

RECEIVED
FILE COPY

APR 18 1984



1) Date: April 4, 19 84
 2) Operator's Well No. KEM-173
 3) API Well No. 47 - 035 - 1655 - FRAC
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 937' Watershed: Burnt Run
 District: Ripley County: Jackson Quadrangle: Kenna
 6) WELL OPERATOR KEM GAS Kaiser Exp & Mining Co. 7) DESIGNATED AGENT R.A. PRYCE
 Address P. O. Box 8 Address Same
Ravenswood, WV 26164
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name J. Tephabock Name Kaiser Drilling Rig #1
 Address Ripley, WV 25271 Address Ravenswood, WV 26164
 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) Squeeze 4 1/2" csg; Treat Berea; Isolate
 11) GEOLOGICAL TARGET FORMATION, Berea Sandstone Shale, Berea with tubing and packer.
 12) Estimated depth of completed well, 4629' feet
 13) Approximate trata depths: Fresh, 400 feet; salt, 850 feet.
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes / No /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds <u>None</u>
Fresh water	<u>10 3/4</u>	<u>H</u>	<u>32.75</u>	<u>X</u>		<u>598' (KB)</u>	<u>598' (KB)</u>	<u>375 sks Neat</u>	Sizes <u>-</u>
Coal								<u>65 sks Pozmix</u>	<u>-</u>
Intermediate	<u>7</u>	<u>K</u>	<u>20</u>	<u>X</u>		<u>2616' (KB)</u>	<u>2616' (KB)</u>	<u>100 sks Neat</u>	<u>-</u>
Production	<u>4 1/2</u>	<u>K</u>	<u>10.50</u>	<u>X</u>			<u>4573' (KB)</u>	<u>200 sks Pozmix</u>	<u>-</u>
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-035-1655-FRAC Date May 9, 1984 19

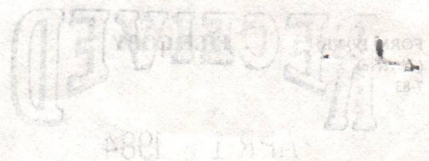
This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector, (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 May 9, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>mw</u>	Plat: <u>T.S</u>	Casing: <u>T.S</u>	Fee: <u>966</u> <u>954</u>
-----------------	------------------	------------------	--------------------	-------------------------------

Margaret J. Hase
 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) Well No. _____ State _____ County _____

2) Well Name _____

3) LOCATION: District _____ County _____

4) WELL OPERATOR: _____

5) DRILLING CONTRACTOR: _____

6) PROPOSED WELL WORK: _____

7) APPROXIMATE DEPTH OF COMPLETED WELL: _____

8) APPROXIMATE DEPTH OF PROPOSED WELL: _____

9) IS COAL BEING MINED IN THE AREA? Yes No

OFFICE USE ONLY

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

Date	Date(s)
------	---------

Application received _____ Follow-up inspection(s) _____

Well work started _____

Completion of the drilling process _____

Well Record received _____

Reclamation completed _____

OTHER INSPECTIONS

Reason: _____

Reason: _____

Agent	Plan	Casing	Permit
_____	_____	_____	_____

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

09/08/2026



1) Date: April 4, 19 84
 2) Operator's Well No. KEM-173
 3) API Well No. 47 State 035 County 1655 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: 937' Watershed: Burnt Run
 District: Ripley County: Jackson Quadrangle: Kenna
- 6) WELL OPERATOR KEMGAS 7) DESIGNATED AGENT _____
 Address P. O. Box 8 Address Same
Ravenswood, WV 26164
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name J. Tephabock Name Kaiser Drilling Rig #1
 Address Ripley, WV 25271 Address Ravenswood, WV 26164
- 10) PROPOSED WELL WORK: Drill _____ / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation X /
 Other physical change in well (specify) Squeeze 4 1/2" csg; Treat Berea; Isolate
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 13) Approximate trata depths: Fresh, 400 feet; salt, 850 feet.
 14) Approximate coal seam depths: None 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 <u>None</u>
Fresh water	<u>10 3/4</u>	<u>H</u>	<u>32.75</u>	<u>X</u>		<u>598' (KB)</u>	<u>598' (KB)</u>	<u>375 sks Neat</u>	Sizes <u>-</u>
Coal								<u>65 sks Poznix</u>	Depths set <u>-</u>
Intermediate	<u>7</u>	<u>K</u>	<u>20</u>	<u>X</u>		<u>2616' (KB)</u>	<u>2616' (KB)</u>	<u>100 sks Neat</u>	
Production	<u>4 1/2</u>	<u>K</u>	<u>10.50</u>	<u>X</u>			<u>4573' (KB)</u>	<u>200 sks Poznix</u>	
Tubing									
Liners									Perforations: Top _____ Bottom _____

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of the filing of the Application.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19 _____
B.B. m.w. TS T.S. 9/06/154

By Margaret Chase
 Its _____

09/08/2023
 Coal Owner

1) Date: April 4, 1984
 2) Operator's Well No. KEM-173
 3) API Well No. 47 - 035 - 1655 -
 State County Permit Frac.

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 Arthur Pennington
 Address 5215 Tyler View Drive
Charleston, WV
 (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 _____

TO THE PERSON (:

(1) The A PS Form 3800, Feb. 1982

* U.S.G.P.O. 1983-403-517

Postmark of Date	TOTAL Postage and Fees	Return Receipt Showing to whom and Date Delivered	Restricted Delivery Fee	Special Delivery Fee	Certified Fee	Postage	P.O. State and ZIP Code	Street and No.
	\$	Return receipt showing to whom, Date, and Address of Delivery				\$	Charleston WV	5215 Tyler View Drive

RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED FOR MAIL NOT FOR INTERNATIONAL MAIL
 (See Reverse)
 P 534 267

6) EXTRACTION
 Check and include the following:
 I have 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 11 day of April, 1984.
 My commission expires 8/30, 1993.
Denese Carney
 Notary Public, Jackson County,
 State of West Virginia

WELL OPERATOR Kaiser Exploration and Mining
 By RAP
 Its General Manager
 Address P.O. Box 8
Ravenswood, WV 26164
 Telephone (304) 273-5371

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:

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

Arthur Pennington

Kaiser Exploration and
Mining Company

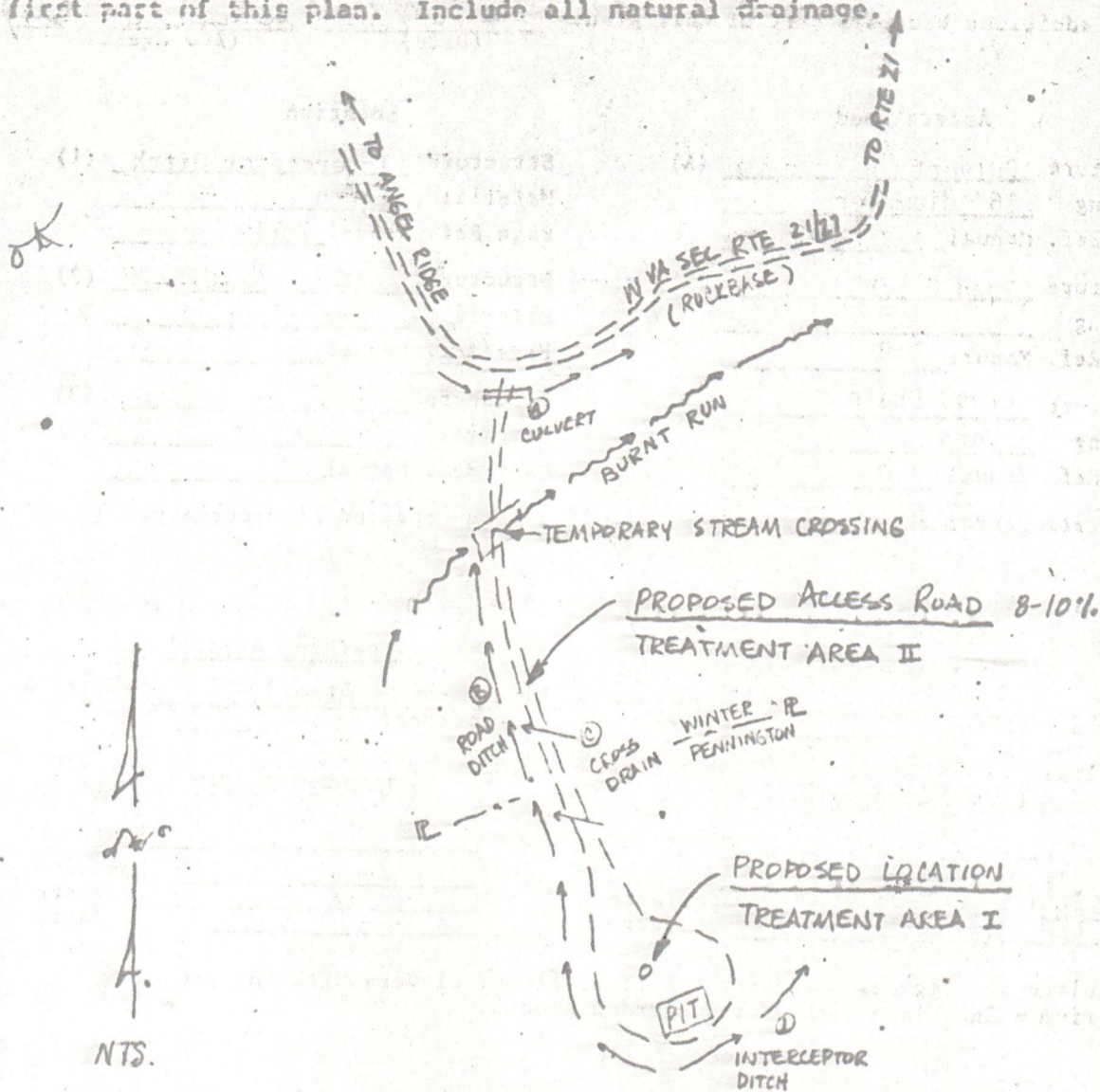
1/8 of prevailing 146/610
field price

09/08/2023

Well Site Plan

Property Boundary	—————	Diversion	—————
Road	====	Spring	○
Existing Fence	———x———	Wet Spot	⊕
Planned Fence	-----	Building	▣
Stream	~~~~~	Drain Pipe	○—○—○—○
Open Ditch	—x—x—x—x—	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.



Comments: PROPOSED LOCATION IS ON FLAT IN WOODS. BRUSH REMOVED FROM SITE-
MARKETABLE TIMBER CUT & STACKED. DISTURBED AREAS RESTORED WITHIN 6 MONTHS
OF COMPLETION

Signature:

D. Fisher

KAISER EXPLORATION AND MINING COMPANY
 P. O. Box 8, Ravenswood, WV 26164

272-5271
 Phone Number 09/08/2023

Please return to landowners cooperation to protect new seedling for one growing season.



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APR 18 1984

OIL & GAS DIVISION

DEPT. OF MINES

State of West Virginia

Department of Mines
Oil and Gas Division

Date September 10, 1982
Operator's
Well No. 173
Farm Pennington
API No. 47-035-1655

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 ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 937' Watershed Burnt Run
District: Ripley County Jackson Quadrangle Kenna

COMPANY Kaiser Exploration & Mining Co.

ADDRESS P. O. Box 8, Ravenswood

DESIGNATED AGENT Same

ADDRESS _____

SURFACE OWNER Arthur Pennington

ADDRESS 5215 Tyler View Drive, Charleston

MINERAL RIGHTS OWNER Same, et al

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Richard

Morris ADDRESS P.O. Box 372, Grants-

PERMIT ISSUED 2/26/82 ville

DRILLING COMMENCED 8/17/82

DRILLING COMPLETED 8/23/82

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"	598	598	375 sx
9 5/8			
8 5/8			
7	2616	2616	165 sx
5 1/2			
4 1/2	4573	4573	200 sx
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Brown shale Depth 4162-4394 feet

Depth of completed well 4629 feet Rotary x / Cable Tools _____

Water strata depth: Fresh _____ feet; Salt _____ feet

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

OPEN FLOW DATA

Producing formation Devonian Brown Shale Pay zone depth 4107-4392 feet

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

Final open flow 184 Mcf/d Final open flow --- Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure 1110 psig (surface measurement) after _____ 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

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

9/08/82 Brown Shale perforation
20 shots from 4107-4392 (0.40" diameter holes)

9/09/82: Brown shale frac: 75 quality foam; total sand: 60,000# 20/40 sand; total fluid: 391 BBL; total nitrogen: 1,144,000 SCF; treating pressure: 3300 psig; break-down with 800 psig; displaced 500 gal of 15% HCL; instantaneous shut in pressure: 1400 psig.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Shale & siltstone			0	160	
Sandstone			160	193	
Shale			193	229	
Sandstone			229	625	
Siltstone & shale			625	750	
Sandstone			750	785	
Siltstone			785	890	
Sandstone			890	1100	
Siltstone			1100	1190	
Sandstone			1190	1310	
Siltstone & shale			1310	1410	
Sandstone & siltstone			1410	1570	
Siltstone			1570	1740	
Greenbrier Lime			1740	2096	
Shale			2096	2116	
Sandstone			2116	2230	
Shale			2230	2576	
Coffee Shale			2576	2599	
Berea Ss.			2599	2610	s/g
Shale			2610	4162	s/g @ 3980, 3680, 3790
Brown Shale			4162	4394	s/g @ 4215, 4324
Shale			4394	4629-	T.D. s/g @ 4550

(Attach separate sheets as necessary)

Kaiser Exploration and Mining Company
Well Operator

By: R.A.P.

09/08/2023

Date: September 10, 1982

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."

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REVISED

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

OIL & GAS DIVISION DEPT. OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date 12/28/84 Operator's Well No. KEM 173 Farm A. Pennington API No. 47 - 035 - 1655 - ERAC

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 / Underground Storage / Deep / Shallow x /)

LOCATION: Elevation: 937' Watershed Burnt Run District: Ripley County Jackson Quadrangle Kenna

COMPANY Kaiser Exploration and Mining Co.

ADDRESS P. O. Box 8 Ravenswood, WV 26164

DESIGNATED AGENT R. A. Pryce

ADDRESS Same

SURFACE OWNER Arthur Pennington

ADDRESS 5215 Tyler View Drive, Charleston, WV

MINERAL RIGHTS OWNER Same, et al

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Richard Morris

ADDRESS P. O. Box 372 Grantsville, WV

PERMIT ISSUED 2/26/82 (5-9-84)

DRILLING COMMENCED 8/17/82

DRILLING COMPLETED 8/23/82

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

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

GEOLOGICAL TARGET FORMATION Devonian Brown Shale Depth 4162-4394 feet

Depth of completed well 4629 feet Rotary x / Cable Tools

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

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

OPEN FLOW DATA

Producing formation Devonian Brown Shale Pay zone depth 4107-4392 feet

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

Final open flow 184 434 Mcf/d Final open flow -- Bbl/d

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

Static rock pressure 1110 psig (surface measurement) after -- hours shut in (If applicable due to multiple completion--)

09/08/2023

Second producing formation Berea Sandstone Pay zone depth 2599-2609 feet

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

Final open flow 250 Mcf/d Oil: Final open flow -- Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 800 psig (surface measurement) after 96 hours shut in

(Continue on reverse side)

JACK - 1655

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

10/15/84 Young's to perf Berea with 30 (.39" dia) shots from 2599'-2609'.
 12/14/84 NOWSCO to X-link frac the Berea. Broke down formation with 500 gal of 15% HCl, ran 250 bbl gel pad, treated with 30 lb X-link gel @ 1650 psig, used #45,000 of 20/40 sand, #15,000 of 10/20 sand, total nitrogen: 187 mscf, total fluid: 636 bbl, ISIP: 1720 psig, 5 min SIP: 1650 psig.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
See Original					

(Attach separate sheets as necessary)

Kaiser Exploration and Mining Company

Well Operator

By:

Ronald Durst

09/08/2023

Date:

12/28/84

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

INSPECTOR'S WELL REPORT

Permit No. 035 1655

Oil or Gas Well _____
(KIND)

Company <u>Kaiser Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Pennington</u>	16			Kind of Packer _____
Well No. <u>Kem 173</u>	13			
District _____ County <u>Jackson</u>	10			Size of _____
Drilling commenced _____	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 3/8			
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 _____
Block 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			

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OIL & GAS DIVISION
DEPT. OF MINES
SEP 25 1984

Drillers' Names _____

Remarks: _____

Young set perm. plug 3.71" at 2685 KB perforate 3 holes 2660 for squeeze.

9 17 84
DATE

Jerry Tephahok
INSPECTOR

09/08/2023

300 displaced pressure. good squeeze.

9 21 84
DATE

Jerry Tephahok
INSPECTOR

RECEIVED

JUN 7 1985

OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OFFICE OF OIL AND GAS
CHARLESTON 25305
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

Company: KAISER EXP & MIN. CO
Farm: ARTHUR PENNINGTON #173 Well:

Permit No. 47- 35-1655 -FRAC
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 Casings	X	
15.02	Adequate Coal Casings	X	
15.01	Adequate Production Casings		
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	
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 T. ...*
DATE: 6/14/85

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

June 19, 1985

Date

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

RECEIVED

DEC 1 8 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 035 1655

Oil or Gas Well _____
(KIND)

Company kaiser Exploration

Address _____

Farm pennington

Well No. _____

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			Kind of Packer _____
16			
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ 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:

Fraced 11 27 84 to be reseeded in spring.

12 11 84
DATE

[Signature]
09/08/2023
DISTRICT WELL INSPECTOR

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

RECEIVED
FEB 15 1985

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES
Oil or Gas Well (KIND)

Permit No. 035 1655

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>Kaiser Exploration</u>	Size			
Address _____	16			Kind of Packer _____
Farm <u>Pennington</u>	13			
Well No. <u>173</u>	10			Size of _____
District _____ County <u>Jackson</u>	8 1/4			
Drilling commenced _____	6 3/8			Depth set _____
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top _____
Volume _____ Cu. Ft.				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 _____

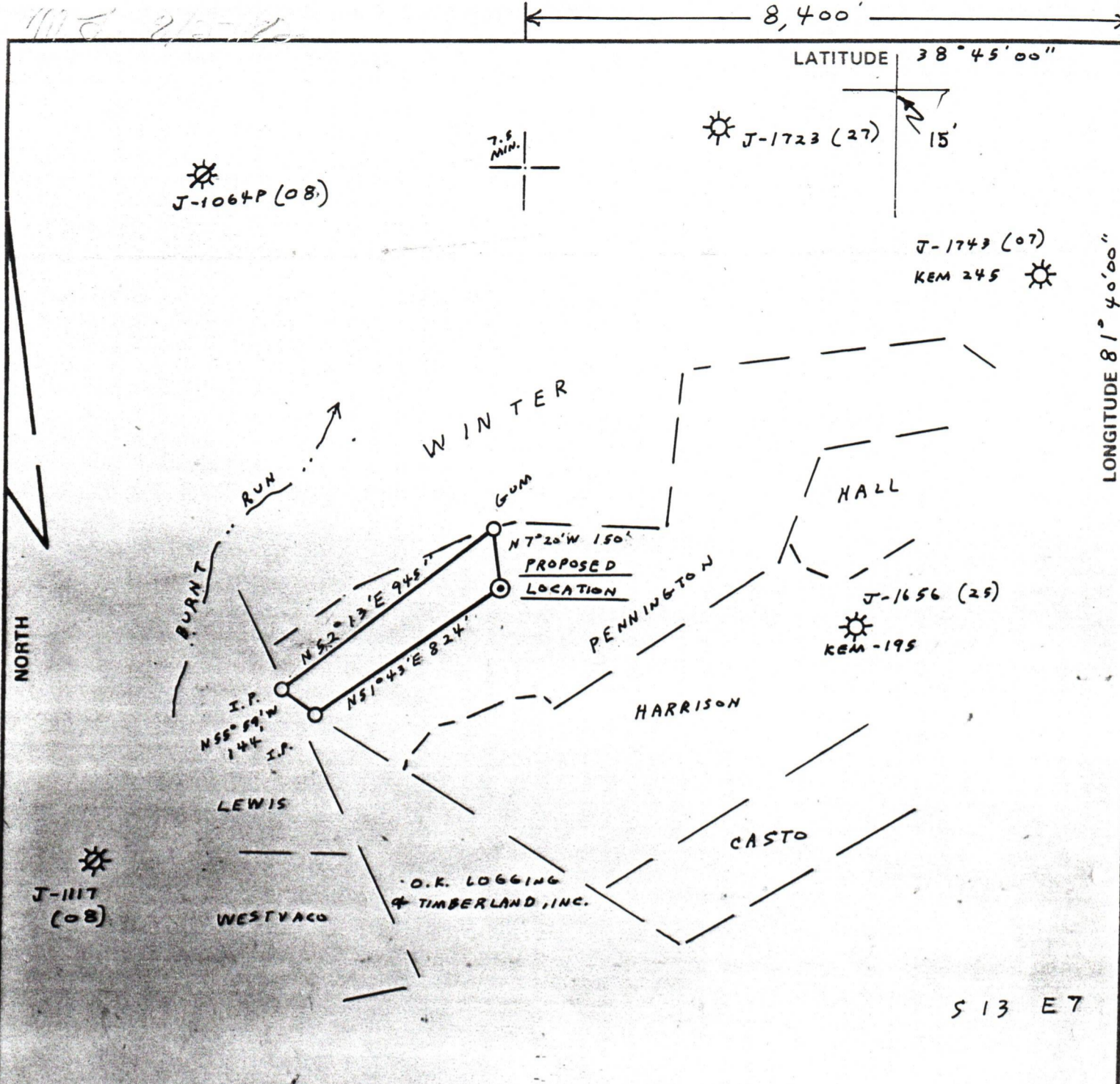
Remarks: _____

needs some work in spring before release.

2 8 85

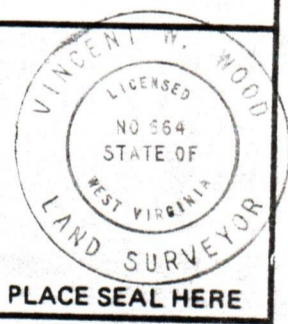
DATE

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



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION SPOT ELEV. 996 HIGH POINT, SOUTH OF SITE

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



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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE AUGUST 18 19 82
 OPERATOR'S WELL NO. KEM 173 REV.
 API WELL NO. 47 - 035 - 1655 - Rev
 STATE COUNTY PERMIT Frac.

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 905 WATER SHED BURNT RUN
 DISTRICT RIPLEY COUNTY JACKSON
 QUADRANGLE KENNA A
 SURFACE OWNER ARTHUR PENNINGTON ACREAGE 27.3
 OIL & GAS ROYALTY OWNER ARTHUR PENNINGTON, ET AL. LEASE ACREAGE 29.78
 LEASE NO. 88-02-055 09/08/2023
 PROPOSED WORK: DRILL ___ 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 4586
 WELL OPERATOR KAISER EXPLOR. & MIN. CO. DESIGNATED AGENT KAISER EXPLORATION AND MINING CO.
 ADDRESS P.O. BOX 8 RAVENSWOOD, W. V. 26164 ADDRESS P.O. BOX 8 RAVENSWOOD, W. V. 26164

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

RECEIVED
SEP 5 1984
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 035 1655

Oil or Gas Well _____
(KIND)

Company <u>Kaiser Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			Kind of Packer _____
Farm <u>Pennington</u>	16			
Well No. <u>Kem 173</u>	13			Size of _____
District _____ County <u>Jackson</u>	10			
Drilling commenced _____	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 3/8			
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.				
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:

Noscoe pumped 5 BBL water 36 BBL gel down 4 1/2 pressure set at 3000lb
broke to 600 lbs rose to ~~600 lbs~~ 2500 lbs then went to 0lbs pumped
100 sks neat plug down to 2630. taged plug backside of 4 1/2 circulated.
300 displaced pressure. good squeeze.

9 21 84

DATE

Jerry Taylor
09/08/2023

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.

DISTRICT WELL INSPECTOR
09/08/2023