Deeper
- Abandonment

Company D.C. MALCOLM INC.  
 Address 1006 Commerce Sq. CHARLESTON, W.VA.  
 Farm A. J. BRUEN ET AL. J.D. DODD  
 Tract \_\_\_\_\_ Acres 251 Lease No. \_\_\_\_\_  
 Well (Farm) No. 1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 871.0  
 Quadrangle 7.5' - BIG CHIMNEY NE  
15' - CHARLESTON  
 County KANAWHA District ELK  
 Engineer N.Z. Lepton  
 Engineer's Registration No. 1832  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date 6-30-77 Scale 1" = 1000'

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

WELL LOCATION MAP  
 FILE NO. KAN-2808

+ 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.

47-039 DEC 28 1977



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

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MAR 12 1979

OIL & GAS DIVISION  
DEPT. OF MINES

Quadrangle Big Chimney

Permit No. Kan 2808

039

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

Company D. C. Malcolm, Inc.  
Address 1006 Commerce Sq., Charleston, W. Va.  
Farm Bruen Hrs Acres 251  
Location (waters) Aaron's Fork  
Well No. 1 Elev. 883 KB  
District Elk County Kanawha  
The surface of tract is owned in fee by J. D. Dodd  
Address Frame, W. Va.  
Mineral rights are owned by Bruen Hrs.  
Address \_\_\_\_\_  
Drilling Commenced 3-22-78  
Drilling Completed 3-31-78  
Initial open flow \_\_\_\_\_ cu. ft. \_\_\_\_\_ bbls.  
Final production 255M cu. ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test 460 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 11 3/4"	253	253	To Surface
9 5/8			
8 5/8	1940	1940	100 SX
7			
5 1/2			
4 1/2			
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Acid frac Big Lime 1750 - 1755 w/491 bbls water (7% acid) 30,000#  
80/100, 30,000# 20 - 10.

Acidized Big Lime 1716 - 1721 w/3000 gals 15% Hcl.

Coal was encountered at none Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 168 Feet \_\_\_\_\_ Salt Water 1160 Feet \_\_\_\_\_  
Producing Sand Big Lime Depth 1716-1721, 1750-1755

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand and Shale			0	938		
Sand			938	970		
Sand and Shale			970	1040		
Sand			1040	1312		
Shale			1312	1346		
Sand			1346	1608		
Lime (Big Lime)			1608	1765		
Sand (Injun)			1765	1800		
Sand and Shale			1800	2170		
Shale (Coffee)			2170	2180		
Shale			2180	4966		
Lime			4966	5080		
Sand (Oriskany)			5080	5118		
Shale			5118	5139		
					Total Depth	
					Plugged back to 1835'	

Top Helderberg 5115  
(log-FC)

(over)

\* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

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DEC 7 - 1977

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE 7-22-77

Surface Owner J. D. Dodd

Company D. C. Malcolm, Inc.

Address Frame, W. Va.

Address 1006 Commerce Sq., Charleston, W. Va.

Mineral Owner Alexander Bruen Hrs.

Farm Bruen Heirs Acres 251

Address \_\_\_\_\_

Location (waters) Aarons Fork

Coal Owner None

Well No. 1 Elevation 871

Address \_\_\_\_\_

District Elk County Kanawha

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

Quadrangle Big Chimney 7.5'

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 4-09-78.

INSPECTOR  
TO BE NOTIFIED Martin Nichols

ADDRESS P.O. Box 553, Clendenin, WV

PHONE 548-6993

  
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 January 31 1907 by Alexander Bruen, et al made to United Fuel Gas Co. and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in \_\_\_\_\_ County, Book 22 Page 285

X \_\_\_\_\_ 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:

Very truly yours,  
(Sign Name)   
Well Operator

W. VA. OIL & GAS CONSERVATION COMMISSION  
1613 WASHINGTON STREET, EAST  
CHARLESTON, WEST VIRGINIA 25311

Address  
of  
Well Operator

1006 Commerce Square  
Street  
Charleston,  
City or Town  
West Virginia  
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

KAN-2808 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."

47-039

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 D. C. Malcolm  
ADDRESS \_\_\_\_\_ ADDRESS 1006 Commerce Sq., Charleston, WVa  
TELEPHONE \_\_\_\_\_ TELEPHONE 343-9593  
ESTIMATED DEPTH OF COMPLETED WELL: \_\_\_\_\_ ROTARY X CABLE TOOLS \_\_\_\_\_  
PROPOSED GEOLOGICAL FORMATION: Oriskany  
TYPE OF WELL: OIL \_\_\_\_\_ GAS X 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 <u>11 3/4</u>	<u>40'</u>	<u>40'</u>	<u>Surface</u>
9 - 5/8			
8 - 5/8	<u>1880'</u>		<u>75 SX</u>
7			
5 1/2			
4 1/2	<u>5075'</u>	<u>5075'</u>	<u>75 SX</u>
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 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