



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

1) LOCATION: Watershed: Right Fork of Sandy Creek
County: Boone
Address: P.O. Box 5, Reynoldsford, W. Va. 26054

2) WELL OPERATOR: REYNOLDSFORD OIL & GAS
Address: Reynoldsford, W. Va. 26054

3) DRILLING CONTRACTOR: REYNOLDSFORD OIL & GAS
Address: Reynoldsford, W. Va. 26054

4) PROPOSED WELL WORK: Drill 1/2" hole in old formation
Other physical change in well (specify):

5) GEOLOGICAL TARGET FORMATION: Devonian Brown Shale

6) Estimated depth of completed well: 150'

7) Approximate true depth: 150'

8) Approximate coal seam depths: is coal being mined in the area? Yes

9) CASING AND TUBING PROGRAM

Casing or Tubing Type	Size	Grade	Weight per Ft.	SPECIAL TUBING		Footage Interval	General Tubing Remarks (Casing Test)	Yardage
				New	Used			
Contractor						100'		
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: _____

Blanket	Agree	Plan	Casing	Fee
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NOTE: Keep one copy of this permit posted at the drilling location



IV-9
(Rev 8-81)

DATE June 7, 1984
WELL NO. KEM 596
API NO. 47-035-1983

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 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: 6-11-84 (Date)
Steven B. Feese (SCD Agent)

ACCESS ROAD		LOCATION	
Structure <u>Cross Drains</u> (A)	Structure <u>Top Diversion Ditch</u> (1)	Spacing <u>135', 60', 135', 60', 135', 45', 60' 80'</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 _____ (C)	Structure _____ (3)	Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____		

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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.

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

PLAN PREPARED BY Vincent Wood 09/08/2023
ADDRESS 116 Pfoest Avenue
Ripley, WV 25271
PHONE NO. 372-2709

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE LIVER POOL

LEGEND

Well Site ⊕

Access Road ———



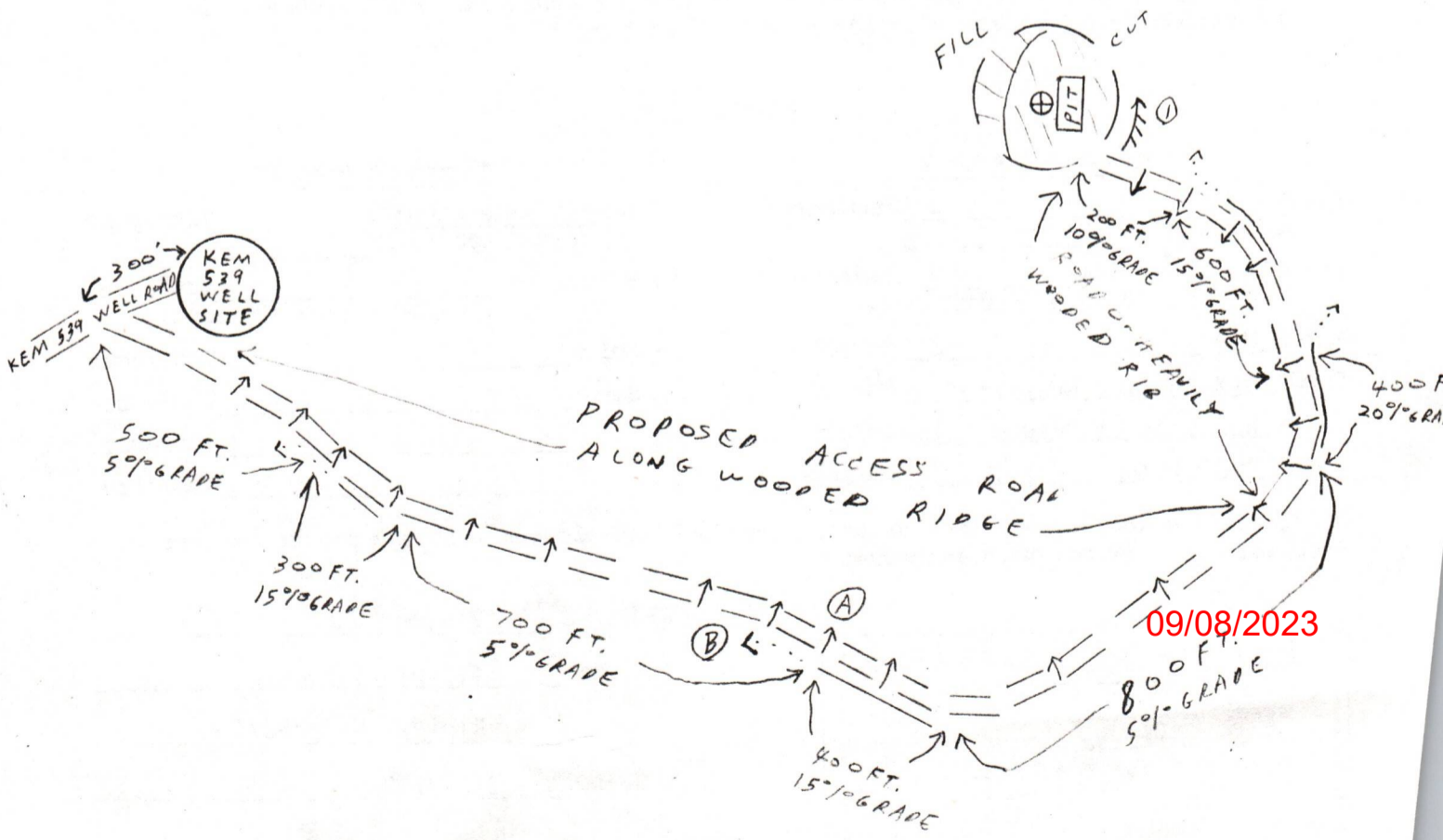
WELL SITE PLAN

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.

LEGEND

Property boundary ———▲———	Diversion ———/———
Road = = = = =	Spring ○→
Existing fence ———X———X———	Wet spot ♀
Planned fence ———/———/———	Building ■
Stream ———~———	Drain pipe —○→○→
Open ditch ———>———>———>———>———	Waterway <= = = =

PROPOSED WELL SITE ON HEAVILY WOODED RIB



1) Date: June 20, 1984
 2) Operator's
 Well No. KEM #596
 3) API Well No. 47-035-1983
 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
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 _____

P 621 176 560

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

TO THE PERSON(S)

- (1) The Applicant to be licensed and de-cemented.
- (2) The plaintiff.
- (3) The Court plug a reclamation.

THE REASON WHICH ARE SUMMARY (FORM IV-2(B)) OF ACTION AT ALL.

Take notice that the operator proposes for a Well Work Department of Mines and depicted on Construction and by hand to the before the day

- 6) EXTRACTION R: Check and print Included: I hold The requis
- 7) ROYALTY PROV: Is the right or other compensation for compensat to the volum

If you may use

Sent to	<u>Westvaco</u>
Street and No.	<u>P.O. Box 577</u>
P.O., State and ZIP Code	<u>Rupert, WV 25984</u>
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	

* U.S.G.P.O. 1983-403-517
 PS Form 3800, Feb. 1982

Kaiser Sale

and the following documents:
 or Form IV-4 if the well is drilling or other work, le, the proposed casing and
 Form IV-6; and
 ss the well work is only to diment control and for

HTS REGARDING THE APPLICATION THE COPY OF THE APPLICATION T REQUIRED TO TAKE ANY

the undersigned well op- and accompanying documents l and Gas, West Virginia ribed on attached Application application, the plat, and the or certified mail or delivered n circumstances) on or

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OIL & GAS DIVISION
 DEPT. OF MINES

or contracts by which
 (reverse side for specifics.)

and upon a lease or leases or any similar provision is not inherently related? Yes No

ad. If 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. Purje

this 20 day of June, 1984.
 My commission expires 8/30, 1993.

Denese Carney

Notary Public, Jackson County,
 State of West Virginia

WELL
 OPERATOR Kaiser Exploration and Mining Co.
 By [Signature]
 Its General Manager
 Address P. O. Box 8
Ravenswood, WV 26164
 Telephone 304-273-5371

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>
Delbert E. Cole, heirs et al	Kaiser Exploration and Mining Company	1/8 of prevailing field price	178/445 65/339

09/08/2023

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

- 8/6/84 Young's Wireline on location to perf Berea with 21 (.39" dia) shots, 3 shots/ft, from 2392' to 2399'. Each shot with 3½ strip.
- 8/8/84 NOWSCO to foam frac Berea Sandstone - Breakdown pressure: 3150 psig, Max. pressure: 3150 psig, treating pressure: 1880 psig, total sand: #60,000 of 20/40 sand, total N₂: 646,250 scf, total fluid: 268.5 bbl, ISIP: 1600 psig, 5 min SIP: 1470 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 and Siltstone			0	478	
Sand			478	500	
Shale			500	532	
Sand			532	605	
Shale			605	695	
Sand			695	720	
Shale			720	990	
Sand			990	1025	
Shale			1025	1110	
Little Dunkard Sand			1110	1208	
Shale			1208	1280	
Big Dunkard Sands			1280	1628	
Shale			1628	1684	
Salt Sands			1684	1858	
Big Lime (Greenbrier)			1858	1950	
Shale			1950	1975	
Big Injun Sand			1975	2030	
Shale			2030	2376	
Coffee Shale			2376	2392	
Berea Sand			2392	2399	S/Oil
Shale			2399	2436	
Total Depth:			2436		

(Attach separate sheets as necessary)

Kaiser Exploration and Mining Company
Well Operator

By: R.A.P. 09/08/2023

Date: 03/04/85

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 1983

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 596</u>	13			Size of _____
District _____ County <u>Jackson</u>	10			
Drilling commenced <u>7 30 84</u>	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.				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: _____

Spudded 97/8 hole 12:30 pm 7 30 84 TD 773' 10:30 pm ran 18 jts 7" csg
set 736' noscoe cement 200 sks class a neat 3% cacl 1/4 lb per sk
flocele plug down 2:00 am 7 31 84. WOC.

7 31 84

DATE

James Teplak
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 1983

Oil or Gas Well _____
(KIND)

Company <u>Kaiser Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Cole</u>	16			Kind of Packer _____
Well No. <u>Kem 596</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

Remarks:

TD 61/4 hole 8:00 pm 8 2 84 2466' ran 60 jts 4 1/2 csg set 2434 cement noscoe 200 sks 50/50 poz 10% salt 12.5 lb per sk gilsonite. plug down 5:30 am 8 3 84. moving to wood county.

8 3 84

DATE

Jeffrey Taylor
09/08/2023

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Silverton Field

Operator's Well No. KEM 596 Cole

API Well No. 47 - 035 - 1983
 State County Permit

W. VA. OIL & GAS
 CONSERVATION COMMISSION

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

WELL OPERATOR'S REPORT
 OF
INITIAL GAS-OIL RATIO TEST

WELL OPERATOR Kaiser Exploration & Mining Co.
 Address P. O. Box 8
Ravenswood, WV 26164

DESIGNATED AGENT R. A. Pryce
 Address Same

GEOLOGICAL TARGET FORMATION: Berea Sandstone Depth 2392 feet
 Perforation Interval 2392 - 2399 feet

GUIDELINES FOR TESTING:

- 1- A minimum of gas vented or flared
- 2- A 24 hour preflow into pipelines or tanks
- 3- Uniform producing rate during the 24 hour test per test period
- 4- Measurement standards as for Form IV-39, "Report of Annual Production" (see Regulation 21.01)
- 5- Separate Form IV-36 for each producing formation in a multiple completion

TEST DATA

START OF TEST-DATE 8/11/84	TIME	END OF TEST-DATE	TIME	DURATION OF TEST
TUBING PRESSURE	CASING PRESSURE 400 psig	SEPARATOR PRESSURE	SEPARATOR TEMPERATURE	
OIL PRODUCTION DURING TEST 5 bbls.	GAS PRODUCTION DURING TEST 20 Mcf	WATER PRODUCTION DURING TEST & SALINITY 0 bbls. ppm.		
OIL GRAVITY	PRODUCING METHOD (Flowing, pumping, gas lift, etc.) °API			

GAS PRODUCTION

MEASUREMENT METHOD FLANGE TAP <input type="checkbox"/> PIPE TAP <input type="checkbox"/> L-10 <input type="checkbox"/>			POSITIVE CHOKE CRITICAL FLOW PROVER <input type="checkbox"/>
ORIFICE DIAMETER	PIPE DIAMETER (INSIDE DIAM.)	NOMINAL CHOKE SIZE - IN.	
DIFFERENTIAL PRESSURE RANGE	MAX. STATIC PRESSURE RANGE	PROVER & ORIFICE DIAM. - IN.	
DIFFERENTIAL	STATIC	GAS GRAVITY (AIR-1.0) MEASURED _____ ESTIMATED _____	
GAS GRAVITY (AIR-1.0)	FLOWING TEMPERATURE	GAS TEMPERATURE _____ °F	
24 HOUR COEFFICIENT	24 HOUR COEFFICIENT PRESSURE - _____ psia		

TEST RESULTS

DAILY OIL 5 bbls.	DAILY WATER 0 bbls.	DAILY GAS 20 Mcf.	GAS-OIL RATIO 4000 SCF/STB
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Kaiser Exploration and Mining Company
 Well Operator

By: R. W. Durst
 Its: Petroleum Engineer

09/08/2023



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OCT 10 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 1983
FARM & WELL NO Kem 596
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	Z	

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

SIGNED Jerry Tephalski
DATE 10 4 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. ...
Administrator-Oil & Gas Division

April 10, 1985

DATE

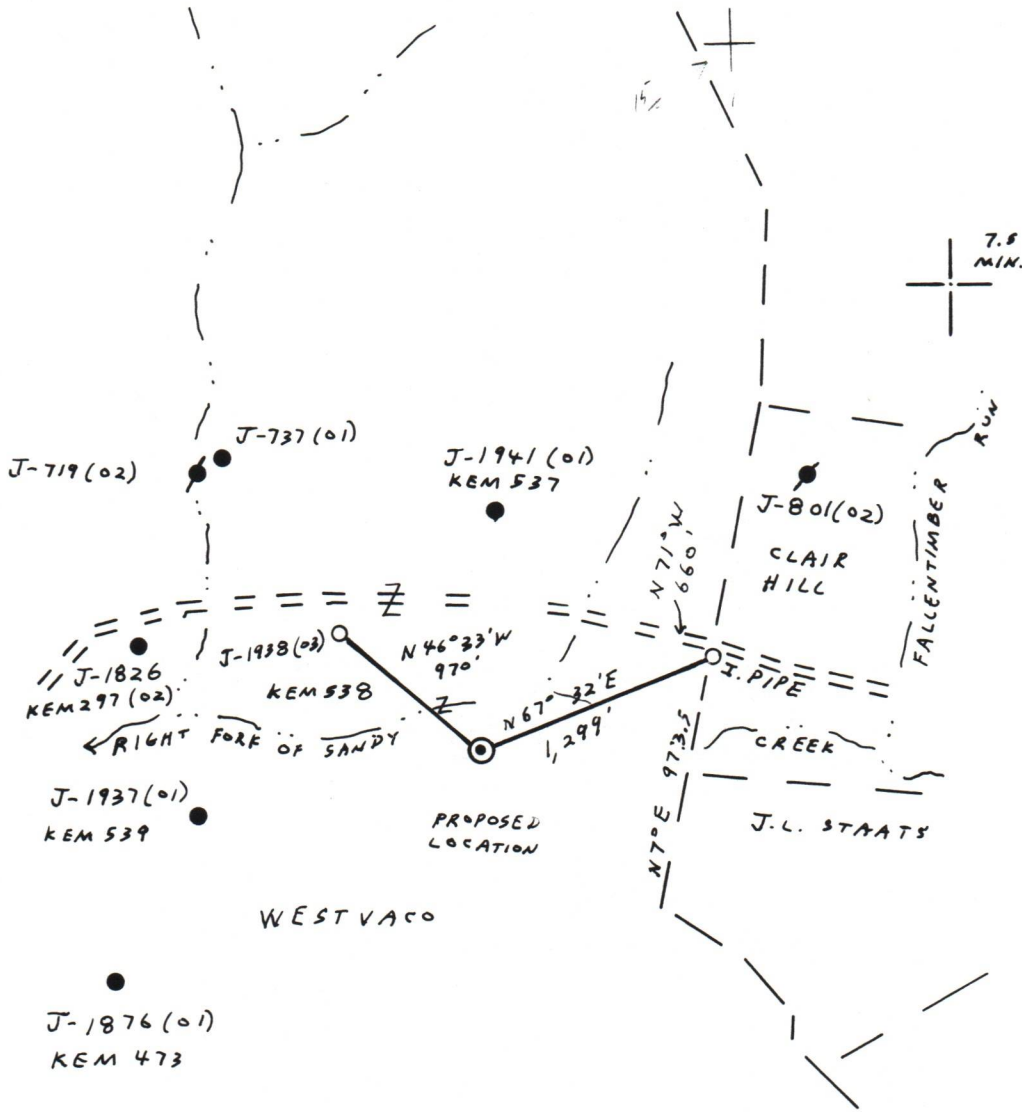
7/2/18

3,900'

LATITUDE 38°55'00"

LONGITUDE 81°32'30"

NORTH



REFERENCE POINT:
 S 40° 41' E 168' TO 10" W. OAK
 N 69° 13' E 159' TO 6" ASH

S 2 E 15

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

FILE NO. 7-44
 DRAWING NO. REV. No. 1
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION J-1938, 970'
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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE MAY 31, 1984
 OPERATOR'S WELL NO. KEM 596
 API WELL NO. _____

47 - 035 - 1983
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 746 WATERSHED RIGHT FORK OF SANDY CREEK
 DISTRICT RAVENSWOOD COUNTY JACKSON
 QUADRANGLE LIVER POOL
 SURFACE OWNER WESTVACO CORP. ACREAGE 378.02
 OIL & GAS ROYALTY OWNER DELBERT E. COLE HEIRS, ET AL. LEASE ACREAGE 1,085.5
 LEASE NO. 88-01-2862

09/08/2023

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 _____ R. A. PRYCE
 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

FORM IV-6 (8-78)

H.T. HALL

COUNTY NAME

PERMIT