



1) Date: March 15, 1984
 2) Operator's Well No. KEM #501
 3) API Well No. 47 - 035 - 1948
 State _____ County _____ Permit _____

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow /)
- 5) LOCATION: Elevation: 957 Watershed: Trace Fork
 District: Ravenswood County: Jackson Quadrangle: Ripley
- 6) WELL OPERATOR Kaiser Exploration and Mining Co 7) DESIGNATED AGENT R. A. Pryce
 Address P. O. Box 8 Address Same
Ravenswood, WV 26164
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Jerry Tephabock
 Address Rt. 1, Box 101A
Ripley, WV 25271
- 9) DRILLING CONTRACTOR: Name Clint Hurt
 Address P. O. Box 388
Elkview, WV
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Devonian Brown Shale
- 12) Estimated depth of completed well, 4522 feet
 13) Approximate strata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No
- 15) CASING AND TUBING PROGRAM

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 OIL & GAS DIVISION
 DEPT. OF MINES

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling		
Conductor								Kinds
Fresh water	10 3/4"			X		250 <u>437'</u>	250 <u>437'</u>	150 sks class A to surface
Coal								Sizes
Intermediate	7"			X		2392	2392	65 sks 50/50 pozmix
Production	4 1/2"			X		4522	4522	100 sks class A 225 sks 50/50 pozmix
Tubing								Perforations
Liners								Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-035-1948 Date April 30, 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 April 30, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BLANKET</u>	Agent: <u>LD</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>966-741</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: _____
 2) Operator's Well No. _____
 3) API Well No. _____
 State _____ County _____



FILE COPY

FORM IV-2(B)
 (Reverse)
 7-83

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
OFFICE USE ONLY

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

4) WELL LOCATION: B (If "Gas", Production) _____
 Elevation: _____
 District: _____
 County: _____
 Quadrangle: _____
 5) WELL OPERATOR: _____
 Address: _____
 6) OIL & GAS INSPECTOR TO BE NOTIFIED: _____
 Name: _____
 Address: _____
 7) DRILLING CONTRACTOR: _____
 Name: _____
 Address: _____
 8) PROPOSED WELL WORK: Drill _____
 Plug off old formation _____
 Other physical change in well (specify): _____
 9) GEOLOGICAL TARGET FORMATION: _____
 10) Estimated depth of completed well, _____ feet
 11) Approximate total depths: Fresh, _____ feet; salt, _____ feet
 12) Approximate coal seam depths: _____ feet
 13) Is coal being mined in the area? Yes _____ No

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 OIL & GAS DIVISION

Casing or Tubing Type	Size	Grade	Specifications		Footage Intervals	Cement Fillets or Sacks (Cubic feet)	Packers
			Weight per ft.	New Used			
Conductor							
Fresh water							
Coal							
Intermediate							
Production							

OFFICE USE ONLY

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

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____
 Reason: _____

Board	Agent	Plat	Casing	For
-------	-------	------	--------	-----

NOTE: Keep one copy of this permit posted at the drilling location.
 See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

09/08/2023



IV-9
(Rev 8-81)

DATE January 31, 1984

WELL NO. KEM #501

API NO. 47-035-1948

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 Address Same

Telephone 273-5371 Telephone _____

LANDOWNER Mary A. Walters 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: Feb 3 1984 (Date)

Wayne W. Hughes
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Road Culvert (A)
Spacing 12" diameter
Page Ref. Manual 2:7

Structure Diversion Ditch (1)
Material Earthen
Page Ref. Manual 2:12

Structure Cross Drains (B)
Spacing 80'
Page Ref. Manual 2:4

Structure _____ (2)
Material _____
Page Ref. Manual MAR 23 1984

Structure Drainage Ditch (C)
Spacing Earthen
Page Ref. Manual 2:12

Structure _____ (3)
Material _____
Page Ref. Manual _____

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MAR 23 1984
OIL & GAS DIVISION
DEPT. OF MINES

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

REVEGETATION

Treatment Area I

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

Treatment Area II

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

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

PLAN PREPARED BY Vincent Wood
ADDRESS 116 Post Avenue
Ripley, WV 25271
PHONE NO. 372-2709

09/08/2023

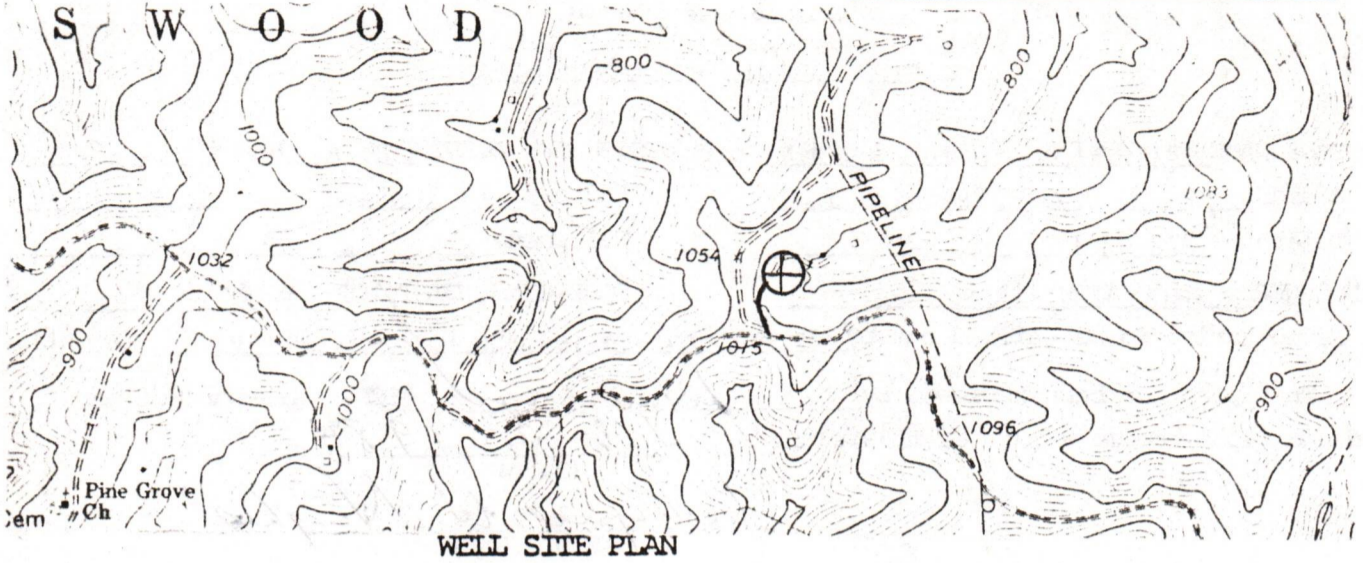
NOTES: Please request landowner's cooperation to protect new seeding for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE RIPLEY

LEGEND

Well Site ⊕

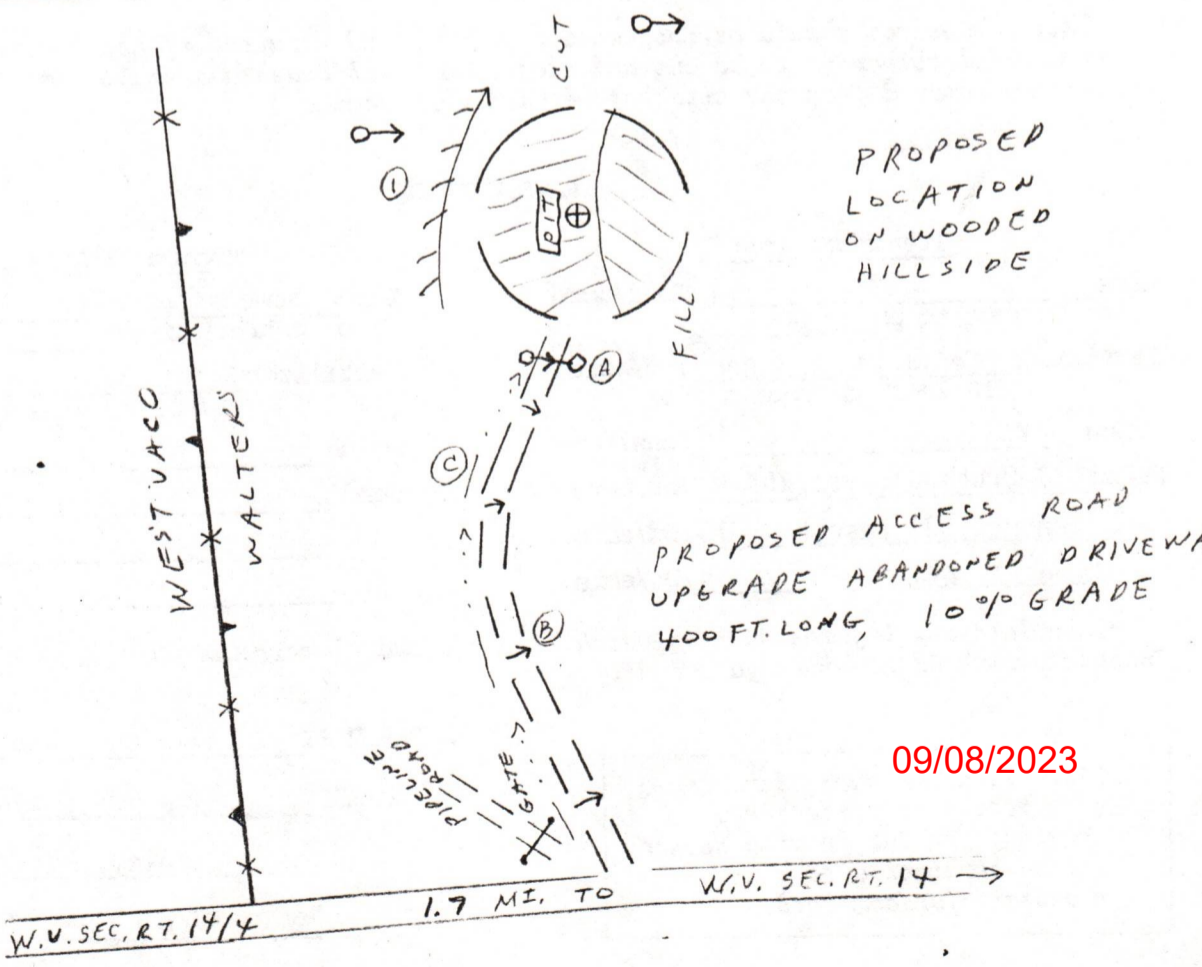
Access Road ———



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: March 15, 1984
2) Operator's Well No. KEM #501
3) API Well No. 47-035-1948
State County Permit

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

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

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

(i) Name Mary Audeen Walters
Address Evans, WV

(ii) Name _____
Address _____

(iii) Name _____
Address _____

5(i) COAL OPERATOR None
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name None
Address _____

Name _____
Address _____

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) - EXTRACTON 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-i-(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 March, 1984.
My commission expires 8/30, 1993.

WELL OPERATOR Kaiser Exploration and Mining Company

By R. A. Pryce
Its General Manager
Address P. O. Box 8
Ravenswood, WV 26164
Telephone 304 273 5371

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

09/08/2023

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
Irene Jones Farnario	Kaiser Exploration and Mining Company	1/8 of prevailing field price	177/37

PS Form 3811, July 1982

SENDER: Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one):
- Show to whom and date delivered
 - Show to whom, date, and address of delivery
 - RESTRICTED DELIVERY
- (The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$ _____

3. ARTICLE ADDRESSED TO:

Mary Helen Walters
4801 Dinko Rd.
Columbus, OH 43270

ARTICLE NUMBER _____

4. TYPE OF SERVICE:
- REGISTERED
 - CERTIFIED
 - EXPRESS MAIL
- (Always obtain signature of addressee or agent)
- INSURED
 - COD

I have received the article described above.

SIGNATURE

Mary Helen Walters

5. DATE OF DELIVERY

3-24-84

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE:



U.S. POST OFFICE
GPO: 1982-379-593

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MAR 28 1984

OIL & GAS DIVISION
DEPT. OF MINES

09/08/2023

DEPT. OF MINES
OIL & GAS DIVISION
RECEIVED

09/08/2023



IV-35
(Rev 8-81)

Date July 3, 1984
Operator's
Well No. KEM #501
Farm Farnario
API No. 47 - 035 - 1948

State of West Virginia
Department of Mines
Oil and Gas Division

CONFIDENTIAL

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

RECEIVED
DEC 13 1984
OIL & GAS DIVISION
DEPT. OF MINES

WELL TYPE: Oil / Gas x / Liquid Injection / Waste Disposal
(If "Gas," Production x / Underground Storage / Deep Shallow)
LOCATION: Elevation: 957' Watershed Trace Fork
District: Ravenswood County Jackson Quadrangle Ripley

COMPANY KAISER EXPLORATION AND MINING COMPANY
ADDRESS P. O. Box 8, Ravenswood, WV 26164
DESIGNATED AGENT R. A. Pryce
ADDRESS Same
SURFACE OWNER Mary Audeen Walters
ADDRESS Evans, WV 25241
MINERAL RIGHTS OWNER Irene Farnario
ADDRESS 3080 Washington St., Bellaire, OH 43906
OIL AND GAS INSPECTOR FOR THIS WORK Jerry
Tephabock ADDRESS Rt. 1, Box 101-A
PERMIT ISSUED Ripley, WV 25271
DRILLING COMMENCED 5/31/84
DRILLING COMPLETED 6/06/84
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
10-3/4" 13-10"	450(KB)	450	225 sks Class
9 5/8			
8 5/8			
7	2339(KB)	2330	175 sks 50/50 pozmix, 100 sks class A
5 1/2			
4 1/2	4605	4605	225 sks 50/50 pozmix
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Brown Shale Depth 4197 feet
Depth of completed well 4623 feet Rotary x / Cable Tools
Water strata depth: Fresh N/A feet; Salt N/A feet
Coal seam depths: N/A Is coal being mined in the area? NO

OPEN FLOW DATA
Producing formation Devonian Brown Shale Pay zone depth 4197 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d
* Final open flow 660 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1175 psig (surface measurement) after hours shut in
(If applicable due to multiple completion--)
Second producing formation Berea Sandstone Pay zone depth 2623 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 660 Mcf/d Oil: Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 875 psig (surface measurement) after hours shut in

JACK - 1948

09/08/2023

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

6/11/84: YOUNG'S WIRELINE: perf Brown Shale - 4197'/4455' - 20 holes, .39" dia.
 6/13/84 HALLIBURTON & NOWSCO: foam frac Shale(90 quality); breakdown pressure: 2600 psig; breakdown fluid: N2; maximum pressure: 3300 psig; total sand: 60,000# of 20/40; total N2: 1118 mscf; total fluid: 192 bbl; ISIP: 2600 psig; 5-min SIP: 2000 psig
 6/12/84 YOUNG's to perf Berea, 2623'/2626', 18 holes, .40" dia.
 6/12/84 HALLIBURTON & BJ HUGHES: foam frac Berea; breakdown pressure: 2650 psig; breakdown fluid: N2; maximum pressure: 2650 psig; treating pressure: 2630 psig; total sand: 60000# of 20/40; total N2: 1052 mscf; total fluid: 206 bbl; ISIP: 2050 psig; 5-min SIP: 1950 psig.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
SOIL and SHALE			0	120	
SAND			120	220	
SHALE			220	290	
SILTSTONE			290	503	
SAND			503	567	
SILTSTONE			567	764	
SAND			764	824	
SILTSTONE and SHALE			824	1564	
DUNKARD SANDS			1564	1757	
SHALE			1757	1882	
SALT SANDS			1882	2065	
BIG LIME (GREENBRIER)			2065	2160	
SHALE			2160	2172	
BIG INJUN SAND			2172	2262	
SHALE			2262	2606	
COFFEE SHALE			2606	2626	
BEREA SAND			2626	2634	
SHALE			2634	3866	S/G @ 3333
BROWN SHALE			3866	4454	S/G @ 4220, 4292
SHALE			4454	4628	
TOTAL DEPTH			4628		

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY

Well Operator

By: R.A.P.

09/08/2023

Date: July 19, 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 sand, encountered in the drilling of a well."

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

RECEIVED
JUN 6 - 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

Permit No. 035 1948

DEPT. OF MINES
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 501</u>	13			
District _____ County <u>K Jackson</u>	10			Size of _____
Drilling commenced <u>5 31 84</u>	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 Junior Archer

Remarks:

Spud at 12:00 noon

TD 13 1/4 hole 5:00 PM at 470' Ran 12 Jts 10 3/4 csg set at 450 KB Cement NOSCO
225 sacs class a Neat Plug Down 8:00 PM.

5 31 84

DATE

George Teph...
09/08/2023

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

RECEIVED
JUN 12 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 035 1948

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 501</u>	13			
District _____ County <u>Jackson</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbla., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: _____

6 3 84 Ran 56 jts 7" total 2329 set 2339' KB cement NOSCOE 175 sks 50/50 poz
10% salt 1/4 lb flocele per sk. and 100 sks class a neat/
6 4 84 2366' TD waiting on Cement for 7" to set.

6 4 84
DATE

Jung Teph...
09/08/2023
DISTRICT WELL INSPECTOR

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

RECEIVED
JUN 12 1984

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

Permit No. 035 1948

Oil or Gas Well _____
(KIND)

Company <u>Kaiser Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Walters</u>	16			Kind of Packer _____
Well No. <u>Kem 501</u>	13			
District _____ County <u>Jackson</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed <u>6 5 84</u> 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. Junior Archer

Remarks: _____

TD 6 5 84 4628' 6 1/4 hole 7:00PM Ran 113 jts 4 1/2 csg total 4595' set 4605'
Noscoe Cementt 225 sacs 50/50 poz 10 % salt 12 1/2 lb Gilsonite per sk.
plug down 6 6 84 8:30 AM.
Moving to 1926 Kem 455

6 6 84
DATE

George T. ...
09/08/2023

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

RECEIVED

JUN 6 - 1984

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

Permit No. 035 1948

Oil or Gas Well _____
(KIND)

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

Drillers' Names _____

Rig #4 Hurt

Remarks:

5 31 84 TD 13 1/4 hole 5:00 PM 470' Ran 12jts 10 3/4 csg set at 2 450'KB
Cement NOSCOE 225 sks class A neat plug down 8:00PM.

6 1 84

6 1 84

DATE

Jerry Toland
09/08/2023
DISTRICT WELL INSPECTOR



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

RECEIVED
SEP 25 1984

OIL & GAS DIVISION
DEPT. OF MINES

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

COMPANY Kaiser Exploration
P. O. Box 8
Ravenswood, WV 26164

PERMIT NO 035 1948
FARM & WELL NO Kem 501 Ferraro
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	X	
15.01	Adequate Production Casing	X	
15.04	Adequate Cement Strenght	Z	
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	X	
16.02	Well Records Filed		
7.05	Identification Markings	X	

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

SIGNED Joseph Tephahol
DATE 9 20 84

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

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

January 30, 1985
DATE

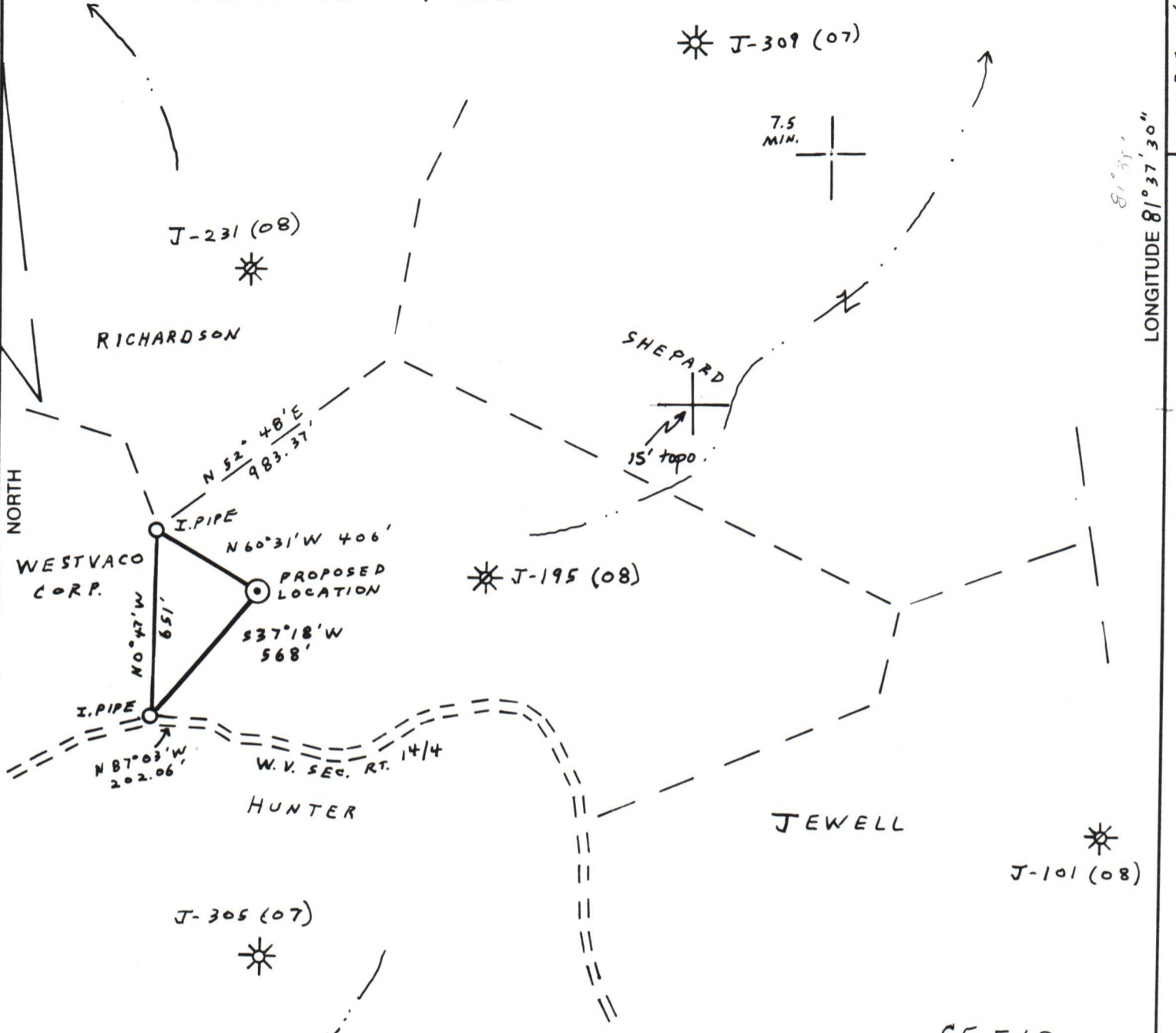
LATITUDE 38° 52' 30"

35° 55'

REFERENCE POINTS:

N 18° 10' E 177' TO 14" POPLAR

N 75° 20' W 201' TO 9" PINE



NORTH

LONGITUDE 81° 37' 30"

3,800'

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

55 E 10

FILE NO. 7-12
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION HIGH POINT ELEV. 1054
380' N.W. OF LOCATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Vincent W. Wood
 R.P.E. _____ L.L.S. 664

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE JANUARY 31, 1984
 OPERATOR'S WELL NO. KEM 501
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 957 WATERSHED TRACE FORK
 DISTRICT RAVENSWOOD COUNTY JACKSON
 QUADRANGLE RIPLEY

SURFACE OWNER MARY AUDEEN WALTERS ACREAGE 53.218
 OIL & GAS ROYALTY OWNER IRENE JONES FARNARIO LEASE ACREAGE 53.218
 LEASE NO. 85-01-2740

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION DEVONIAN BROWN SHALE ESTIMATED DEPTH 4522'
 WELL OPERATOR KAISER EXPLOR. AND MINING CO. DESIGNATED AGENT KAISER EXPLOR. AND MINING CO.
 ADDRESS P.O. BOX 8, RAVENSWOOD, W.V. 26164 ADDRESS P.O. BOX 8, RAVENSWOOD, W.V. 26164

09/08/2023

COUNTY NAME PERMIT