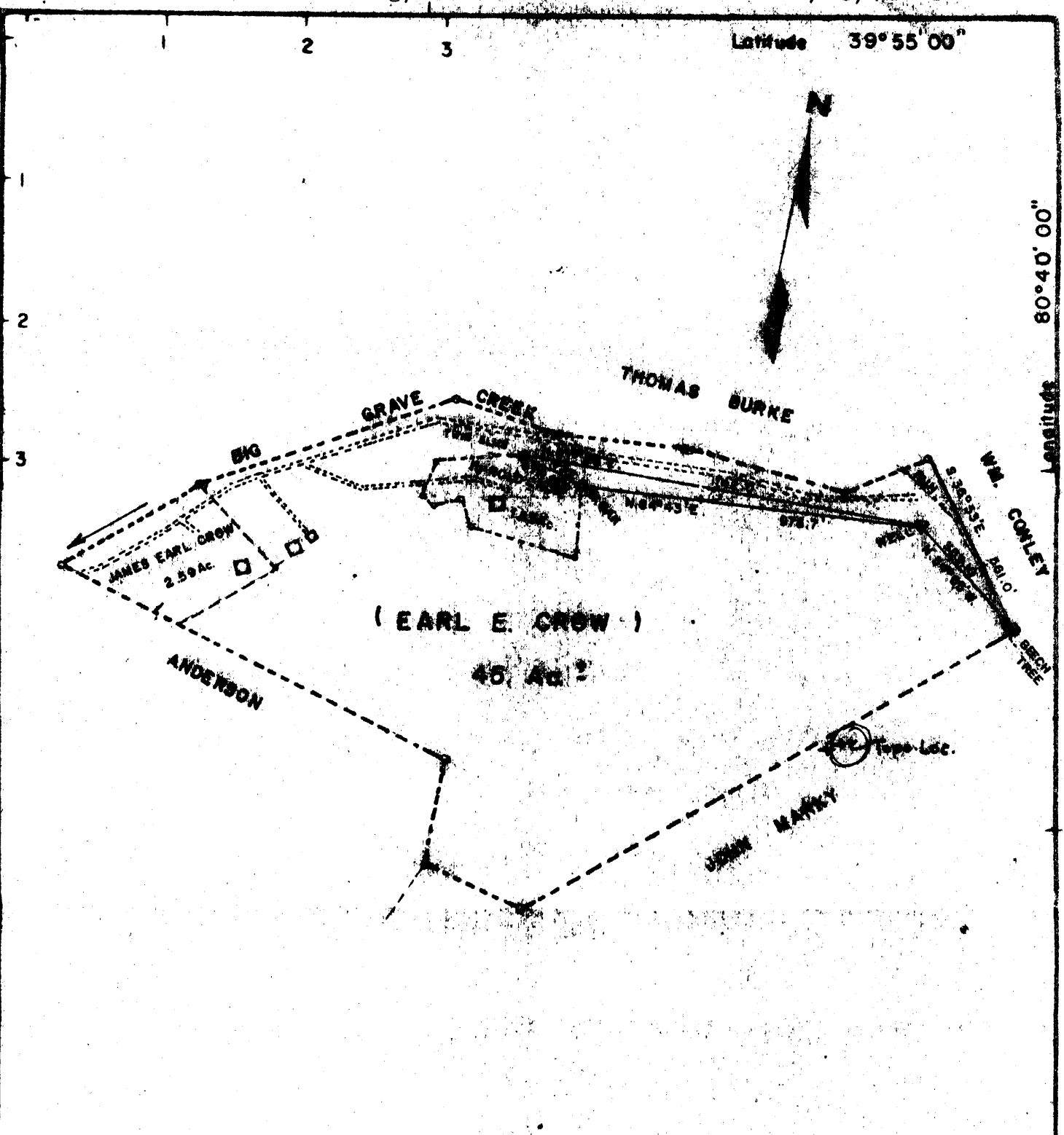


Latitude 39° 55' 00"

Longitude 80° 40' 00"



Minimum Error of Closure 1/2500

Elevation Bubble Under 1 Foot

Source of Elevation U.S.G.S. B.M. at ROSSYS ROCK ELEV. = 776

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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in Paragraph 5 by the Oil and Gas Division of the Department of Mines, Regulations.

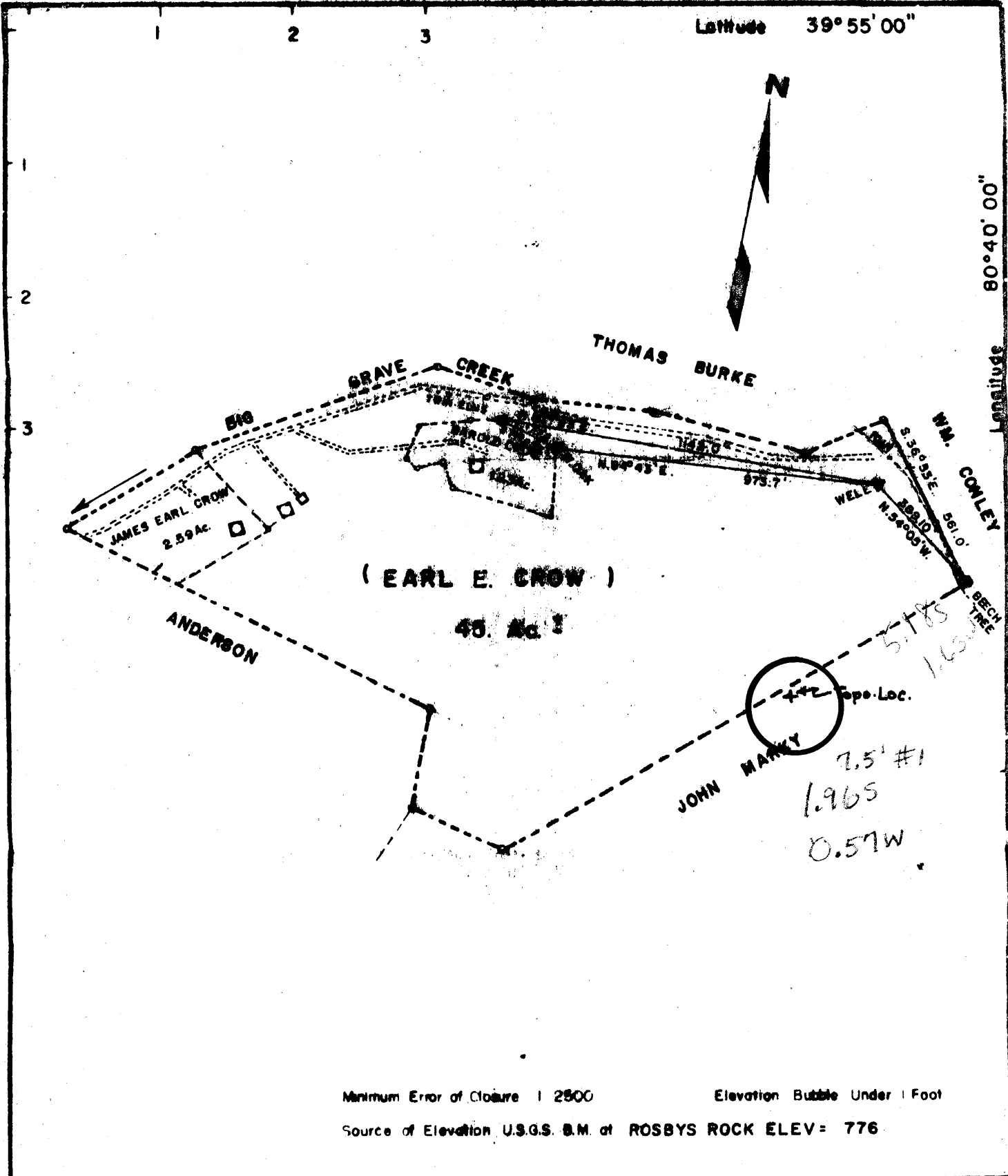
New Location
 Drill Deeper
 Abandonment

Company **KENTUCKY CENTRAL & COMPANY**
 Address **P.O. BOX 181 RIDGEWOOD-MARSHALL**
 Farm **EARL E. CROW**
 Tract **CROW** Acres **45.1** Lease No. _____
 Well (Farm) No. **EARL CROW** Serial No. _____
 Elevation (Spirit Level) **804**
 Quadrangle **CAMERON, W.C.** W. VA.
 County **MARSHALL** District **CLAY**
 Engineer **John R. Schellhove**
 Engineer's Registration No. **5214**
 File No. _____ Drawing No. _____
 Date **1/5/73** Scale **1" = 400'**

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

WELL LOCATION MAP
 FILE NO. **77-554**

+ 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.



Minimum Error of Closure 1/2500 Elevation Bubble Under 1 Foot
 Source of Elevation U.S.G.S. B.M. at ROSBYS ROCK ELEV = 776

New Location
 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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.
 The accuracy of this survey is within the limits and as prescribed in Paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

Company KENTUCKY CENTRAL & COMPANY
 Address P.O. BOX 161 RIDERWOOD-MARYLAND
 Farm EARL E. CROW
 Tract CROW Acres 45.1 Lease No. _____
 Well (Farm) No. EARL CROW No. Serial No. _____
 Elevation (Spirit Level) 804
 Quadrangle CAMERON W. VA. WC
 County MARSHALL District CLAY
 Engineer John R. Schellhorn
 Engineer's Registration No. 8214
 File No. _____ Drawing No. _____
 Date 1/5/73 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. Mar-554

+ 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.



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MAR 13 1973

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORDS

Cameron

Quadrangle Glen Easton, West Va.

Mars -
Permit No. 554

Rotary _____ Oil _____
Cable X Gas _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ **DRY** (Mud) _____

Company Kentucky Central and Company
Address P.O. BOX 161, Riderwood, Md. 21139
Farm Earl Crowe #1 Acres 45[±]
Location (waters) Big Graves Creek
Well No. #1 Elev. 804'
District Clay County Marshall
The surface of tract is owned in fee by Earl Crowe

Address Glen Easton, West Virginia
Mineral rights are owned by Kentucky Central
P.O. Box 161 Address Riderwood, Md. 21139
Drilling Commenced ~~12/28/72~~ 2-12-73
Drilling Completed 2-28-73
Initial open flow _____ cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ 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"			
9 5/8			
8 5/8	450	450	To Surface
7	1059'	1059'	
5 1/2			
4 1/2			
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	8		
Slate & Shell	Water	30&80	8	95		
Black Slate			95	100		
Slate & Shells			100	302		
Black Slate & Coal			302	318		450 of 8 5/8 casing run and cemented through coal to service
Lime			318	390		1059 of 7 O.D. casing
Coal			390	396		
Slate			396	424		
Red rock			424	430		
Slate & Shell			430	490		
Red Shale			490	550		
Slate & Lime			550	745		
Black Slate			745	760		
Slate & Lime			760	780		
Red Rock			780	788		
Slate & Lime			788	864		
Sand			864	884		
Slate & Lime			884	910		
Sand ?			910	942		
Slate			942	950		
Broken Sand Gas			950	955		
Shale			955	1055		
Lime (Gritty)			1055	1090		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet <i>S</i>	Bottom Feet	Oil, Gas or Water	* Remarks
black slate & shell			1090	1120		
Water		<i>Dunkard?</i>	1120	1164		
Slate			1164	1173		
Sand			1173	1219		
slate black			1219	1228		
Sand	<i>Gas?</i>		1228	1233		
fine			1233	1277		
Sand	<i>2nd Cow Run?</i>		1277	1310		
fine			1310	1340		
Black slate & shells			1340	1390		
liney			1390	1441		T.D.
<i>Conemaugh Pottsville T.D.</i>						
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: right;">1441</div> <div style="text-align: left;"> $\begin{array}{r} 1441 \\ 804 \\ \hline 637 \end{array}$ </div> </div>						

Date _____, 19____

APPROVED _____, Owner

By _____

(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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JAN 11 1973

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 1/9/73

Surface Owner Earl Crow
Address Glen Easton, West Va.
Mineral Owner Kentucky Central and Company
Address P.O. Box 161, Riderwood, Md. 21139
Coal Owner Hannah Coal Company
Address Moundsville, West Va. 26041
Coal Operator Hannah Coal Company
Address Moundsville, West Va. 26041

Company KENTUCKY CENTRAL AND COMPANY
Address P.O. Box 161, Riderwood, Md. 21139
Farm Earl E. Crowe Acres 45⁺
Location (waters) Big Graves Creek
Well No. #1 Elevation 804'
District Clay County Marshall
Quadrangle Glen Easton, West Va.

M. Arthur

INSPECTOR TO BE NOTIFIED Null
Box 296
Hundred PH: 775-5611
wva. 26575

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 5-18-73.

Robert K. Hodge
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 November 21 1972 by Earl E. Crow made to Cecil Tedrow & Ezra Hoge and recorded on the 4th day of Dec. 1972 in Marshall County, Book 427 Page 733

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 1/9/73 day before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

CONVEYED TO KENTUCKY CENTRAL
AND COMPANY BY ASSIGNMENT FROM
CECIL TEDROW & EZRA HOGE.

Very truly yours,
KENTUCKY CENTRAL AND COMPANY
(Sign Name) *C. H. Schuler*
Well Operator

Address
of
Well Operator

P. O. BOX 161
Street
RIDERWOOD
City or Town
MARYLAND 21139
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.

BOND DRILL

Mars-554 PERMIT NUMBER

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

PROPOSED WORK ORDER TO XXXXX DRILL. _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME H.H. Elder & Son NAME John T. Madden, Esq.
 ADDRESS Cairo, West Virginia ADDRESS 635 Court Avenue; Moundsville
 TELEPHONE _____ ADDRESS West Virginia, 26041 TELEPHONE 304-845-1171
 ESTIMATED DEPTH OF COMPLETED WELL: 900 ROTARY _____ CABLE TOOLS yes
 PROPOSED GEOLOGICAL FORMATION: Cow Sand
 TYPE OF WELL: OIL _____ GAS XXXX 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			
8 - 5/8		450 feet	
7			
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS 410 feet
 IS COAL BEING MINED IN THE AREA? yes BY WHOM? Hannah Coal Co.

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 DIVISION

RECEIVED
MAR 29 1973
OIL & GAS
DEPT. OF MINES

AFFIDAVIT OF PLUGGING AND FILLING WELL

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.

Hannah Coal Company
COAL OPERATOR OR OWNER
Moundsville, West Va. - 26041
ADDRESS
COAL OPERATOR OR OWNER
ADDRESS
Earl E. Crowe
LEASE OR PROPERTY OWNER
Glen Easton, West Virginia
ADDRESS

Kentucky Central and Company
NAME OF WELL OPERATOR
P. O. Box 161, Riderwood, Md., 21133
COMPLETE ADDRESS
March 6, 19 73
WELL AND LOCATION
Clay District
Marshall County
Well No. #1 - 554
Earl E. Crowe Farm

STATE INSPECTOR SUPERVISING PLUGGING Harry Stevens

AFFIDAVIT

STATE OF WEST VIRGINIA, }
County of Ritchie } ss:

H. H. Elder & Son and
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 Kentucky Central and Company well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 19th day of March, 19 73, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD	FILLING MATERIAL	PLUGS USED	CASING	
			CSG PULLED	CSG LEFT IN
FORMATION		SIZE & KIND		
1170 - 1145	Cement			
1145 - 940	Gel 6%			
940 - 885	Cement			
885 - 426	Gel 6%			
426 - 282	Cement			
282 - 20	Gel			
20 to Surface	Cement			
COAL SEAMS	DESCRIPTION OF MONUMENT			
(NAME)				
(NAME)				
(NAME)				
(NAME)				

and that the work of plugging and filling said well was completed on the 20th day of March, 19 73.

And further deponents saith not.

Sworn to and subscribed before me this 20th day of March, 19 73.

My commission expires:

May 9, 1973

H. H. Elder & Son
H. H. Elder
Notary Public

Notary Public.

Permit No. MARS-554-P