



2.49 S ✓
3.44 W ✓
38 47 58
81 48 50

15 MIN TOPO Longitude 81° 45'
7.5 MIN TOPO 81° 47' 30''

New Location
Drill Deeper
Abandonment

Minimum Error of Closure 1 IN. 200
Source of Elevation U.S.G.S. BM. EL. 932' NORTH EAST OF
Well 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, WV
Farm KENNETH DONOHEW
Tract _____ Acres 20 Lease No. 3262
Well (Farm) No. DEK # 44 Serial No. _____
Elevation (Spirit Level) 897.0 SE
Quadrangle 7.5 MIN. COTTAGEVILLE
15 MIN. RAVENSWOOD
County JACKSON District UNION
Engineer N. L. Sefton
Engineer's Registration No. 1832
File No. _____ Drawing No. _____
Date 6-4-77 Scale 1" = 400'

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

WELL LOCATION MAP
FILE NO. JAC-1405

+ 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



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Rotary XXX Oil _____
Cable _____ Gas XXXXX
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Quadrangle Ravenswood 15'

Permit No. JAC-1405
47-035

Company Kaiser Exploration & Mining Co.
Address P.O. Box 98, Ravenswood, WV
Farm Kenneth Donohew Acres 20
Location (waters) Left Fork of Cow Run
Well No. DEK #44 Elev. 897
District Union County Jackson
The surface of tract is owned in fee by _____
Kenneth & Mary Donohew
Address Evans, WV
Mineral rights are owned by Kenneth & Mary
Donohew Address Same
Drilling Commenced 6/25/77
Drilling Completed 7/9/77
Initial open flow 121 MCFD _____ bbls.
Final production 1113 MCFD _____ bbls.
Well open 3 hrs. before test 1380 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	259	259	110 Sax=to surface
8 5/8			
7	2626	2626	75 Sax=625'
5 1/2			
4 1/2	4842	4842	150 Sax=1732'
3			
2			
Liners Used			

Well treatment details: Attach copy of cementing record. Halliburton
Perforated Oriskany at 4767½'-4768½' with 4 Omega Jet shots.

Completed natural - Did not fracture.

Coal was encountered at None Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Oriskany Depth 4767½ - 4768½'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	20		
Sand			20	30		
Red Shales			30	230		
Sand			230	242		
Shale			242	395		
Sand			395	307		
Shales & Red Rock			307	608		
Sand			608	615		
Red Rock			615	671		
Sand			671	682		
Red Rock			682	845		
Sand			845	866		
Red Rock			866	886		
Sand			886	912		
Red Rock			912	961		
Sand			961	976		
Red Rock			976	1015		
Sand			1015	1035		
Red Rock			1035	1122		
Shale			1122	1194		
Salt Sand			1194	1288		
Shale			1288	1360		
Sand			1360	1396		
Shale			1396	1538		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet <i>ft</i>	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			1538	1557		
Shale			1557	1672		
Sand			1672	1721		
Shale			1721	1771		
Maxon			1771	1841		
Shale			1841	1851		
Big Lime			1851	1990		
Shale			1990	2007		
Injun Sand			2007	2118		
Shale			2118	2468		
Coffee Shale			2468	2486		
Berea Sand			2486	2498		
Shale			2498	3652		
Brown Shale			3652	4111		
Shale			4111	4516		
Marcellus Shale			4516	4661		
Onondaga L.S.			4661	4736		
Oriskany Sand			4736	4769		
Helderberg L.S.			4769	TD		
Log Total Depth				4840'		

4661
897
3764

Date January 6, 19 78

APPROVED *John A. Pryce* Owner

By Staff Petroleum Geologist
(Title)



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JUN 28 1977

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 June 8, 1977

Surface Owner Kenneth & Mary Donohew
Address Evans, W. Va.

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

Mineral Owner Kenneth & Mary Donohew
Address Evans, W. Va.

Farm Kenneth Donohew Acres 20 ac.

Coal Owner Same as above
Address _____

Location (waters) Left Fork of Cow Run

Coal Operator Not operated
Address _____

Well No. DEK #44 Elevation 897

District Union County Jackson

Quadrangle Cottageville 7 1/2" Ravenswood 15'

THIS PERMIT MUST BE POSTED AT THE WELL SITE

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 10-22-77.

INSPECTOR
TO BE NOTIFIED Richard Morris

ADDRESS Grantsville, W. Va.

PHONE 354-7259

Robert T. Hill
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 19 69 by Kenneth Donohew, et ux made to Commonwealth Gas and recorded on the 17th day of June 19 69, in Jackson County, Book 109 Page 386

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, KAISER EXPLORATION & MINING COMPANY

(Sign Name) X W. F. Wegener

Well Operator
W. F. Wegener, Owner's Representative
PO 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.

BLANKET BOND

JAC-1405

PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12b and will carry out the specified requirements."

47-035

Signed by W. F. Wegener

**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 F W A Drilling Company NAME Bill W. Backus
 ADDRESS Box 448, Elkview, W. Va. ADDRESS Box 1433, Charleston, W. Va.
 TELEPHONE 965-3379 TELEPHONE 342-3171
 ESTIMATED DEPTH OF COMPLETED WELL: 4950 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	250'	250'	110 sax = to surface
8 - 5/8			
7	2625'	650'	75 sax = 625'
5 1/2			
4 1/2	4950'	4950'	150 sax = 1800'
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