



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
MAR 19 1980

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 January 23, 1980

Surface Owner West Virginia Pulp and Paper Co.

Company Kaiser Exploration and Mining Company

Address P. O. Box 4216, Parkersburg, WV 26101

Address P. O. Box 8, Ravenswood, WV 26164

Mineral Owner William Warner, et al

Farm William Warner, et al Acres 378.63

Address 209 56th Street, Charleston, WV 25304

Location (waters) Sapsucker Run

Coal Owner Union Carbide Corporation

Well No. KEM 34 Elevation 761

Address 32 Sanderson Road, Clendenin, WV 25045

District Union County Mason

Coal Operator Union Carbide Corporation

Quadrangle Elmwood

Address 32 Sanderson Road, Clendenin, WV 25045

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 11-24-80.

Deputy Director - Oil & Gas Division

INSPECTOR

TO BE NOTIFIED Kenneth Butcher

ADDRESS RFD #1, Barboursville, WV 25504

PHONE 736-4885

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 September 13 19 78 by William Warner et al made to Kaiser Exploration & Mining Co. and recorded on the 3rd. day of October 19 78 in Mason County, Book 43 Page 767

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.

Very truly yours,

(Sign Name) R. A. Pryce
Well Operator

R. A. Pryce
Kaiser Exploration and Mining Company
Street

Address of Well Operator P. O. Box 8
City or Town

Ravenswood, West Virginia 26164
State

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

*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 BOMB

08/25/2023

**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 Not know at this time _____ NAME R. A. Pryce _____
 ADDRESS _____ ADDRESS P. O. Box 8, Ravenswood, WV 26164 _____
 TELEPHONE _____ TELEPHONE 273-5371 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 4750' _____ 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			
9 - 5/8 10 3/4"	200'	200'	Cement to surface
8 - 5/8			
7	2350'	2350'	125 sks = 570 feet
5 1/2			
4 1/2	4625'	4625'	125 sks = 1500 feet
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER _____ FEET _____

APPROXIMATE COAL DEPTHS _____ FEET _____

IS COAL BEING MINED IN THE AREA? Not at the present time 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.

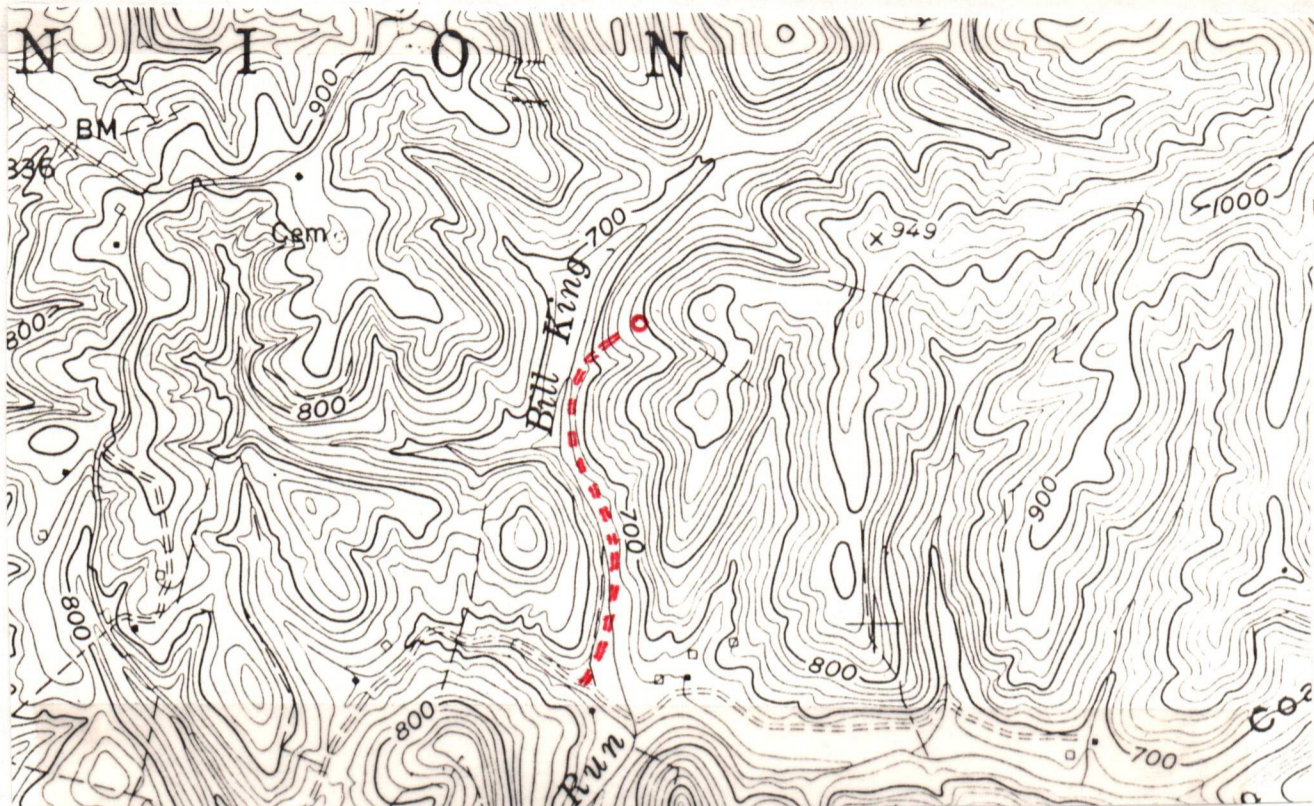
We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title

08/25/2023

Locate and show: (1) Well Location, (2) Access Road, (3) Well Site, (4) Drilling Pit and (5) Necessary Drainage Features.



COMPANY NAME: KAISER EXPLORATION AND MINING COMPANY PERMIT NO. _____

FARM: William Warner, et al DISTRICT: Union COUNTY: Jackson

STATEMENT OF RECLAMATION PLAN:

Proposed access road to the location will begin
at county road 33/8 and proceed up the bottom to
a point and up a grade to the location. A pit
will be constructed and a plastic liner will be
used to prevent seepage. Upon completion of the
well, as soon as practical, the pit will be filled
and the well location site will be returned to
its original grade, leaving only an access road for the operation of the well. Seeding,
mulching and fertilizing will be used in restoring this location.

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 OIL & GAS DIVISION
 DEPT. OF MINES

This plan was observed and agreed upon between the well operator, contractor and the district oil and gas inspector. 08/25/2023

Kenneth Butcher
Please indicate () "YES" if the district inspector was present.

"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."

Submitted By: K.A. P... Title: Operations Manager Date: 1/24/80



STATE OF WEST VIRGINIA
OIL AND GAS CONSERVATION COMMISSION
CHARLESTON 25305

Mr. Robert L. Dodd, Administrator
Department of Mines
Office of Oil and Gas

RE: APPLICATION FOR PERMIT #47-053-0223 TO DRILL DEEP WELL
COMPANY: KAISER EXPLORATION AND MINING COMPANY
FARM: WILLIAM WARNER ET AL
COUNTY: MASON DISTRICT: UNION

The application of the above company is APPROVED FOR ORISKANY COMPLETION
(APPROVED-DISAPPROVED)

Applicant HAS complied with the provisions of chapter twenty-
(HAS-HAS NOT)
two, article four-a, (§22-4A), of the code of West Virginia, nineteen
hundred and thirty-one (1931), as amended, Oil and Gas Conservation,
as follows:

1. *Provided a certified copy of duly acknowledged and recorded consent and easement from all surface owners; Yes*
2. *Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of the deep well, well name, and the name and address of the operator, and, ***
3. *Provided a plat showing that the proposed location is a distance of 620 feet from the nearest unit boundary and showing the following wells drilling to or capable of producing from the objective formation within 3000 feet of the proposed location: None*

**

47-053-0221 - 3150'
47-053-0186 - 4400'
47-053-0178 - 3500'
47-053-0184 - 4550'
47-053-0187 - 3100'

Very truly yours,

Thomas E. Huzzey
Commissioner



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JUL - 5 1984

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

Quadrangle Elmwood

Permit No. MAS-223

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

Company Kaiser Exploration and Mining Company
Address P. O. Box 8, Ravenswood, WV 26164
Farm William Warner, et al Acres 378.63
Location (waters) Sapsucker Run
Well No. KEM #34 Elev. 761
District Union County Mason
The surface of tract is owned in fee by _____
West Virginia Pulp and Paper Company
Address P. O. Box 4216, Parkersburg, WV 26101
Mineral rights are owned by William Warner, et al
Address 209 56th St, Charleston, WV
Drilling Commenced 9/6/80
Drilling Completed 9/12/80
Initial open flow 107 M cu. ft. -- bbls.
Final production 800 M cu. ft. per day -- bbls.
Well open 10 hrs. before test 1800 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. <u>H</u>			
13-10" 10 3/4	261' (KB)	261' (KB)	150 sks class A (to surface)
9 5/8			65 sks 50/50 poz
7	2492' (KB)	2492' (KB)	100 sks class A (1400' fillup)
5 1/2			225 sks 50/50 pp (2000' fillup)
4 1/2 <u>Q</u>	4778' (KB)	4778' (KB)	
3			
2 <u>V</u>		4679' (KB)	
Liners Used			

Well treatment details:

Attach copy of cementing record. (N)

Perforated pay zone from 4680'-4690' (K.B.), 4 holes/ft, 40 holes, .39" diameter; (Basin Surveys) Halliburton & B.J. Hughes on location 9/16/80; hydrofractured zone with 30,000# 80/100 sand, 21,000# 20/40 sand, 500 gal 28% HCL acid 170,000 SCF of nitrogen, 1688 hydraulic horsepower, 731 BBL of water; 34 BPM at 2100 psig treatment rate; opened well up.

Coal was encountered at -- Feet -- Inches
Fresh water -- Feet -- Salt Water -- Feet --
Producing Sand Oriskany Sandstone 475 Depth 4680'-4690' (K.B.)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil & Shale			0	100		
Sand			100	151		
Siltstone			151	268		
Shale			268	376		
Sand			376	394		
Shale			394	514		
Sand			514	523		
Shale			523	581		
Sand			581	600		
Red Rock			600	882		
Sand			882	906		
Shale			906	979		
Sand Sands <u>282</u>			979	1102		
Shale			1102	1195		
Sand			1195	1218		
Shale			1218	1250		
Sand			1250	1296		
Siltstone			1296	1371		
Shale			1371	1744		
Big Lime <u>345</u>			1744	1894		
Shale			1894	1953		
Big Injun <u>365</u>			1953	2076		
Shale			2076	2384		

08/25/2023

MAS-223

(over)

* Indicates Electric Log tops in the remarks section.

053-0223

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Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Coffee Shale			2384	2405		
Berea Sand	395		2405	2418		
Shale			2415	3487	Show/Gas	3451', 3560'
Brown Shale			3587	4040	Show/Gas	3925'
Shale			4040	4360		
Marcellus	455		4360	4597		
Onondaga Lime	461		4597	4668		
Oriskany Sand	475		4668	4700	Show/Gas	4684'
Helderberg Lime	485		4700	4789		
Total Depth			4789			

08/25/2023

Date November 12, 1980

APPROVED Karl A. P. Owner

By Operation Manager
(Title)

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

INSPECTOR'S WELL REPORT

Permit No. 17-053-0223

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
<u>Kaiser Exp. & Min. Co.</u>				
<u>Rarens wood, W. Va.</u>	Size			
<u>William Warner</u>	16			Kind of Packer _____
<u>Pen - 38</u>	13			
<u>Union</u> County <u>Mason</u>	10			Size of _____
<u>9-6-80</u>	8 1/4			<u>10 3/4 = 251 - Cemented to surface by Halipeerton</u>
<u>Pen 10 3/4 = pipe at 251 -</u>	6 3/4			Depth set _____
	5 3/16			
	3			Perf. top _____
	2			Perf. bottom _____
	Liners Used			Perf. top _____
				Perf. bottom _____
	CASING CEMENTED _____	SIZE _____	No. FT. _____	Date _____
	NAME OF SERVICE COMPANY _____			
	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Shoffner
Contr. Baudette Dullberg Co.
Remarks:

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SEP 11 1980

OIL & GAS DIVISION
DEPT. OF MINES

9-8-80
DATE

K.E. Butcher
500
DISTRICT INSPECTOR
08/25/2023

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD		CONSTRUCTION-LOCATION	RECOVERED	SIZE

Drillers' Names _____

Remarks: _____

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SEP 11 2023
OIL & GAS DIVISION
DEPT. OF MINES

I hereby certify I visited the above well on this date.

DATE

08/25/2023

DISTRICT WELL INSPECTOR

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STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
FINAL INSPECTION REQUEST
INSPECTOR'S COMPLIANCE REPORT

RECEIVED
 FEB 7 - 1984

OIL & GAS DIVISION
 DEPT. OF MINES

Permit No. 053 223
 Company Kaiser
 Inspector Jr.
 Date 2284

County Mason
 Farm Wagner
 Well No. 1-Ken-34

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification Prior to starting Work	_____	_____
25.04	Prepared before Drilling to prevent waste	_____	_____
25.03	High-Pressure Drilling	_____	_____
16.01	Required Permits at wellsite	_____	_____
15.03	Adequate Fresh Water Casing	_____	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	_____	_____
15.04	Adequate Cement Strength	_____	_____
23.02	Maintained Access Roads	_____✓	_____
25.01	Necessary Equipment to prevent Waste	_____✓	_____
23.03	Reclaimed Drilling Site	_____✓	_____
23.04	Reclaimed Drilling Pits	_____✓	_____
23.05	No surface or underground Pollution	_____✓	_____
7.03	Identification Markings	_____✓	_____

COMMENTS: _____

I have inspected the above well and (HAVE/HAVE NOT) found it to be in compliance with all of the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia.

SIGNED: *James T. ...*
 DATE: 2284 08/25/2023



State of West Virginia

Department of Mines
Oil and Gas Division
Charleston 25305

WALTER N. MILLER
DIRECTOR

THEODORE M. STREIT
ADMINISTRATOR

September 13, 1984

Kaiser Exploration & Mining Co.
P.O. Box 8
Ravenswood, W.Va. 26164

In Re: PERMIT NO: 053-0223 (3-24-80)

FARM: William Warner et al.

WELL NO: KEM-34

DISTRICT: Union

COUNTY: Mason

Gentlemen:

The FINAL INSPECTION REPORT for the above described well has been received in this office. Only the column check below applies:

_____ The well designated by the above permit number has been released under your Blanket Bond.

_____ Please return the enclosed cancelled single bond which covered the well designated by the above permit number to the surety company who executed said bond in your behalf, in order that they may give you credit on their records.

XXXXXX Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above captioned well will remain under bond coverage for life of the well.

Very truly yours,

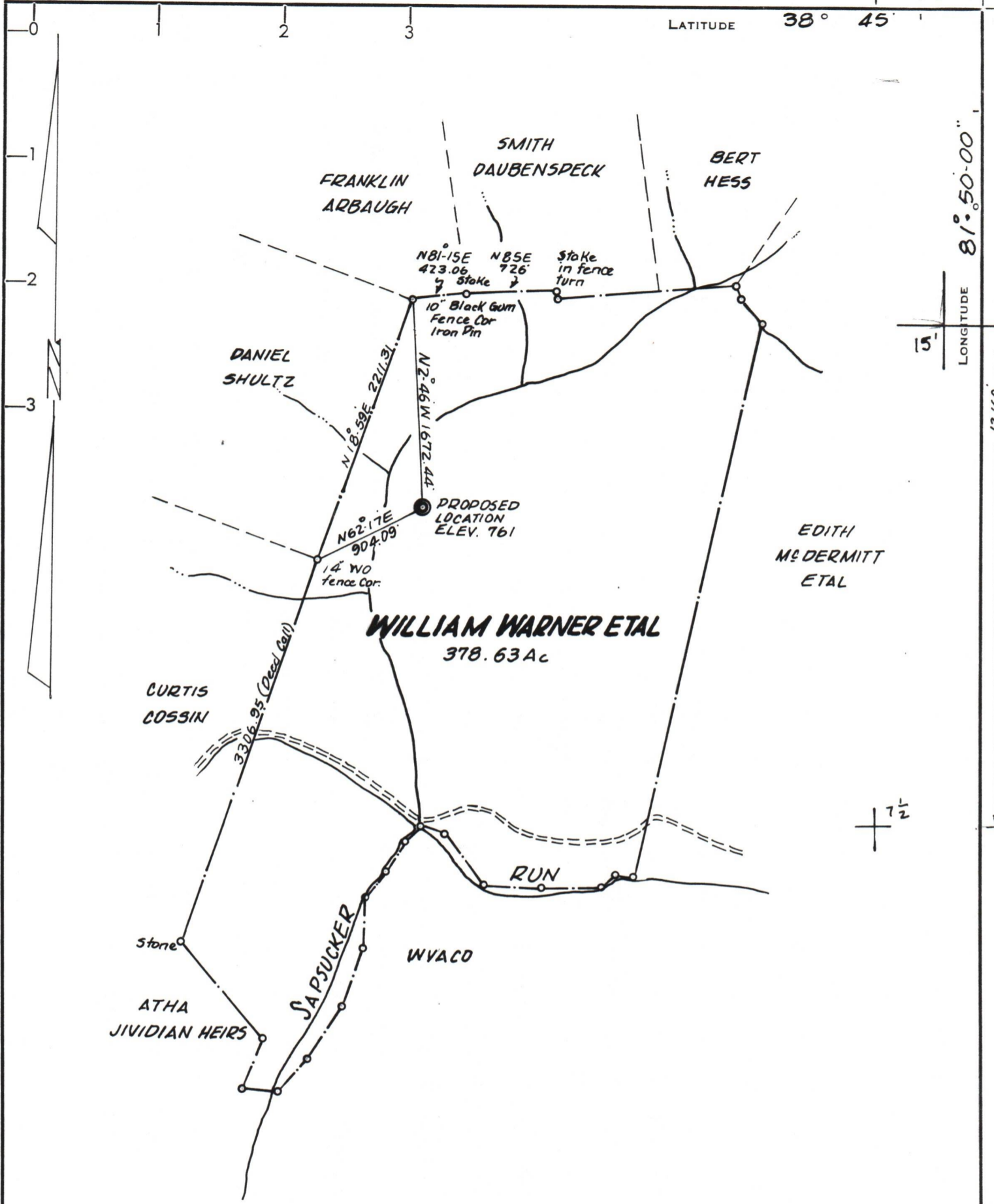
Theodore M. Streit, Administrator
Office of Oil & Gas-Dept. Mines

08/25/2023

A3

2-35

1,700



- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

"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 LLS#289

CERTIFICATE

COMPANY KAISER EXPLORATION & MINING COMPANY
 ADDRESS P.O. BOX 8, RAVENSWOOD, WEST VIRGINIA
 FARM WILLIAM WARNER ETAL
 MAP _____ ACRES 378.63 LEASE NO. _____
 WELL (FARM) NO. 1 SERIAL NO. KEM 34
 ELEVATION (SPIRIT LEVEL) 761
 QUADRANGLE ELMWOOD 7 1/2 WINFIELD 15'
 COUNTY MASON DISTRICT UNION
 POINT OF PROVEN ELEVATION USGS BM. 691
 FILE NO. _____ DRAWING NO. _____
 DATE JAN. 21, 1980 SCALE 1" = 1000

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION 08/25/2023
 CHARLESTON
WELL LOCATION MAP
053-0223
 FILE NO. _____
 + 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.

4750 Criskany