



CERTIFICATE

"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."

Minimum degree of accuracy is one part in 200

Signed Frank J. Barker LL5#289

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY KAISER EXPLORATION & MINING COMPANY
 ADDRESS P.O. BOX 8 RAVENSWOOD, WEST VIRGINIA
 FARM CLARENCE ANDERSON
 MAP _____ ACRES 43 Ac LEASE NO. _____
 WELL (FARM) NO. 1 SERIAL NO. DEK 76
 ELEVATION (SPIRIT LEVEL) 783.15
 QUADRANGLE SANDYVILLE 7 1/2, RIPLEY 15'
 COUNTY JACKSON DISTRICT RAVENSWOOD
 POINT OF PROVEN ELEVATION Road Intersection El. 614
 DATE MAY 15, 1979 DRAWN BY Deep Well SCALE 1" = 500 FT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. **47-035-1511**

1 DENOTES LOCATION OF ALL UNITED STATES TOPOGRAPHIC
 MAPS SCALE 24,000 STATE AND LONGITUDE LINES
 BEING DIFFERENTIAL TO THE LINES AS SHOWN 62,500
 JUN 14 1979

4900 OR 15 RANT 6-6 Elk-Poca (192)



RECEIVED

FEB 20 1980

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

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

Quadrangle Sandyville 7 1/2

Permit No. 47-035-1511

Company KAISER EXPLORATION & MINING CO.
Address PO Box 8, Ravenswood, W. Va.
Farm Clarence Anderson Acres 43
Location (waters) Straight Fork
Well No. DEK 76 Elev. 783.15
District Ravenswood County Jackson
The surface of tract is owned in fee by Clarence Anderson
Address Wilding Road, Ravenswood, W. Va.
Mineral rights are owned by Same
Address _____
Drilling Commenced June 27, 1979
Drilling Completed July 6, 1979
Initial open flow 51 MCFD XXX ft. _____ bbls.
Final production 140 cu. ft. per day _____ bbls.
Well open 10 hrs. before test 930 RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 10-3/4	247	247	100 sax=to surf
9 5/8			
8 5/8			
7	2343	2343	165 sax=1400'
5 1/2			
4 1/2		4696	225 sax=2600'
3			
2		3950	
Liners Used			

Attach copy of cementing record.

Frac with 225 bbl sand laden fluid; broke at hydrostatic 15,000# of 80/100 sand 45,000# 20/40 and 522,000 SCF nitrogen. Average treating pressure 1730#.

140MCF

Coal was encountered at None Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Brown Shale Depth 3692-3935 - 23 holes

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	10		
Shale			10	29		
Sand			29	52		
Shale			52	300		
Sand			300	335		
Shale			335	555		
Sand			555	595		
Shale			595	663		
Sand			663	700		
Shale			700	1058		
Salt Sand			1058	1175		
Shale			1175	1260		
Sand			1260	1275		
Shale			1275	1315		
Sand			1315	1340		
Shale			1340	1563		
Broken Sand			1563	1666		
Big Lime			1666	1814		
Shale			1814	1910		
Injun Sand			1910	1925		
Shale			1925	2233		
Coffee Shale			2233	2261		
Berea Sand			2261	2263		

(over)

* Indicates Electric Log tops in the remarks section.

MAR 10 1980

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			2263	3420		
Brown Shale			3420	3938		
Shale			3938	4392		
Marcellus Shale			4392	4541		
Onondaga L. S.			4541	4635		
Oriskany Sand			4635	4644		
Helderberg L. S.			4644	4747		
Log Total Depth			4747'			

Date February 20 19 80

APPROVED Kaiser Exploration and Mining Company

By [Signature]
(Title)
Operations Manager



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

MAY 29 1979

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 May 25, 1979

Surface Owner Clarence Anderson
Address Wilding Rd, Ravenswood, WV 26164
Mineral Owner Same as above
Address Same as above
Coal Owner Same as above
Address Same as above
Coal Operator None
Address None

Company Kaiser Exploration and Mining Company
Address P. O. Box 8, Ravenswood, WV 26164
Farm Clarence Anderson Acres 43
Location (waters) Straight Fork
Well No. DEK 76 Elevation 783.15
District Ravenswood County Jackson
Quadrangle Sandyville

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 1-31-80

INSPECTOR
TO BE NOTIFIED Richard Morris
ADDRESS P. O. Box 372, Grantsville, WV 26147
PHONE 354-7259

[Signature]
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 October 14 1976 by Clarence
Anderson made to Devon Corporation, et al and recorded on the 22 day of October
9 76 in Jackson County, Book 141 Page 712

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:

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

Very truly yours,

(Sign Name) R. A. Pryce
Well Operator
P. O. Box 8
Street
Ravenswood
City or Town
West Virginia 26164
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

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

PROPOSED WORK ORDER TO _____ DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME NOT KNOWN AT THIS TIME _____ NAME Robert A. Pryce _____
 ADDRESS _____ ADDRESS P. O. Box 8, Ravenswood, WV 26164 _____
 TELEPHONE _____ TELEPHONE 273-5371 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 4900 _____ ROTARY _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany _____
 TYPE OF WELL: OIL _____ GAS _____ COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT PILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8 10 3/4	250	250	Cement back to surface
8 - 5/8			
7	2320	2320	125 sk = 570'
5 1/2			
4 1/2	4725	4725	125 sk = 1500'
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? _____ 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

2008 12/11/16