



15' TOPO Longitude 81° 45'  
1.5' TOPO = 81° 47' 30"

ERNIE DONAHEW ET AL.  
152 ACS.

New Location   
 Drill Deeper   
 Abandonment

Minimum Error of Closure 1 IN 200  
 Source of Elevation USGS BM EL. 952 RT 87 SOUTHEAST OF LOC.  
 "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 KAISER EXPL. & MINING Co.  
 Address Box 98 RAVENSWOOD, W.VA.  
 Farm ERNIE DONAHEW ET AL.  
 Tract \_\_\_\_\_ Acres 152 Lease No. 3264  
 Well (Farm) No. DEK # 26 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 690'  
 Quadrangle 7.5' COTTAGEVILLE SE  
15' RAVENSWOOD  
 County JACKSON District UNION  
 Engineer N. G. Sefton  
 Engineer's Registration No. 1832  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date 3-18-77 Scale 1" = 500'

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

WELL LOCATION MAP  
 FILE NO. JAC-1398

+ 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.

47-035 MAY 26 1977



**RECEIVED**

MAR - 9 1978

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

**Oil and Gas Division**

**WELL RECORD**

Quadrangle Cottageville

Permit No. JAC 1398

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

Company Kaiser Exploration & Mining Co.  
Address Box 98, Ravenswood, W. Va.  
Farm Ernie Donohew Acres 152  
Location (waters) Left Fk. of Cow Run  
Well No. DEK #26 Elev. 690  
District Union County Jackson  
The surface of tract is owned in fee by \_\_\_\_\_  
Grant Donohew, et al  
Address Evans, W. Va. 25241  
Mineral rights are owned by Same  
Address \_\_\_\_\_  
Drilling Commenced June 15, 1977  
Drilling Completed June 24, 1977  
Initial open flow Show cu. ft. \_\_\_\_\_ bbls.  
Final production 200 MCFD, XXX per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test 1450 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	196	196	110 Sax
8 5/8			
7	2373	2373	75 Sax
5 1/2			
4 1/2	4601	4601	150 Sax
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perf. Oriskany 4524-26 & 4537-39 w. 32 shots - frac w/1200 bbl & 30,000# sand.  
Set bridge plug at 4462.

Perf. Marcellus 4400-4400 w/9 shots - no treatment lost perforating gun & wire line in hole - will attempt to fish out later. Presently only Marcellus is producible.

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water Hole Damp Feet 2900  
Producing Sand Oriskany Sand & Marcellus Depth 4524-39 & 4440-4400

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Shales and Sand			0	164		
Sand			164	205		
Red Shales and Sand			205	331		
Sand			331	348		
Red Rock			348	377		
Shale			377	412		
Sand			412	433		
Red Rock			433	458		
Sand			458	471		
Shale			471	488		
Sand			488	594		
Red Rock & Shales			495	578		
Sand			578	596		
Red Rock			596	640		
Shale			640	782		
Sand			782	842		
Red Rock			842	870		
Shale			870	988		
Salt Sand			988	1075		
Shale			1075	1160		
Sand			1160	1192		
Shale			1192	1287		
Sand			1287	1308		
Shale			1308	1494		

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet / 2	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			1494	1526		
Shale			1526	1588		
Maxon Sand			1588	1650		
Big Lime			1650	1792		
Shale			1792	1808		
Injun Sand			1808	1932		
Shale			1932	2270		
Coffee Shale			2270	2286		
Berea Sand			2286	2300		
Shale			2300	3452		
Brown Shale			3452	3899		
Shale			3899	4304		
Marcellus Shale			4304	4444		
Corniferous			4444	4522		
Oriskany			4522	4551		
Lime			4551	4610		

Date March 2, 19 78

APPROVED Kobeh A. Payne Owner  
 By Operations Manager  
 (Title)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE March 29, 1977

Surface Owner Grant Donohew, et ux  
Address Evans, WV 25241

Company Kaiser Exploration & Mining Co.  
Address Box 98, Ravenswood, WV

Mineral Owner Ernie Donohew, et al  
Address Rt. 1, Evans, WV 25241

Farm Ernie Donohew Acres 152  
Location (waters) Left Fk of Cow Run

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

Well No. DEK #26 Elevation 690

Coal Operator Not Operated

District Union County Jackson

Address \_\_\_\_\_

Quadrangle Cottageville 7½, Ravenswood 15'

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 9-11-77.

INSPECTOR  
TO BE NOTIFIED Richard Morris

ADDRESS Grantsville, W. Va.

PHONE 354-7259

Thomas J. Bell  
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 May 10 1969 by Ernie Donohew, et ux made to Commonwealth Gas Corp. and recorded on the 17th day of June 1969, in Jackson County, Book 109 Page 383

XXX 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) W. F. Wegener  
W. F. Wegener, Well Operator  
Owner's Representative  
Box 98  
Street  
Ravenswood  
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.

JAC-1398 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 25 and will carry out the specified requirements."

Signed by W. F. Wegener

47-035

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

PROPOSED WORK ORDER TO XXX DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME FWA Drilling Co. NAME Bill W. Backus  
 ADDRESS Box 448, Elkview, WV ADDRESS Box 1433, Charleston, WV  
 TELEPHONE 965-3379 TELEPHONE 342-3171  
 ESTIMATED DEPTH OF COMPLETED WELL: 4700 ROTARY XXX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS XXX 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	200	200	100 Sax = To Surface
8 - 5/8			
7	2400	650	75 Sax = 625'
5 1/2			
4 1/2	4700	4700	125 Sax = 1500'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS None Anticipated  
 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