



1) Date: January 17, 1984  
2) Operator's Well No. KEN #112  
3) API Well No. 47 - 035 - 1617  
State County Permit

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

PARTIAL

APPLICATION FOR A PERMIT TO PLUG AND ABANDON A WELL

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas X / Liquid injection \_\_\_\_\_ / Waste disposal \_\_\_\_\_ /  
B (If "Gas", Production X / Underground storage) \_\_\_\_\_ / Deep \_\_\_\_\_ Shallow X /)
- 5) LOCATION: Elevation: 840' Watershed: Grasslick Creek  
District: Ripley County: Jackson Quadrangle: Kenna
- 6) WELL OPERATOR Kaiser Exploration and Mining Co 7) DESIGNATED AGENT R. A. Pryce  
Address P. O. Box 8 Address Same  
Ripley, WV 25271
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) PLUGGING CONTRACTOR  
Name Jerry Tephabock Name McCullough Services  
Address Rt. 1, Box 100A Address P. O. Box 4209  
Ripley, WV 25271 Houston, TX 77210

WORK ORDER: The work order for the manner of plugging this well is as follows:

7/13/83: McCullough Services set 3.71" OD permanent bridge plug in 4 1/2" casing at 4400' (KB), to isolate Marcellus Shale from Brown Shale PBTD: 4400' (KB)

VERBAL PERMISSION

*[Handwritten signature]*

*Michael J. Jones*



**INSTRUCTION TO COAL OPERATORS  
OWNERS AND LESSEE**

The well operator named on the obverse side of IV-4(b) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified (which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Mines, Office Oil & Gas).

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not represented the operator will proceed to plug and fill said well in the manner required by Section 10, Article 4, Chapter 22 of the Code and given in detail on obverse side of this application.

**NOTE:** If you wish this well to be plugged according to 22-4-10(d) then as per Regulation 17:05 you must complete and return to this office on IV-16 "Request by Coal Operator, Owner, or lessee for plugging under Code 22-4-10(d)" prior to the issuance of this plugging permit.





1) Date: \_\_\_\_\_, 19\_\_\_\_  
2) Operator's Well No. \_\_\_\_\_ January 17 84  
3) API Well No. \_\_\_\_\_ KEM #112 -  
State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON A WELL

PARTIAL

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas \_\_\_\_\_ / Liquid injection \_\_\_\_\_ / Waste disposal \_\_\_\_\_ /  
B (If "Gas", Production \_\_\_\_\_ / Underground storage) \_\_\_\_\_ / Deep \_\_\_\_\_ Shallow \_\_\_\_\_ /)
- 5) LOCATION: Elevation: \_\_\_\_\_ 840' / Watershed: \_\_\_\_\_ Grasslick Creek /  
District: \_\_\_\_\_ Ripley / County: \_\_\_\_\_ Jackson / Quadrangle: \_\_\_\_\_ Kenna
- 6) WELL OPERATOR Kaiser Exploration and Mining Co. / Address: \_\_\_\_\_ P. O. Box 8 Ripley, WV 25271
- 7) DESIGNATED AGENT R. A. Pryce / Address: \_\_\_\_\_ Same
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED / Name: \_\_\_\_\_ Jerry Tephacock / Address: \_\_\_\_\_ Rt. 1, Box 100A Ripley, WV 25271
- 9) PLUGGING CONTRACTOR / Name: \_\_\_\_\_ McCullough Services / Address: \_\_\_\_\_ P. O. Box 4209 Houston, TX 77210

10) WORK ORDER: The work order for the manner of plugging this well is as follows:

7/13/83: McCullough Services set 3.71" OD permanent bridge plug in 4 1/2" casing at 4400' (KB), to isolate Marcellus Shale from Brown Shale  
PBD: 4400' (KB)

VERBAL PERMISSION

The law requires a comment period for surface owners. However, the permit can be issued in less than five days from the filing of the Application to plug and abandon a well 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 Permit to Plug and Abandon a Well, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-4(A), (2) an Application for a Well Work Permit on Form IV-4(B), and (3) a survey plat on Form IV-6, all for proposed well plugging work on my surface land as described therein.

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

(For execution by corporation, partnership, etc.)

(For execution by natural persons)

NAME: \_\_\_\_\_

\_\_\_\_\_  
(Signature) Date: \_\_\_\_\_

By \_\_\_\_\_

\_\_\_\_\_  
(Signature) Date: \_\_\_\_\_

Its \_\_\_\_\_ Date: \_\_\_\_\_

09/08/2023



**INSTRUCTIONS TO SURFACE OWNERS  
AND  
EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT  
ON WELL PLUGGING PERMIT**

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well plugging. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (**NOTE:** If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

**NOTE: You are not required to file any comment at all.**

**Where to file comments and obtain additional information:**

Administrator of the Office of Oil and Gas  
West Virginia Department of Mines  
1615 Washington Street East  
Charleston, West Virginia 25311  
(304) 348-2057

**Who may file comments?** If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

**Time limits for comments.** The law requires these materials to be delivered on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments as provided in **Methods for Filing Comments** below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

**Methods for filing comments.** Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

"The proposed well work will constitute a hazard to the safety of persons; or.....

"Damage would occur to publicly owned lands or resources; or.....

"The proposed well work fails to protect fresh water sources or supplies."

**If you want a copy of the permit** as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

**List of Water Testing Laboratories.** The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.





1) Date: January 17 19 84  
2) Operator's Well No. KEM #112  
3) API Well No. 47 - 035 - 1617-PP  
State County Permit

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS, DEPARTMENT OF MINES  
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

PARTIAL

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

- (i) Name Edra Simmons Summers  
Address Rt. 3  
Ripley, WV 25271
- (ii) Name \_\_\_\_\_  
Address \_\_\_\_\_
- (iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

5(i) COAL OPERATOR None

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 to Plug and Abandon a Well on Form IV-4(B), which sets out the parties involved in the work, and describes the well and its location and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form IV-6.

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-4(B)) 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 Permit to plug and abandon a well with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to the well at the location described on the attached Application and depicted on the attached Form IV-6. Copies of this Notice, the Application, and the plat 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.

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 Co  
By [Signature]  
Its General Manager

this 17 day of January, 19 84.  
My commission expires 8/30, 19 93.

Address P. O. Box 8  
Ravenswood, WV 26164

Telephone 304-273-5371

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

**RECEIVED**  
JAN 26 1984

OIL & GAS DIVISION  
DEPT. OF MINES



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 § 22-4-1m(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.

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and two copies of the Application must be filed with the Administrator, accompanied by (i) an original and four copies of the Notice, (ii) an original and four copies of a plat in the form prescribed by Regulation 11, and (iii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-9.

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 and 22-4-9.

RECEIVED

DEPT. OF MINES  
OIL & GAS DIVISION

09/08/2023



✓  
IR-26  
Obverse

INSPECTOR'S PERMIT SUMMARY FORM

*Should be  
PP*

WELL TYPE \_\_\_\_\_  
ELEVATION \_\_\_\_\_  
DISTRICT \_\_\_\_\_  
QUADRANGLE \_\_\_\_\_  
COUNTY Jackson

API# 47-035 - 1617 **(A)?**  
OPERATOR Kaiser Exploration  
TELEPHONE \_\_\_\_\_  
FARM Summers  
WELL # Ken 112

SURFACE OWNER \_\_\_\_\_ COMMENTS \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
TARGET FORMATION \_\_\_\_\_ DATE APPLICATION RECEIVED \_\_\_\_\_  
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

MAR 14 1986

Type	From	To	Pipe Removed

Pit Discharge date: \_\_\_\_\_ Type \_\_\_\_\_

Field analysis                      ph \_\_\_\_\_      fe \_\_\_\_\_      cl \_\_\_\_\_

Well Record received \_\_\_\_\_

Date Released 3 12 86

*Julyan Teshaloni*  
Inspector's signature      09/08/2023



API# 47 \_\_\_\_\_ - \_\_\_\_\_

LIST ALL VISITS FOR THIS PERMIT

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

Notes

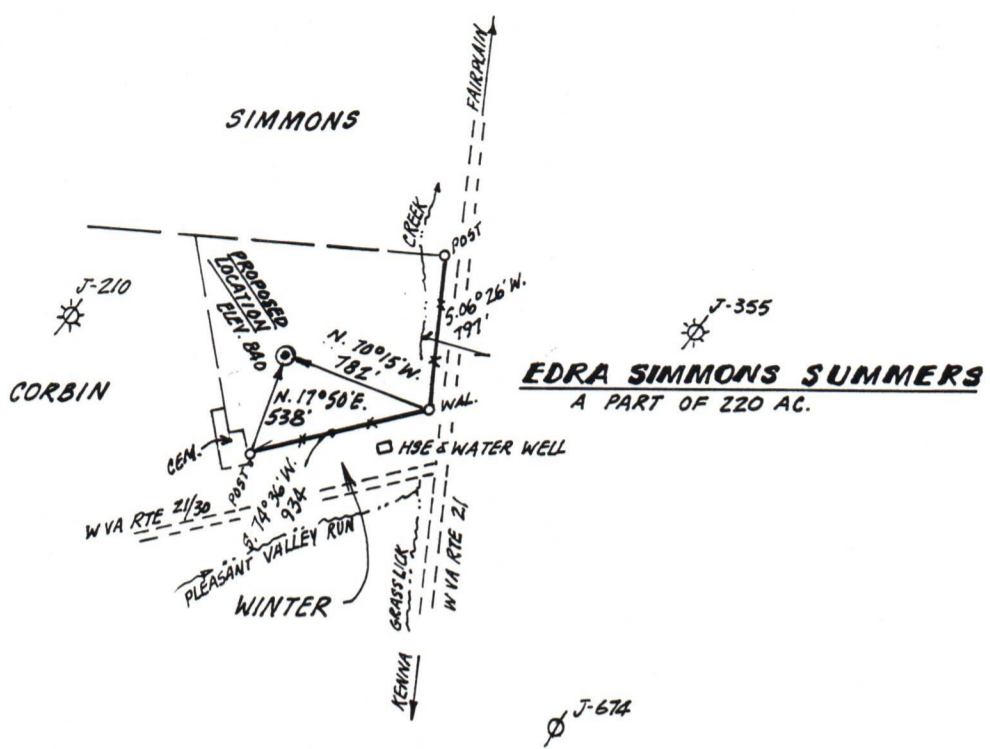


J-1529

LATITUDE 38° 42' 30"  
38° 45'

J-1559

LONGITUDE 81° 40' 00"  
6,400'



NORTH

7.5 MIN.

15'

FILE NO \_\_\_\_\_  
 DRAWING NO REV 1  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION USGS BM ELEV. 749 ON BRIDGE AT GRASSLICK CREEK

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) Dennis L. Asher  
 R.P.E. \_\_\_\_\_ L.L.S. 670



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



DATE SEPTEMBER 28, 19 81  
 OPERATOR'S WELL NO. 112  
 API WELL NO. \_\_\_\_\_  
47 - 035 - 1617.PP  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 840' WATER SHED GRASSLICK CREEK  
 DISTRICT RIPLY COUNTY JACKSON  
 QUADRANGLE KENNA  
 SURFACE OWNER EDRA SIMMONS SUMMERS ACREAGE 220  
 OIL & GAS ROYALTY OWNER EDRA SIMMONS SUMMERS LEASE ACREAGE 220 **09/08/2023**  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION X PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION SHALE ESTIMATED DEPTH 5035'  
 WELL OPERATOR KAISER EXPLORATION & MINING CO. DESIGNATED AGENT KAISER EXPLORATION & MINING COMPANY  
 ADDRESS PO BOX 8, RAVENSWOOD, WEST VIRGINIA 26164 ADDRESS PO BOX 8, RAVENSWOOD, WEST VIRGINIA 26164



RECEIVED  
JAN 26 1984



1) Date: January 17, 19 84  
2) Operator's Well No. KEM #112  
3) API Well No. 47 - 035 - 1617-PP  
State County Permit

OIL & GAS DIVISION  
STATE OF WEST VIRGINIA  
DEPT. OF MINES AND GAS, DEPARTMENT OF MINES

PARTIAL

APPLICATION FOR A PERMIT TO PLUG AND ABANDON A WELL

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas X / Liquid injection \_\_\_\_\_ / Waste disposal \_\_\_\_\_  
B (If "Gas", Production X / Underground storage) \_\_\_\_\_ / Deep \_\_\_\_\_ Shallow X /)
- 5) LOCATION: Elevation: 840' Watershed: Grasslick Creek  
District: Ripley County: Jackson Quadrangle: Kenna
- 6) WELL OPERATOR Kaiser Exploration and Mining Co. 7) DESIGNATED AGENT R. A. Pryce  
Address P. O. Box 8 Address Same  
Ripley, WV 25271
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Jerry Tephabock  
Address Rt. 1, Box 101A  
Ripley, WV 25271
- 9) PLUGGING CONTRACTOR Name McCullough Services  
Address P. O. Box 4209  
Houston, TX 77210

10) WORK ORDER: The work order for the manner of plugging this well is as follows:

7/13/83: McCullough Services set 3.71" OD permanent bridge plug in 4 1/2" casing at 4400' (KB), to isolate Marcellus Shale from Brown Shale PBTD: 4400' (KB)

VERBAL PERMISSION 7-11-83

OFFICE USE ONLY

PLUGGING PERMIT

Permit number 47-035-1617-PP

February 2, 19 84  
Date

This permit covering the well operator and well location shown below is evidence of permission granted to plug 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 24 hours before actual permitted work has commenced.**

The permitted work is as described in the Notice and Application, plat, subject to any modifications and conditions on the reverse hereof.

Permit expires February 2, 1986 unless plugging is commenced prior to that date and prosecuted with due diligence.

Bond: <b>BLANKET</b>	Agent: <u>ls</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <b>NA</b>
-------------------------	---------------------	-----------------------------	-------------------------------	-------------------

Michael J. Lewis  
Administrator, Office of Oil and Gas

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

File

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

09/08/2023



RECEIVED

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED PLUGGING

1) WELL TYPE: A or B  
 2) LOCATION: District, Elevation, Wellhead, Well No., Well No. of Casing, Well No. of Completion  
 3) WELL OPERATOR: Name, Address  
 4) PLUGGING CONTRACTOR: Name, Address  
 5) DESIGNATED AGENT: Name, Address

OFFICE USE ONLY

This part of Form IV-4(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Plugging started		
Plugging completed		
Well Record received		

OTHER INSPECTIONS

Reason:

Reason:

*[Handwritten Signature]*  
 Administrator, Office of Oil and Gas

BLANKET  
*[Handwritten Markings]*







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

- 7-13-83 McCullough set permanent bridge plug at 4400' KB to plug Marcellus Shale. Set retrievable plug at 2560' KB and perforated Berea Sandstone 2510'-2519' KB; 18 holes.
- 7-18-83 Nowsco, BJ Hughes foam fractured Berea w/60,000# of 20/40 sand; 298 bbl fluid, 693 MSCF N<sub>2</sub>; 2570 psig breakdown, 2050 psig treat, 1740 psig ISIP; 13 B/M foam (75 quality) rate.
- 7-25-83 Retrieved bridge plug at 2560' KB.
- 7-26-83 Ran 2 3/8" 10R tubing and Butler Larkin Hookwall Packer. Set packer below Berea @2557' KB and tubing anchor @4328' KB.

Brown Shale/Berea isolated and producing.

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 & Shale				0	60	
Sand				60	99	
Shale				99	118	
Sand				118	142	
Shale & Siltstone				142	491	
Sand				491	501	
Shale & Siltstone				501	681	
Sand				681	687	
Shale & Siltstone				687	1096	
Sand				1096	1176	
Shale				1176	1294	
Sand				1294	1338	
Shale				1338	1580	
Sand				1580	1593	
Shale				1593	1616	
Salt Sand				1616	1835	
Big Lime (Greenbrier)				1835	2010	
Shale				2010	2034	
Big Injun Sand				2034	2100	
Shale				2100	2490	
Coffee Shale (Sunbury)				2490	2510	
Berea Sand				2510	2520	
Shale				2520	3740	
Brown Shale				3740	4332	Gas Show @ 3447'
Shale				4332	4716	Gas Show @ 3777, 4113, 4130, 4323
Marcellus Shale				4716	5049	
Total Depth				5049		

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY

Well Operator

By: Edith A. P.

09/08/2023

Date: January 16, 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  
OFFICE OF OIL AND GAS

Company Name Kaiser Exploration and Mining Co. Designated Agent Same  
Address P. O. Box 8, Ravenswood, WV Address \_\_\_\_\_  
Telephone 273-5371 Telephone \_\_\_\_\_  
Landowner Edra Simmons Summers Soil Cons. District Western

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

This plan has been reviewed by Western SCD. All corrections and additions become a part of this plan. Sept 29/81 (Date) Wayne W. May (SCD Agent)

Access Road	Location
Structure <u>Road Ditch</u> (A)	Structure <u>None required</u> (1)
Spacing _____	Material <u>(See comments)</u>
Page Ref. Manual <u>1:9</u>	Page Ref. Manual _____
Structure <u>Cross Drain</u> (B)	Structure _____ (2)
Spacing <u>250'</u>	Material _____
Page Ref. Manual <u>1:3</u>	Page Ref. Manual _____
Structure _____ (C)	Structure _____ (3)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____

**RECEIVE**

All structures should be inspected regularly and repaired if necessary. OCT 2 - 1981

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

Revegetation

Treatment Area I

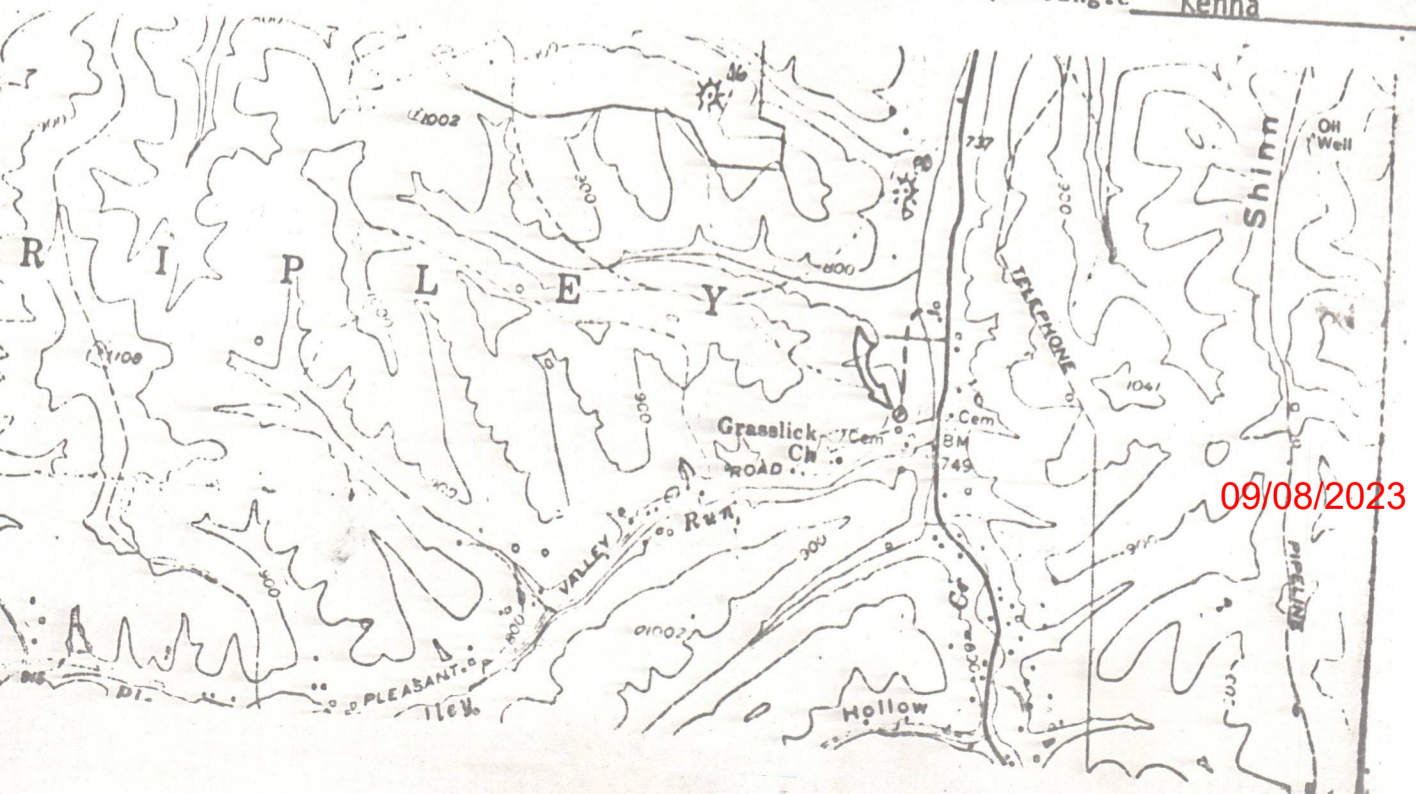
Treatment Area II

OK  
Lime 4 Tons/acre  
or correct to pH \_\_\_\_\_  
Fertilizer 14-14-14 400 lbs/acre  
(10-20-20 or equivalent)  
Mulch Hay 2 Tons/Acre  
Seed\* 81% Orchard Grass/15% Rye 32 lbs/acre  
Red Clover 8 lbs/acre  
\_\_\_\_\_ lbs/acre

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.

Attach or photocopy section of involved Topographic map. Quadrangle Kenna

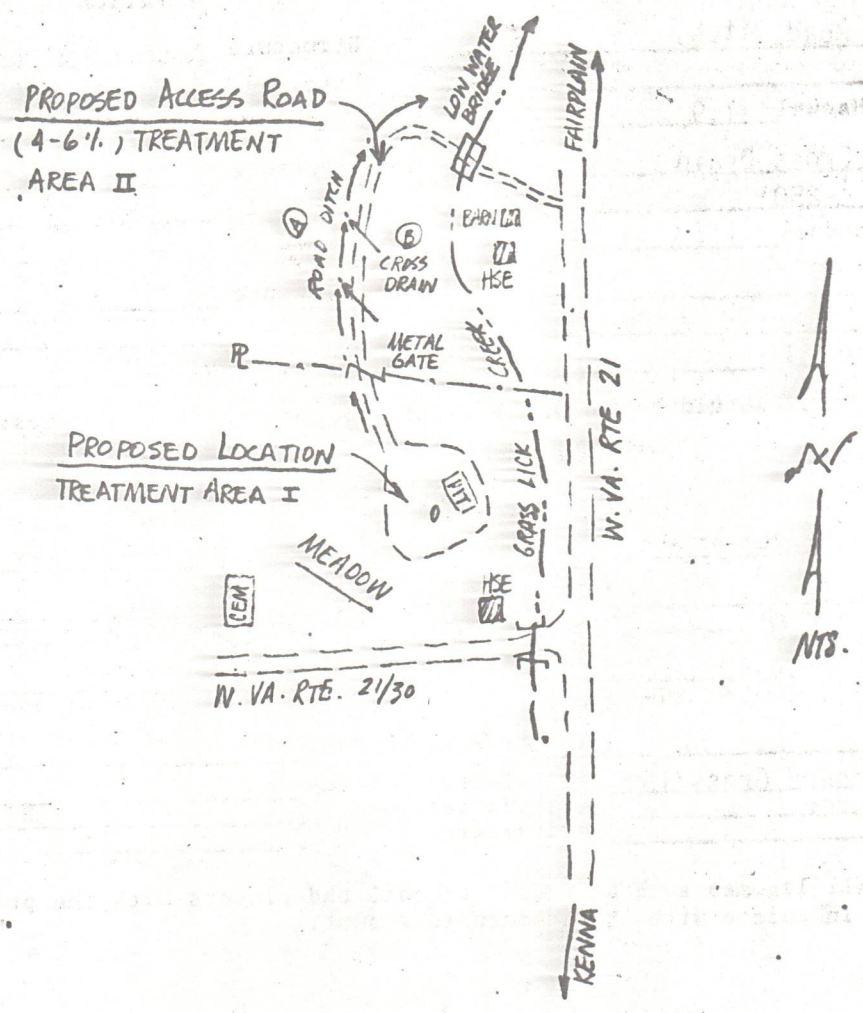




Well Site Plan

- |         |                   |  |            |  |
|---------|-------------------|--|------------|--|
| Legend: | Property Boundary |  | Diversion  |  |
|         | Fence             |  | Spring     |  |
|         | Existing Fence    |  | Wet Spot   |  |
|         | Planned Fence     |  | Building   |  |
|         | Stream            |  | Drain Pipe |  |
|         | Open Ditch        |  | Waterway   |  |

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



OK

Comments: PROPOSED LOCATION IS ON LEVEL BENCH IN MEADOW. AREA NOT BEING USED FOR GRAZING. DISTURBED AREAS RESTORED WITHIN 6 MONTHS OF COMPLETION.

Signature: *OK Asher* KAISER EXPLORATION AND MINING COMPANY  
 P. O. Box 8, Ravenswood, WV 26164 273-5371

09/08/2023

Please request landowner's cooperation to protect new seeding for one growing season.



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

Date December 4

FORM IV-35  
(Obverse)

Operator's  
Well No. KEM #112

[08-79]

WELL OPERATOR'S REPORT  
OF

APR No. 035 - 161  
County Per

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal   
(If "Gas", Production  / Underground storage  / Beer  / Other   
LOCATION: Elevation: 840' Watershed: Grasslick Creek  
District: Ripley County: Jackson Subdivision: Kenna

WELL OPERATOR Kaiser Exploration and Mining Company DESIGNATED AGENT Same  
Address P. O. Box 8 Address \_\_\_\_\_  
Ravenswood, WV 26164

PERMITTED WORK: Drill  / Convert  / Drill deeper  / Re-drill  / Stimulate   
Plug off old formation  / Perforate new formation   
Other physical change in well (specify) \_\_\_\_\_

**RECEIVED**

FEB 9 - 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

PERMIT ISSUED ON December 12, 1981

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED \_\_\_\_\_, 19\_\_\_\_)

Name Richard Morris  
Address P. O. Box 372  
Grantsville, WV

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 5049' (KB) feet  
Depth of completed well, 5049' (KB) feet Rotary  / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
Coal seam depths: None Is coal being mined in the area? No  
Work was commenced November 5, 1981, and completed November 11, 1981

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								Winds
Fresh water	10 3/4"		32.75	X		227'	227'	150 sks class A
Coal								Clips
Intermediate	7"		20.0	X		2386'	2386'	100 sks class A 65 sks 50/50 pozmix
Production	4 1/2"		10.50	X		5011'	5011'	225 sks 50/50 pozmix
Tubing								
Slippers								Perforations:
								4773' Top 4994' Bottom
								Brown Shale
								4107' Top 4331' Bott

OPEN FLOW DATA

Producing formation Devonian Marcellus Shale Pay zone depth 4773' - 4994' (KB)  
Gas: Initial open flow, None Mcf/d Oil: Initial open flow, None bbl/d  
Final open flow, 150 Mcf/d Final open flow, None bbl/d  
Time of open flow between initial and final tests, N/A hours  
Static rock pressure, 1350 psig (surface measurement) after N/A hours **09/08/2023**

[If applicable due to multiple completion--]

Second producing formation Devonian Brown Shale Pay zone depth 4107' feet  
Gas: Initial open flow, None Mcf/d Oil: Initial open flow, None bbl/d  
Final open flow, 300 Mcf/d Final open flow, --- bbl/d  
Time of open flow between initial and final tests, --- hours  
Static rock pressure, 1000 psig (surface measurement) after 12 hours shut in