



1) Date: August 20, 19 84
 2) Operator's Well No. KEM #378
 3) API Well No. 47 - 035 - 2005
 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: 985' Watershed: Bee Run of Grasslick Creek 03247
 District: Ripley County: Jackson Quadrangle: Ripley KENNA
 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 25071
 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, 4540 feet
 13) Approximate trata depths: Fresh, ~ 855 feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes No

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 SEP 7 - 1984

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"			X		885 935	885 935	350 sks class A to surface	
Coal								65 sks 50/50 ^{Sizes} pozmix	
Intermediate	7"			X		2395	2395	100 sks class A	
Production	4 1/2"			X		4540	4540	225 sks 50/50 ^{Depos} pozmix	
Tubing									Perforations:
Liners									Top Bottom

DEPT. OF MINES

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-035-2005 Date September 26, 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 September 26, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>86</u> BLANKET	Agent: <input checked="" type="checkbox"/>	Plat: <u>MS</u>	Casing: <u>MS</u>	Fee: <u>968-</u> <u>267</u>
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Margaret J. Hasse
 Administrator, Office of Oil and Gas

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



OFFICE USE ONLY

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

1) LOCATION: B (Oil/Gas) Production Shallow Deep Underground Well No. 47 - 035 - 2005

2) WELL OPERATOR: KATSET Exploration and Mining Co. - DESIGNATED AGENT R. A. PRYCE
Address: P.O. Box 10, Ravenwood, WV 26064

3) DRILLING CONTRACTOR: Jettie Techcock
Address: P.O. Box 308, Elkview, WV 25071

4) PROPOSED WELL WORK: Drill Plug old well Other physical change in well (specify): Deviation Brown State

5) ESTIMATED DEPTH OF COMPLETED WELL: 4340 feet

6) APPROXIMATE COAL SEAM DEPTHS: Fresh 475 feet

7) APPROXIMATE COAL SEAM DEPTHS: Local being mined in the area? Yes

8) CASING AND TUBING PROGRAM: Casing Tubing

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DEPT. OF MINES
OIL & GAS DIVISION

Casing or Tubing Type	Size	Grade	Specifications		Footage Intervals		Cement Fill	Remarks
			Weight per ft.	Use	For tubing	Left in well		
Production	4 1/2"	J-55	23.8	X	0-2385	0-2385	380 sds 2 1/2" x 3/4" A to surface	
Intermediate	7"	J-55	23.8	X	2385-3385	2385-3385	100 sds 2 1/2" x 3/4" A	
Coal								
Fresh water	20 3/4"			X	885-2385	885-2385	380 sds 2 1/2" x 3/4" A to surface	

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		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____

Reason: _____

Hold: 20	Agent: ✓	Plate: ✓	Casing: ✓	Fee: ✓
BLANKS				

09/08/2023

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



IV-9
(Rev 8-81)

DATE August 16, 1984
WELL NO. KEM #378
API NO. 47 - 035 - 2005

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Kaiser Exploration and Mining Co DESIGNATED AGENT R. A. Pryce
Address P. O. Box 8 Address P. O. Box 8
Telephone Ravenswood, WV 26164 Telephone Ravenswood, WV 26164
LANDOWNER Mary Gorby, Hrs 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: 8/17/84 (Date)
Steven B. Feese
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Broad based dips (A)
Spacing 180'
Page Ref. Manual 2:4
Structure Drainage Ditch (B)
Spacing Earthen
Page Ref. Manual 2:12
Structure Road Culvert (C)
Spacing 16" diameter
Page Ref. Manual 2:7

Structure None required (1)
Material _____
Page Ref. Manual _____
Structure _____ (2)
Material _____
Page Ref. Manual _____
Structure _____ (3)
Material _____
Page Ref. Manual _____

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SEP 7 - 1984
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.

REVEGETATION

Treatment Area I

Lime 4 Tons/acre
or correct to pH _____
Fertilizer 14-14-14 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay 2 Tons/acre
Seed* 81% Orchard Grass/15% Ryegrass 16 lbs/acre
Kentucky 31 Fescue 16 lbs/acre
Red Clover 8 lbs/acre

Treatment Area II

Lime Same as area I _____ Tons/acre
or correct to pH _____
Fertilizer _____ lbs/acre
(10-20-20 or equivalent)
Mulch _____ Tons/acre
Seed* _____ 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

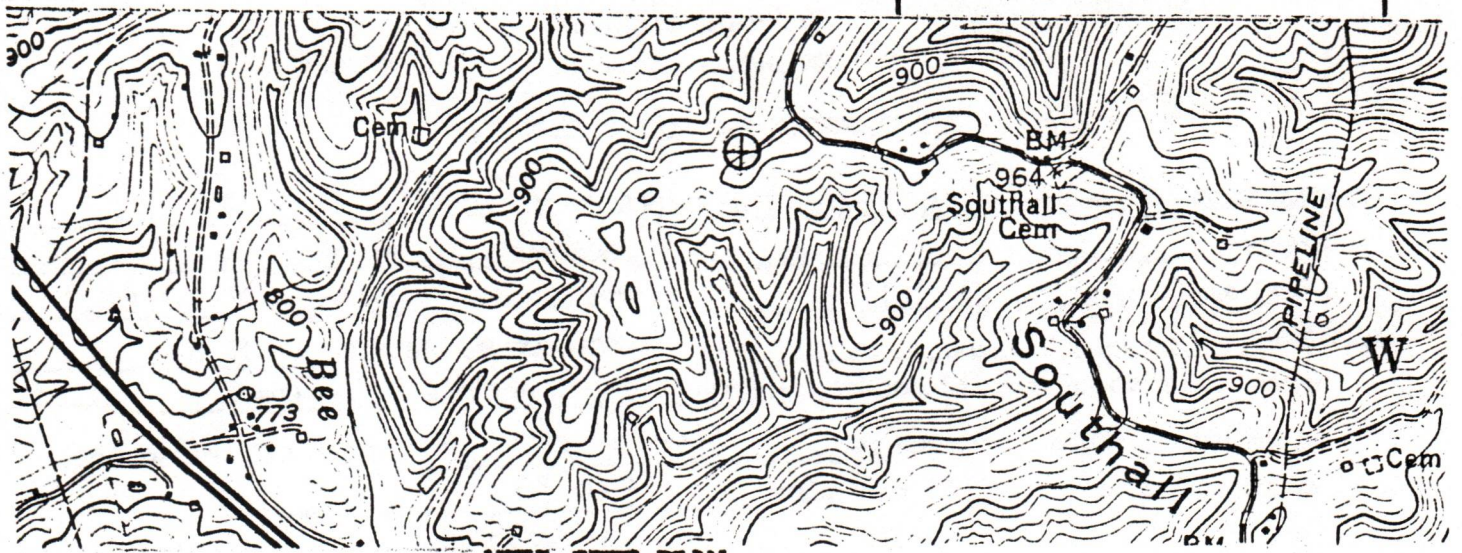
NOTES: Please request landowner's cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE KENNA

LEGEND

Well Site ⊕

Access Road ———

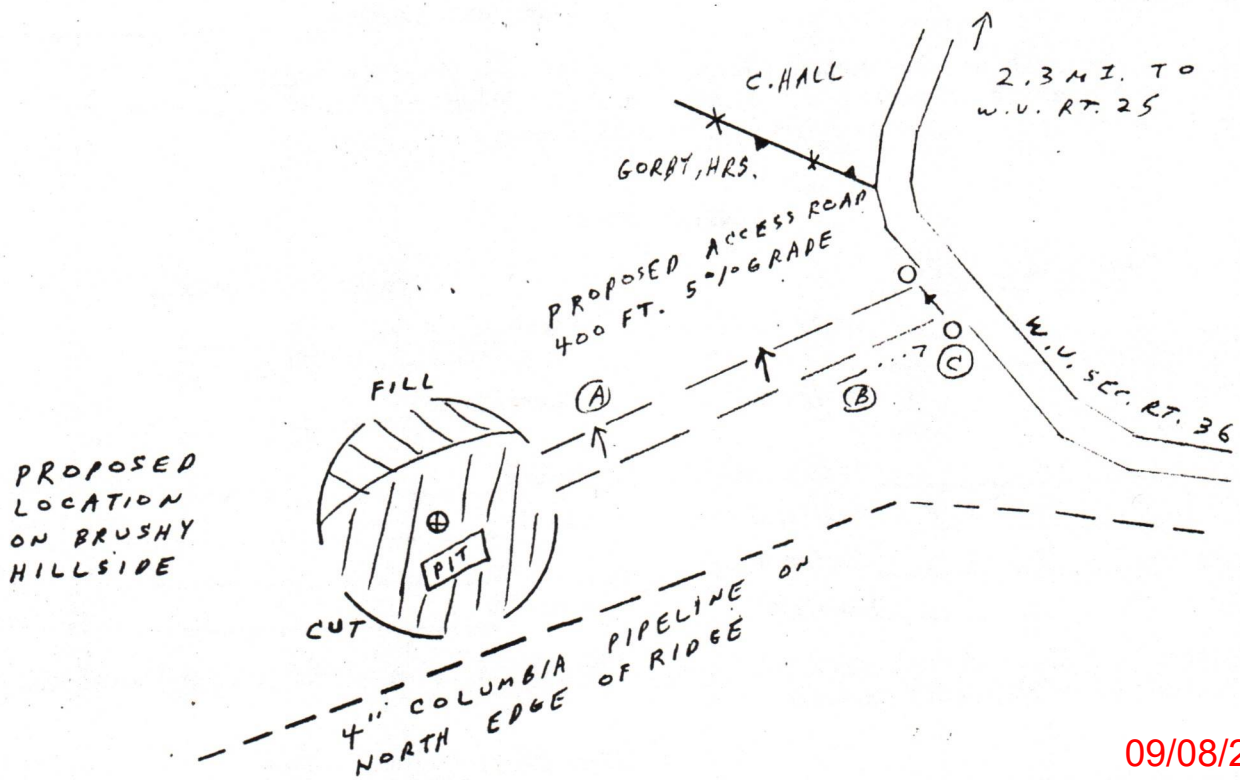


WELL SITE PLAN

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 — X — X —	Wet spot ☹
Planned fence — / — / —	Building ■
Stream ~ ~ ~ ~ ~	Drain pipe —○→○→
Open ditch —···→···→···→	Waterway ← = = = =



1) Date: August 20, 19 84
2) Operator's Well No. KEM #378
3) API Well No. 47-035-2005
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 Mary Gorby - C. W. Landfried
Address Sycamore Road
Ripley, WV 25271
 - (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 _____
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.

- 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 August, 1984.
My commission expires 8/30, 1993.

Denese 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

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.

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 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>
Mary Gorby - C. W. Landfried	Kaiser Exploration and Mining Company	1/8 of prevailing field price	158/959 186/412

AFFIDAVIT OF PERSONAL SERVICE ON SURFACE OWNER

STATE OF West Virginia,
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. K 378 located in Ripley District, JACKSON County, West Virginia, upon the person or organization named--

C. Edward Landfried

RECEIVED

--by delivering the same in JACKSON County, State of WV on the 4 day of Sept, 1984 in the manner specified below.

SEP 7 - 1984

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 .

William K. Shen
(Signature of person executing service)

Taken, subscribed and sworn before me this 4 day of Sept, 1984.
My commission expires Oct 28, 1993.

Stephen Kelly
Notary Public

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)

09/08/2023



1) Date: August 20, 19 84
 2) Operator's Well No. KEM #378
 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 _____ / Shallow X)
- 5) LOCATION: Elevation: 985' Watershed: Bee Run
 District: Ripley County: Jackson Quadrangle: Ripley
- 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 25071
- 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, Devonian Brown Shale
- 12) Estimated depth of completed well, 4540 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

RECEIVED
 SEP 7 1984
 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
First wear	<u>10 3/4"</u>			<u>X</u>		<u>885 938</u>	<u>885 938</u>	<u>350 sks class A to surface</u>	
Coal									Sizes
Intermediate				<u>X</u>		<u>2395</u>	<u>2395</u>	<u>65 sks 50/50 mix</u>	
Production	<u>4 1/2"</u>			<u>X</u>		<u>4540</u>	<u>4540</u>	<u>100 sks 2 1/2" mix</u> <u>225 sks 50/50 mix</u>	
Tubing									Perforations:
Liners									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)

A. Edward Lavynd Date: 9/4/84
 (Signature)
 _____ Date: _____
 (Signature)



IV-35
(Rev 8-81)

Date 11/16/84
Operator's
Well No. KEM 378
Farm Gorby
API No. 47 - 035 - 2005

State of West Virginia
Department of Mines
Oil and Gas Division

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

RECEIVED
DEC 13 1984
14
es

WELL TYPE: Oil ___ / Gas x / Liquid Injection ___ / Waste Disposal ___ / OIL & GAS DIVISION
(If "Gas," Production ___ / Underground Storage ___ / Deep shallow)

LOCATION: Elevation: 985 Watershed Bee Run
District: Ripley County Jackson Quadrangle Kenna

COMPANY Kaiser Exploration and Mining Company
ADDRESS P. O. Box 8 Ravenswood, WV 26164
DESIGNATED AGENT R. A. Pryce
ADDRESS Same
SURFACE OWNER Mary Gorby
ADDRESS Sycamore Road Ripley, WV 25271
MINERAL RIGHTS OWNER Mary Gorby
ADDRESS Same
OIL AND GAS INSPECTOR FOR THIS WORK Jerry
Tephabock ADDRESS Rt. 1 Ripley, WV 25271
PERMIT ISSUED _____
DRILLING COMMENCED 10/10/84
DRILLING COMPLETED 10/22/84
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.			
13-10 ³ / ₄	884	884	375 sks class A
9 5/8			
8 5/8			
7	2395	2395	175 sks 50/50 poz 100 sks class A
5 1/2			
4 1/2	4513	4513	225 sks 50/50 poz
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Brown Shale Depth 4323-4487 feet
Depth of completed well 4523 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 4323-4487 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d
*Final open flow 500 commingled Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1000 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
Second producing formation Berea Sandstone Pay zone depth 7648-2655 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow commingled Mcf/d Oil: Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 925 psig (surface measurement) after 72 hours shut in

09/08/2023

*Open flows are commingled.

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

- 11/6/84 Young's perf Lower Brown Shale 19 holes (.39" dia) from 4323'-4487'
- 11/6/84 Young's perf Berea 21 holes (.39" dia) from 2648'-2655'
- 11/7/84 Halliburton (fluid) and BJ Hughes (N₂) foam frac Lower Brown Shale.
Used: 60,000 lbs 20/40 sand; 662,500 scf total N₂; and 331 bbls total fluid
- 11/7/84 Halliburton (fluid) and BJ Hughes (N₂) foam frac Berea. Used: 60,000 lbs 20/40 sand; 687,500 scf total N₂; 346 bbls total fluid; 12 bbls 15% HCl

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Drillers' Depth					
(top hole not logged)					
Sand and Shale			0	2089	
Big Lime			2089	2175	
Big Injun			2175	2225	
Shale			2225	2400	
Loggers' Depth					
Shale			2400	2624	
Coffee Shale			2624	2646	
Berea Sandstone			2646	2656	S/G
Shale			2656	3898	
Brown Shale			3898	4480	S/G @ 4400
Shale			4480	4549	
Total Depth			4549		

(Attach separate sheets as necessary)

Kaiser Exploration and Mining Company
Well Operator

By: K A R

09/08/2023

Date: 11/16/84

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."

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

RECEIVED
OCT 22 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 035 2005

Oil or Gas Well _____
(KIND)

Company <u>Kaiser Explorationn</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Gorbyy</u>	16			Kind of Packer _____
Well No. <u>Kem 378</u>	13			Size of _____
District _____ County <u>Jackson</u>	10			Depth set _____
Drilling commenced _____	8 1/4			Perf. top _____
Drilling completed _____ Total depth _____	6 5/8			Perf. bottom _____
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks:
Ran 884' 103/4 csg set 894 kb cement 375 sks neat 3% cacl 1/4 lb per sk floo
plug down 7:00pm 10 17 84.

10 17 84
DATE

James T. Tolson
09/08/2023
DISTRICT WELL INSPECTOR

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:

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

DISTRICT WELL INSPECTOR
09/08/2023

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

RECEIVED

OCT 22 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 035 2005

Oil or Gas Well _____
(KIND)

Company <u>Kaiser Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Gorby</u>	16			Kind of Packer _____
Well No. <u>Kem 378</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 _____ bbls., 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:

Ran 2404 7;''csg set 2414kb cement halliburton 100 sks neat 3%cacl 1/4 lb per sk flocele and 175 sks 50/50 poz 10% salt 1/4 lb per sk flocele. plug down 1:15 am .

10 20 84

DATE

James T. ...
09/08/2023
DISTRICT WELL INSPECTOR

**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:

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

DISTRICT WELL INSPECTOR
09/08/2023

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

RECEIVED

DEC 3 - 1984

OIL & GAS DIVISION

DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 035 2005

Oil or Gas Well _____
(KIND)

Company Kaiser Exploration

Address _____

Farm gorby

Well No. Ken 378

District _____ County Jackson

Drilling commenced _____

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			Kind of Packer _____
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 _____ 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:

cleaning up after frac.

11 29 84
DATE

Jerry T. Tolson
09/08/2023
DISTRICT WELL INSPECTOR

Form 26
2/16/82

RECEIVED
DEC 3 - 1984
DEPT. OF MINES

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:

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

DISTRICT WELL INSPECTOR _____
09/08/2023

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

RECEIVED
FEB 22 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 035 2005

Oil or Gas Well _____
(KIND)

Company <u>Kaiser Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm _____	16			Size of _____
Well No. <u>Kem 378</u>	13			
District _____ County <u>Jackson</u>	10			Depth set _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 3/8			Perf. top _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.				
Oil _____ bbls., 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:

Needs some work done in spring before release.

2 14 85 DATE

James P. Leshchuk
DISTRICT WELL INSPECTOR
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.



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
December 27, 1984

COMPANY Kaiser Exploration & Mining Co.

PERMIT NO 035-2005

P. O. Box 8

FARM & WELL NO Mary Gorby KEM-378

Ravenswood, West Virginia 26164

DIST. & COUNTY Ripley/Jackson

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		
16.01	Required Permits at Wellsite	X	
15.03	Adequate Fresh Water Casing	X	
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing	X	
15.04	Adequate Cement Strength	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		
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 R. Tephalski

DATE

6/13/85

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

09/08/2023

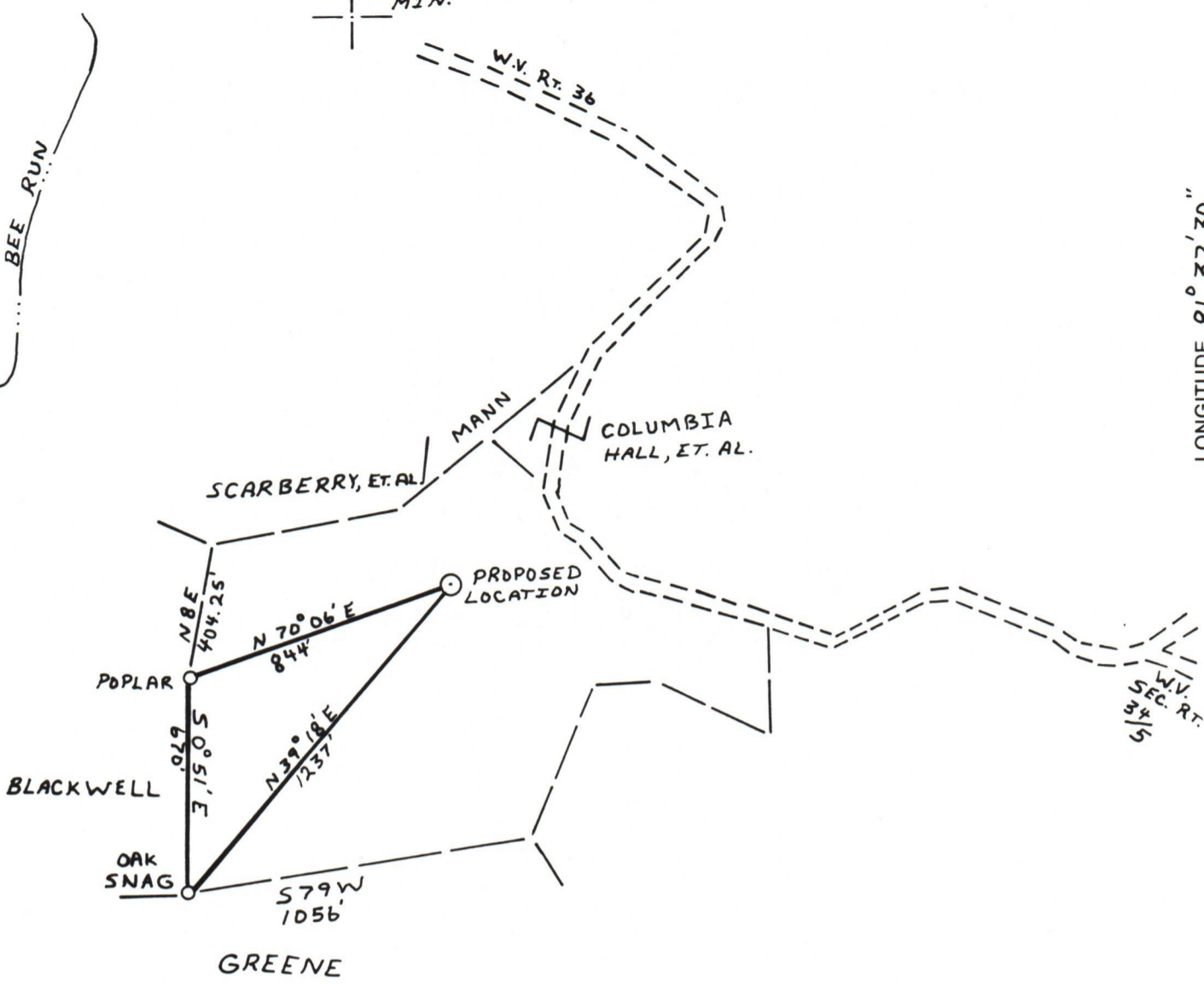
272 9/22/84

10,575'

LATITUDE 38° 45' 00"

LONGITUDE 81° 37' 30"

NORTH



☀
T-1665 (25)
K-191

REFERENCE POINTS:
N 53° 10' W 147' TO 12" POPLAR
N 27° 49' E 107' TO 8" SOURWOOD

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

S14 E9

FILE NO. 8-1
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION BENCH MARK ELEV. 964'
2080' EAST 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 AUGUST 15, 1984
 OPERATOR'S WELL NO. KEM 378
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 985' WATERSHED BEE RUN
 DISTRICT RIPLEY COUNTY JACKSON
 QUADRANGLE KENNA
 SURFACE OWNER MARY GORBY, HRS. ACREAGE 29.187
 OIL & GAS ROYALTY OWNER MARY GORBY, HRS. LEASE ACREAGE 28.687
 LEASE NO. 83-10-945

09/08/2023

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 4540'
 WELL OPERATOR KAISER EXPLORATION AND MINING CO DESIGNATED AGENT RA. PRYCE
 ADDRESS PO. BOX 8 RAVENSWOOD, W.V. 26164 ADDRESS PO. BOX 8 RAVENSWOOD, W.V. 26164

COUNTY NAME JACKSON
PERMIT 2005