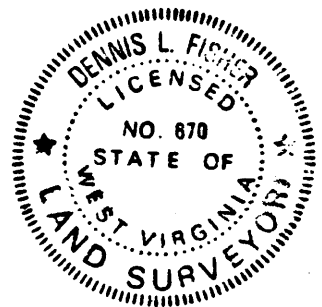


[SURFACE : DON C. CURFMAN
 MINERAL : 1/2 DON C. CURFMAN
 1/2 HARRY L. ECKELS, ETAL]



CERTIFICATE

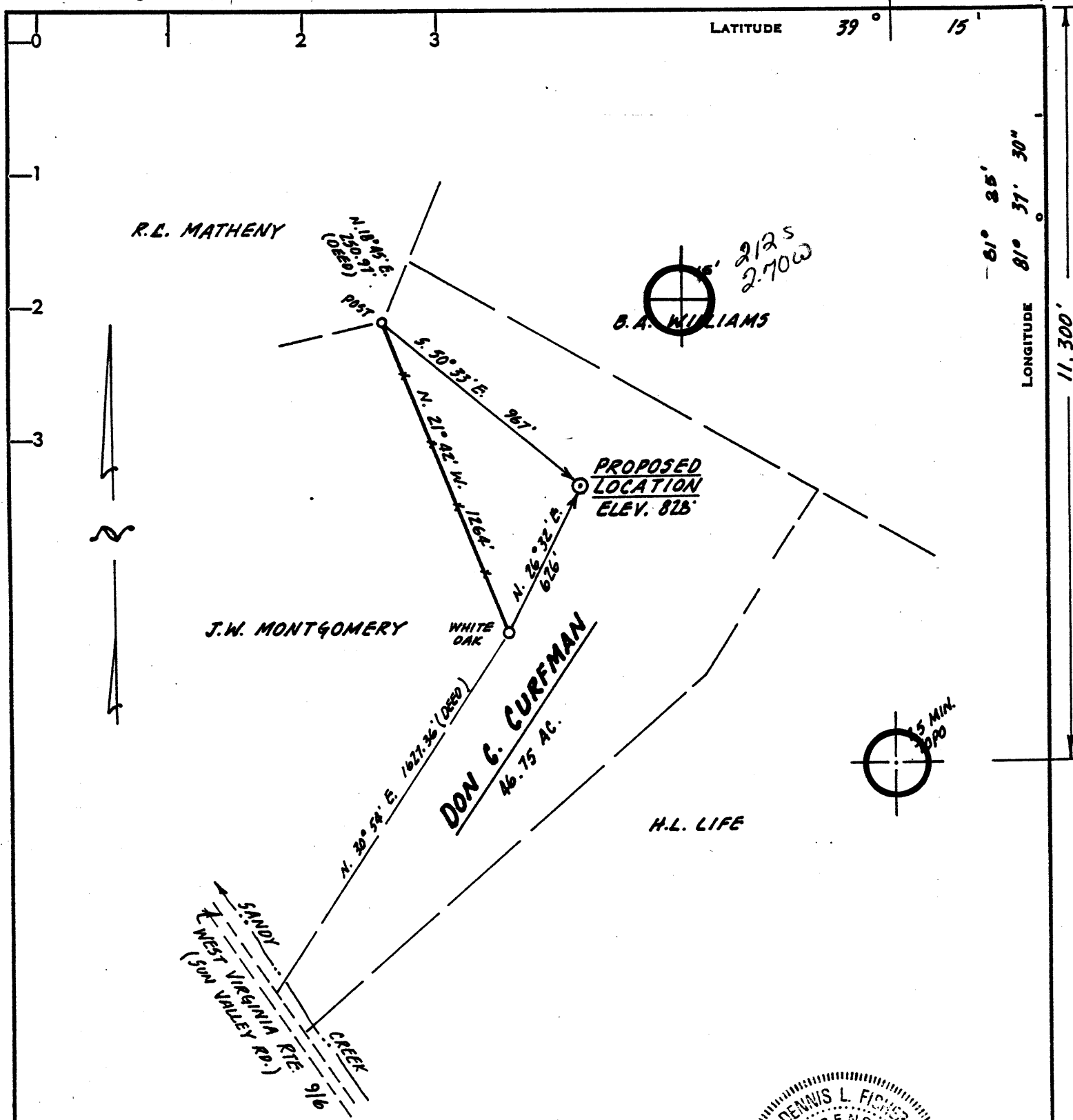
"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Minimum degree of accuracy is one part in 200
 Signed Dennis L. Fisher LLS #670

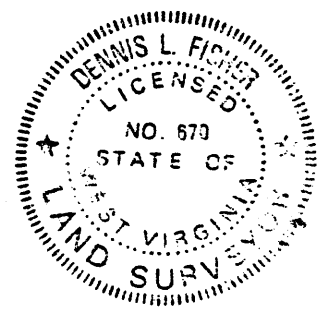
- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY KAISER EXPLORATION & MINING COMPANY
 ADDRESS PO BOX #8, RAVENSWOOD, WEST VIRGINIA 26668
 FARM DON C. CURFMAN
 MAP _____ ACRES 46.75 LEASE NO. _____
 WELL (FARM) NO. _____ SERIAL NO. KEM 98
 ELEVATION (SPIRIT LEVEL) 828'
 QUADRANGLE LUBECK, W. VA-OHIO 7.5 MIN. BE
 COUNTY WOOD DISTRICT LUBECK
 POINT OF PROVEN ELEVATION ELEV. 857 ON KNOLL
4300' S.W. OF PROPOSED LOCATION
 FILE NO. _____ DRAWING NO. _____
 DATE MARCH 17, 1981 SCALE 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. 47-107-1148-A
CANCELLED
 + 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. 3 1984
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.



[SURFACE : DON C. CURFMAN
 MINERAL : 1/2 DON C. CURFMAN
 1/2 HARRY L. ECKELS, ETAL]



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 Dennis L Fisher LLS #670

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY KAISER EXPLORATION & MINING COMPANY
 ADDRESS PO BOX #8, RAVENSWOOD, WEST VIRGINIA 26164
 FARM DON C. CURFMAN
 MAP _____ ACRES 46.75 LEASE NO. _____
 WELL (FARM) NO. _____ SERIAL NO. KEM 93
 ELEVATION (SPIRIT LEVEL) 828' NC
 QUADRANGLE LUBECK, W. VA - OHIO 7.5 MIN. Bellville 15'
 COUNTY WOOD DISTRICT LUBECK
 POINT OF PROVEN ELEVATION ELEV. 857 ON KNOLL
4300' S-N. OF PROPOSED LOCATION
 FILE NO. _____ DRAWING NO. _____
 DATE MARCH 17, 1981 SCALE 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP
 FILE NO. 47-107-1148
 + 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.

deep well

Cristeamy 4646'

APR 13 1981



1) Date: March 4, 19 83
 2) Operator's Well No. KEM #93
 3) API Well No. 47 107 1140
 State County Permit

DRILLING CONTRACTOR:
Not known

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

RENEWAL

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil Gas
 B (If "Gas", Production Underground storage Deep Shallow)
- 5) LOCATION: Elevation: 828 Watershed: Sandy Creek
 District: Lubeck County: Wood Quadrangle: Lubeck
- 6) WELL OPERATOR Kaiser Exploration and Mining Co. 11) DESIGNATED AGENT R. A. Fryce
 Address P. O. Box 8 Address Same
Ravenswood, WV 26164
- 7) OIL & GAS ROYALTY OWNER Don C. Curfman 12) COAL OPERATOR None
 Address Rt. 2, Box 135 Address _____
Washington, WV 26181
 Acreage 46.75
- 8) SURFACE OWNER Same 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address _____ Name None
 Address _____
 Name _____
 Address _____
- 9) FIELD SALE (IF MADE) TO:
 Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Samuel G. Hersman 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Address P. O. Box 66 Name None
Smithville, WV 26178 Address _____
- 15) PROPOSED WORK: Drill Drill deeper Redrill Fracture or stimulate
 Plug off old formation Perforate new formation
 Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, Criskany
- 17) Estimated depth of completed well, 4640 feet
- 18) Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.
- 19) Approximate coal seam depths: _____ Is coal being mined in the area? Yes No

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	<u>10 3/4"</u>			<input checked="" type="checkbox"/>		<u>250</u>	<u>250</u>	<u>180 sks class A</u>	<u>to surface</u>
Coal								<u>55 sks 50/50</u>	Sizes
Intermediate	<u>7"</u>			<input checked="" type="checkbox"/>		<u>2000</u>	<u>2000</u>	<u>100 sks class A</u>	<u>to mix</u>
Production	<u>4 7/8"</u>			<input checked="" type="checkbox"/>		<u>4640</u>	<u>4640</u>	<u>225 sks 50/50</u>	Depth
Tubing									
Liners									Perforations:
									Top Bottom

- 21) EXTRACTION RIGHTS
 Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No
 If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
- 24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: _____ Signed: _____
 My Commission Expires _____ Its: General Manager

OFFICE USE ONLY
DRILLING PERMIT

Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires November 1, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
-------	--------	-------	--------	-----

Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
MAR 26 1981

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 March 23, 1981
Company Kaiser Exploration and Mining Company
Address P. O. Box 8, Ravenswood, WV 26164
Farm Don C. Curfman Acres 46.75
Location (waters) Sandy Creek
Well No. KFM #93 Elevation 828'
District Lubeck County ~~Kanawha~~ WOOD COUNTY
Quadrangle Lubeck, WV-0

Surface Owner Don C. Curfman
Address Rt. 2, Box 135, Washington, WV 26181
Mineral Owner Don C. Curfman, et al
Address Rt. 2, Box 135, Washington, WV 26181
Coal Owner Don C. Curfman
Address Rt. 2, Box 135, Washington, WV 26181
Coal Operator None
Address None

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 12-1-81

INSPECTOR
TO BE NOTIFIED XXXXXXXXXXXXXXXXXXXX Paul Goodnight
Martin Nichols
ADDRESS XX
P. O. Box 554, Clendenin, WV 25045
PHONE ~~648-6908~~ 477-3660

[Signature]
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 February 5 1981 by Don C. and Thelma E. Curfman made to Kaiser Exploration and Mining Company and recorded on the 17th day of February 1981, in Kanawha County, Book 750 Page 618

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

Address
of
Well Operator

Very truly yours,
(Sign Name) [Signature]
Well Operator
Kaiser Exploration and Mining Company
P. O. Box 8
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.

Stamp: Blanket

[Signature]

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 Clint Hurt & Associates, Inc. NAME Robert A. Pryce
 ADDRESS P. O. Box 388, Elkview, WV 25071 ADDRESS P. O. Box 8, Ravenswood, WV 26164
 TELEPHONE 273-5371 TELEPHONE 273-5371
 ESTIMATED DEPTH OF COMPLETED WELL: 4640' 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	250'	250'	150 sks class A (to surface)
8 - 5/8			
7	2000'	2000'	50 sks 50/50 pozmix
5 1/2			100 sks class A
4 1/2	4640'	4640'	225 sks 50/50 pozmix
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



RENEW

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE February 25, 1982

Surface Owner Don C. Curfman Company Kaiser Exploration and Mining Company
 Address Rt. 2, Box 135, Washington, WV 26181 Address P. O. Box 8, Ravenswood, WV 26164
 Mineral Owner Don C. Curfman, et al Farm Don C. Curfman Acres 46.75
 Address Rt. 2, Box 135, Washington, WV 26181 Location (waters) Sandy Creek
 Coal Owner Don C. Curfman Well No. KEM #93 Elevation 828'
 Address Rt. 2, Box 135, Washington, WV 26181 District Lubeck County ~~Kanawha~~
 Coal Operator None Quadrangle Lubeck, WV-0 WOOD
 Address None

THIS PERMIT MUST BE POSTED AT THE WELL SITE.

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY TO BE NOTIFIED Martin Nichols

APPROVED FOR drilling renewed THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 11-3-82 ADDRESS P. O. Box 554, Clendenin, WV 25045

BY [Signature] PHONE 548-6993

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 5 19 81 by Don C. and Thelma E. Curfman made to Kaiser Exploration and Mining Company and recorded on the 17th day of February 9 81, in Kanawha County, Book 750 Page 618

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
WC-304 - 292-6331

Very truly yours, [Signature]
 (Sign Name) [Signature]
 Well Operator
 Kaiser Exploration and Mining Company
 P. O. Box 8
 Street
 Ravenswood
 City or Town
 West Virginia 26164
 State

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.

PROPOSED WORK ORDER TO X DRILL: _____ DEEPEN _____ FRACTURE-STIMULATE _____

DRILLING CONTRACTOR: (If Known) Clint Hurt & Associates, Inc. RESPONSIBLE AGENT: Robert A. Pryce
 NAME Clint Hurt & Associates, Inc. NAME Robert A. Pryce
 ADDRESS P. O. Box 388, Elkview, WV 25071 ADDRESS P. O. Box 8, Ravenswood, WV 26164
 TELEPHONE 273-5371 TELEPHONE 273-5371

ESTIMATED DEPTH OF COMPLETED WELL: 4640' 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	250'	250'	150 sks class A (to surface)
8 - 5/8			
7	2000'	2000'	50 sks 50/50 pozmix
5 1/2			100 sks class A
4 1/2	4640'	4640'	225 sks 50/50 pozmix
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.

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OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

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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