

New Location <input checked="" type="checkbox"/> Drill Deeper <input type="checkbox"/> Abandonment <input type="checkbox"/>	Minimum Error of Closure <u>1 IN 200</u> Source of Elevation <u>USGS Elev. 730' Road Intersection</u> <u>MOUTH OF LICK BRANCH</u> "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 <u>D.G. MALCOLM INC.</u> Address <u>1006 Commerce Sq. CHARLESTON, WV</u> Farm <u>LAWRENCE E. JONES</u> Tract _____ Acres <u>40.25</u> Lease No. _____ Well (Farm) No. <u>1</u> Serial No. _____ Elevation (Spirit Level) <u>812' 0</u> Quadrangle <u>7.5' ROMANCE KENNA R'</u> County <u>KANAWHA</u> District <u>POCA SE</u> Engineer <u>W.L. Sefton</u> Engineer's Registration No. <u>1832</u> File No. _____ Drawing No. _____ Date <u>4-26-80</u> Scale <u>1" = 500'</u>	<p align="center"> <b>STATE OF WEST VIRGINIA</b>          DEPARTMENT OF MINES          OIL AND GAS DIVISION          CHARLESTON</p> <p align="center"> <b>WELL LOCATION MAP</b>          FILE NO. <u>039-3616</u></p> <p>         + 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.       </p> <p align="right">         2300' <b>BEREA</b> </p>

66 ELK POCA



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Romance  
Permit No. 047-039-3616

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

Company D. C. Malcolm, Inc.  
Address 1006 Commerce Sq., Charleston, WV.  
Farm Lawrence Jones Acres 66  
Location (waters) Leatherwood Creek  
Well No. 1 Elev. 822KB  
District Poca County Kanawha  
The surface of tract is owned in fee by Lawrence Jones

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8	230	230	to surface
8 5/8			
7	1600	1600	60 SX
5 1/2			
4 1/2	4850	4850	to 2850'
3			
2			
Liners Used			

Address Charleston, W. Va.  
Mineral rights are owned by Lawrence Jones  
Address \_\_\_\_\_  
Drilling Commenced 3-14-81  
Drilling Completed 3-30-81  
Initial open flow 25000 cu. ft. \_\_\_\_\_ bbls.  
Final production 68000 cu. ft. per day \_\_\_\_\_ bbls.  
Well open 12 hrs. before test 575 RP.

Attach copy of cementing record.

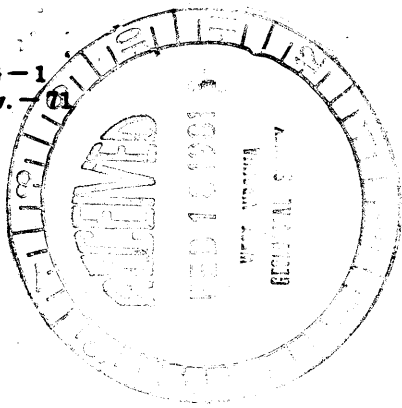
Well treatment details:  
Perforate 2904-4702, w/35 shots  
Frac w/1500 gal acid, 182 bbls water, 15000# 80/100, 30,000# 20/40 sd, 490,000 SCF Nitrogen

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Devonian Shale Depth 2140-4899

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			0	936		
Sand			936	1478		
Shale			1478	1548		
Lime (Big Lime)			1548	1716		
Sand (Injun)			1716	1738		
Sand & Shale			1738	2130		
Shale (Subury)			2130	2140		
Devonian Shale			2140	4899		
					Total Depth	

\* Indicates Electric Log tops in the remarks section.

OG-1  
Rev. 71



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

FEB 12 1981

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 January 14, 1981

Surface Owner Lawrence E. Jones

Company D. C. Malcolm, Inc.

Address Charleston, W. Va.

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

Mineral Owner Lawrence E. Jones

Farm Lawrence Jones Acres 66

Address \_\_\_\_\_

Location (waters) Leatherwood Creek

Coal Owner No coal

Well No. 1 Elevation 812

Address \_\_\_\_\_

District Poca County Kanawha

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

Quadrangle Romance 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 or drilling renewed. This permit shall expire if operations have not commenced by 10-13-81.

INSPECTOR

TO BE NOTIFIED Martin Nichols

ADDRESS Clendenin, W. Va.

PHONE 548-6993

*John B. Burgett*  
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 July 21 1977 by Lawrence E. Jones, et al made to D. C. Malcolm, Inc. and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Kanawha County, Book 199 Page 735

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,  
(Sign Name) *D. C. Malcolm*  
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

047-039-3616 - Ren.  
PERMIT NUMBER

**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,  
 TELEPHONE \_\_\_\_\_ TELEPHONE 343-9593 W. Va.  
 ESTIMATED DEPTH OF COMPLETED WELL: 2300 ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Berea  
 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	250	250	Surface
8 - 5/8			
7	1750	1750	25 SX
5 1/2			
4 1/2	2300	2300	75 SX
3			
2	2300	2300	Perf. Top
Liners			Perf. Bottom
			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



RECEIVED

MAY - 6 1980

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

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 May 5, 1980

Surface Owner Lawrence E. Jones

Company D. C. Malcolm, Inc.

Address Charleston, W. Va.

Address 1006 Commerce Square, Charleston, W. Va.

Mineral Owner Lawrence E. Jones

Farm Lawrence Jones Acres 66

Address \_\_\_\_\_

Location (waters) Leatherwood Creek

Coal Owner No coal

Well No. 1 Elevation 812

Address \_\_\_\_\_

District Poca County Kanawha

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

Quadrangle Romance 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 1-13-81.

INSPECTOR

TO BE NOTIFIED Martin Nichols

ADDRESS Clendenin, W. Va.

PHONE 548-6993

Deputy Director - Oil & Gas Division

GENTLEMEN:

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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. \*

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P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Address of Well Operator

Very truly yours,  
(Sign Name) [Signature]  
Well Operator

1006 Commerce Square  
Street

Charleston, W. Va.  
City or Town

State

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039  
KAN-3616

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."

Signed by [Signature]

SECRET

