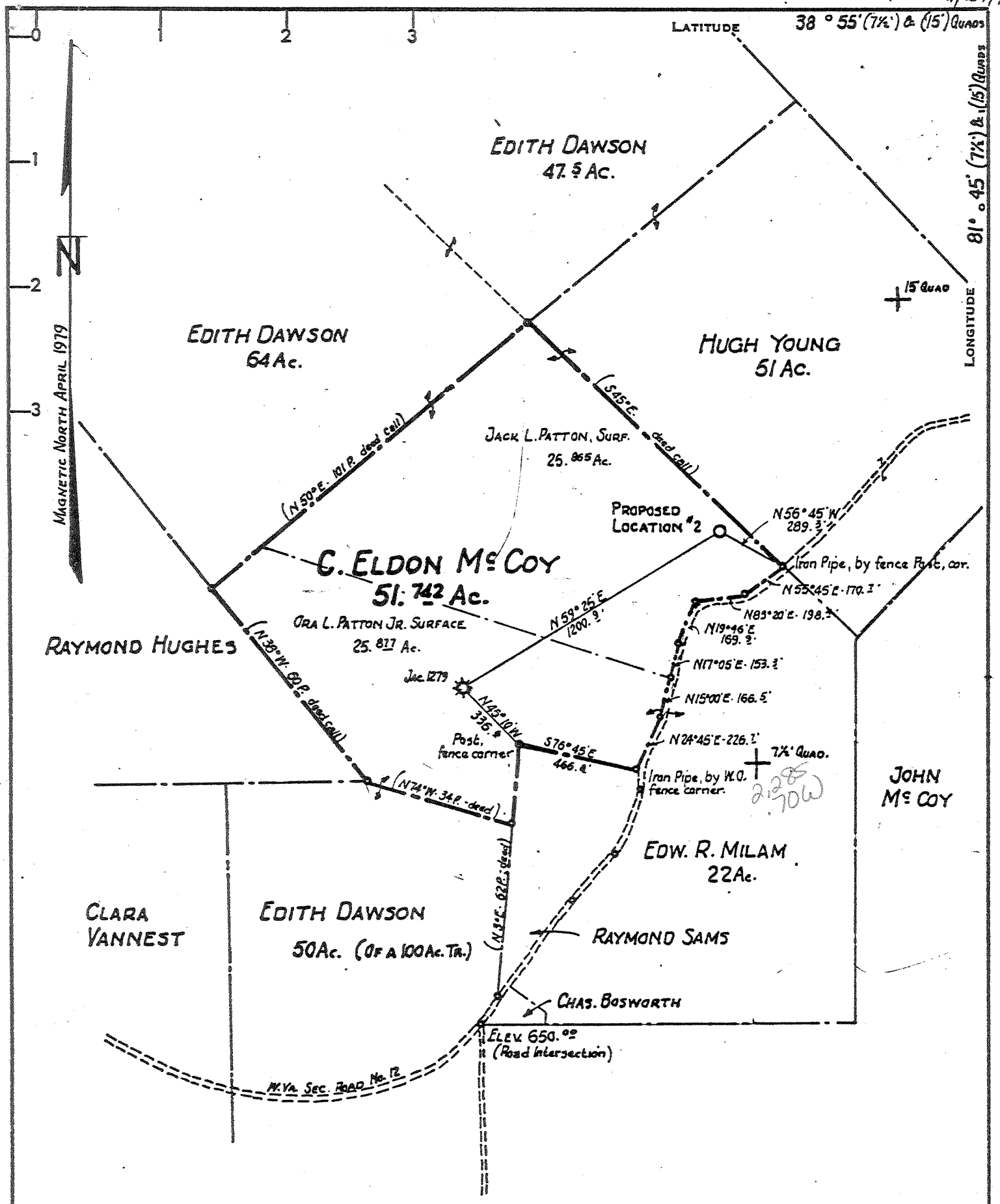


4/27/79



### 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 William A. Gravely L.L.S. # 116

(N.B. # 116 Pg. 78)

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

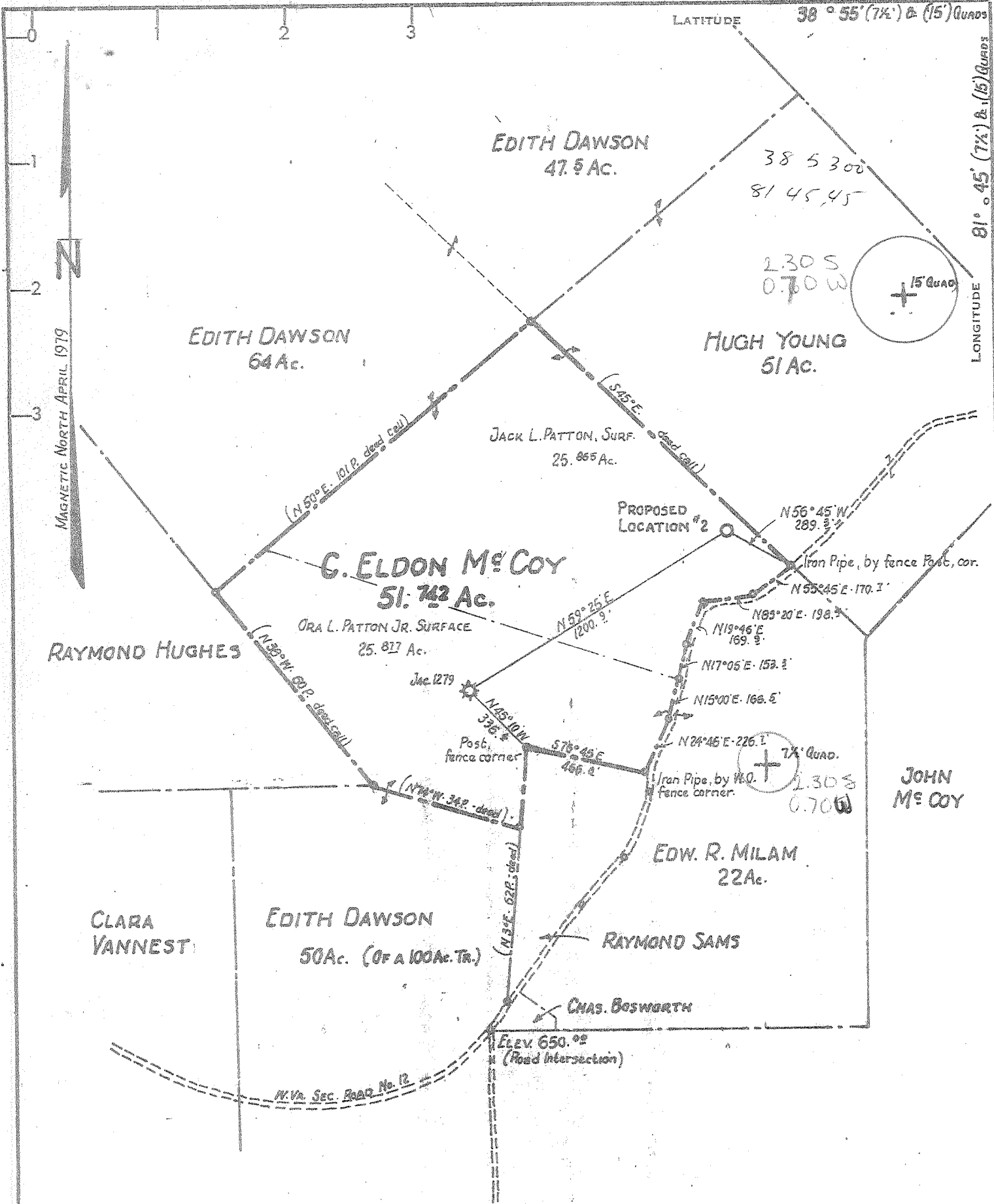
COMPANY KAISER EXPLORATION & MINING CO.  
 ADDRESS P.O. Box 8, Ravenswood, W.Va. 26164  
 FARM C. ELDON M<sup>C</sup> COY ETAL, JACK L. PATTON  
 MAP \_\_\_\_\_ ACRES 286.242 LEASE NO. \_\_\_\_\_  
 WELL (FARM) NO. 2 SERIAL NO. DEK-64  
 ELEVATION (SPIRIT LEVEL) 729.4-729  
 QUADRANGLE RAVENSWOOD N.E. (RAVENSWOOD I: 24,000 QUAD.)  
 COUNTY JACKSON DISTRICT UNION  
 POINT OF PROVEN ELEVATION U.S.G.S. DATUM (As Shown above)  
 FILE NO. \_\_\_\_\_ DRAWING NO. \_\_\_\_\_  
 DATE APRIL 18, 1979 SCALE 1" = 500'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
 WELL LOCATION MAP  
 FILE NO. 47-035-1502P

+ 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.

4700' Oriskany DEAR

MAR 23 1981



**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

*William A. Grivley* L.L.S. # 116

(N.B. # 116 Pg. 78)

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY **KAISER EXPLORATION & MINING CO.**  
 ADDRESS **P.O. Box 8, Ravenswood, W. Va. 26164**  
 FARM **C. ELDON Mc COY ET AL., Jack L. Patton**  
 MAP \_\_\_\_\_ ACRES **286.842** LEASE NO. \_\_\_\_\_  
 WELL (FARM) NO. **2** SERIAL NO. **DEK-64**  
 ELEVATION (SPIRIT LEVEL) **729.4 729 EC**  
 QUADRANGLE **RAVENSWOOD N.E. (RAVENSWOOD I: 24000 QUAD.)**  
 COUNTY **JACKSON** DISTRICT **UNION**  
 POINT OF PROVEN ELEVATION **U.S.G.S. DATUM (As Shown above)**

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

WELL LOCATION MAP

FILE NO. **47-035-1502**

DATE **APRIL 18, 1979** DRAWING NO. \_\_\_\_\_ SCALE **1" = 500'**

INDICATES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS SCALE 1" TO 24,000' LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY DOTTED LINES AS SHOWN  
 CHECKS ONE POINT TO THE CENTER OF THE WELL  
 A. Ripley  
 MAY 22 1979

4700' Driskany Deep Well 6-4 ~~Franklin~~ (342)



فبراير 20 1980

FEB 20 1980

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
**Oil and Gas Division**  
**WELL RECORD**

OIL & GAS DIVISION  
DEPT. OF MINES  
Rotary XXX Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas XXX  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Quadrangle Ravenswood  
Permit No. 47-035-1502

Company KAISER EXPLORATION & MINING CO.  
Address PO Box 8, Ravenswood, W. Va.  
Farm C. Eldon McCoy Acres 286.24  
Location (waters) Crooked Fork  
Well No. DEK 64 Elev. 729.4  
District Union County Jackson  
The surface of tract is owned in fee by J. L. Patton  
805 Henrietta St.  
Address Ravenswood, WV  
Mineral rights are owned by C. Eldon McCoy  
Rt. 2 Address Bx 108F Ravenswood, WV  
Drilling Commenced May 23, 1979  
Drilling Completed June 1, 1979  
Initial open flow 1/2 MCFD XXXX bbls.  
Final production 30 M cu. ft. per day \_\_\_\_\_ bbls.  
Well open 10 hrs. before test 500 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 10-3/4	236	236	100 sax=to surf
9 5/8			
8 5/8			
7	2348	2348	165 sax=1400'
5 1/2			
4 1/2		4688	225 sax=2600'
3			
2		3892	
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perforated 4 1/2" casing 4629-4631 w/16 shots  
Frac Oriskany with 894 bbls water and 35000# sand - No result.  
Fractured Brown Shale with 15,000# 80/100 sand and 45,000# 20/40 sand; total 340 bbl.  
540,000 SCF of nitrogen; broke at 2500 psig; treated at 1850 psig at 9 bbl minute.

Coal was encountered at None Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Brown Shale Depth 25 holes 3719'-3941'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	16		
Shale			16	127		
Sand			127	280		
Shale			280	340		
Sand			340	350		
Shale			350	475		
Sand			475	500		
Shale			500	610		
Sand			610	662		
Shale			662	1030		
Sand			1030	1077		
Shale			1077	1090		
Sand			1090	1155		
Shale			1155	1260		
Sand			1260	1285		
Shale			1285	1340		
Sand			1340	1365		
Shale			1365	1425		
Sand			1425	1465		
Shale			1465	1520		
Sand			1520	1550		
Shale			1550	1570		
Sand			1570	1605		

(over)

\* Indicates Electric Log tops in the remarks section.

MAR 10 1980

Formation	Color	Hard or Soft	Top Feet 24	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			1605	1660		
Maxon Sand			1660	1682		
Big Lime			1682	1800		
Shale			1800	1836		
Injun Sand			1836	1960		
Shale			1960	2269		
Coffee Shale			2269	2291		
Berea Sand			2291	2294		
Shale			2294	3460		
Brown Shale			3460	3946		
Shale			3946	4368		
Marcellus Shale			4368	4518		
Onondaga L. S.			4518	4592		
Oriskany Sand			4592	4632		
Heiderberg L. S.			4632	4739		
Log Total Depth			4739'			

Date February 20 1980

APPROVED Kaiser Exploration and Mining Company

By Ralph A. P...

(Title)  
Operations Manager



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
APR 27 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 April 23, 1979

Surface Owner Jack L. Patton  
Address 805 Henrietta Street, Ravenswood, WV  
Mineral Owner C. Eldon McCoy, et al  
Address Route 2, Box 108-F, Ravenswood, WV  
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 C. Eldon McCoy Acres (Unit) 286.242  
Location (waters) Crooked Fork  
Well No. 2-DEK #64 Elevation 729.4  
District Ravenswood County Jackson  
Quadrangle Ravenswood N. E.

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

INSPECTOR

for drilling. This permit shall expire if  
operations have not commenced by 1-2-80

TO BE NOTIFIED Richard Morris

Deputy Director - Oil & Gas Division

ADDRESS P. O. Box 372, Grantsville, WV 26147

PHONE 354-7259

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 February 20 1976 by Clarence Eldon McCoy, et al made to Devon Corporation, et al and recorded on the 28th day of February 1976 in Jackson County, Book 136 Page 410

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

Very truly yours,

(Sign Name)

R. A. Pryce Well Operator Operations Manager  
P. O. Box 8

Address  
of  
Well Operator

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

47-035-1502 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 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: 4700 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	250	250	Cement to surface
8 - 5/8			
7	2300	2300	125 sks = 570 feet
5 1/2			
4 1/2	4700	4700	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 \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? None 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

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

RECEIVED  
MAY -7 1981

OIL & GAS DIVIS

AFFIDAVIT OF PLUGGING AND FILLING WELL OF MINES

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE, ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

No Operation  
COAL OPERATOR OR OWNER

Kaiser Exploration and Mining Company  
NAME OF WELL OPERATOR

---  
ADDRESS

P. O. Box 8, Ravenswood, WV 26164  
COMPLETE ADDRESS

No Operation  
COAL OPERATOR OR OWNER

April 7, 19 81  
WELL AND LOCATION

---  
ADDRESS

Ravenswood District

Jack L. Patton  
LEASE OR PROPERTY OWNER

Jackson County

805 Henrietta St., Ravenswood, WV 26164  
ADDRESS

Well No. DEK #64

C. Eldon McCoy Farm

STATE INSPECTOR SUPERVISING PLUGGING Richard Morris

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Jackson } SS:  
Richard L. Coty

and Robert A. Pryce  
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Kaiser Exploration and Mining Co. well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 2nd day of April, 1981, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			CSG PULLED	CSG LEFT IN
Devonian Brown Shale Top @ 3719' (KB)	3500'	4 1/2" Permanent Bridge Plug		
	3500'-3300' Class A cement			
	3300'-1900' 6% Ge1		1800' (4 1/2")	2896' (4 1/2")
	1900'-1500' Class A cement			
	1500'-1100' 6% Ge1			
	1110'- 900' Class A cement		1000' (7")	1354' (7")
	900'- 300' 6% Ge1			
	300' - Surface Class A cement		0'	250' (10 3/4")
COAL SEAMS	None			
(NAME)		DESCRIPTION OF MONUMENT		
(NAME)		6" Steel monument, properly identified,		
(NAME)		2.5 feet above ground level		
(NAME)				

and that the work of plugging and filling said well was completed on the 7th day of April, 19 81.

And further deponents saith not.

Richard L. Coty  
Robert A. Pryce

Sworn to and subscribed before me this 5th day of May, 19 81.

Naith Ann Halbert

My commission expires:  
December 1, 1985

Notary Public.

Permit No. 035-1502