



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 Z. Barber # 222

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY **KAISER EXPLORATION & MINING CO.**
 ADDRESS **P.O. Box 8 RAVENSWOOD, W.VA. 26164**
 FARM **CURTIS L. HILL ETAL**
 MAP _____ ACRES **136** LEASE NO. _____
 WELL (FARM) NO. **1** SERIAL NO. **KEM-15**
 ELEVATION (SPIRIT LEVEL) **838.37'**
 QUADRANGLE **ELMWOOD 7.5 WINFIELD 15' NE**
 COUNTY **JACKSON** DISTRICT **RIPLEY**
 POINT OF PROVEN ELEVATION **Knob Elev. 1061**
 FILE NO. _____ DRAWING NO. _____
 DATE **APRIL 26, 1980** SCALE **1" = 500'**

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. **035-1524**
 + DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 TO 24,000 LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

08-73

WELL OPERATOR'S REPORT

APR No. 47 - 035 1524
County Wetzel Term 1982

Well No. 101, East Fork River State Mining, West Virginia

WELL TYPE: Oil / / Liquid Injection / Waste Disposal
(If "Gas", Production / Underground storage / Peer / Other

LOCATION: Elevation: 838.37 Watershed: Thirteen Mile Creek
District: Ripley County: Jackson Subdivision: Elmwood

WELL OPERATOR Kaiser Exploration and Mining Co. DESIGNATED AGENT SAME
Address P. O. Box 8 Address
Ravenswood, WV 26164

PERMITTED WORK: Drill / Convert / Drill deeper / Re-work
Plug off old formation / Perforate new formation
Other physical change in well (specify)

RECEIVED
FEB 9 - 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

PERMIT ISSUED ON August 25, 1981 OIL & GAS INSPECTOR FOR THIS WORK:
Name Richard Morris
Address P. O. Box 372
Grantsville, WV 26147

(IF APPLICABLE: PLUNGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

GEOLOGICAL TARGET FORMATION: Oriskany Sandstone Depth 4975 feet
Depth of completed well, 4955 feet Rotary / Cable Tools
Water strata depth: Fresh, -- feet; salt, ---- feet.
Coal seam depths: -- Is coal being mined in the area? NO
Work was commenced October 4, 1981, and completed October 12, 1981

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-IN OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor									Kinds NONE
Fresh water	10 3/4	H	32.75	X		262(KB)	262(KB)	150sx Class A	
Coal									Sizes
Intermediate	7	K	20	X		2596(KB)	2596(KB)	65sx Pozmix 100sx Class A	
Production	4 1/2	N	11.60	X			4929(KB)	225sx Pozmix	Depth set
Tubing	2 3/8	J	4.60	X			4857(KB)		
Liners									Perforations:
									Top Bottom
									4864 4881

OPEN FLOW DATA

Producing formation Oriskany Sandstone Pay zone depth 4864 - 4881 feet
Gas: Initial open flow, 13 Mcf/d Oil: Initial open flow, -- bbl/d
Final open flow, 100 Mcf/d Final open flow, -- bbl/d
Time of open flow between initial and final tests, 6 hours
Static rock pressure, 1875 psig (surface measurement) after 16 hours shut in
[If applicable due to multiple completion--]
Second producing formation Pay zone depth feet
Gas: Initial open flow, Mcf/d Oil: Initial open flow, bbl/d
Final open flow, Mcf/d Final open flow, bbl/d
Time of open flow between initial and final tests, hours
Static rock pressure, psig (surface measurement) after hours shut in

OCT 18 1982

[08-78]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

- 10/14/81: Basin Surveys perforated Oriskany Sandstone w/ 3½" glass jets on strip 4864'-4868'(KB) and 4975'-4881'(KB); 4 holes/ft; 40 holes.
 10/15/81: Halliburton hydrofractured Oriskany w/500 gal. 28% HCL Acid; 15,000# 80/100 sand; 45,000# 20/40 sand; 130,000 SCF of nitrogen; 730 BBL water; Breakdown was 3500 psig; avg. rate was 21.5 BPM; avg. pressure was 4125 psig; instantaneous shut in pressure was 2900 psig.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Soil & Shale			0	160	
Sand			160	187	
Shale			187	200	
Sand			200	280	
Shale			280	318	
Sand			318	336	
Shale			336	560	
Sand			560	598	
Shale			598	654	
Sand			654	674	
Shale			674	927	
Sand			927	972	
Shale			972	1062	
Sand			1062	1076	
Shale			1076	1094	
Salt Sand			1094	1202	
Shale			1202	1246	
Salt Sand			1246	1392	
Shale			1392	1434	
Sand			1434	1462	
Shale			1462	1813	
Big Lime (Greenbrier)			1818	2006	
Shale			2006	2038	
Big Injun Sand			2038	2100	
Shale			2100	2472	
Coffee Shale (Sunbury)			2472	2503	
Berea Sand			2503	2516	
Shale			2516	3710	Gas show @ 3161, 3602
Brown Shale			3710	4187	Gas show @ 4078
Shale			4187	4530	
Marcellus Shale			4530	4771	Gas show @ 4585
Onondaga Lime			4771	4852	
Oriskany Sand			4852	4894	Gas show @ 4867
Helderberg Lime			4894	4958	
Total Depth			4958		

(Attach separate sheets to complete as necessary)

KAISER EXPLORATION AND MINING COMPANY
Well Operator

By R.A.P.
Its General Manager

NOTE: Regulation 2.01(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

RENEWAL

RECEIVED

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

JAN 20 1981

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 14, 1981

Surface Owner Curtis L. & Wayne C. Hill
Address 3405 Alcoa Drive, Charleston, WV 25304
Mineral Owner Same as above
Address Same as above
Coal Owner Union Carbide Corporation
Address 32 Sanderson Road, Clendenin, WV 25045
Coal Operator None
Address None

Company Kaiser Exploration and Mining Company
Address P. O. Box 8, Ravenswood, WV 26164
Farm Curtis & Wayne Hill Acres 136 Ac
Location (waters) Thirteen
Well No. KEM #15 Elevation 838.37
District Ripley County Jackson
Quadrangle Elmwood

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
or drilling renewed. This permit shall expire if
operations have not commenced by 9-26-81

INSPECTOR
TO BE NOTIFIED Richard Morris
ADDRESS P. O. Box 372, Grantsville, WV 26147
PHONE 354-7259

J. P. Pryce
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 September 14 1978 by Curtis and Wayne Hill made to Kaiser Exploration and Mining Co and recorded on the 6 day of July 1978 in Mason County, Book 148 Page 581

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
Kaiser Exploration and Mining Company
Street:
P. O. Box 8
City or Town
Ravenswood, WV 26164
State

Address
of
Well Operator

*SICHERHEIT...
of issue by the department...
within said period of ten days from the receipt of...
to the well operator a permit reciting...
the department and that the same is approved.

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Not known 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: 4975' _____ 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	2700	2700	165 sks = 1400' fillup
5 1/2			
4 1/2	4975	4975	225 sks = 2500' fillup
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? 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.

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

AUG 21 1981

Oil and Gas Division

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE August 20, 1981

Surface Owner Curtis L. & Wayne C. Hill Company Kaiser Exploration and Mining Company
Address 3405 Alcoa Drive, Charleston, WV 25304 Address P. O. Box 8, Ravenswood, WV 26154
General Owner Same as above Farm Curtis & Wayne Hill Acres 135 Ac
Address Same as above Location (waters) Thirteen
Coal Owner Union Carbide Corporation Well No. KEM #15 Elevation 838.37
Address 37 Sanderson Road, Clendenin, WV 25045 District Ripley County Jackson
Coal Operator None Quadrangle Elmwood
Address None

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 renewed. This permit shall expire if operations have not commenced by 4-25-82

INSPECTOR

TO BE NOTIFIED Richard Morris

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

PHONE 354-7259

John B. Buntline
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 there to, (or as the case may be) under grant or lease dated September 14 1978 by Curtis and Wayne Hill made to Kaiser Exploration and Mining Co and recorded on the 9 day of August 78 in Mason County, Book 148 Page 581

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 and coal owners at their above shown respective addresses _____ day _____ before, or on the _____ 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

P. O. Box 8

City or Town

Ravenswood, WV 26164

State

PLEASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
304 - 292-6331

Address of Well Operator

NOTICE: This permit is valid for a period of ten days from the receipt of this permit by the well operator. If the permit is not used within this period, it shall be void. The Department of Mines reserves the right to cancel this permit at any time if it is determined that the permittee is not complying with the provisions of the Code. The permittee shall be responsible for the cost of this permit.

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Not known 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: 4975' _____ 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	LET 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	2700	2700	165 sks = 1400' fill up
5 1/2			
4 1/2	4975	4975	225 sks = 2500' fill up
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? 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

APR 30 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 April 30, 1980

Surface Owner Curtis L. & Wayne C. Hill
Address 3405 Alcoa Drive, Charleston, WV 25304
Mineral Owner Same as above
Address Same as above
Coal Owner Union Carbide Corporation
Address 32 Sanderson Road, Clendenin, WV 25045
Coal Operator None
Address None

Company Kaiser Exploration and Mining Company
Address P. O. Box 8, Ravenswood, WV 26164
Farm Curtis & Wayne Hill Acres 136 Ac.
Location (waters) Thirteen
Well No. KEM #15 Elevation 838.37
District Ripley County Jackson
Quadrangle Elmwood

PERMIT MUST BE POSTED AT THE WELL SITE

provisions being in accordance with Chapter 22,
the W. Va. Code, the location is hereby approved
drilling. This permit shall expire if
operations have not commenced by 1-16-81.

Robert H. [Signature]
Deputy Director - Oil & Gas Division

INSPECTOR

Richard Morris

TO BE NOTIFIED Kenneth Butcher

ADDRESS RFD #1, Barboursville, WV 25504

PHONE 736-4885 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 September 14, 1978 by Curtis and Wayne Hill made to Kaiser Exploration and Mining Co. and recorded on the 6 day of July 1978, in Mason County, Book 43 Page 581

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) E. A. Pryce

Well Operator

R. A. Pryce
Address Kaiser Exploration and Mining Company
Street:

Address
of
Well Operator

P. O. Box 8, Ravenswood
City or Town

West Virginia 26164
State

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

47-035-1524

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: 4975' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: CRISKANY
 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	125 sx Class A to surface
8 - 5/8			
7	2700	2700	165 sx Pozmix Cement 1400' fill-up
5 1/2			
4 1/2		4975	225 sx pozmix 2500' fill-up
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? 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.

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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