

FILE COPY

RECEIVED  
JUN 21 1984



1) Date: June 13, 1984  
 2) Operator's Well No. KEM 599  
 3) API Well No. 47 - 035 - 1975  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
 DEPT. OF MINES  
**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: 862' Watershed: Low Gap Run (0361)  
 District: Ravenswood 2 County: Jackson Quadrangle: Liverpool 439
- 6) WELL OPERATOR Kaiser Expl. & Mining Co. 25550 7) DESIGNATED AGENT R. A. Pryce  
 Address P.O. Box 8 Address P.O. Box 8  
Ravenswood, WV 26164 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, 4512 feet  
 13) Approximate trata depths: Fresh, N/A feet; salt, N/A feet.  
 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes

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 JUN 27 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		
Conductor									Kinds
Fresh water	10 3/4"			X		250 400'	250 400'	150 sks Class A (to surface)	Sizes
Coal									
Intermediate	7"			X		2597	2597	65 sks 50/50 pozmix, 100 sks Class	
Production	4 1/2"			X		4512	4512	225 sks 50/50 pozmix	
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-035-1975 Date July 9, 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 July 9, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>Blanket</u>	Agent: <u>MW</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>967 599</u>
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*[Signature]*  
 Administrator, Office of Oil and Gas

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





1) Date: June 13, 1984  
 2) Operator's Well No. KEM 599  
 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: 862' Watershed: LowGap Run  
 District: Ravenswood County: Jackson Quadrangle: Liverpool
- 6) WELL OPERATOR Kaiser Expl. & Mining Co. 7) DESIGNATED AGENT R. A. Pryce  
 Address P.O. Box 8 Address P.O. Box 5  
Ravenswood, WV 26164 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, 4512 feet  
 13) Approximate trata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes No

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**15) CASING AND TUBING PROGRAM**

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	OIL & GAS DIVISION PACKERS DEPT. OF MINES
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	<u>10 3/4"</u>			<u>X</u>		<u>250</u>	<u>250</u>	<u>150 sks Class A (to surface)</u>	Sizes
Coal									Depths
Intermediate	<u>7"</u>			<u>X</u>		<u>2597</u>	<u>2597</u>	<u>65 sks 50/50 pozmix, 100 sks Class</u>	
Production	<u>4 1/2"</u>			<u>X</u>		<u>4512</u>	<u>4512</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: \_\_\_\_\_

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

By \_\_\_\_\_

(Signature)

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

(Signature)

**09/08/2023**  
 Surface Owner



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JUL 10 1993  
OFFICE OF THE  
DEPT. OF MINES

09/08/2023



IV-9  
(Rev 8-81)

DATE June 7, 1984  
WELL NO. KEM 599  
API NO. 47 - 035 - 1975

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, Ravenswood, WV 26164 Address Same  
Telephone 273-5371 Telephone 273-5371  
LANDOWNER Burke, Parsons and Bowlby Corp. 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: 6-11-84 (Date)

Steven B. Foese  
(SCD Agent)

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ACCESS ROAD	LOCATION
Structure <u>Cross Drains</u> (A)	Structure <u>Top Ditch</u> (1)
Spacing <u>80', 135', 60', 80', 135', 45', 135', 135', 60', 60'</u>	Material <u>Earthen</u>
Page Ref. Manual <u>2 - 4</u>	Page Ref. Manual <u>2 - 12</u>
Structure <u>Drainage Ditch</u> (B)	Structure _____ (2)
Spacing <u>Earthen</u>	Material _____
Page Ref. Manual <u>2 - 12</u>	Page Ref. Manual _____
Structure <u>Road Culvert</u> (C)	Structure _____ (3)
Spacing <u>Size on sketch</u>	Material _____
Page Ref. Manual <u>2 - 7</u>	Page Ref. Manual _____

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

REVEGETATION

Treatment Area I	Treatment Area II
Lime <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> 600 lbs/acre (10-20-20 or equivalent)	Fertilizer _____ lbs/acre (10-20-20 or equivalent)
Mulch <u>Hay</u> 2 Tons/acre	Mulch _____ Tons/acre
Seed* <u>81% Orchard Grass/15% Ryegrass</u> 16 lbs/acre	Seed* _____ lbs/acre
<u>Kentucky 31 Fescue</u> 16 lbs/acre	_____ lbs/acre
<u>Red Clover</u> 8 lbs/acre	_____ lbs/acre

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

PLAN PREPARED BY Vincent Wood 09/08/2023

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

ADDRESS 116 Post Avenue  
Ripley, WV 25271  
PHONE NO. 372-2709

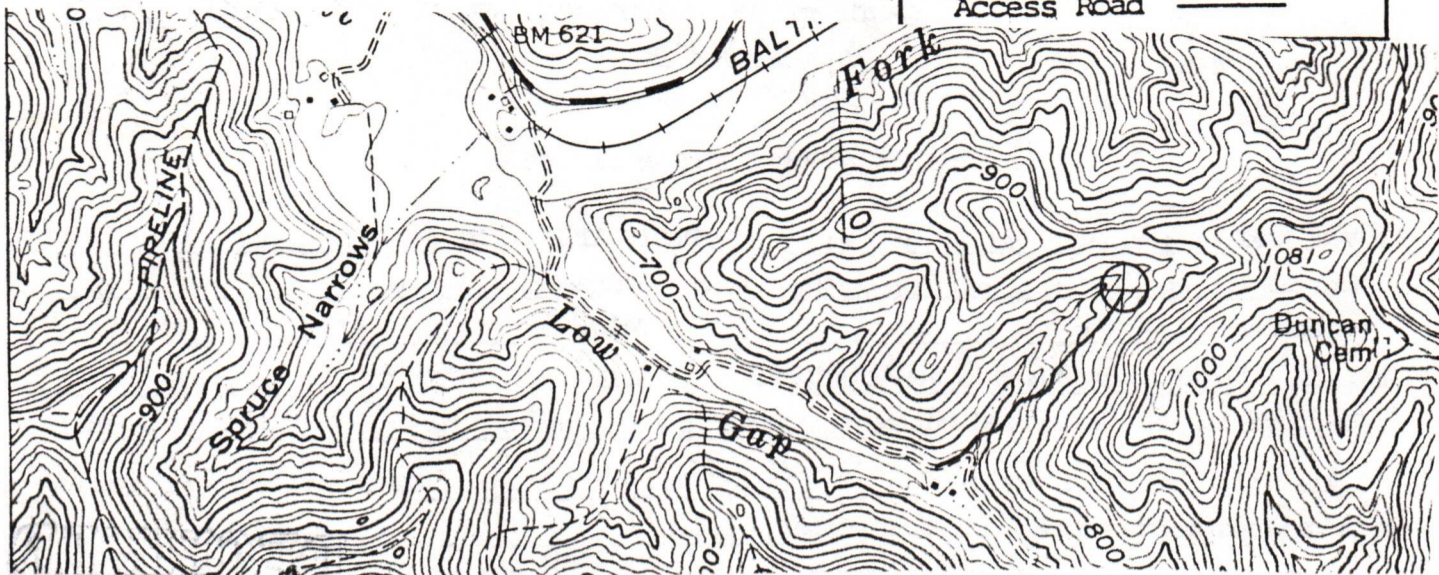


ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE LIVERPOOL

LEGEND

Well Site ⊕

Access Road ———

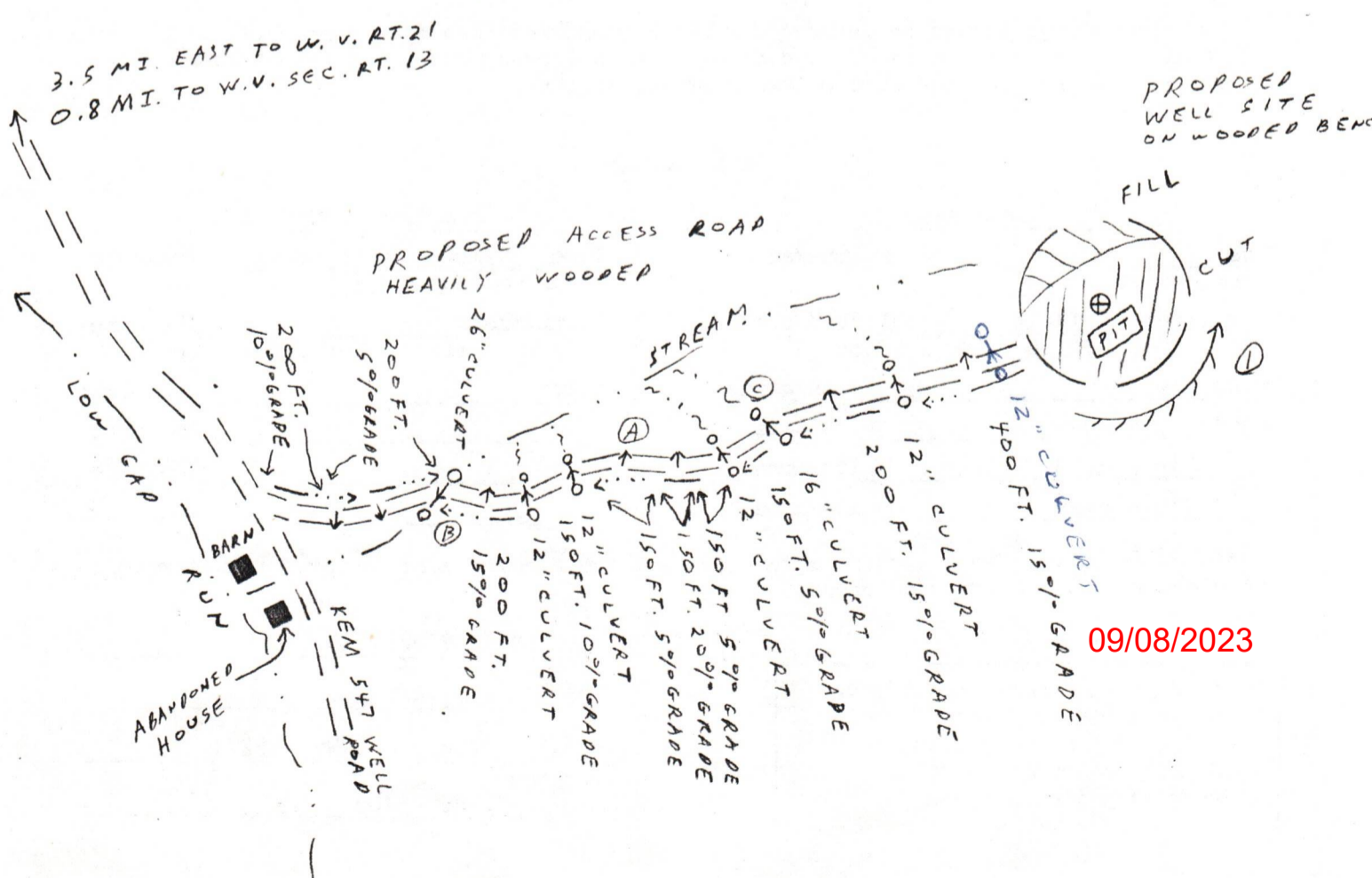


WELL SITE PLAN

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: June 13, 1984  
2) Operator's Well No. KFM 599  
3) API Well No. 47-035-1975  
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 Burke, Parsons and Bowlby Corp.  
Address Rt. 21 South P. O. Box 4216  
Ripley, WV 25271 Rupert, WV 25984  
(ii) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

5(i) COAL OPERATOR \_\_\_\_\_  
Address \_\_\_\_\_  
5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
5(iii) COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

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JUN 21 1984

OIL & GAS DIVISION  
DEPT. OF MINES

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  
Robert A. Pryce  
this 25 day of June, 1984.  
My commission expires August 30, 1993.  
Faith Ann Halbert  
Notary Public, Jackson County,  
State of West Virginia

WELL OPERATOR Kaiser Expl. & Mining Co.  
By R.A.P.  
Its General Manager  
Address P.O. Box 8  
Ravenswood, WV 26164  
Telephone (304) 273-5371

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JUN 27 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 § 22-4-1b(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.

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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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book Page
-----------------------	-----------------------	---------	-----------

Delphia M. O'Dell Et.Al.	Kaiser Expl. & Mining Co. 1/8th in prevailing field price	175/49 175/725 187/1 186/28
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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) X / Form IV-3(A) / Form IV-4(A) /
- (2) Application on Form IV-2(B) X / 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-599 located in Ravenswood District, JACKSON County, West Virginia, upon the person or organization named--

BURKE, PARSONS, BOWLBY, CORP

--by delivering the same in JACKSON County, State of WV on the 15<sup>th</sup> day of JUNE, 1984 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

[ ] Handing it to him / her / or, because he / she / refused to take it when I offered it, by leaving it in his / her / presence.

[ ] Handing it to a member of his or her family above the age of 16 years named \_\_\_\_\_ who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

[ ] Handing it to \_\_\_\_\_, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership:

[ ] Handing it to the general partner, named \_\_\_\_\_, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

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

RECEIVED  
JUN 21 1984

William K. Shen  
(Signature of person executing service)

Taken, subscribed and sworn before me this 18<sup>th</sup> day of June, 1984.  
My commission expires Oct 29, 1993

OIL & GAS COMMISSION  
DEPT. OF MINES

Stephen W. Kelly  
Notary Public

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)

COMMISSIONER 09/08/2023 OF WV





COMMISSIONER FOR THE STATE OF WM

09/08/2023



IV-35  
(Rev 8-81)



State of West Virginia  
Department of Mines  
Oil and Gas Division

Date 11/05/84  
Operator's  
Well No. KEM 599  
Farm O'Dell  
API No. 47 - 035 - 1975

**CONFIDENTIAL**

**RECEIVED**  
14  
DEC 13 1984  
OIL & GAS DIVISION  
DEPT. OF MINE

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

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

LOCATION: Elevation: 862 Watershed Low Gap Run  
District: Ravenswood County Jackson Quadrangle Liverpool

COMPANY Kaiser Exploration and Mining Co.  
ADDRESS P. O. Box 8 Ravenswood, WV 26164  
DESIGNATED AGENT R. A. Pryce  
ADDRESS Same  
SURFACE OWNER Burke-Parsons-Bowlby Corporation  
ADDRESS Rt. 21 South, P. O. Box 231, Ripley, WV  
MINERAL RIGHTS OWNER Delphia O'Dell  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK Jerry  
Tephabock ADDRESS Ripley, WV 25271  
PERMIT ISSUED \_\_\_\_\_  
DRILLING COMMENCED 7/23/84  
DRILLING COMPLETED 7/29/84

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10" <sup>3/4</sup>	552	552	250 sks class A
9 5/8			
8 5/8			
7	2537	2537	175 sks 50/50 poz 100 sks class A
5 1/2			
4 1/2	4505	4505	225 sks 50/50 poz
3			
2			
Liners used			

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

GEOLOGICAL TARGET FORMATION Devonian Brown Shale Depth 4395-4516 feet  
Depth of completed well 4512 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

Drilled on fluid - not known

Producing formation Devonian Brown Shale Pay zone depth 4394-4516 feet  
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow 241.1 Mcf/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 4 hours

Static rock pressure 1275 psig (surface measurement) after 72 hours shut in  
(If applicable due to multiple completion--)

09/08/2023

Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours

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

(Continue on reverse side)



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

8/02/84 NL McCullough perf Shale 17 holes (.41" dia) from 4106-4395.  
 8/03/84 NOWSCO foam frac Shale. Used: 60,000 lbs 20/40 sand; 750 mscf total N<sub>2</sub>; 316 bbls total fluid.

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	195	
Sand			195	225	
Shale and Siltstone			225	628	
Sand			628	710	
Shale			710	777	
Sand			777	804	
Shale and Siltstone			804	1222	
Little Tunkard Sand			1222	1304	
Shale			1304	1384	
Big Tunkard Sand			1384	1688	
Shale			1688	1818	
Salt Sands			1813	1954	
Big Lime (Greenbrier)			1954	2054	
Shale			2050	2081	
Big Injun Sand			2081	2132	
Shale			2132	2486	
Coffee Shale			2486	2509	
Berea Sand			2509	2510	
Shale			2510	3767	
Brown Shale			3767	4495	
Shale			4495	4515	
Total Depth			4515		

(Attach separate sheets as necessary)

    RAP      
Well Operator

By: KAISER EXPLORATION AND MINING COMPANY 09/08/2023

Date: November 12, 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  
AUG - 1 1984

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 035 1975

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>Kaiser Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm _____	16			Kind of Packer _____
Well No. <u>Kem 599</u>	13			
District _____ County <u>Jackson</u>	10			Size of _____
Drilling commenced <u>7 23 84</u>	8 1/4			
Drilling completed _____ Total depth _____	6 3/8			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 Hurt Rig #4 Archer

Remarks:  
7 23 84 Spud Date 11:00Am TD 131/4 hole 582' 5:00 pm ran 13 jts 103/4 csg cement by noscoe to surface 250 sks class a neat 3% cacl 1/4 lb per sk celloflake plug down 8:15 pm cement weight 15.2 lb. Good return to surface.

7 23 84  
DATE

Jerry T. [Signature] 09/08/2023







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

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INSPECTOR'S WELL REPORT

OIL & GAS DIVISION  
DEPT. OF MINES

Permit No. 035 1975

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>Kaiser Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Odell</u>	16			Kind of Packer _____
Well No. <u>Kem 599</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 Hurt Rig #4 Archer

Remarks:

7 26 84 TD 91/2 hole 2577' 8:00pm Ran 62 jts 7'' csg set 2548 noscoe  
cemented 175 sks 50/50 poz 10/% salt 1/4 lb per sk flocele  
plug down 6:00 am 7 27 84

7 27 84 WOC.

7 27 84

DATE

*James Teph...*  
09/08/2023







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

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INSPECTOR'S WELL REPORT

OIL & GAS DIVISION  
DEPT. OF MINES

Permit No. 035 1975

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>Kasier Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Odell</u>	16			Kind of Packer _____
Well No. <u>Kem 599</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: \_\_\_\_\_

Drilling 6 1/4 hole at 3712' at 7:37 pm.

7 28 84  
DATE

*July R. Taylor*  
09/08/2023







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

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AUG - 8 1984

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 035 1975

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>Kaiser Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Odell</u>	16			Kind of Packer _____
Well No. <u>Kem 599</u>	13			
District _____ County <u>Jackson</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed <u>7 29 84</u> Total depth <u>4512</u>	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:

7 29 84 Td 4512 4:00 am ran 112 jts 4 1/2 csgset 4515 kb noscoe cement 225sks  
50/50 poz 10% salt 12.5 lb per sk gilsonite plug down 6:00 pm  
7 29 84.  
7 30 84 moving off.

7 30 84  
DATE

*Jerry R. Tephahala* 09/08/2023









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 NOV 20 1984  
 OIL & GAS DIVISION  
 DEPT. OF MINES

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

FINAL INSPECTION REPORT  
 INSPECTORS COMPLIANCE REPORT

COMPANY Kaiser Exploration & Mining Corp. PERMIT NO 035 1975  
P. O. Box 8 FARM & WELL NO Kem 599  
Ravenswood, WV 26164 DIST. & COUNTY 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 Strenght	X	
15.05	Cement Type	X	
23.02	Maintained Access Roads	X	
25.01	Necessary Equipment to Prevent Waste	X	
23.04	Reclaimed Drilling Pits	X	
23.05	No Surface or Underground Pollution	X	
23.07	Requirements for Production & Gathering Pipelines	X	
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings	X	

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

SIGNED Jerry Tephah  
 DATE 11 14 84

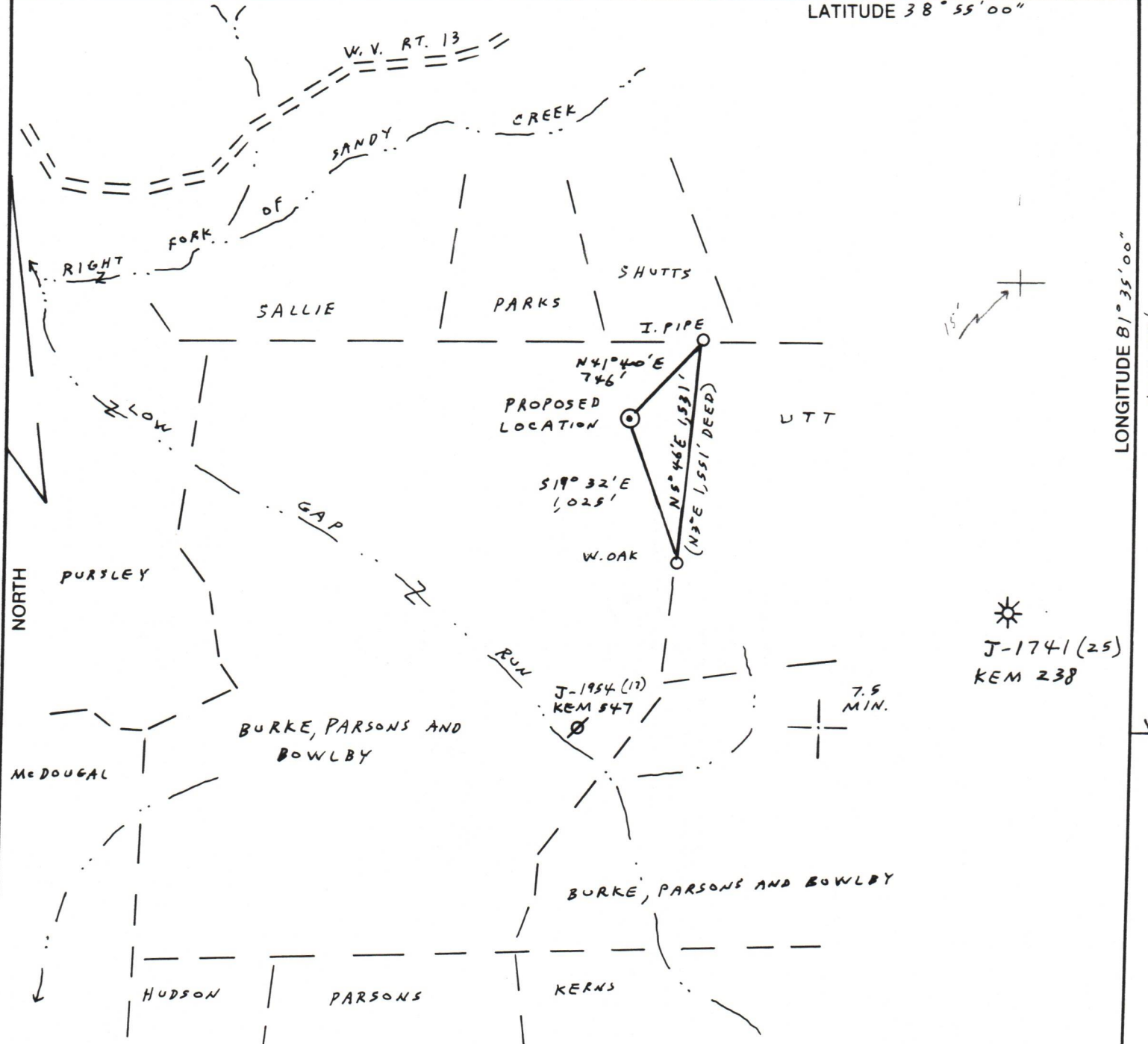
Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. L. ...  
 Administrator-Oil & Gas Division  
 January 25, 1985  
 DATE



LATITUDE 38° 55' 00"

LONGITUDE 81° 00' 00"



REFERENCE POINTS:  
 N83°09'E 134' TO 16" W. OAK  
 S16°E 107' TO 14" B. OAK

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

S 4 E 12

FILE NO. 7-45  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=1,000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION HIGH POINT ELEV. 1081, 1340' N.E. 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 JUNE 8, 19 84  
 OPERATOR'S WELL NO. KEM 599  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_\_\_ GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 862 WATER SHED LOW GAP RUN  
 DISTRICT RAVENS WOOD COUNTY JACKSON  
 QUADRANGLE LIVERPOOL

SURFACE OWNER BURKE, PARSONS AND BOWLBY CORPORATION ACREAGE 310  
 OIL & GAS ROYALTY OWNER DELPHIA M. O'DELL, ET AL. LEASE ACREAGE 310  
 LEASE NO. 88-11-2649

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

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION DEVONIAN BROWN SHALE ESTIMATED DEPTH 4512' R. A. PRYCE  
 WELL OPERATOR KAISER EXPLORATION AND MINING CO. DESIGNATED AGENT KAISER EXPLOR. AND MINING CO.  
 ADDRESS P.O. BOX 8, RAVENS WOOD, W.V. 26164 ADDRESS P.O. BOX 8, RAVENS WOOD, W.V. 26164

09/08/2023

JACKSON COUNTY NAME  
 1975 PERMIT





1) Date: June 13, 19 84  
 2) Operator's Well No. KEM 599  
 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: 862' Watershed: Lowgap Run (0567)  
 District: Ravenswood County: Jackson Quadrangle: Liverpool
- 6) WELL OPERATOR Kaiser Expl. & Mining Co. 7) DESIGNATED AGENT R. A. Pryce  
 Address P.O. Box 3 Address P.O. Box 3  
Ravenswood, WV 26164 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, 4512 feet  
 13) Approximate strata depths: Fresh, N/A feet; salt, N/A feet.  
 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes \_\_\_\_\_ / No X /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	<u>10 3/4"</u>			<u>X</u>		<u>2504</u>	<u>250400</u>	<u>150 sks Class A (to surface)</u>	Sizes
Coal									
Intermediate	<u>7"</u>			<u>X</u>		<u>2597</u>	<u>2597</u>	<u>65 sks 50/50 pozmix, 100 sks C1</u>	Depths set
Production	<u>4 1/2"</u>			<u>X</u>		<u>4512</u>	<u>4512</u>	<u>225 sks 50/50 pozmix</u>	Perforations:
Tubing									Top Bottom
Liners									

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



09/08/2023