

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. Barber L.S. #289

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

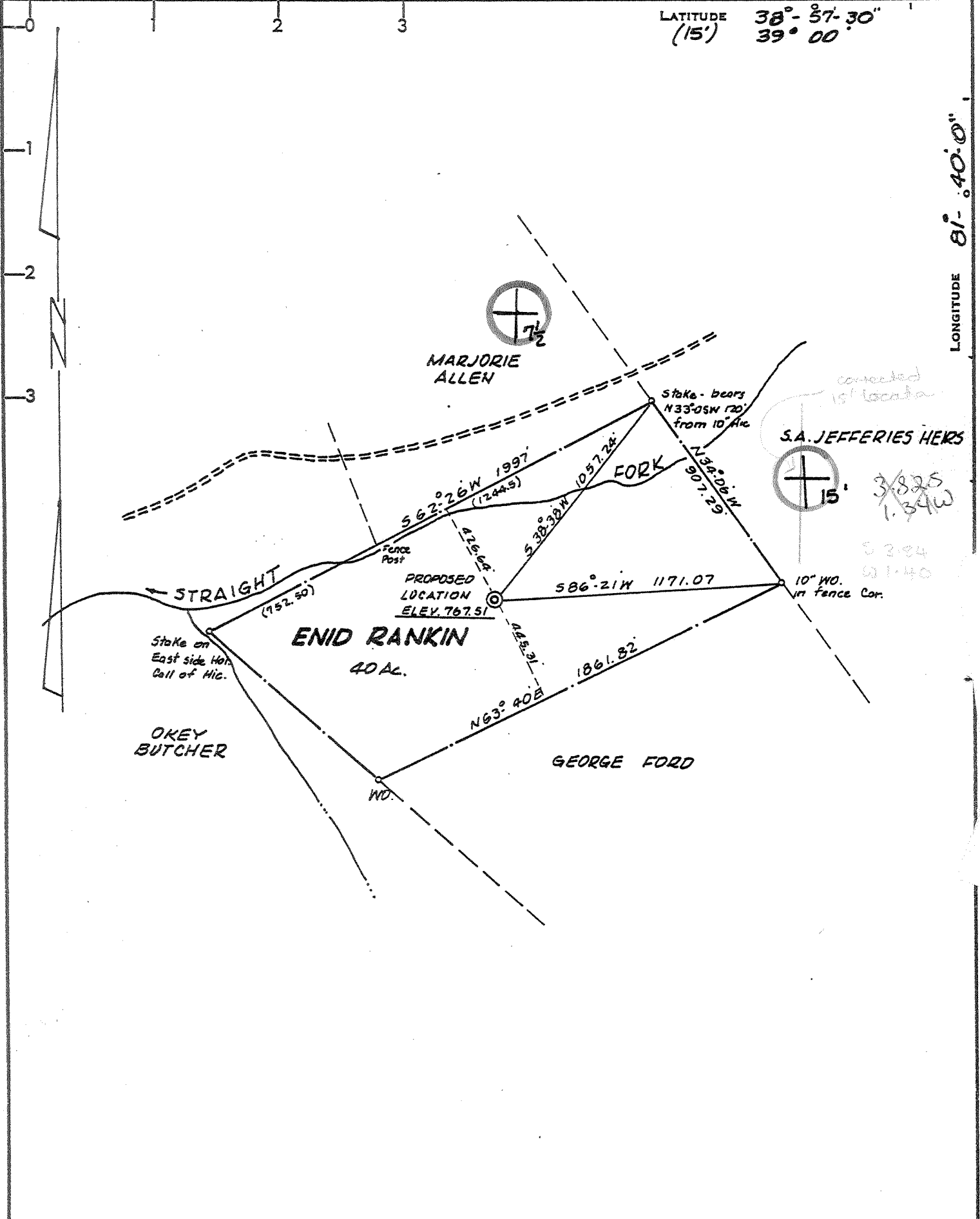
COMPANY KAISER EXPLORATION & MINING COMPANY
 ADDRESS P.O. BOX 8, RAVENSWOOD, WEST VIRGINIA
 FARM ENID RANKIN
 MAP _____ ACRES 40 LEASE NO. _____
 WELL (FARM) NO. 1 SERIAL NO. DEK 75
 ELEVATION (SPIRIT LEVEL) 767.51
 QUADRANGLE SANDYVILLE 7 1/2, RIPLEY 15'
 COUNTY JACKSON DISTRICT RAVENSWOOD
 POINT OF PROVEN ELEVATION Rd. Intersection EL. 614
 FILE NO. _____ DRAWING NO. _____
 DATE APR. 24, 1979 SCALE 1" = 500 FT.

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP
 FILE NO. 47-035-1500
 + 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.
 MAY 22 1979

Deep Well 4730' Comp. 6-6 Elk. Poca (192)

LATITUDE 38° 57' 30"
(15') 39° 00'

LONGITUDE 81° 40' 0"



corrected
1st locata
3/825
1.34W
5214
5140

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

WELL LOCATION MAP

FILE NO. 47-035-1500-A

+ 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.
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4730' Crispany DEEP WELL

APR 28 1981

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

AUG 06 1981

AFFIDAVIT OF PLUGGING AND FILLING WELL CONSERVATION OIL & GAS COMMISSION

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.

None
COAL OPERATOR OR OWNER

Kaiser Exploration and Mining Company

ADDRESS

NAME OF WELL OPERATOR
P. O. Box 8, Ravenswood, WV 26164
COMPLETE ADDRESS

Enid Rankin
COAL OPERATOR OR OWNER

WELL AND LOCATION 19

3377 Shell Mount Avenue, Ft. Myers, FL
ADDRESS

Ravenswood District

Same
LEASE OR PROPERTY OWNER

Jackson County

Same
ADDRESS

Well No. DEK #75

Enid Rankin Farm

STATE INSPECTOR SUPERVISING PLUGGING.....Richard Morris

AFFIDAVIT

STATE OF WEST VIRGINIA,

County of Jackson } SS:

R. A. Pryce and R. L. Coty

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 4th day of May, 19 81, 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
Shale	Bridge plug at 3700'	3.71" Permanent		
Shale	Cement to 3500'			
Shale	Gel to 2000'			
	Cut casing at 2600'	4 1/2"	2600'	2600' to 4762'
Shale	Cement to 2500'			
Shale/Sand	Gel to 1100'			
Shale	Cement to 900'			
Shale	Gel to 250'			
Shale	Cement to surface			
	Monument and cement	8"		
COAL SEAMS				
(NAME)			DESCRIPTION OF MONUMENT	
(NAME)			8" steel casing, approx. 2 1/2' above	
(NAME)			ground level, properly identified.	
(NAME)				

and that the work of plugging and filling said well was completed on the 6th day of May, 19 81.

And further deponents saith not.

Sworn to and subscribed before me this 16 day of July, 19 81.

My commission expires: December 1, 1985

R. A. Pryce
R. L. Coty
Richard A. Walburn
Notary Public.
Permit No. JAC-1500



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 19

OIL & GAS DIVISION
DEPT. OF MINES

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

Quadrangle Sandyville

Permit No. JAC 1500

Company <u>KAISER EXPLORATION & MINING CO.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>PO Box 8, Ravenswood, W. Va. 26164</u>				
Farm <u>Enid Rankin</u> Acres <u>40</u>	Size			
Location (waters) <u>Straight Fork</u>	20-16			
Well No. <u>DEK #75</u> Elev. <u>767.51</u>	Cond.			
District <u>Ravenswood</u> County <u>Jackson</u>	13-10"	199	199	115 sax
The surface of tract is owned in fee by <u>Enid Rankin, 3377 Shell Mound Avenue</u>	9 5/8			
Address <u>Ft. Myers, FLA</u>	8 5/8			
Mineral rights are owned by <u>Same as above</u>	7	2319	2319	165 sax
Address _____	5 1/2			
Drilling Commenced <u>July 25, 1979</u>	4 1/2		4762	225 sax
Drilling Completed <u>August 5, 1979</u>	3			
Initial open flow <u>1 1/2 MCFD</u> or <u>xt.</u> _____ bbls.	2		3920	
Final production <u>30 M</u> cu. ft. per day _____ bbls.	Liners Used			
Well open <u>10 hours</u> hrs. before test <u>900</u> RP.				

Well treatment details: Attach copy of cementing record.

Perforated Oriskany from 4710' - 4712' (K.B.) and 4714' - 4716' (K.B.) w/4 holes/ft; Halliburton fractured Oriskany with 15,000# 80/100 sand and 18,000# 20/40 sand; used 793 bbl of total water, and 75,000 SCF of nitrogen; zone screened out, and well failed to produce; set permanent bridge plug in 4 1/2" casing at 4050' (K.B.); perforated Brown Shale from 3848' - 3992' (K.B.) w/17 holes; Halliburton and Aircowell foam fractured shale w/30,000# 80/100 sand and 30,000# 20/40 sand; used 546,000 SCF of nitrogen and 355 bbl of water

Coal was encountered at _____ Feet _____ Inches

Fresh water _____ Feet _____ Salt Water _____ Feet _____

Producing Sand Brown Shale Depth 3848-3992

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	11		
Shale			11	60		
Sand			60	100		
Shale			100	205		
Sand			205	225		
Shale			225	275		
Sand			275	318		
Shale			318	552		
Sand			552	618		
Shale			618	703		
Sand			703	717		
Shale			717	750		
Sand			750	765		
Shale			765	780		
Sand			780	797		
Shale			797	1053		
Salt Sand			1053	1200		
Shale			1200	1335		
Sand			1335	1400		
Shale			1400	1603		
Broken Sand			1603	1666		
Big Lime			1666	1827		
Shale			1827	1880		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet ¹⁹	Bottom Feet	Oil, Gas or Water	* Remarks
Injun Sand			1880	1939		
Shale			1939	2254		
Coffee Shale			2254	2288		
Berea Sand			2288	2291		
Shale			2291	3462		
Brown Shale			3462	3993		
Shale			3993	4457		
Marcellus Shale			4457	4614		
Onondaga L. S.			4614	4708		
Oriskany Sand			4708	4726		
Helderberg L. S.			4726	4823		
Log Total Depth				4823		

Date February 20, 19 30

APPROVED Kaiser Exploration and Mining Company

By Edith A. P.
(Title)
Operations Manager



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

APR 26 1979

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 April 24, 1979

Surface Owner <u>Enid Rankin</u>	Company <u>Kaiser Exploration and Mining Company</u>
Address <u>3377 Shell Mound Avenue, Fort Myers, FL</u>	Address <u>P. O. Box 8, Ravenswood, WV 26164</u>
Mineral Owner <u>Same as above</u>	Farm <u>Enid Rankin</u> Acres <u>40</u>
Address <u>Same as above</u>	Location (waters) <u>Straight Fork</u>
Coal Owner <u>Same as above</u>	Well No. <u>DEK #75</u> Elevation <u>767.51</u>
Address <u>Same as above</u>	District <u>Ravenswood</u> County <u>Jackson</u>
Coal Operator <u>None</u>	Quadrangle <u>Sandyville</u>
Address <u>None</u>	

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 12-30-79 operations have not commenced by 12-30-79

INSPECTOR

TO BE NOTIFIED Richard Morris

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

PHONE 354-7259

John R. B...
12-30-79

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 June 7 19 78 by Enid Rankin made to Devon Corporation, et al and recorded on the 10th day of June 19 78, in Jackson County, Book 148 Page 306

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:

Very truly yours,

(Sign Name) R. A. Pryce
R. A. Pryce Well Operator Operations Manager

P. O. Box 8

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

Address
of
Well Operator

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

47-035-1500

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: 4730 _____ 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	2300	2300	125 sks = 570 feet
5 1/2			
4 1/2	4730	4730	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