

Deep well

**CERTIFICATE**

- 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 H. Barker # 289

COMPANY KAISER EXPLORATION & MINING COMPANY  
 ADDRESS BOX 537 RIPLEY, WEST VIRGINIA  
 FARM LENNIE PATTERSON O.W. KEEBAUGH  
 MAP ACRES 45 LEASE NO. \_\_\_\_\_  
 WELL (FARM) NO. DEK 54 SERIAL NO. \_\_\_\_\_  
 ELEVATION (SPIRIT LEVEL) 795.13  
 QUADRANGLE SANDYVILLE 7 1/2° RIPLEY 15° NW  
 COUNTY JACKSON DISTRICT RAVENSWOOD  
 POINT OF PROVEN ELEVATION Rd. Intersection on Jackson Run El. 691  
 FILE NO. \_\_\_\_\_ DRAWING NO. \_\_\_\_\_  
 DATE SEPT 13, 1978 SCALE 1" = 500 FT.

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

WELL LOCATION MAP

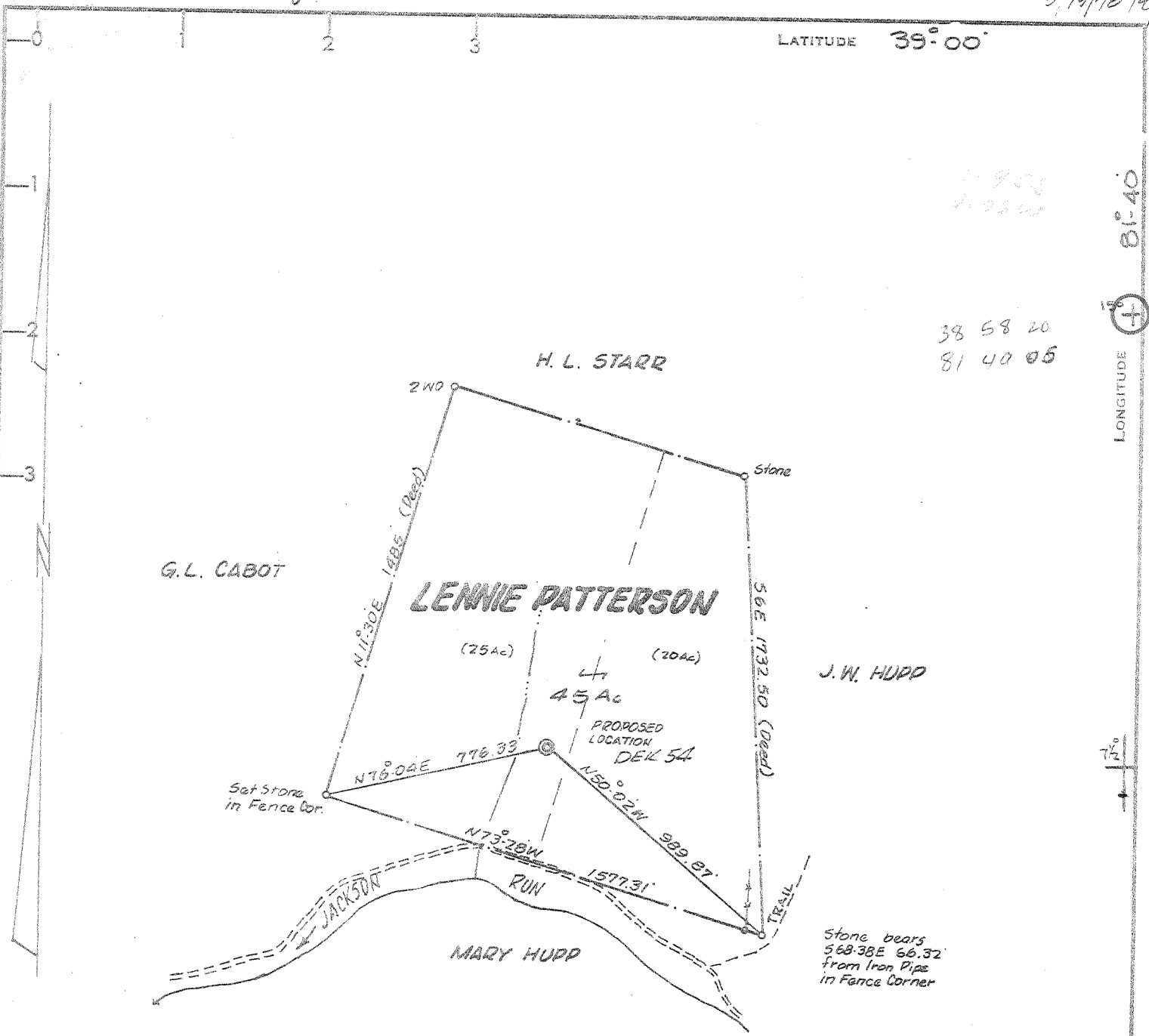
FILE NO. JAC 4464-P

+ 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. **47-035**  
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

4825 - (unclear)

MIC A 1980

AUG



LATITUDE 39° 00'

81° 40'

LONGITUDE

38 58 20  
81 40 05

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
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 DATE SEPT 13, 1978 SCALE 1" = 500 FT.

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
 WELL LOCATION MAP  
 FILE NO. JAC 4464  
 OCT 17 1978  
 + 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. 47-035  
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

Deep Well 4825 - Oriskany 6-6 Elk-Poca (1972)



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 Sandyville  
Permit No. JAC-1464

Company KAISER EXPLORATION & MINING CO.  
Address Box 537, Ripley, W. Va.  
Farm Lennie Patterson Acres 45  
Location (waters) Jackson Run  
Well No. DEK 54 Elev. 803 KB  
District Ravenswood County Jackson  
The surface of tract is owned in fee by \_\_\_\_\_  
O. W. Keebaugh  
Address Wilding, W. Va.  
Mineral rights are owned by E. J. Wilson, et al  
Address Rt. 1, Box 29, Mineral Wells, WV  
Drilling Commenced 9/29/78  
Drilling Completed 10/6/78  
Initial open flow 1 MCFD ~~XXXX~~ bbls.  
Final production 100 MCFD ~~cu. ft.~~ per day \_\_\_\_\_ bbls.  
Well open 4 hrs. before test 1700 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8	223	223	100 Sax
8 5/8			
7	2290	2290	75 Sax
5 1/2			
4 1/2		4846	200 Sax
3			
2			
Liners Used			

Well treatment details: Attach copy of cementing record.  
Perforated 4 1/2" casing at 4743' to 4744' & 4753' to 4754' with 16 shots.  
Frac with 788 bbls water and 38,000# sand.

Coal was encountered at None Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Oriskany Sand Depth 4743 to 4754

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	35		
Shale			35	122		
Sand			122	149		
Shale			149	290		
Sand			290	350		
Shale			350	445		
Broken Sand			445	550		
Sand			550	625		
Shale			625	710		
Sand			710	730		
Shale			730	755		
Sand			755	775		
Red Rock			775	835		
Shale			835	910		
Red Rock			910	965		
Broken Sand			965	1035		
Red Rock			1035	1050		
Sand			1050	1200		
Shale			1200	1300		
Sand			1300	1415		
Shale			1415	1655		
Maxon Sand			1655	1744		
Big Lime			1744	1836		
Shale			1836	1920		

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Injun Sand			1920	1930		
Shale			1930	2262		
Coffee Shale			2262	2286		
Berea Sand			2286	2289		
Shale			2289	3450		
Brown Shale			3450	4000		
Shale			4000	4476		
Marcellus Shale			4476	4636		
Onondaga L. S.			4636	4732		
Oriskany Sand			4732	4773		
Helderberg L. S.			4773	4906		
Total Depth			4906			

Date March 9, 1979

APPROVED

*Robert A. Pryce* Owner

By

Operations Manager

(Title)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

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SEP 15 1980

Oil and Gas Division OIL & GAS DIVISION  
WELL RECORD DEPT. OF MINES

Quadrangle Sandyville  
Permit No. JAC-1464-W

Rotary X Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas X \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Company <u>Kaiser Exploration and Mining Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>P. O. Box 8, Ravenswood, WV 26164</u>				
Farm <u>Lennie Patterson</u> Acres <u>45</u>				
Location (waters) <u>Jackson Run</u>	Size			
Well No. <u>DEK #54</u> Elev. <u>803 (KB)</u>	<u>20-16</u>			
District <u>Ravenswood</u> County <u>Jackson</u>	Cond.			
The surface of tract is owned in fee by _____	<u>13-10"</u>			
<u>O. W. Keebaugh</u>	<u>9 5/8</u>	<u>223'</u>	<u>223'</u>	<u>100 sks</u>
Address <u>Wilding, WV</u>	<u>8 5/8</u>			
Mineral rights are owned by <u>E. J. Wilson, et al</u>	<u>7</u>	<u>2290' (KB)</u>	<u>2290' (KB)</u>	<u>75 sks</u>
Address <u>Rt. 1, Box 29, Mineral Wells, WV</u>				
Drilling Commenced <u>9/29/78</u>	<u>4 1/2</u>	<u>4846' (KB)</u>	<u>1988' (KB)</u>	<u>200 sks</u>
Drilling Completed <u>10/6/78</u>	<u>3</u>			
Initial open flow <u>1 MCFD</u> cu. ft. --- bbls.	<u>2</u>			
Final production <u>0</u> cu. ft. per day --- bbls.	Liners Used			
Well open --- hrs. before test --- RP.				

Well treatment details:

Attach copy of cementing record.

Well failed to produce from the Oriskany sandstone; set permanent bridge plug in 4 1/2" casing at 2900'; cut 4 1/2" casing at 2858'; pumped out cement plug from 2900'-2600'; gel 2600'-2289'; set permanent bridge plug in 7" casing at 2289'; perforated Berea from 2280'-2285' w/4 holes/ft, 20 holes, .51" diameter (ran bond log on 7" casing from 2290'-1900') circulated behind 7" casing to surface while trying to fracture zone.

Coal was encountered at --- Feet --- Inches  
Fresh water --- Feet --- Salt Water --- Feet  
Producing Sand Berea sandstone Depth 2280'-2285'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	35		
Shale			35	122		
Sand			122	149		
Shale			149	290		
Sand			290	350		
Shale			350	445		
Broken Sand			445	550		
Sand			550	625		
Shale			625	710		
Sand			710	730		
Shale			730	755		
Sand			755	775		
Red Rock			775	835		
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Shale			1415	1655		
Maxon Sand			1655	1744		
Big Lime			1744	1836		

(over)

\* Indicates Electric Log tops in the remarks section.

SEP 25 1980

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			1836	1920		
Injun Sand			1920	1930		
Shale			1930	2262		
Coffee Shale			2262	2286		
Berea Sand			2286	2289		
Shale			2289	3450		

Date September 11, 1980

APPROVED *Robert A. P...* Owner

By Operations Manager  
(Title)

RECEIVED

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

SEP 15 1980

AFFIDAVIT OF PLUGGING AND FILLING WELLS  
OIL & GAS DIVISION  
DEPT. 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.

None  
COAL OPERATOR OR OWNER  
--  
ADDRESS  
None  
COAL OPERATOR OR OWNER  
--  
ADDRESS  
O. W. Keebaugh  
LEASE OR PROPERTY OWNER  
Wilding, WV  
ADDRESS

Kaiser Exploration and Mining Company  
NAME OF WELL OPERATOR  
P. O. Box 8, Ravenswood, WV 26164  
COMPLETE ADDRESS  
August 12 19 80  
WELL AND LOCATION  
Ravenswood District  
Jackson County  
Well No. DEK #54  
Lennie Patterson 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 KEMGAS well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 8th day of July, 19 80, and that the well was plugged and filled in the following manner:

BAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			CSG PULLED	CSG LEFT IN
Oriskany: Perfs: 4743'-54'KB	GO International permanent bridge plug set at 4700' (K.B.) 6% gel: 4700'-2900'	4 1/2"		
	GO International permanent bridge plug set at 2900' (K.B.) Cement: 2900'-2600' 6% gel: 2600'-2289'	4 1/2"	2858'	1996' (4 1/2")
Berea: Perfs: 2280'-85'KB	GO International permanent bridge plug set at 2289 (K.B.) GO International permanent bridge plug set at 2200' (K.B.) 6% gel: 2200'-800' Cement: 800' - 600' 6% gel: 600'-300' cement: 300'-0'	7" 7" Class A Class A	724'	1566' (7")
COAL SEAMS	None	Class A		
(NAME)		DESCRIPTION OF MONUMENT		
(NAME)		7" casing with proper identification		
(NAME)		approximately 2' above ground level		
(NAME)				

and that the work of plugging and filling said well was completed on the 6th day of August, 19 80.

And further deponents saith not.

*Richard L. Coty*  
R. L. Coty

Sworn to and subscribed before me this 11th day of September, 19 80

*Robert A. Pryce*  
Robert A. Pryce

My commission expires: 12/31/85

Notary Public.  
Permit No. 035-1464-P



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

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SEP 19 1978

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 September 18, 1978

Surface Owner O. W. Keebaugh

Company KAISER EXPLORATION & MINING CO.

Address Wilding, WV

Address Box 537, Ripley, W. Va.

Mineral Owner Eva June Hupp Wilson, et al

Farm Lennie Patterson Acres 45

Address Rt. 1, Box 29-A, Mineral Wells, WV

Location (waters) Jackson Run of Straight Fork

Coal Owner Same as above

Well No. DEK 54 Elevation 795.13

Address \_\_\_\_\_

District Ravenswood County Jackson

Coal Operator Not operated

Quadrangle Sandyville 7 1/2'

Address \_\_\_\_\_

THIS PERMIT IS NOT TO BE USED AT THE WELL SITE

All provisions herein 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 1-19-79.

Deputy Director - Oil & Gas Division

INSPECTOR

TO BE NOTIFIED Richard J. Morris

ADDRESS Grantsville, W. Va.

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 June 6 1978 by Eva J. H. Wilson made to Devon, Eason & P & O and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Jackson County, Book 148 Page 589  
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:

Very truly yours, KAISER EXPLORATION AND MINING CO.

(Sign Name) Robert A. Purser  
Well Operator Operations Manager

118 McGraw St.

Street

Ripley

City or Town

West Virginia 25271

State

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

Address  
of  
Well Operator

\*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

JAC-1464

47-035

PERMIT NUMBER



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

PROPOSED WORK ORDER TO XXX DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME FWA Drilling Co., Inc. NAME Robert A. Pryce  
 ADDRESS Box 448, Elkview, WV ADDRESS Box 537, Ripley, WV  
 TELEPHONE 965-3379 TELEPHONE 372-2827  
 ESTIMATED DEPTH OF COMPLETED WELL: 4825 ROTARY XXX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS XXX 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	200	200	100 sax = to surf.
8 - 5/8			
7	2300	2300	75 sax = 625'
5 1/2			
4 1/2		4825	200 sax = 2400'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS None anticipated  
 IS COAL BEING MINED IN THE AREA? No 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