



1) Date: January 11, 19 84
 2) Operator's Well No. KEM #492
 3) API Well No. 47 - 035 - 1991 1979
 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: 576 Watershed: Trace Fork
 District: Ravenswood County: Jackson Quadrangle: Sandyville
- 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, Devonian Brown Shale
 12) Estimated depth of completed well, 4136 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

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 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		Kinds	Sizes
Conductor										
Fresh water	10 3/4"			X		250	250	150 sks class A	to surface	
Coal										
Intermediate	7"			X		2025	2025	65 sks 50/50	pozmix, 100 sk class	
Production	4 1/2"			X		4136	4136	225 sks 50/50	pozmix	
Tubing								or as req. by rule 15.01		
Liners										

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-035-1929 ~~1927~~ Date February 6, 19 84

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 February 6, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: BLANKET	Agent: <i>[Signature]</i>	Plat: <i>[Signature]</i>	Casing <i>[Signature]</i>	Fee 966.000
-------------------------	------------------------------	-----------------------------	------------------------------	-----------------------

[Signature]
 Administrator, Office of Oil and Gas



OFFICE USE ONLY

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

1) Well No. _____ State _____ County _____

2) Operator's Name _____

3) AP1 Well No. _____ State _____ County _____

4) Well Operator _____ Address _____

5) LOCATION: District _____ County _____

6) LOCATION: Elevation _____

7) LOCATION: Underground storage _____

8) OIL & GAS INSPECTOR TO BE NOTIFIED: Name _____ Address _____

9) DRILLING CONTRACTOR: Name _____ Address _____

10) PROPOSED WELL WORK: Dill _____ Dill depth _____

11) GEOLOGICAL TARGET FORMATION: _____

12) Estimated depth of completed well _____

13) Approximate trap depths: Fresh _____

14) Approximate coal seam depths: _____

15) CASING AND TUBING PROGRAM: _____

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DEPT. OF MINES OIL & GAS DIVISION

OFFICE USE ONLY

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

Date	Date(s)
Application received	Follow-up inspection(s)
Well work started	"
Completion of the drilling process	"
Well Record received	"
Reclamation completed	"

OTHER INSPECTIONS

Reason: _____

Reason: _____

Board	Agent	Blind	Casing	Ice
OK	OK	OK	OK	OK

09/08/2023

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.



1) Date: January 11, 19 84
 2) Operator's Well No. KEM #492
 3) API Well No. 47 State 035 County 035 Permit 035

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 / Shallow X /)
- 5) LOCATION: Elevation: 576 Watershed: Trace Fork
 District: Ravenswood County: Jackson Quadrangle: Bandyville
- 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 9) DRILLING CONTRACTOR:
 Name Jerry Tephabock 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 X /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Devonian Brown Shale
- 12) Estimated depth of completed well, 4136 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

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	Sizes
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										
Intermediate	<u>7"</u>			<u>X</u>		<u>2025</u>	<u>2025</u>	<u>65 sks 50/50 pozmix, 100 sk class</u>		
Production	<u>4 1/2"</u>			<u>X</u>		<u>4136</u>	<u>4136</u>	<u>225 sks 50/50 pozmix</u>		
Tubing								<u>of 45 mg by 1/15/01</u>		
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

09/08/2023
 Coal Owner

1) Date: January 11, 19 84
2) Operator's Well No. KEM #492
3) API Well No. 47 - 035 - 1929
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 Romie S. & Anna J. Wolfe
Address Rt. 2, Box 74C
Sandyville, WV 25275

(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.

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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

WELL OPERATOR Kaiser Exploration and Mining Company

By RAP
Its General Manager
Address P. O. Box 8
Ravenswood, WV 26164
Telephone 273-5371

this 11 day of January, 19 84.
My commission expires August 30, 19 93.

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

09/08/2023

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 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 § 22-4-1b(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 § 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 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-1k(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.

I N F O R M A T I O N S U P P L I E D U N D E R C O D E § 22-4-11(d)

I N L I E U O F F I L I N G L E A S E (S) A N D O T H E R C O N T I N U I N G C O N T R A C T (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>
Carol S. Love	KAISER EXPLORATON AND MINING COMPANY	1/8 of prevailing field price	186/268
Romie Smith Wolfe			165/174



IV-9
(Rev 8-81)

DATE December 14, 1983

WELL NO. KEM 492

State of West Virginia

API NO. 47-035-1929

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

Telephone 273-5371

LANDOWNER Romie Wolfe SOIL CONS. DISTRICT Western

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

This plan has been reviewed by Western SCD. All corrections and additions become a part of this plan: Jan 4 1984 (Date)

Wayne W. Hughes
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>Cross Drains</u> (A)	Structure <u>None required</u> (1)
Spacing <u>135'</u>	Material _____
Page Ref. Manual <u>2-4</u>	Page Ref. Manual _____
Structure _____ (B)	Structure _____ (2)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____
Structure _____ (C)	Structure _____ (3)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____

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OIL & GAS DIVISION
DEPT. OF MINES

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.

OK

REVEGETATION

Treatment Area I	Treatment Area II
Lime <u>4</u> Tons/acre or correct to pH _____	Lime <u>Same as Area I</u> Tons/acre or correct to pH _____
Fertilizer <u>14-14-14</u> <u>600</u> lbs/acre (10-20-20 or equivalent)	Fertilizer _____ lbs/acre (10-20-20 or equivalent)
Mulch <u>Hay</u> <u>2</u> Tons/acre	Mulch _____ Tons/acre
Seed* <u>81% Orchard Grass/15% Rye</u> <u>32</u> lbs/acre	Seed* _____ lbs/acre
<u>Red Clover</u> <u>8</u> lbs/acre	_____ lbs/acre
_____ 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 09/08/2023
ADDRESS 116 Ppost Avenue
Ripley, WV 25271
PHONE NO. 372-2709


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

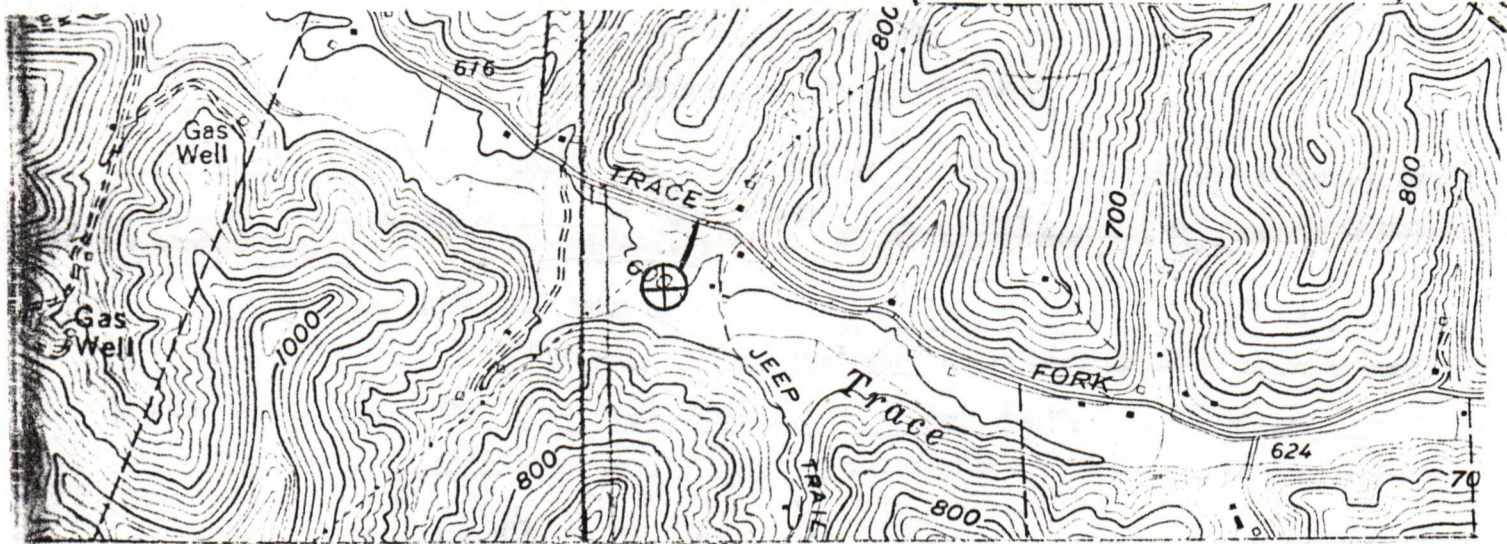
MEADOW

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE SANDYVILLE

LEGEND

Well Site 









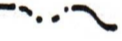

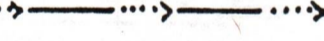

Access Road 

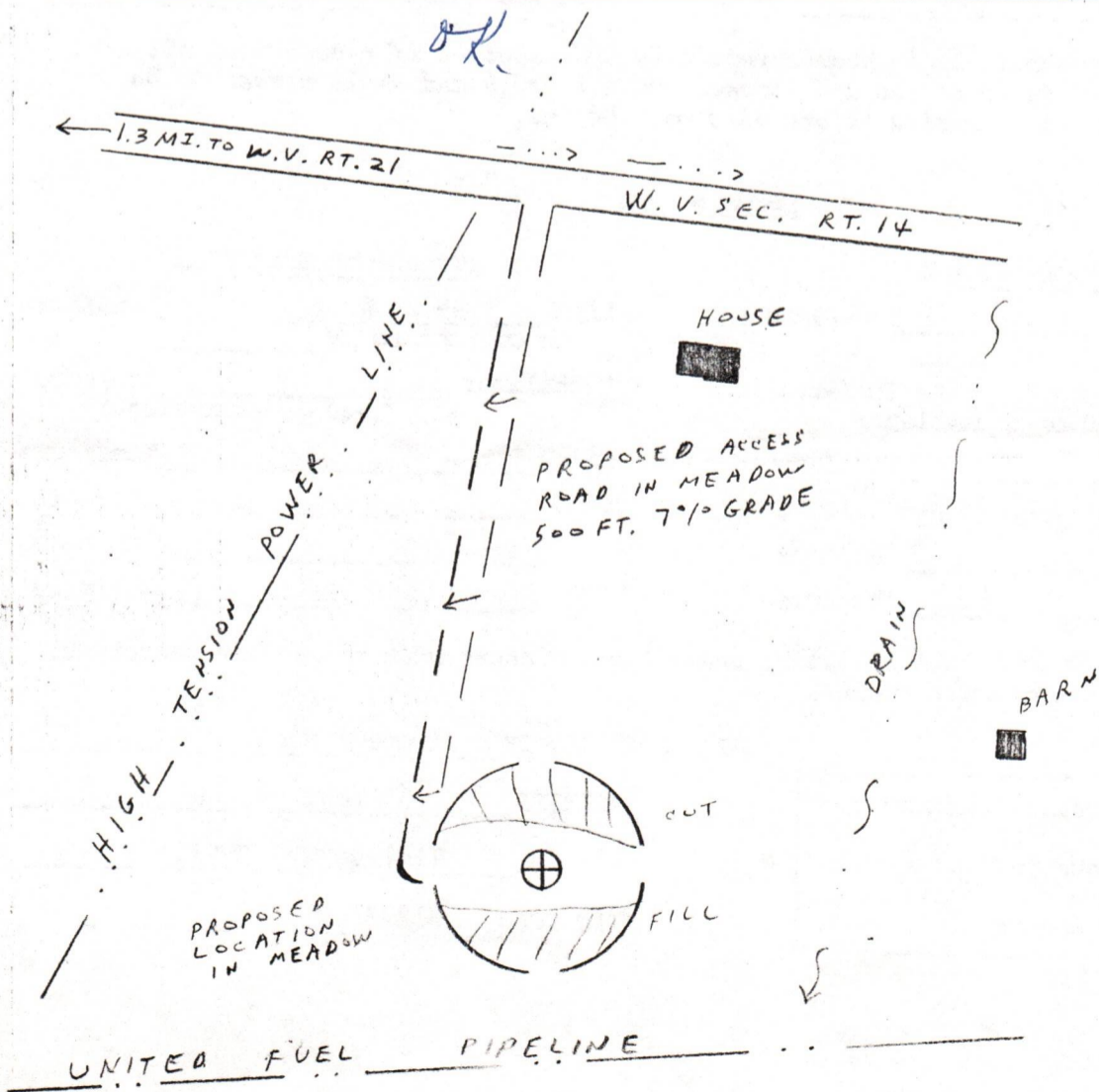


WELL SITE PLAN

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

LEGEND

Property boundary 	Diversion 
Road 	Spring 
Existing fence 	Wet spot 
Planned fence 	Building 
Stream 	Drain pipe 
Open ditch 	Waterway 



09/08/2023

AFFIDAVIT OF PERSONAL SERVICE ON SURFACE OWNER

STATE OF West Va,
COUNTY OF JACKSON:

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. KEM 492 located in RAVENSWOOD District, JACKSON County, West Virginia, upon the person or organization named--

ROMIE S. WOLFE ANNA Q WOLFE his wife

RECEIVED

--by delivering the same in JACKSON County, State of West Va on the 17th day of Jan, 1984 in the manner specified below.

OIL & GAS DIVISION
DEPT. OF MINES

[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 _____.

[Signature]
(Signature of person executing service)

Taken, subscribed and sworn before me this 19 day of JAN, 1984.
My commission expires OCT 28, 1993.

[Signature]
Notary Public Commissioner

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)

for the STATE of West Va.
09/08/2023

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U.S. DEPARTMENT OF JUSTICE
DIVISION OF INVESTIGATION



09/08/2023



1) Date: January 11, 19 84
 2) Operator's Well No. KEM 1492
 3) API Well No. 47 State 035 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 / Shallow X /)
- 5) LOCATION: Elevation: 376 Watershed: Trace Fork
 District: Ravenswood County: Jackson Quadrangle: Bandyville
- 6) WELL OPERATOR Kaiser Exploration and Mining Co. 7) DESIGNATED AGENT R. A. Pryce
 Address P. O. Box 8 Address Same
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 Address P. O. Box 328
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- 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate
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 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Devonian Brown Shale
- 12) Estimated depth of completed well, 4136 feet
- 13) Approximate strata depths: Fresh, feet; salt, feet.
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RECEIVED
 FEB 2 - 1984
 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		Kinds	Depths
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										
Intermediate	<u>7"</u>			<u>X</u>		<u>2025</u>	<u>2025</u>	<u>55 sks 50/50 pozmix, 100 sk class</u>		
Production	<u>4 1/2"</u>			<u>X</u>		<u>4136</u>	<u>4136</u>	<u>225 sks 50/50 pozmix</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.)

(For execution by natural persons)

NAME: _____
 By _____
 Its _____ Date _____

Ronnie S. Wolfe Date: 1-17-84
 (Signature)
Anna J. Wolfe Date: 1-17-84
 (Signature)

09/08/2023

Surface Owner



IV-35
(Rev 8-81)

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APR 1 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date July 12, 1984

Operator's Well No. KEM #492

Farm R. S. Wolfe

API No. 47 - 035 - 1931 -

1929 ERAD

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 ___ /)

LOCATION: Elevation: 596' Watershed Trace Fork
District: Ravenswood County Jackson Quadrangle Sandyville

COMPANY Kaiser Exploration and Mining Company

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

DESIGNATED AGENT R. A. Pryce

ADDRESS same

SURFACE OWNER Romie and Anna Wolfe

ADDRESS Rt. 2, Box 74-C, Sandyville, WV 25275

MINERAL RIGHTS OWNER Carol S. Love

ADDRESS RFD 3, Box 148, Marietta, OH 45750

OIL AND GAS INSPECTOR FOR THIS WORK Jerry

Tephabock ADDRESS Rt. 1, Box 101A, Ripley, WV

PERMIT ISSUED 5/3/84

DRILLING COMMENCED 5/24/84

DRILLING COMPLETED 5/29/84

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"	257.35 KB	257.35 KB	175 sks Class w/3% CaCl ₂ & 1/2" sk celloflake
9 5/8			
8 5/8			
7	2044' KB	2044' KB	150 sks 50/50 pozmix, 100 sks Class A
5 1/2			
4 1/2	4114 KB	4114 KB	200 sks 50/50 pozmix
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Brown Shale Depth 3738 feet

Depth of completed well 4141 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

OPEN FLOW DATA

Producing formation Devonian Brown Shale Pay zone depth 3738 feet

Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 1000 commingled Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1190 psig (surface measurement) after hours shut in

(If applicable due to multiple completion--)

Second producing formation Berea Sandstone Pay zone depth 2269 feet

Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 1000 commingled Mcf/d Oil: Final open flow 0 Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 1190 psig (surface measurement) after 4 hours shut in

(Continue on reverse side)

09/08/2023

RECEIVED

APR 1 - 1988

OIL & GAS DIVISION
DEPT. OF MINES

09/08/2023



IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date July 12, 1984
Operator's
Well No. KEM #492
Farm R. S. Wolfe
API No. 47 - 035 - 1931

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 /)

LOCATION: Elevation: 596' Watershed Trace Fork
District: Ravenswood County Jackson Quadrangle Sandyville

COMPANY Kaiser Exploration and Mining Company

ADDRESS P.O. Box 8, Ravenswood, WV 26264

DESIGNATED AGENT R. A. Pryce

ADDRESS same

SURFACE OWNER Romie and Anna Wolfe

ADDRESS Rt. 2, Box 74-C, Snadyville, WV 25275

MINERAL RIGHTS OWNER Carol S. Love

ADDRESS RFD 3, Box 148, Marietta, OH 45750

OIL AND GAS INSPECTOR FOR THIS WORK Jerry

Tephabock ADDRESS Rt. 1, Box 101A, Ripley, WV

PERMIT ISSUED

DRILLING COMMENCED 5/24/84

DRILLING COMPLETED 5/29/84

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"	257.35KB	257.35KB	175 sks class A w/3% CaCl ₂ & # sk celloflake
9 5/8			
8 5/8			
7	2044'KB	2044'KB	150 sks 50/50 pozmix, 100 sks class A
5 1/2			
4 1/2	4114 KB	4114 KB	200 sks 50/50 pozmix
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Brown Shale Depth 3738 feet

Depth of completed well 4141 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 Devonian Brown Shale Pay zone depth 3738 feet

Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 1000 commingling Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 1190 psig (surface measurement) after hours shut in

(If applicable due to multiple completion--)

Second producing formation Berea Sandstone Pay zone depth 2269 feet

Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 1000 commingling Mcf/d Oil: Final open flow 0 Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 1190 psig (surface measurement) after 4 hours shut in

(Continue on reverse side)

09/08/2023

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

6/05/84 - YOUNG's Wireline: perf Brown Shale from 3738-4063' with 20 holes, 140 data.
 6/06/84 - NOWSCO: foam frac'd the shale (90 quality); breakdown pressure: 2000 psig; breakdown fluid: N2; maximum pressure: 3200 psig; total sand: 60,000# of 20/40; total N2: 1122 MSCF; total fluid: 149 bbl; ISIP: 2000 psig; 5-min SIP: 1940 psig.
 YOUNG's to perforate Berea: 2269-2274' with 20 (.40") holes.
 NOWSCO: foam frac'd Berea; breakdown pressure; 3180 psig; breakdown fluid: N2 maximum pressure: 3200 psig; treating pressure: 2300 psig; total sand; 60,000# of 20/40; total N2: 945.8 mscf; total fluid: 129 bbl; ISIP: 2040 psig; 5-min SIP: 1900 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	120	
Sand			120	220	
Shale			220	290	
Siltstone			290	503	
Sand			503	567	
Siltstone			567	764	
Sand			764	824	
Siltstone and Shale			824	1564	
Dunkard Sands			1564	1757	
Shale			1757	1882	
Salt Sands			1882	2065	
Big Lime (Greenbrier)			2065	2160	
Shale			2160	2172	
Big Injun Sand			2172	2262	
Shale			2262	2606	
Coffee Shale			2606	2626	
Berea Sand			2626	2634	S/G
Shale			2634	3866	S/G @ 3333
Brown Shale			3866	4454	S/G @ 4220, 4292
Shale			4454	4628	
Total Depth			4628		

(Attach separate sheets as necessary)

Kaiser Exploration and Mining Company
Well Operator

By: *R.A. [Signature]*

09/08/2023

Date: July 24, 1984

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

JUL 18 1984

OIL & GAS DIVISION
INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 035 1929

Oil or Gas Well _____
(KIND)

Company <u>Kaiser Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Wolfe</u>	16			Kind of Packer _____
Well No. <u>Kem 492</u>	13			
District _____ County <u>Jackson</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbla., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: _____

Blowing off Frac to change valve, needs reclaimed.

7 10 84

DATE

Jerry T. ...
09/08/2023

Form 26
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner		Location		Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES			CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION			RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

DATE I hereby certify I visited the above well on this date.

09/06/2023
DEPT. MINES INSPECTOR



RECEIVED

AUG 29 1984

OIL & GAS DIVISION

DEPT. OF MINES

Department of Mines

Oil and Gas Division

Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

COMPANY Kaiser Exploration & Mining Co. PERMIT NO 035 1929
P. O. Box 8 FARM & WELL NO Kem 492
RAvenswood, WV 26164 DIST. & COUNTY Jackson

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work		
25.04	Prepared before Drilling to Prevent Waste		
25.03	High-Pressure Drilling		
16.01	Required Permits at Wellsite		
15.03	Adequate Fresh Water Casing		
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing		
15.04	Adequate Cement Strenght		
15.05	Cement Type		
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		
16.02	Well Records Filed		
7.05	Identification Markings	X	

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

SIGNED *James Tephald*
DATE 8 24 84

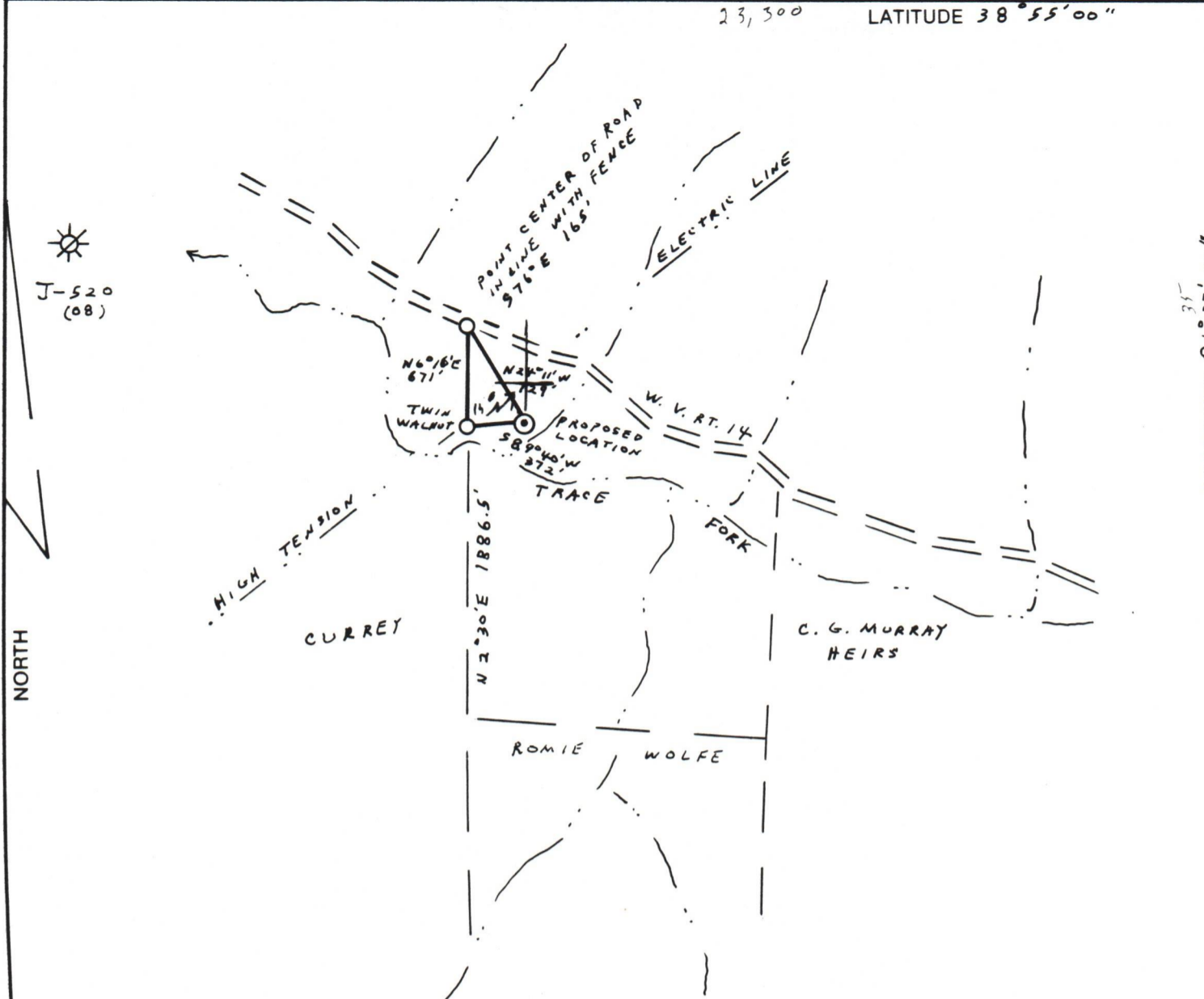
Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

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

January 28, 1985

DATE

11,300'
23,300' LATITUDE 38°55'00"



REFERENCE POINTS:
S55°W 194' TO 22" SYCAMORE
S35°28'E 291' TO 6" SYCAMORE

54E9

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

FILE NO. 7-5
DRAWING NO. _____
SCALE 1"=1,000'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION SPOT ELEV. 616, 2,000' N.W. OF LOCATION

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

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE DECEMBER 16, 1983
OPERATOR'S WELL NO. KEM 492
API WELL NO. _____

47 - 035 - 1929
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 596 WATERSHED TRACE FORK
DISTRICT RAVENSWOOD COUNTY JACKSON
QUADRANGLE SANDYVILLE
SURFACE OWNER ROMIE S. AND ANNA J. WOLFE ACREAGE 128.75
OIL & GAS ROYALTY OWNER CAROL S. LOVE, ET AL. LEASE ACREAGE 128.75
LEASE NO. 91-09-1471
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION DEVONIAN BROWN SHALE ESTIMATED DEPTH 4136'
WELL OPERATOR KAISER EXPL. AND MINING Co. DESIGNATED AGENT KAISER EXPLORATION & MINING Co.
ADDRESS P.O. BOX 8, RAVENSWOOD, W.V. 26164 ADDRESS P.O. BOX 8, RAVENSWOOD, W.V. 26164

09/08/2023

FORM IV-6 (8-78)
H.T. HALL