



1) Date: November 22, 19 83
 2) Operator's Well No. KEM #455
 3) API Well No. 47 - 035 - 1926
 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 XX /)
- 5) LOCATION: Elevation: 930' Watershed: Stationcamp Run
 District: Ripley County: Jackson Quadrangle: Ripley
- 6) WELL OPERATOR Kaiser Exploration and Mining Co. 7) DESIGNATED AGENT R. A. Pryce
 Address P. O. Box 8 Address Same
Ravenswood, WV 26164
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Jerry Tephabock
 Address Rt. 1, Box 101A
Ripley, WV 25271
- 9) DRILLING CONTRACTOR: Name Clint Hurt
 Address P. O. Box 388
Elkview, WV
- 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Devonian Brown Shale
- 12) Estimated depth of completed well, 5110 feet
 13) Approximate strata depths: Fresh, feet; salt, feet.
 14) Approximate coal seam depths: Is coal being mined in the area? Yes

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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	250	150 sks class A to surface	
Coal								65 sks of 50/50 pozmix	by rule 15-05
Intermediate	7"			X		2350	2350	100 sks class A	
Production	4 1/2"			X		5110	5110	225 sks 50/50 pozmix	or as req. by rule 15-0
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-035-1926 Date January 5, 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 January 5, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <u>LO</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>965</u> <u>726</u>
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Margaret J. Hesse
 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 LOCATION: 8 1/2" Gas Production, 2500' Elevation, Jackson County, Raleigh, W. Va. Box 8, Raleigh, WV 25271

2) WELL OPERATOR: Kaiser Exploration and Mining Co. (P) PRINCIPAL AGENT S. L. Pryor, Raleigh, WV 25271

3) DRILLING CONTRACTOR: [Name], [Address], Raleigh, WV 25271

4) PROPOSED WELL WORK: Drill X, Perform new formation, Other physical change in well (specify): Devonian Brown Shale

5) GEOLOGICAL TARGET FORMATION: Devonian Brown Shale

6) APPROXIMATE GEL SEAM DEPTH: []

7) APPROXIMATE GEL SEAM DEPTH: []

8) APPROXIMATE GEL SEAM DEPTH: []

9) APPROXIMATE GEL SEAM DEPTH: []

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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: _____

Agent	Permit	Casing	Per

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

09/08/2026

1) Date: November 21, 1983
2) Operator's Well No. KEM #455
3) API Well No. 47 - 035 - 1926
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 WestVaco Corporation
Address P. O. Box 4216
Parkersburg, WV 26101
(ii) Name _____
Address _____
(iii) Name _____
Address _____

5(i) COAL OPERATOR None
Address _____

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

PS Form 3811, Dec. 1980

● 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..

2. **RESTRICTED DELIVERY**
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$ _____

3. ARTICLE ADDRESSED TO:
Westvaco
P.O. Box 8
Parkersburg, WV 26101

4. TYPE OF SERVICE: ARTICLE NUMBER
 REGISTERED INSURED
 CERTIFIED COD
 EXPRESS MAIL

(Always obtain signature of addressee or agent)

I have received the article described above.
 SIGNATURE Addressee Authorized agent
Kaust...

5. DATE OF DELIVERY POSTMARK
12/1/83

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS

TO THE PERSON

- (1) The to and center
- (2) The
- (3) The plus

THE RECEIPTS WHICH ARE SENT (FORM IV-2(A)) ACTION AT A

Take in operator prop for a Well Department and depicts Construction by hand to before the

6) EXTRACT Check and Include The n

7) ROYALTY Is the n or other for compe to the v

you may use AIRMAIL FORM IV-20.

SEE WITH DECLARATION ON RECORD: None

the following documents:

n IV-4 if the well is ling or other work a proposed casing and -6; and well work is only to control and for

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DEC 7 - 1983

REGARDING THE APPLICATION COPY OF THE APPLICATION & GAS DIVISION TRIED TO TAKE ANY

DEPT. OF MINES

undersigned well op- accompanying documents Gas, West Virginia on attached Application ation, the plat, and the rified mail or delivered (circumstances) on or

contracts by which side for specifics.)

n a lease or leases ny similar provision t inherently related s

the answer is Yes,

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by

R. A. Pryce
this 29 day of November, 1983.
My commission expires 8/30, 1993.

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

WELL OPERATOR Kaiser Exploration and Mining Company

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

09/08/2023

2023/08/06

INSTRUCTIONS TO APPLICANT

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 (1) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5 (1), (11) 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 (1) a plat in the form prescribed by Regulation 11, (11) 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
Nancy Moore	Kaiser Exploration and Mining Company	1/8 of prevailing field price	156/649



IV-9
(Rev 8-81)

DATE October 26, 1983

WELL NO. KEM #455

State of West Virginia API NO. 47-035-1926

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Kaiser Exploration and Mining Co DESIGNATED AGENT Same

Address P. O. Box 8, Ravenswood, WV 26164 Address _____

Telephone 273-5371 Telephone _____

LANDOWNER Westvaco Corporation 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: Oct 28 1983

(Date)

Wayne H. Hughes
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Drainage Ditch (A)

Structure Diversion Ditch (1)

Spacing Earthen

Material Earthen

Page Ref. Manual 2:12

Page Ref. Manual 2:12

Structure Cross Drains (B)

Structure _____ (2)

Spacing 135', 45'

Material _____

Page Ref. Manual 2:4

Page Ref. Manual _____

Structure _____ (C)

Structure _____ (3)

Spacing _____

Material _____

Page Ref. Manual _____

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 4 Tons/acre
or correct to pH _____

Lime Same as Area I Tons/acre
or correct to pH _____

Fertilizer 14-14-14 600 lbs/acre
(10-20-20 or equivalent)

Fertilizer _____ lbs/acre
(10-20-20 or equivalent)

Mulch Hay 2 Tons/acre

Mulch _____ Tons/acre

Seed* 81% Orchard Grass/15% Ryegrass 16 lbs/acre

Seed* _____ lbs/acre

Kentucky 31 Fescue 16 lbs/acre

_____ lbs/acre

Red Clover 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

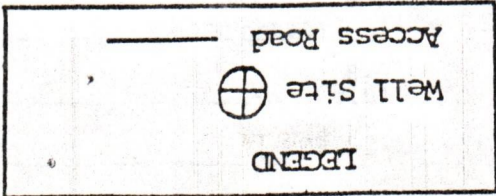
ADDRESS 116 Post Avenue

Ripley, WV 25271

PHONE NO. 372-2709

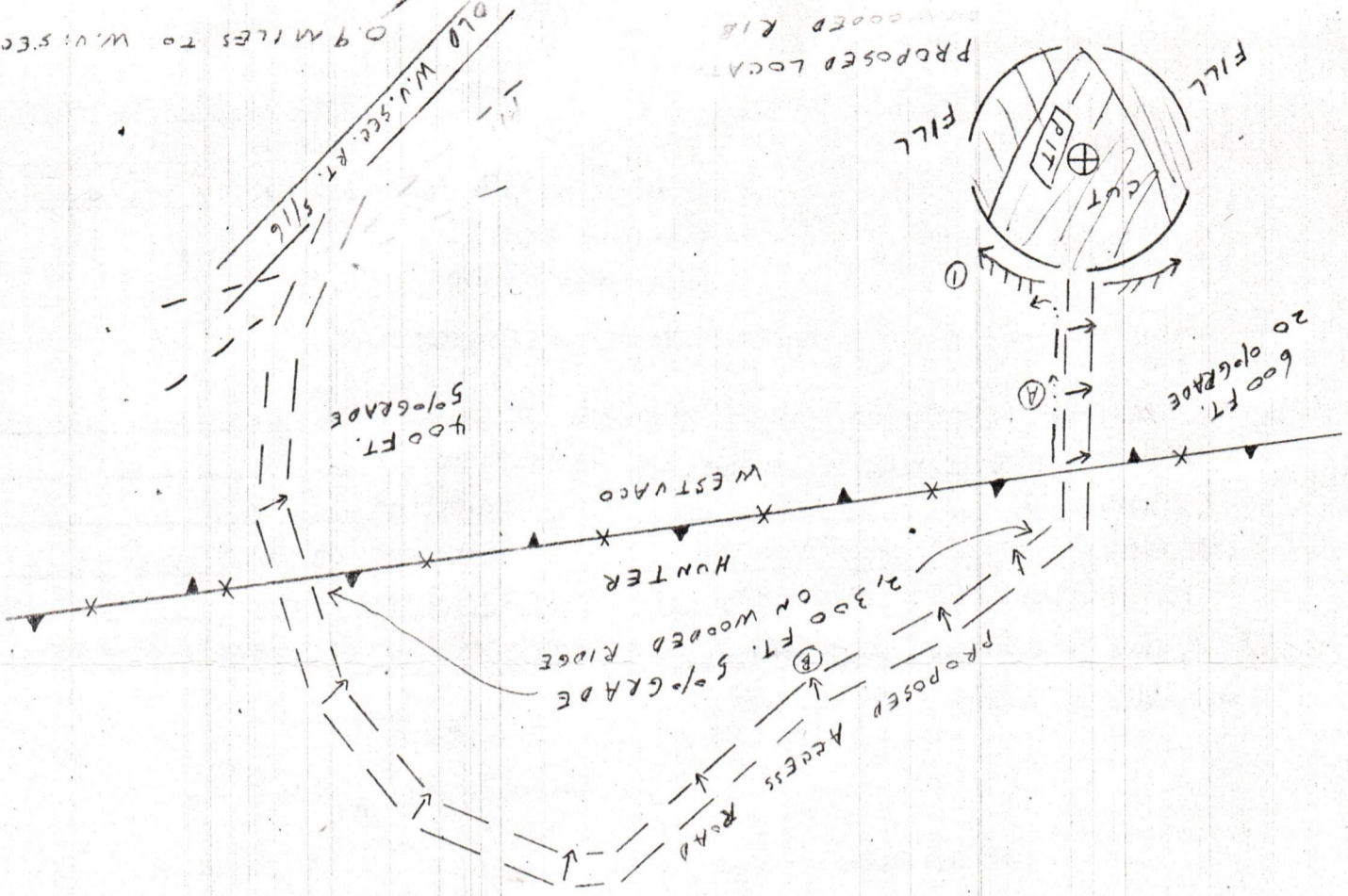
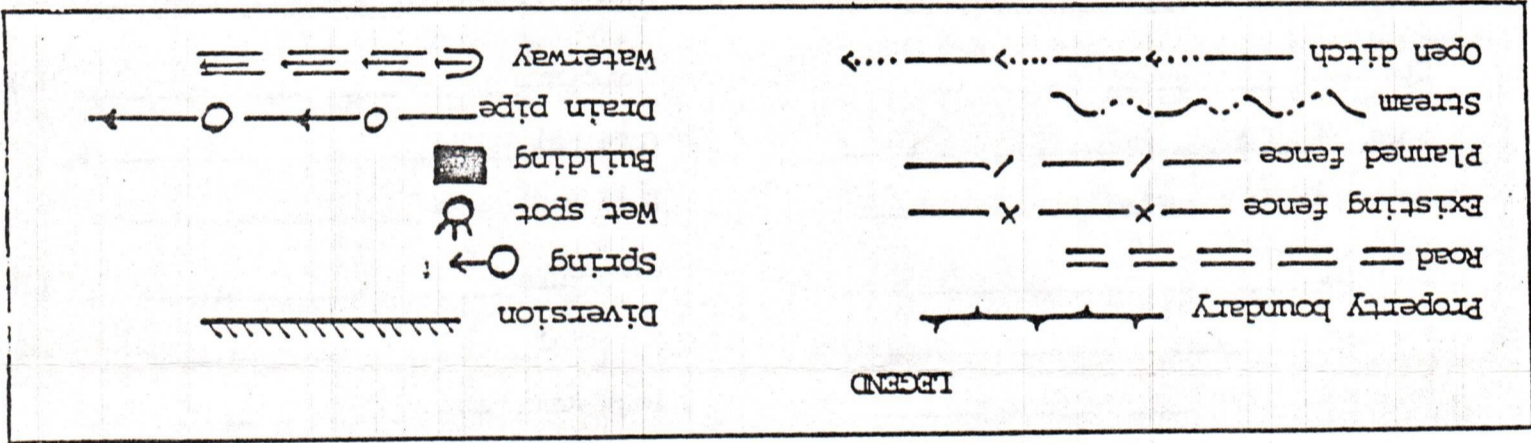
NOTES: Please request landowner's cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTOOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE RIPLEY



WELL SITE PLAN

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



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IV-35
(Rev 8-81)

OIL & GAS DIVISION
DEPT. OF MINES

Date July 3, 1984
Operator's Well No. KEM#455
Farm D. Hupp
API No. 47 - 035 - 1926

CONFIDENTIAL

State of West Virginia
Department of Mines
Oil and Gas Division

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 /)

LOCATION: Elevation: 930' Watershed Stationcamp Run
District: Ripley 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 WESTVACO CORPORATION

ADDRESS P. O. Box 4216, Parkersburg, WV 26101

MINERAL RIGHTS OWNER Nancy Moore

ADDRESS 107 34th Street, Vienna, WV 26105

OIL AND GAS INSPECTOR FOR THIS WORK Jerry

Tephabock ADDRESS Rt. 1, Box 101-A

PERMIT ISSUED Ripley, WV 25271

DRILLING COMMENCED 6/06/84

DRILLING COMPLETED 6/13/84

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.			175 sks Class A
10-3/4" 10-3/4"	266'	266'	3% CaCl, 1/4#/s flow-seal
9 5/8			
8 5/8			
7	2380(KB)	2380(KB)	175 sks 50/50 pozmix, 10% salt & 1/4#/sk celloflake; 100 sks Class A, 5% CaCl & 1/4#/sk celloflake
5 1/2	4487(KB)	4487(KB)	225 sks 50/50 pozmix, 10% salt & 12.5#/sk gilsonite
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Brown Shale Depth 4152 feet

Depth of completed well 4500 feet Rotary X / Cable Tools

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

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

OPEN FLOW DATA

Producing formation Devonian Brown Shale Pay zone depth 4152 feet

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

Final open flow 852 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 950 psig (surface measurement) after 48 hours shut in

(If applicable due to multiple completion--)

*Second producing formation Berea Sandstone Pay zone depth 2595 feet

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

Final open flow 852 Mcf/d Oil: Final open flow 0 Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 850 psig (surface measurement) after 48 hours shut in

*Comingled pay zones

(Continue on reverse side)

JACK - 1926

09/08/2023

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

- 6/18/84: YOUNG's WIRELINE perforated the Brown Shale 4152'/4412' w/20 holes, .39" dia.
- 6/19/84: NOWSCO & BJ HUGHES; Brown Shale: break down pressure 1900 psig, breakdown fluid: 75 quality foam; maximum pressure: 2630 psig; pad: 200 bbl 75 quality foam; treating fluid: 75 quality foam; treating pressure: 2580 psig, 60,000 lbs 20/40 sand from 4 - 10 ppg, total N2: 675 mscf; total fluid: 267 bbl; ISIP: 1900 psig; 5-min SIP: 1300 psig.
- 6/19/84: YOUNG's WIRELINE perforated Berea 2595'/2601' w/18 holes, .39" dia.
- 6/19/84: NOWSCO & BJ HUGHES - foam frac Berea; total N2 used: 640 mcf; 60,000 # 20/40 sand total fluid: 269 bbl; breakdown pressure: 2180 psig; treating pressure: 1980 psig breakdown fluid: 15% HCL; maximum pressure: 2180 psig. ISIP: 1800 psig; 5-min SIP: 1600 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	67	
SAND			67	87	
SHALE			87	140	
SAND			140	192	
SHALE			192	310	
SILTSTONE			310	440	
SAND			440	464	
SILTSTONE			464	700	
SAND			700	768	
SILTSTONE and SHALE			768	1430	
DUNKARD SANDS			1430	1640	
SHALE			1640	1878	
SALT SANDS			1878	2010	
BIG LIME (GREENBRIER)			2010	2124	
SHALE			2124	2152	
BIG INJUN SAND			2152	2224	
SHALE			2224	2570	
COFFEE SHALE			2570	2592	
BEREA SAND			2592	2600	S/G
SHALE			2600	3824	
BROWN SHALE			3824	4410	S/G @ 3993, 4356
SHALE			4410	4507	
TOTAL DEPTH			4507		

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY

Well Operator

By: K.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 coal, encountered in the drilling of a well."

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 1926

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 _____	16			
Well No. <u>Kem 455</u>	13			Size of _____
District _____ County <u>Jackson</u>	10			
Drilling commenced <u>6 6 84</u>	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: _____

Spud Date 6 6 84

6 6 84
DATE

George T. ...
09/08/2023
DEPT. OF MINES

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

INSPECTOR'S WELL REPORT

Permit No. 035 1926

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>Hupp</u>	16			
Well No. <u>Kem 455</u>	13			Size of _____
District _____ County <u>Jackson</u>	10			
Drilling commenced _____	8 1/4			Depth set _____
Drilling completed <u>6 13 84</u> Total depth <u>4507'</u>	6 3/8			
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.				Perf. top _____
OIL _____ bbls., 1st 24 hrs.				
Fresh water _____ feet _____ feet				Perf. bottom _____
Salt water _____ feet _____ feet				

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: _____

Hurt Rig #4 td 6 1/4 hole 6 13 84 6:30 am 4507' ran 111 jts csg 4 1/2" set
4487' kb noscoe cemented with 225 sacs plug down 8:00 AM

6 13 84

DATE

James T. ... 09/08/2023

INSPECTOR



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SEP 25 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
P.O. Box 8
RAvenswood, West Virginia 26164

PERMIT NO 035 1926
FARM & WELL NO Kem 455
DIST. & COUNTY Jackson

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	<u>X</u>	<u> </u>
25.04	Prepared before Drilling to Prevent Waste	<u>X</u>	<u> </u>
25.03	High-Pressure Drilling	<u> </u>	<u> </u>
16.01	Required Permits at Wellsite	<u>X</u>	<u> </u>
15.03	Adequate Fresh Water Casing	<u>X</u>	<u> </u>
15.02	Adequate Coal Casing	<u> </u>	<u> </u>
15.01	Adequate Production Casing	<u>X</u>	<u> </u>
15.04	Adequate Cement Strenght	<u>X</u>	<u> </u>
15.05	Cement Type	<u>X</u>	<u> </u>
23.02	Maintained Access Roads	<u>X</u>	<u> </u>
25.01	Necessary Equipment to Prevent Waste	<u>X</u>	<u> </u>
23.04	Reclaimed Drilling Pits	<u>X</u>	<u> </u>
23.05	No Surface or Underground Pollution	<u>X</u>	<u> </u>
23.07	Requirements for Production & Gathering Pipelines	<u>X</u>	<u> </u>
16.01	Well Records on Site	<u> </u>	<u> </u>
16.02	Well Records Filed	<u> </u>	<u> </u>
7.05	Identification Markings	<u>X</u>	<u> </u>

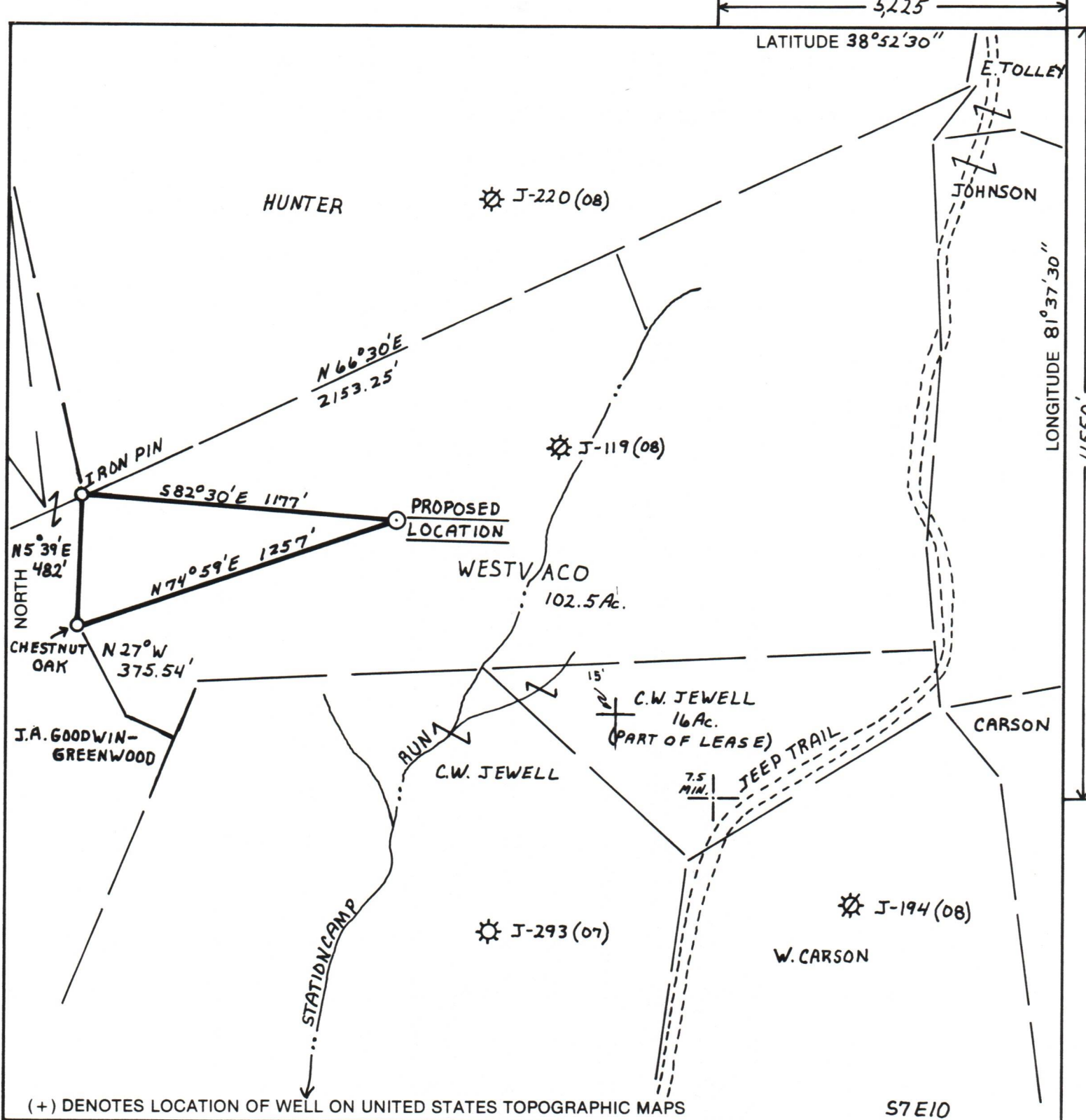
I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED *Jeffrey Topolob*
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. L. ...
Administrator-Oil & Gas Division

March 11, 1985
DATE



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

STE 10

FILE NO. 6-63
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION HIGH POINT ELEV.=1002', 1300' S.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 SEPTEMBER 9, 19 83
 OPERATOR'S WELL NO. KEM 455
 API WELL NO. _____

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X
 LOCATION: ELEVATION 930' WATER SHED STATIONCAMP RUN
 DISTRICT RIPLEY COUNTY JACKSON
 QUADRANGLE RIPLEY

SURFACE OWNER WESTVACO CORP. ACREAGE 118.5 Ac. Part of 102.5 Ac.
 OIL & GAS ROYALTY OWNER NANCY MOORE, ET AL. LEASE ACREAGE 118.5 09/08/2023
 LEASE NO. 82-08-609

PROPOSED WORK: DRILL X 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 5110'
 WELL OPERATOR KAISER EXPLORATION AND MINING CO. DESIGNATED AGENT KAISER EXPLORATION AND MINING CO.
 ADDRESS P.O. BOX 8 RAVENSWOOD, WV. 26164 ADDRESS P.O. BOX 8 RAVENSWOOD, WV. 26164

COUNTY NAME JACKSON
 PERMIT 1976

FORM TV-6 (8-78) H.T. HALL