



1) Date: November 17, 1983
 2) Operator's Well No. KEM #354
 3) API Well No. 47 -- 107 -- 1302
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 789 Watershed: Gilpen Run
 District: Harris County: Wood Quadrangle: Lubeck
- 6) WELL OPERATOR Kaiser Exploration and Mining Co. 7) DESIGNATED AGENT R. A. Pryce
 Address P. O. Box 8 Address Same
Ravenswood, WV 26164
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Jerry Tephabock
 Address Rt. 1, Box 101A
Ripley, WV 25271
- 9) DRILLING CONTRACTOR: Name Clint Hurt
 Address P. O. Box 388
Elkview, WV
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Oriskany
 12) Estimated depth of completed well, 4410 feet
 13) Approximate strata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes / No
- 15) CASING AND TUBING PROGRAM

RECEIVED
 DEC 1 - 1983
 OIL & GAS DIVISION
 DEPT. OF MINES

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	10 3/4"			X		250	250	150 sks class a	to surface
Coal									Sizes
Intermediate	7"			X		1800	1800	65 sks 50/50	pozmix/100 sks Class
Production	4 1/2"			X		4410	4410	225 sks 50/50	pozmix
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-107-1302 Date December 22, 1983

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. 8) 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires Dec. 22, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <u>LO</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>465-608</u>
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[Signature]
 Administrator, Office of Oil and Gas

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

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

12/29/2023



12/29/2023

IV-9
(Rev 8-81)



DATE October 24, 1983

WELL NO. KEM #354

State of West Virginia

API NO. 47-107-1302

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Kaiser Exploration and Mining Co DESIGNATED AGENT Same

Address P. O. Box 8, Ravenswood, WV 26164 Address _____

Telephone 273-5371 Telephone _____

LANDOWNER John A. Kroupa SOIL CONS. DISTRICT Little Kanawha

Revegetation to be carried out by Kaiser Exploration and Mining Company (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 10-26-83

(Date)

Garrett Newton
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Cross Drains (A)

Structure Diversion Ditch (1)

Spacing 80', 135'

Material Earthen

Page Ref. Manual 2:4

Page Ref. Manual 2:12

Structure Road Culvert (B)

Structure _____ (2)

Spacing 16" diameter

Material _____

Page Ref. Manual 2:7

Page Ref. Manual DEC 1 - 1983

Structure _____ (C)

Structure OIL & GAS DIVISION (3)

Spacing _____

Material DEPT. OF MINES

Page Ref. Manual _____

Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I

Treatment Area II

Lime 4 Tons/acre
or correct to pH _____

Lime Same as Area I Tons/acre
or correct to pH _____

Fertilizer 14-14-14 600 lbs/acre
(10-20-20 or equivalent)

Fertilizer _____ lbs/acre
(10-20-20 or equivalent)

Mulch Hay 2 Tons/acre

Mulch _____ Tons/acre

Seed* 81% Orchard Grass/15% Ryegrass 16 lbs/acre

Seed* _____ lbs/acre

Kentucky 31 Fescue 16 lbs/acre

_____ lbs/acre

Red Clover 8 lbs/acre

_____ lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

PLAN PREPARED BY Vincent Wood 12/29/2023

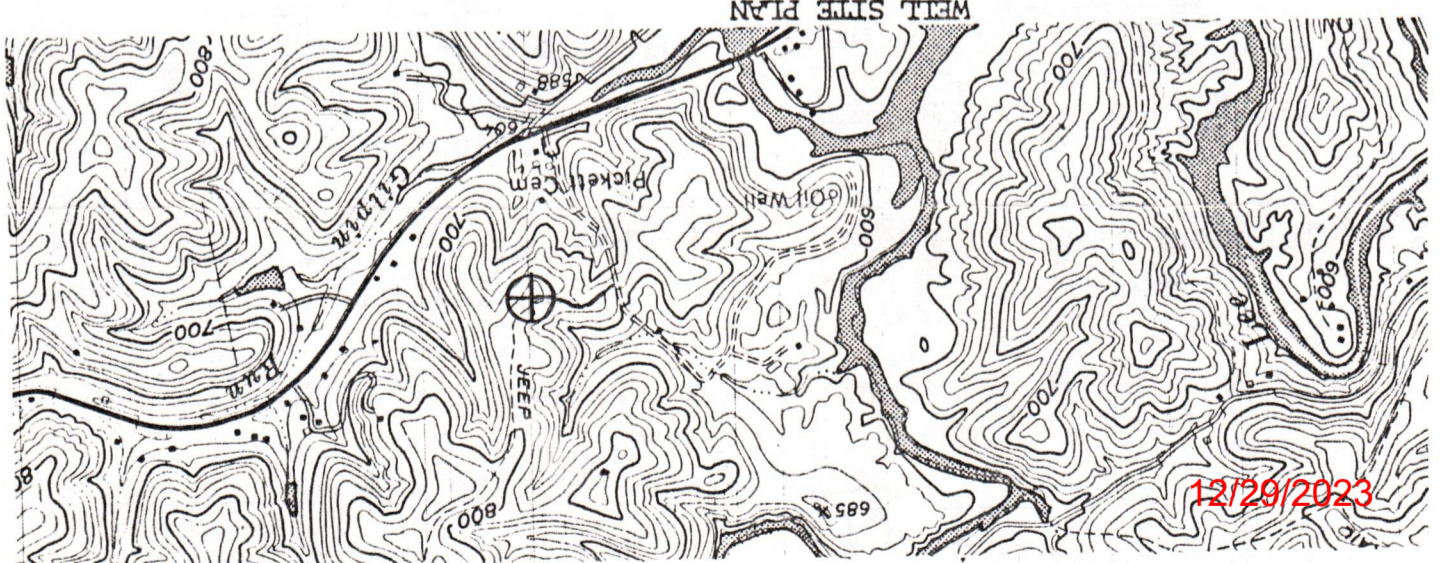
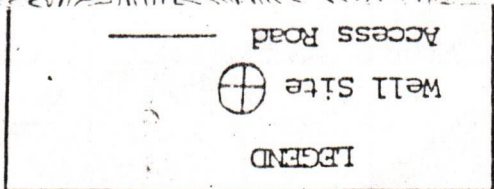
ADDRESS 116 Post Avenue

Ripley, WV 25271

PHONE NO. 372-2709

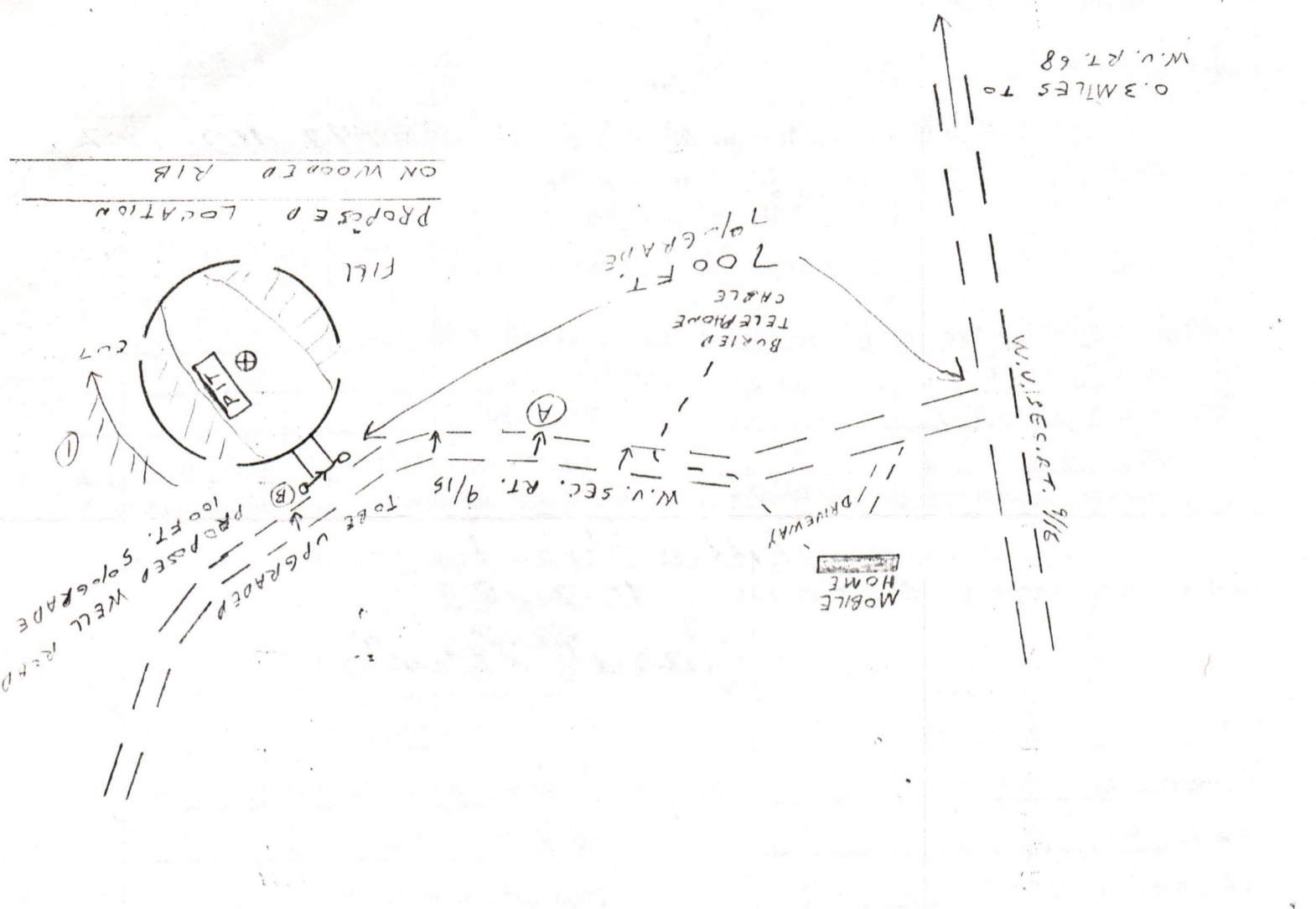
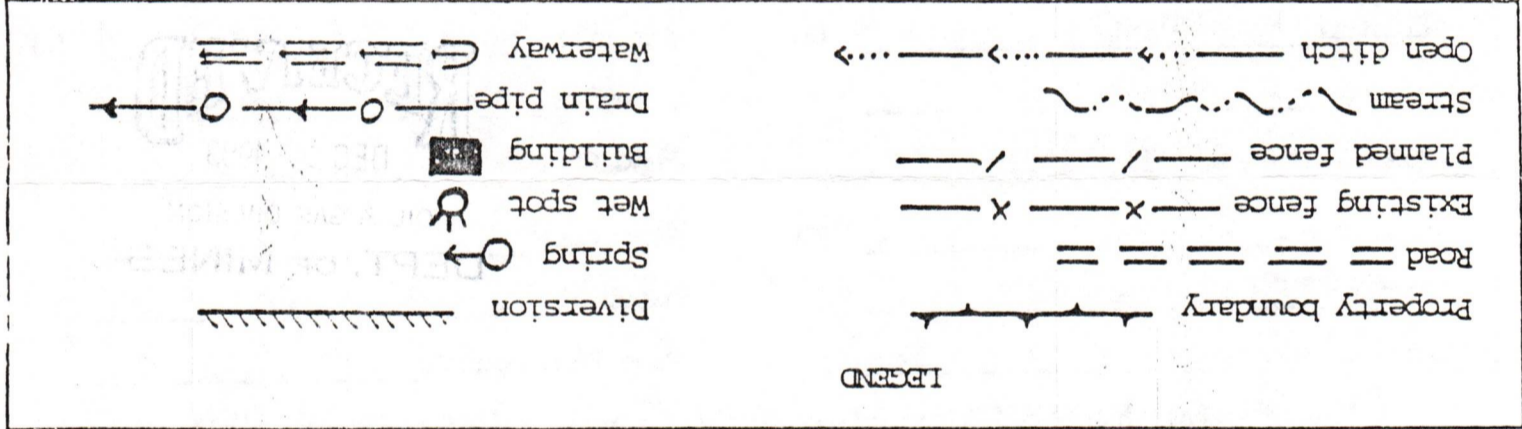
NOTES: Please request landowner's cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTO COPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE LUBCK



3202/02/21

Sketch to include well location, existing access road, roads to be constructed, well site, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.



1) Date: November 17, 1983

2) Operator's Well No. KEM #354

3) API Well No. 47-107-1302

State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name John A. Kroupa
Address Rt. 1, Box 127A
Lubeck, WV

(ii) Name _____
Address _____

(iii) Name _____
Address _____

5(i) COAL OPERATOR None
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name None
Address _____

Name _____
Address _____

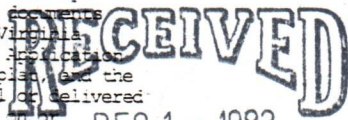
5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat and the Construction and Reclamation Plan have been mailed by registered or certified mail, or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.



DEC 1 - 1983

OIL & GAS DIVISION

DEPT. OF MINES

6) 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.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other 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.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by

R. A. Pryce
this 29 day of November, 1983.
My commission expires 8/30, 1993.

Denise Carney
Notary Public, Jackson County,
State of West Virginia

WELL

OPERATOR Kaiser Exploration and Mining Company

By R. A. Pryce
Its General Manager
Address P. O. Box 8
Ravenswood, WV 26164
Telephone 304 273 5371

12/29/2023

12/29/2023

INSTRUCTIONS TO APPLICANT

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1p(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(1) "Coal operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(1), 11) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § 22-4-11(d), e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the reverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

(1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
Ansel Daitley Harvey Wigtal	Kaiser Exploration and Mining Company	1/8 of prevailing field price	761/49	778/345

FILE COPY
RECEIVED
FEB 27 1986



1) Date: January 31, 19 86
2) Operator's Well No. KEM #354, Wiga1
3) API Well No. 47 107 1302 Frac
State County Permit

DIVISION OF OIL & GAS STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas /
B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 789 Watershed: Gilpen Run
District: Harris County: Wood Quadrangle: Lubeck 449
- 6) WELL OPERATOR: Kaiser Exploration and Mining Company CODE: 2533-0
Address: P. O. Box 8 Ravenswood, WV 26164
- 7) DESIGNATED AGENT: R. A. Pryce
Address: Same
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED: Name Glenn Robinson
Address: Rt. 1, #6 Mt. Pleasant Estates Mineral Wells, WV 26150
- 9) DRILLING CONTRACTOR: Name _____ Address _____
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) Plug Oriskany, frac Berea & Brown Shale
- 11) GEOLOGICAL TARGET FORMATION, _____ produce commingled
- 12) Estimated depth of completed well, _____ feet
- 13) Approximate strata depths: Fresh, N/A feet; salt, N/A feet.
- 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes _____ / No /

15) 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	10 3/4	Mill	45.5	X		264'	264'	175 sks class A	Sizes
Coal		Reject							
Intermediate	7"	J-55	20	X		1825'	1825'	275 sks	Depths set
Production	4 1/2	J-55	10.5	X		4410'	4410'	250 sks pozmix	Perforations:
Tubing									Top 4335 Bottom 4340
Liners									

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-107-1302-Frac Date March 17 19 86

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. 8) 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
Permit expires March 17, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>AO</u>	Plat: <u>MS</u>	Casing: <u>MS</u>	Fee: <u>969339</u>	WPCP FRAC TANK	S&E: <u>MS</u>	Other
---	------------------	-----------------	-------------------	--------------------	----------------	----------------	-------

NOTE: Keep one copy of this permit posted at the drilling location.
Director, Division of Oil and Gas
See the reverse side of the APPLICANT'S CARD for instructions to the well operator. 12/29/2023 File

5902

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) WELL TYPE: Oil
 2) LOCATION: Blount County, Georgia
 3) WELL OPERATOR: Blount County, Georgia
 4) PROPOSED WELL WORK: Drilling
 5) GEOLOGICAL TARGET FORMATION: WV
 6) CASING AND TUBING PROGRAM: WV

OFFICE USE ONLY

This part of Form WW-2(B) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		
OTHER INSPECTIONS		

Reason: _____

Reason: _____



1) Date: January 31, 19 86
 2) Operator's Well No. KEM #354, Wigan
 3) API Well No. 47 State 107 County 1302 Permit

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

APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 789 Watershed: Gilpen Run
 District: Harris County: Wood Quadrangle: Lubeck
- 6) WELL OPERATOR: Kaiser Exploration and Mining Company CODE: _____ 7) DESIGNATED AGENT: R. A. Pryce
 Address: P. O. Box 8 Address: Same
Ravenswood, WV 26164
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED: Name Glenn Robinson
 Address: Rt. 1, #6 Mt. Pleasant Estates
Mineral Wells, WV 26150
- 9) DRILLING CONTRACTOR: Name _____
 Address _____
- 10) PROPOSED WELL WORK: Drill _____ / Drill deeper _____ / Redrill _____ / Stimulate _____ /
 Plug off old formation X / Perforate new formation X /
 Other physical change in well (specify): Plug Oriskany, frac Berea & Brown Shale
- 11) GEOLOGICAL TARGET FORMATION, produce commingled
- 12) Estimated depth of completed well, _____ feet
 13) Approximate trata depths: Fresh, N/A feet; salt, N/A feet.
 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes _____ / No X
- 15) 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
Conductor							Kinds	
Fresh water	<u>10 3/4</u>	<u>Mill</u>	<u>45.5</u>	<u>X</u>		<u>264'</u>	<u>264'</u>	<u>175 sks class A</u>
Coal		<u>Reject</u>						Sizes
Intermediate	<u>8"</u>	<u>J-55</u>	<u>20</u>	<u>X</u>		<u>1825'</u>	<u>1825'</u>	<u>275 sks</u>
Production	<u>4 1/2</u>	<u>J-55</u>	<u>10.5</u>	<u>X</u>		<u>4410'</u>	<u>4410'</u>	<u>250 sks pozmi</u>
Tubing								Depths set
Liners								Perforations
								Top <u>4335</u> Bottom <u>4340</u>

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The 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 22B-1-15,16, or 17 must be filed with the Department of Energy within fifteen (15) days after the receipt of this Application by the Department.

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 22B-1-36 if the permit is to be issued within fifteen (15) days of the filing of the Application.

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: _____ 12/29/2023

1) Date: January 31, 1986
Operator's
2) Well No. KEM #354, Wigan
3) API Well No. 47 - 107 - 1302 F
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

5 (i) COAL OPERATOR None

(i) Name John A. Kroupa
Address Rt. 1, Box 140
Belleville, WV 26133

Address _____

5 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD:

(ii) Name _____
Address _____

Name None
Address _____

(iii) Name _____
Address _____

Name _____
Address _____

5 (iii) COAL LESSEE WITH DECLARATION ON RECORD:

Name None
P 529 478 062

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

TO THE PERSON(S) NAMED

- (1) The Applicant involved in and, if applicable,
- (2) The plat
- (3) The Construction to plug a reclamation

THE REASON YOU WHICH ARE SUMMARIZED WW-2(B) DESIGNATED F

Take notice that the operator proposes to for a Well Work Permit well at the location. Copies of this Notice have been mailed by above (or by publication) to the Director of t

6) EXTRACTION RIGHT

Check and provide
 Included in hold the
 The requires

7) ROYALTY PROVISION

Is the right to or other contract for compensation to the volume of

If the answer you may use Aff:

Sent to <u>John A. Kroupa</u>	
Street and No. <u>Rt. 1 Box 140</u>	
P.O., State and ZIP Code <u>Belleville, WV 26133</u>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date <u>Jan 31 1986</u>	

the following documents:

sets out the parties involved and its location; Form WW-6, and the well work is only sent control and for

REGARDING THE APPLICATION COPY OF THE APPLICATION ACTION AT ALL.

The undersigned well operator, accompanying documents, with respect to a attached Form WW-6, and Reclamation Plan to the person(s) named by of mailing or delivery

or contracts by which I (use side for specifics.)

upon a lease or leases any similar provision not inherently related Yes No

If the answer is Yes,

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

RECEIVED
FEB 27 1986

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by

R. A. Pryce,

this 31 day of January, 1986,

My commission expires 8/30, 1986.

Doreese Carney
Notary Public, Jackson County,
State of West Virginia

WELL OPERATOR Kaiser Exploration and Mining Company

By R. A. Pryce

Its General Manager

Address P. O. Box 8

Ravenswood, WV 26164

Telephone 304-273-5371

12/29/2023

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Division of Oil & gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code §22B-1-9(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code §22B-1-36.
- 6) See Code §22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § § 22-4-11 (d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code §22B-1-6 and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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 §22B-1-2C and the reclamation required by Code §22B-1-30 and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code §22B-1-2(c) and 22B-1-29, and (v) if applicable, the consent required by Code §22B-1-21 from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22B-1-9, 22-B-1-13 and 22B-1-14.

INFORMATION SUPPLIED UNDER CODE §22B-1-8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book page</u>
Harvey Wigal et al	Kaiser Exploration and Mining Company	1/8 of prevailing field royalty	761/49 778/34

12/29/2023



1) Date: November 17, 1983
 2) Operator's Well No. KEM #354
 3) API Well No. 47
 State _____ County _____ Permit _____

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

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep X / Shallow _____)
- 5) LOCATION: Elevation: 789 Watershed: Gilpen Run
 District: Harris County: Wood Quadrangle: Lubeck
- 6) WELL OPERATOR Kaiser Exploration and Mining Co. 7) DESIGNATED AGENT R. A. Pryce
 Address P. O. Box 8 Address _____
Ravenswood, WV 26164 Same
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Jerry Tephahock Name Clint Hurt
 Address Rt. 1, Box 101A Address P. O. Box 388
Ripley, WV 25271 Elkview, WV
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Oriskany
- 12) Estimated depth of completed well, 4410 feet
 13) Approximate tratra depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No _____

RECEIVED
 DEC 1 - 1983

OIL & GAS DIVISION
 DEPT. OF MINES

15) 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>250</u>	<u>250</u>	<u>150 sks class a to surface</u>	
Coal									Sizes
Intermediate	<u>7"</u>			<u>X</u>		<u>1800</u>	<u>1800</u>	<u>65 sks 50/50</u>	<u>nozmix/100 sks Class</u>
Production	<u>3 1/2"</u>			<u>X</u>		<u>4410</u>	<u>4410</u>	<u>225 sks 50/50</u>	<u>Depth mix</u>
Tubing									
Liners									Perforations: Top Bottom

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)
 NAME: _____
 By _____
 Its _____ Date _____

(For execution by natural persons)
X John A. Krupa Date: 11/21/83
 (Signature)
X F. A. Krupa Date: 11-21-83
 (Signature)

12/29/2023
 Surface Owner

AFFIDAVIT OF PERSONAL SERVICE ON SURFACE OWNER

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DEC 1 - 1983

STATE OF West Va.,
COUNTY OF Ferguson Wood :

OIL & GAS DIVISION

DEPT. OF MINES

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

- (1) Notice on Form IV-2(A) / Form IV-3(A) / Form IV-4(A) /
- (2) Application on Form IV-2(B) / Form IV-3(B) / Form IV-4(B) /
- (3) Plat showing the well location on Form IV-6, and
- (4) Construction and Reclamation Plan on Form IV-9 (unless the application is to plug a well)

--all with respect to operator's Well No. K. 354 located in Harris District, Wood County, West Virginia, upon the person or organization named--

John A. Kroupa and F.A. Kroupa

--by delivering the same in Wood County, State of W.Va. on the 21 day of Nov, 1983 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

- Handing it to him / her / or, because he / she / refused to take it when I offered it, by leaving it in his / her / presence.
- Handing it to a member of his or her family above the age of 16 years named _____ who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

- Handing it to _____, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership:

- Handing it to the general partner, named _____, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

- Handing it to the corporation's employee / officer / director attorney in fact / named _____.

Walter K. Kelly

(Signature of person executing service)

Taken, subscribed and sworn before me this 22 day of Nov, 1983.
My commission expires Oct 28, 1983.

Stephen W. Kelly

Notary Public

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)

12/29/2023



STATE OF WEST VIRGINIA
 OIL AND GAS CONSERVATION COMMISSION
 CHARLESTON 25305

Theodore M. Streit, Administrator
 Department of Mines
 Office of Oil and Gas

RE: APPLICATION FOR PERMIT #47-107 -1302 TO DRILL DEEP WELL

COMPANY: Kaiser Exploration and Mining Co.

FARM: John A. Kroupa

COUNTY: Wood DISTRICT: Harris

The application of the above company is _____ approved _____
 (APPROVED - DISAPPROVED)

Applicant _____ has _____ complied with the provisions of Chapter twenty-two, HAS - HAS NOT four-A (§22-4A), of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission, as follows:

1. *Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners;*
2. *Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of the deep well, well name, and the name and address of the operator, and,*
3. *Provided a plat showing that the proposed location is a distance of 466 feet from the nearest unit boundary and showing the following wells drilling to or capable of producing from the objective formation within 3,000 feet of the proposed location:*

- 107-1221 - 3150'
- 107-1231 - 4400'
- 107-0433P- 2550'
- 107-0429P- 3900'
- 107-0424P- 4300'

Very truly yours,

Brett Loflin
 Brett Loflin
 Petroleum Engineer

RECEIVED

IV-35 (Rev 8-81) NOV 17 1984



CONFIDENTIAL

OIL & GAS DIVISION DEPT. OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date 12/10/84 Operator's Well No. KEM #354 Farm Wigal API No. 47 - 107 - 1302

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal / (If "Gas," Production X / Underground Storage / Deep X / Shallow /)

LOCATION: Elevation: 789 Watershed Gilpen Run District: Harris County Wood Quadrangle Lubeck

COMPANY Kaiser Exploration and Mining Company

ADDRESS P. O. Box 8 Ravenswood, WV 26164

DESIGNATED AGENT R. A. Pryce

ADDRESS Same

SURFACE OWNER John A. Kroupa

ADDRESS

MINERAL RIGHTS OWNER Harvey Wigal

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Glen Robinson Rt. 1 #6 Mt. Pleasant Estate, Mineralwells, WV 26150

PERMIT ISSUED 12/22/83

DRILLING COMMENCED 10/18/84

DRILLING COMPLETED 10/23/84

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

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 10 3/4" - 13-16", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Oriskany Sandstone Depth 4335-4340 feet

Depth of completed well 4420 feet Rotary X / Cable Tools

Water strata depth: Fresh N/A feet; Salt N/A feet

Coal seam depths: N/A Is coal being mined in the area? NO Drilled on fluid not known.

OPEN FLOW DATA

Producing formation Oriskany Sandstone Pay zone depth 4335-4340 feet

Gas: Initial open flow -- Mcf/d Oil: Initial open flow -- Bbl/d

Final open flow 300 Mcf/d Final open flow -- Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1500 psig (surface measurement) after 48 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 Oil: 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

(Continue on reverse side)

WOOD 1302

12/29/2023

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

10/31/84 Young Wireline perf Oriskany Sandstone from 4335' to 4340'.
 11/02/84 BJ Hughes 75% foam frac Oriskany Sandstone with #30,000 of
 20/40 sand, 400,000 scf N₂, 209 bbl fluid, ISIP-1670 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 and Shale			0	200	
Sand			200	250	
Shale and Siltstone			250	546	
Sand			546	620	
Shale and Siltstone			620	990	
Dunkard Sands			990	1208	
Shale			1208	1386	
Sand			1386	1450	
Shale			1450	1577	
Salt Sands			1577	1700	
Shale			1700	2036	
Coffee Shale			2036	2057	
Berea Sand			2057	2060	S/G
Shale			2060	3204	
Brown Shale			3204	3701	S/G @ 3685
Shale			3701	4034	
Marcellus Shale			4034	4204	S/G
Onondaga Limestone			4204	4324	
Oriskany Sandstone			4324	4370	S/G
Helderberg Limestone			4370	4448	
Total Depth			4448		

(Attach separate sheets as necessary)

Kaiser Exploration and Mining Company

Well Operator

By: RA P

12/29/2023

Date: 12/10/84

Note: Regulation 2.02(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."



IV-35
(Rev 8-81)

MAY 29 1986

State of West Virginia

Department of Mines
Oil and Gas Division

Date May 22, 1986
Operator's
Well No. KEM #354
Farm Wigal
API No. 47 - 107 - 1302-F

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas x / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production x / Underground Storage ___ / Deep ___ / Shallow x /)

LOCATION: Elevation: 789 Watershed Gilpen Run
District: Harris County Wood Quadrangle Lubeck

COMPANY Kaiser Exploration and Mining Company

ADDRESS P. O. Box 8, Ravenswood, WV 26164

DESIGNATED AGENT R. A. Pryce

ADDRESS P. O. Box 8, Ravenswood, WV 26164

SURFACE OWNER John A. Kroupa

ADDRESS Rt. 1, Box 127A, Lubeck, WV

MINERAL RIGHTS OWNER Harvey Wigal

ADDRESS Rt. 1, Box 134, Belleville, WV

OIL AND GAS INSPECTOR FOR THIS WORK Glenn

Robinson ADDRESS Mineral Wells, WV

PERMIT ISSUED _____

DRILLING COMMENCED 10/17/84

DRILLING COMPLETED 10/23/84

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
10 3/4 13-10"	263	263	175 sks clas
9 5/8			
8 5/8			
7	1825	1825	175 50/50 po 100 sks clas
5 1/2			
4 1/2	4409	4409	250 sks 50/50 pozmix
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 4335-4340 feet

Depth of completed well 4448 feet Rotary x / Cable Tools _____

Water strata depth: Fresh _____ feet; Salt _____ feet Drilled on fluid,

Coal seam depths: _____ Is coal being mined in the area? x

OPEN FLOW DATA

Producing formation Brown Shale Pay zone depth 3514'-3699' feet

Gas: Initial open flow -- Mcf/d Oil: Initial open flow -- Bbl/d

Final open flow 200* Mcf/d Final open flow -- Bbl/d

Time of open flow between initial and final tests -- hours

Static rock pressure 800* psig (surface measurement) after 120 hours shut in

(If applicable due to multiple completion--)

12/29/2023

Second producing formation Berea Sand Pay zone depth 2056'-2060' feet

Gas: Initial open flow -- Mcf/d Oil: Initial open flow -- Bbl/d

Final open flow 200* Mcf/d Oil: Final open flow -- Bbl/d

Time of open flow between initial and final tests -- hours

Static rock pressure 800* psig (surface measurement) after 120 hours shut in

* Static rock pressures and final open flows are commingled

(Continue on reverse side)

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

- 5/01/86 McCullough perforated the shale from 3514'-3699' with 19 shots.
- 5/06/86 Halliburton 75 quality foam fractured with 60,000# of 20/40 sand, 760,000 SCF nitrogen and 264 bbl fluid at average pressure of 2750 psig.
- 5/06/86 McCullough perforated the Berea from 2056'-2060' with 16 shots.
- 5/06/86 Halliburton 75 quality foam fractured with 60,000# of 20/40 sand, 765,000 SCF of nitrogen, and 263 bbl fluid at average pressure of 2000 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
See original OG-10					

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY

Well Operator

By: BA Pryce

12/29/2023

Date: May 22, 1986

Note: Regulation 2.02(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."

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

RECEIVED
OCT 23 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 47-107-1302

Oil or Gas Well OIL&GAS
(KIND)

Company <u>KAISER EXPLORATION & MINING CO</u> P.O. BOX 8 Address <u>RAVAENSWOOD, WV 26164</u> Farm <u>KROUPA/WIGAL</u> Well No. <u>KEM#354</u> District <u>HARRIS</u> County <u>WOOD</u> Drilling commenced <u>10/15/84 (LOCATION MADE)</u> Drilling completed _____ Total depth _____ Date shot _____ Depth of shot _____ Initial open flow _____ /10ths Water in _____ Inch Open flow after tubing _____ /10ths Merc. in _____ Inch Volume _____ Cu. Ft. Rock pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size 16 13 10 8 1/4 6 5/8 5 3/16 3 2 Liners Used			
CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____ NAME OF SERVICE COMPANY _____ COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES _____ FEET _____ INCHES _____ FEET _____ INCHES _____ FEET _____ INCHES _____ FEET _____ INCHES				

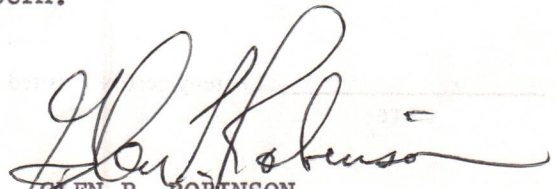
Drillers' Names _____

Remarks: CHECKED THIS LOCATION AFTER RECEIVING CALL THAT LOCATION AND PIT WAS BEING MADE;
LOCATION AND PIT LOOKS GOOD.

TALKED BRIEFLY WITH LANDOWNERS, MR. AND MRS. KROUPA.

15 OCTOBER 1984

DATE


GLEN P. ROBINSON

12/29/2023
DISTRICT WELL INSPECTOR

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

RECEIVED
OCT 23 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 47-107-1302

Oil or Gas Well GAS
(KIND)

Company <u>KAISER EXPLORATION & MINING CO</u> P.O. BOX 8 Address <u>RAVENSWOOD, WV 26164</u> Farm <u>KROUPA/WIGAL</u> Well No. <u>KEM#354</u> District <u>HARRIS</u> County <u>WOOD</u> Drilling commenced <u>10/17-84</u> Drilling completed _____ Total depth _____ Date shot _____ Depth of shot _____ Initial open flow _____ /10ths Water in _____ Inch Open flow after tubing _____ /10ths Merc. in _____ Inch Volume _____ Cu. Ft. Rock pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			Kind of Packer
	16			
	13			
	10			Size of
	8 1/4			
	6 5/8			Depth set
	5 3/16			
	3			Perf. top
	2			Perf. bottom
Liners Used				Perf. top
				Perf. bottom

CASING CEMENTED 10 3/4" SIZE 263' KENo. FT10/17/84 Date
NAME OF SERVICE COMPANY NOWSCO
COAL WAS ENCOUNTERED AT NA FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names W.T. ELLIS, GERALD STARCHER, & DAVID SNYDER

Remarks: RAN 263' OF 10 3/4" CSG AND CEMENT WITH 175SX CLASS "A" W/3% CACL₂ & 1/2"/SX FLOWSEAL. T.D. OF HOLE IS 288'

CURRENTLY @ 511'; WILL PROBABLY RUN 7" SOMETIME FRIDAY NIGHT.

18 OCTOBER 1984

DATE

Glen P. Robinson
GLEN P. ROBINSON

DISTRICT WELL INSPECTOR

12/29/2023

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

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OCT 30 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 47-107-1302

Oil or Gas Well GAS
(KIND)

Company <u>KAISER EXPLORATION & MINING CO</u> P.O. BOX 8 Address <u>RAVENSWOOD, WV 26164</u> Farm <u>WIGAL/KROUPA</u> Well No. <u>KEM# 354</u> District <u>HARRIS</u> County <u>WOOD</u> Drilling commenced <u>10/17/84</u> Drilling completed _____ Total depth _____ Date shot _____ Depth of shot _____ Initial open flow _____/10ths Water in _____ Inch Open flow after tubing _____/10ths Merc. in _____ Inch Volume _____ Cu. Ft. Rock pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			Kind of Packer _____ Size of _____ Depth set _____ Perf. top _____ Perf. bottom _____ Perf. top _____ Perf. bottom _____
	16			
	13			
	10			
	8 1/4			
	6 5/8			
	5 3/16			
	3			
	2			
	Liners Used			

CASING CEMENTED 7" SIZE 1825' No. FT. 10/20/84 Date

NAME OF SERVICE COMPANY NOWSCO

COAL WAS ENCOUNTERED AT NA FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names GERALD STARCHER

Remarks: 10/20/84 RAN 1825' 7" CSG AND CEMENTED WITH 175SX OF 50/50 POX W/10% SALT AND 1/2#/SX OF FLOWSEAL, AND 100SX OF CLASS A WITH 1/2#/SX FLOWSEAL.

OPEN HOLE T.D. 1845'

PRESENTLY @ 4349' AND WILL LOG AND RUN PRODUCTION CSG SOMETIME TONIGHT.

22 OCTOBER 1984

DATE

[Signature]
JOHN P. ROBINSON
12/29/2023
DISTRICT WELL INSPECTOR

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

RECEIVED

OCT 30 1984

OIL & GAS DIVISION

DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 47-107-1302

Oil or Gas Well GAS
(KIND)

Company <u>KAISER EXPLORATION & MINING CO</u> P.O. BOX 8 Address <u>RAVENSWOOD, WV 26164</u> Farm <u>WIGAL/KROUPA</u> Well No. <u>KEM #354</u> District <u>HARRIS</u> County <u>WOOD</u> Drilling commenced <u>10/17/84</u> Drilling completed <u>10/23/84</u> Total depth <u>4448'</u> Date shot _____ Depth of shot _____ Initial open flow _____/10ths Water in _____ Inch Open flow after tubing _____/10ths Merc. in _____ Inch Volume _____ Cu. Ft. Rock pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			Kind of Packer
	16			
	13			
	10			Size of
	8 1/4			
	6 5/8			Depth set
	5 3/16			
	3			Perf. top
	2			Perf. bottom
Liners Used				Perf. top
				Perf. bottom

CASING CEMENTED 4 1/2" SIZE 4410' No. FT. 10/23/84 Date
NAME OF SERVICE COMPANY .NOWSCO
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: RAN 4410' OF 4 1/2" CSG AND CEMENTED WITH 250SX OF 50/50 POZ W/10% SALT AND 12 1/2#/SX GILSON WILL PROBABLY WAIT A COUPLE OF DAYS BEFORE MOVING RIG TO #47-107-1324 DUE TO THE WEATHER!

24 OCTOBER 1984

DATE

Glen P. Robinson
GLEN P. ROBINSON

12/29/2023
DISTRICT WELL INSPECTOR



RECEIVED
 JUN 17 1985
 OIL & GAS DIVISION
 DEPT. OF MINES.

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
 INSPECTORS COMPLIANCE REPORT

COMPANY KAISER EXPLORATION & MINING CO
P.O. BOX 8
RAVENSWOOD, WV 26164

PERMIT NO 47-107-1302
 FARM & WELL NO WIGAL/DROUPA-KEM354
 DIST. & COUNTY HARRIS/WOOD

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	X	
25.04	Prepared before Drilling to Prevent Waste	X	
25.03	High-Pressure Drilling	X	
16.01	Required Permits at Wellsite	X	
15.03	Adequate Fresh Water Casing	X	
15.02	Adequate Coal Casing	X	
15.01	Adequate Production Casing	X	
15.04	Adequate Cement Strenght	X	
15.05	Cement Type	X	
23.02	Maintained Access Roads	X	
25.01	Necessary Equipment to Prevent Waste	X	
23.04	Reclaimed Drilling Pits	X	
23.05	No Surface or Underground Pollution	X	
23.07	Requirements for Production & Gathering Pipelines	X	
16.01	Well Records on Site	X	
16.02	Well Records Filed	X	
7.05	Identification Markings	X	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED GLEN W. ROBINSON

DATE 10 JUNE 1985

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. H. ...
 Administrator-Oil & Gas Division

June 19, 1985

DATE

12/29/2023

1R-26
Obverse

RECEIVED
JUN 11 1986

INSPECTOR'S PERMIT SUMMARY FORM

DIVISION OF OIL & GAS
DEPT. OF ENERGY

(3-17-86)

WELL TYPE GAS
ELEVATION 789'
DISTRICT HARRIS
QUADRANGLE LUBECK
COUNTY WOOD

API# 47-107-1302-F
OPERATOR KAIER EXPLORTION & MINING CO
TELEPHONE (304)273-5371
FARM WIGAL
WELL # KEM 354

SURFACE OWNER KROUPA COMMENTS NA TELEPHONE NA
TARGET FORMATION BROWN SHALE & BEREA DATE APPLICATION RECEIVED 3/1/86
DATE STARTED _____
LOCATION _____ NOTIFIED _____ DRILLING COMMENCED _____

WATER DEPTHS _____, _____, _____, _____
COAL DEPTHS _____, _____, _____, _____

CASING

Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up

TD _____ feet on _____

PLUGGING

Type	From	To	Pipe Removed

Pit Discharge date: _____ Type _____
Field analysis ph _____ fe _____ cl _____
Well Record received _____

Date Released 6/6/86

John P. Robinson
JOHN P. ROBINSON

Inspector's signature

12/29/2023

RECEIVED
NOV 11 1988

DEPT. OF ENERGY
DIVISION OF OIL & GAS

API# 47 _____

LIST ALL VISITS FOR THIS PERMIT

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20

DATE	TIME	PURPOSE	COMMENTS

Notes

1.0 API well number (If not available, leave blank 14 digits.)	47-107-1302				
2.0 Type of determination being sought (Use the codes found on the front of this form.)	103 Section of NGPA		Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4410 feet				
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Kaiser Energy, Inc. Name		Seller Code		
	300 Lakeside Drive Street				
	Oakland City	CA State	94643 Zip Code		
5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	New England Field Name				
	Wood County		WV State		
(b) For OCS wells:	N/A Area Name		Block Number		
	Date of Lease: Mo. Day Yr.		OCS Lease Number		
(c) Name and identification number of this well: (35 letters and digits maximum.)	Harvey Wigal, KEM #354				
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	N/A				
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Borg Warner Chemical, Inc. Name		Buyer Code		
(b) Date of the contract:	Mo. Day Yr.				
(c) Estimated annual production:	25 MMcf				
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	Dec, 84	(a) Base Price (\$/MMBTU) 2.951	(b) Tax .352	(c) All Other Prices (Indicate (+) or (-).) - - - -	(d) Total of (a), (b) and (c) 3.303
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)		2.951	.352	- - - -	3.303
9.0 Person responsible for this application	R. L. Coty Name Petroleum Engineer Title				
Agency Use Only Date Received by Juris. Agency	Signature R L Coty				
Date Received by FERC	December 10, 1984 Date Application is Completed		304 273-5371 Phone Number		

12/29/2023

98,051 FERC FORM 121 (effective Jan. 1, 1983)

U.S. DEPARTMENT OF ENERGY
Federal Energy Regulatory Commission
Washington, D.C. 20426

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)
(Sections 102, 103, 107 and 108)

GENERAL INSTRUCTIONS

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA.

Complete each appropriate item on the reverse side of this page. The code numbers used in items 4 and 6 can be found from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information on the same below. Also enter any additional remarks in the space below. The data reported on this form are not considered to be confidential and will not be treated as such.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 274.501. If there are any questions, call (202) 357-8585.

SPECIFIC INSTRUCTIONS

Use the codes in the table below for type of determination in item 2.

Section of NGPA (a)	Category Code (b)	Description (c)
102	1	New OCS lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS lease
103	-	New onshore production well
107	0	Deep (more than 15,000 feet) high cost gas
107	1	Gas produced from de pressured brine
107	2	Gas produced from coal seams
107	3	Gas produced from Devonian shale
107	5	Production enhancement gas
107	6	New tight formation gas
107	7	Reconvention tight formation gas
108	0	Stripper well
108	1	Stripper well - seasonally affected
108	2	Stripper well - enhanced recovery
108	3	Stripper well - temporary pressure buildup
108	4	Stripper well - water procedure

Enter the appropriate information regarding other Purchasers/Contracts.

Line No.	Contract Date (Mo, Da, Yr) (a)	Purchaser (b)	Buyer Code (c)
1			
2			
3			
4			
5			
6			

Remarks:

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

DEC 28 1984

Date: December 10, 19 84

Applicant's Name: Kaiser Energy, Inc.

Address: Kaiser Center 300 Lakeside Drive
Oakland, CA 94643

Gas Purchaser Contract No. _____

Date of Contract _____
(Month, day and year)

First Purchaser: Borg Warner Chemicals, Inc.

Address: International Center
(Street or P.O. Box)
Parkersburg, WV 26164
(City) (State) (Zip Code)

FERC Seller Code _____

AGENCY USE ONLY
WELL DETERMINATION FILE NUMBER
841211 -103-107-1302
Use Above File Number on all
Communications Relating to This Well

Designated Agent: Author Sandy

Address: Borg Warner Chemicals, Inc.
International Center
Parkersburg, WV 26101

FERC Buyer Code _____

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL BE ADDRESSED:

Name: R. L. Coty
(Print)

Petroleum Engineer
(Title)

Signature: R L Coty

Address: P. O. Box 8
(Street or P.O. Box)
Ravenswood, WV 26164
(City) (State) (Zip Code)

Telephone: 304) 273-5371
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

- 102 New Natural Gas
- 102-2 2.5 Mile Test
- 102-3 1000 Foot Deeper Test
- 102-4 New Onshore Reservoir

- 103 New Onshore Production Well
- X 103 New Onshore Production Well

- 107 High Cost Natural Gas
- 107-0 Deep (more than 15,000 feet)
- 107-1 Geopressured Brine
- 107-2 Coal Seams
- 107-3 Devonian Shale
- 107-5 Production enhancement
- 107-6 New Tight Formation
- 107-7 Recompletion Tight Formation

- 108 Stripper Well Natural Gas
- 108- Stripper Well
- 108-1 Seasonally Affected
- 108-2 Enhanced Recovery
- 108-3 Temporary Pressure Buildup

RECEIVED

DEC 11 1984

OIL & GAS DIV.
DEPT. OF MINES

Date Received

AGENCY USE ONLY
QUALIFIED
12/29/2023

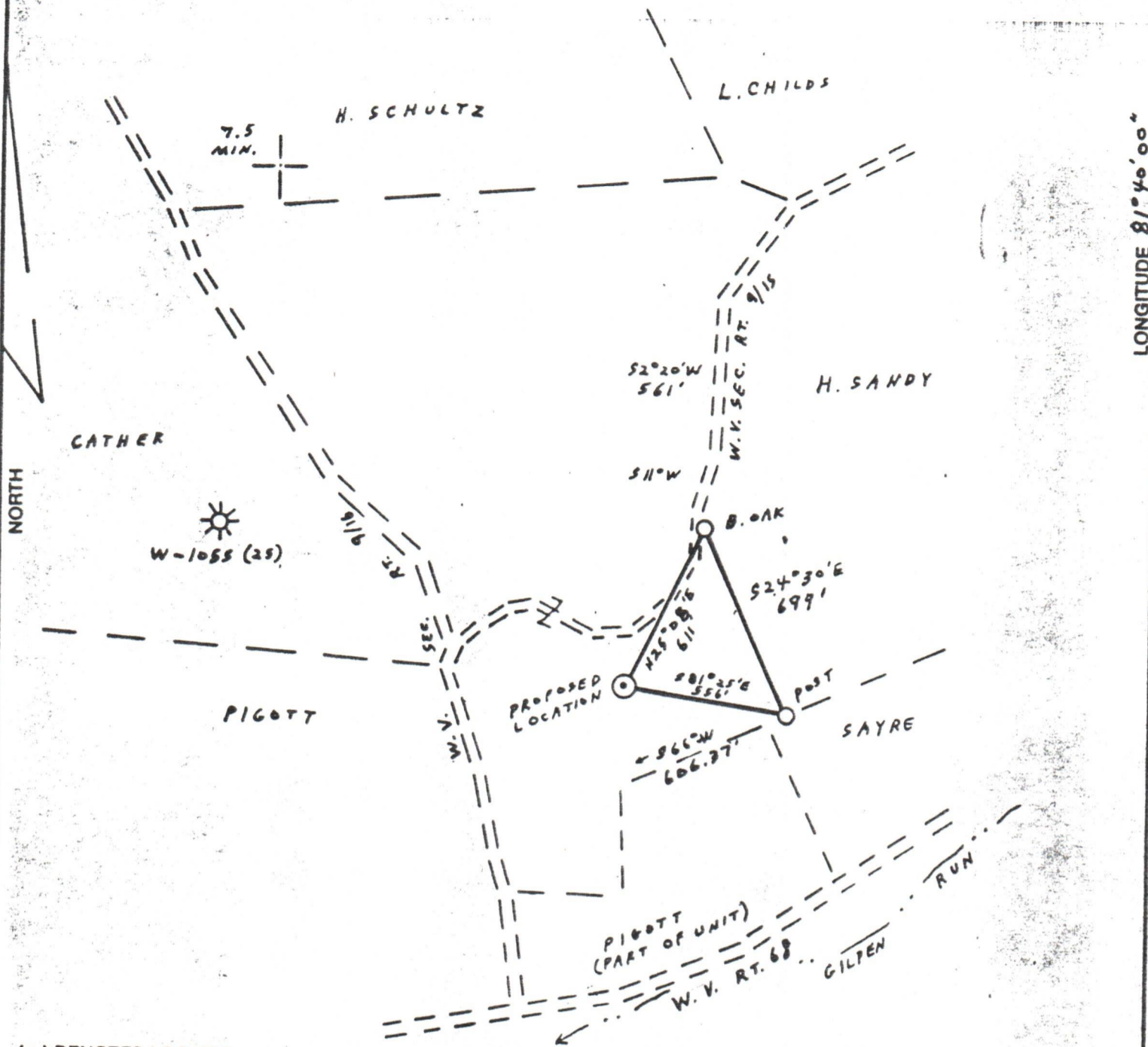
Determination Date

12/29/2023

11,950'

LATITUDE 39° 16' 00"

LONGITUDE 81° 40' 00"



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

N 16 E 6

FILE NO. 6-76
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION
1200' SW 1/4 OF LOCATION, ELEV. = 604

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. _____ I.L.S. 664



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE OCTOBER 26, 19 83
 OPERATOR'S WELL NO. 354
 API WELL NO. _____
47 - 107 - 1302-F
 STATE COUNTY PERMIT

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION X STORAGE _____ DEEP X SHALLOW _____
 LOCATION: ELEVATION 789 WATERSHED GILPEN RUN
 DISTRICT HARRIS COUNTY WOOD
 QUADRANGLE LUBECK

SURFACE OWNER JOHN A. KROUPA, ET AL. ACREAGE 65
 OIL & GAS ROYALTY OWNER HARVEY WIGAL, ET AL. LEASE ACREAGE 65
 LEASE NO. 93-05-1310

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 _____
 WELL OPERATOR KAISER EXPLORATION AND MINING CO. DESIGNATED AGENT KAISER EXPLOR. AND MINING CO.
 ADDRESS P.O. BOX 8, RAVENSWOOD, W. V. 26164 ADDRESS P.O. BOX 8, RAVENSWOOD, W. V. 26164

COUNTY NAME PERMIT

12/29/2023



1) Date: November 17, 19 83
 2) Operator's Well No. KFM #354
 3) API Well No. 47
 State _____ County _____ Permit _____

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

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep X / Shallow _____ /)
- 5) LOCATION: Elevation: 789 Watershed: Gilpen Run
 District: Harris County: Wood Quadrangle: Lubeck
- 6) WELL OPERATOR Kaiser Exploration and Mining Co. 7) DESIGNATED AGENT R. A. Pryce
 Address P. O. Box 8 Ravenswood, WV 26164 Address _____
Same
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Jerry Tephabock Name Clint Hurt
 Address Rt. 1, Box 101A Ripley, WV 25271 Address P. O. Box 388 Elkview, WV
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Oriskany
- 12) Estimated depth of completed well, 4410 feet
- 13) Approximate trata depths: Fresh, _____ feet; salt, _____ feet.
- 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No _____ /

15) 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		Kinds	Bottom
Conductor										
Fresh water	<u>10 3/4"</u>			<u>X</u>		<u>250</u>	<u>250</u>	<u>150 sks class a to surface</u>		
Coal									Sizes	
Intermediate	<u>7"</u>			<u>X</u>		<u>1800</u>	<u>1800</u>	<u>65 sks 50/50 pozmix/100 sks Class</u>		
Production	<u>4 1/2"</u>			<u>X</u>		<u>4410</u>	<u>4410</u>	<u>225 sks 50/50 pozmix</u>	Depths set	
Tubing										
Liners									Perforations:	
									Top	Bottom

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The 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.

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 the filing of the Application.

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: _____

Its _____

12/29/2023
 Coal Owner