

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF  
 ACCURACY 1:200  
 PROVEN SOURCE OF  
 ELEVATION HIGH POINT BLEV.  
1022, SOUTH OF SITE

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) Vincent W. Wood  
 R.P.E. \_\_\_\_\_ L.L.S. 664



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6  
(8-78)



DATE JUNE 1, 1982  
 OPERATOR'S WELL NO. KEM 219  
 API WELL NO. \_\_\_\_\_  
47-107-1214-Per  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

**CANCELLED**

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP X SHALLOW \_\_\_

LOCATION: ELEVATION 843 WATER SHED LONG RUN  
 DISTRICT HARRIS COUNTY WOOD  
 QUADRANGLE POND CREEK

SURFACE OWNER SARAH J. HARTS HORN ACREAGE 53  
 OIL & GAS ROYALTY OWNER HOWARD T. CROMBETH, ET AL. LEASE ACREAGE 128  
 LEASE NO. 84-02-1080-1

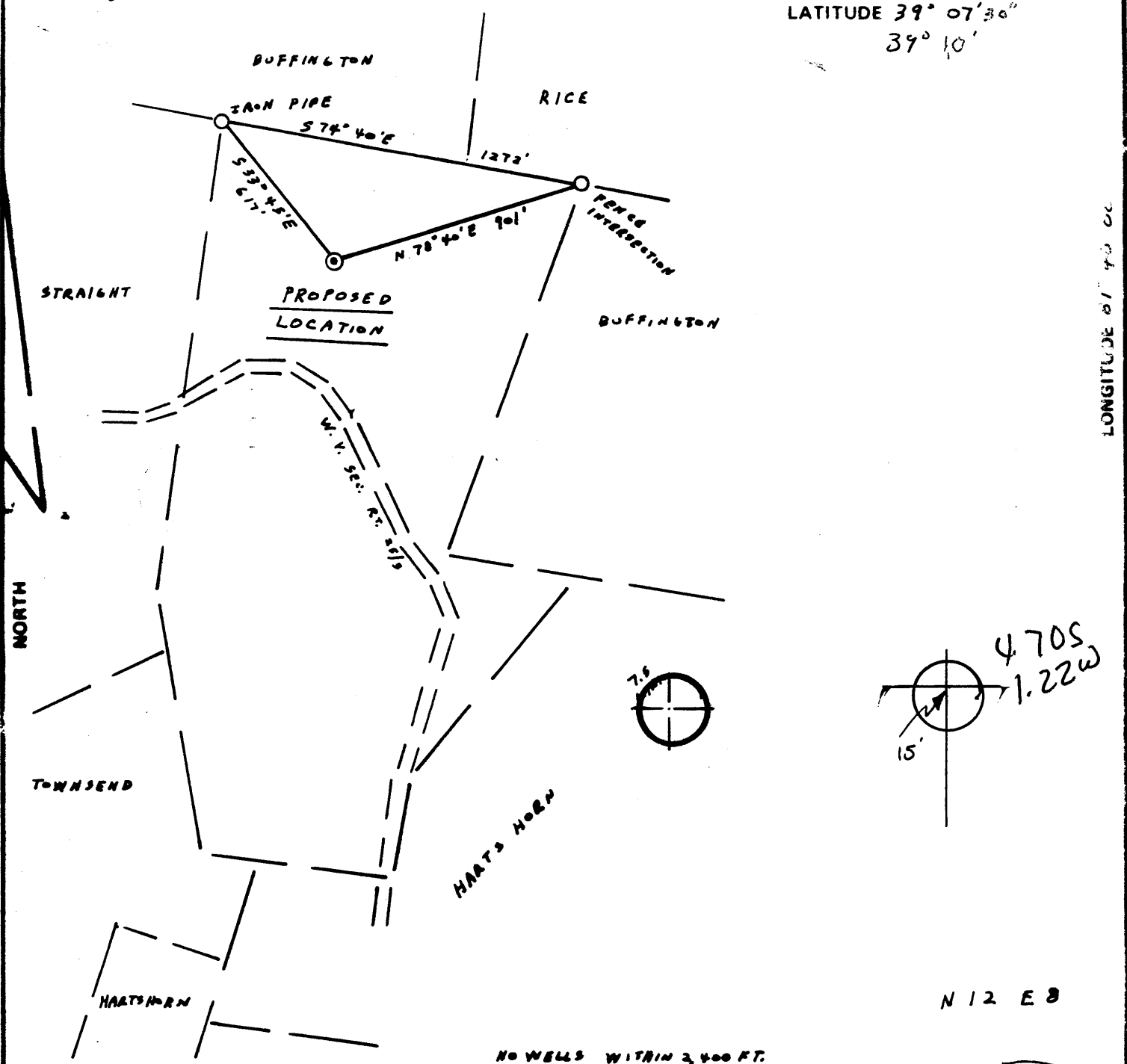
PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
 STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
 FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_

TARGET FORMATION ORISKANY ESTIMATED DEPTH 4623'  
 WELL OPERATOR KAISER EXPLOR. & MIN. CO. DESIGNATED AGENT KAISER EXPLORATION AND MINING CO.  
 ADDRESS P. O. BOX 8 ADDRESS P. O. BOX 8  
RAVENSWOOD, W. V. 26164 RAVENSWOOD, W. V. 26164

JAN 3 1984

LATITUDE 39° 07' 30"  
39° 10'



NO WELLS WITHIN 2,400 FT.

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 500'  
MINIMUM DEGREE OF ACCURACY 1:200  
PROVEN SOURCE OF ELEVATION HIGH POINT ELEV. 1022, SOUTH OF SITE

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
(SIGNED) Vincent W. Wood  
R.P.E. \_\_\_\_\_ L.L.S. 664

VINCENT W. WOOD  
LICENSED  
NO 564  
STATE OF WEST VIRGINIA  
LAND SURVEYOR  
PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
FORM IV-6 (8-78)



DATE JUNE 1, 1982  
OPERATOR'S WELL NO. KEA 219  
API WELL NO. 47-107-1214  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP  SHALLOW \_\_\_  
LOCATION: ELEVATION 843 WATERSHED LONG RUN  
DISTRICT HARRIS COUNTY WOOD  
QUADRANGLE POND CREEK Bellville 15' WC  
SURFACE OWNER SARA J. HARTSHORN ACREAGE 53  
OIL & GAS ROYALTY OWNER HOWARD T. CAHOVETH, ET AL. LEASE ACREAGE 128  
LEASE NO. 14-02-1080-1  
PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION ORISKANY ESTIMATED DEPTH 4623'  
WELL OPERATOR KAISER EXPLOR. & MIN. CO. DESIGNATED AGENT KAISER EXPLORATION AND MINING CO.  
ADDRESS P.O. Box 8 ADDRESS P.O. Box 8  
RAVENSWOOD, W. V. 26164 RAVENSWOOD, W. V. 26164

*deeper*

JUL 06 1982



Date: June 14, 19 82

Operator's Well No. KEM #219

API Well No. 47 107 1214

State County Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION  
OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil \_\_\_ / Gas X /  
(If "Gas", Production X / Underground storage \_\_\_ / Deep X / Shallow \_\_\_ /)

LOCATION: Elevation: 843' Watershed: Long Run  
District: Harris County: Wood Quadrangle: Pond Creek

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

OIL & GAS ROYALTY OWNER Sarah J. Hartshorn  
Address Belleville, WV  
Acreage 128

SURFACE OWNER Howard T. Chenoweth, et al  
Address Belleville, WV  
Acreage 128

FIELD SALE (IF MADE) TO:  
Address

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Richard Morris  
Address P. O. Box 372 Grantsville, WV

COAL OPERATOR None  
Address

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Sarah J. Hartshorn  
Address Same  
Name JUN 16 1982  
Address OIL AND GAS DIVISION WV DEPARTMENT OF MINES

COAL LESSEE WITH DECLARATION ON RECORD:  
Name  
Address

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_\_ / lease X other contract \_\_\_ / dated February 10, 19 81, to the undersigned well operator from Sarah Hartshorn, widow (IF said deed, lease, or other contract has been recorded:)

Recorded on \_\_\_, 19 \_\_\_, in the office of the Clerk of the County Commission of Jackson County, West Va., in Lease Book 751 at page 385. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper \_\_\_ / Redrill \_\_\_ / Fracture or stimulate \_\_\_ /  
Plug off old formation \_\_\_ / Perforate new formation \_\_\_ /  
Other physical change in well (specify) \_\_\_  
—planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

BLANKET BOND

KAISER EXPLORATION AND MINING COMPANY  
Well Operator  
By [Signature]  
Its General Manager

DRILLING CONTRACTOR (IF KNOWN) Clint Hurt & Associates, Inc.

Address P. O. Box 388

Elkview, WV 25071

GEOLOGICAL TARGET FORMATION, Oriskany

Estimated depth of completed well, 4623' feet Rotary X / Cable tools      /

Approximate water strata depths: Fresh, 293 feet; salt, 443 feet.

Approximate coal seam depths:      Is coal being mined in the area? Yes      / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft			For drilling	Left in well		
Conductor									Kinds
Fresh Water	10 3/4"					350'	350'	150 sks class A	(to surface)
Coal									Sizes
Intermediate	7"					2095'	2095'	<del>65 sks 50/50</del> 100 sks class A	<del>perm set</del>
Production	4 1/2"					4623'	4623'	225 sks 50/50	perm set Class A
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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  
APPROVED FOR Drilling. THIS PERMIT SHALL EXPIRE  
IF OPERATIONS HAVE NOT COMMENCED BY 2-18-83.  
BY [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator      / owner      / lessee      / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date:     , 19       
By [Signature]  
Its



1) Date: March 4, 1983  
 2) Operator's Well No. 404 212  
 3) API Well No. 47 107 State West Virginia County Wayne Permit 1015

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 X         /  
 B (If "Gas", Production X         / Underground storage          / Deep X         / Shallow         )
- 5) LOCATION: Elevation: 242 Watershed: Long Run  
 District: Harris County: Wood Quadrangle: Pond Creek
- 6) WELL OPERATOR Kaiser Exploration and Mining Co. 11) DESIGNATED AGENT R. A. Dryce  
 Address P. O. Box 2 Address Same  
Rayenswood, WV
- 7) OIL & GAS ROYALTY OWNER Sarah J. Hartshorn 12) COAL OPERATOR None  
 Address Belleville, WV Address
- 8) SURFACE OWNER Howard T. Chenoweth, et al 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Address Belleville, WV Name None  
 Address           
 Name           
 Address
- 9) FIELD SALE (IF MADE) TO:  
 Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name ~~XXXXXXXXXXXX~~ Samuel N. Hargman  
 Address ~~XXXXXX~~ P. O. Box 66  
Smithville, WV 26278
- 14) COAL LESSEE WITH DECLARATION ON RECORD:  
 Name None  
 Address
- 15) PROPOSED WORK: Drill X         / Drill deeper          / Redrill          / Fracture or stimulate          /  
 Plug off old formation          / Perforate new formation          /  
 Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Oriskany
- 17) Estimated depth of completed well, 4623 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>			<u>X</u>		<u>240</u>	<u>250</u>	<u>150 sks 8WY50</u>	<u>Class A to surface</u>
Coal								<u>65 sks 50/50</u>	Sizes
Intermediate	<u>7"</u>			<u>X</u>		<u>2095</u>	<u>2095</u>	<u>100 Class A</u>	<u>        </u>
Production	<u>4 1/2"</u>			<u>X</u>		<u>4623</u>	<u>4623</u>	<u>225 sks 50/50</u>	Depth set
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 Nov. 15, 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.