



1) Date: April 6, 1983
2) Operator's Well No. KEM #361
3) API Well No. 47 035 1829
State County Permit

DRILLING CONTRACTOR:

Clint Hurt

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas
B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 634 Watershed: Right Fork of Sandy Creek
District: Ravenswood County: Jackson Quadrangle: Liverpool
- 6) WELL OPERATOR Kaiser Exploration and Mining Co. DESIGNATED AGENT R. A. Pryce
Address P. O. Box 8 Address Same
Ravenswood, WV
- 7) OIL & GAS ROYALTY OWNER Delbert E. Cole, Hr. et al
Address Rt. 1
Liverpool, WV
Acreage 1085.5
- 8) SURFACE OWNER Westvaco Corp.
Address P. O. Box 4216
Parkersburg, WV
Acreage 378.02
- 9) FIELD SALE (IF MADE) TO:
Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Homer Dougherty
Address Linden Rt., Box 3A
Looneyville, WV
- 11) PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation
Other physical change in well (specify) _____
- 12) COAL OPERATOR None
Address _____
- 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name None
Address _____
Name _____
Address _____
- 14) COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____
- 15) GEOLOGICAL TARGET FORMATION, Devonian Brown Shale
- 16) Estimated depth of completed well, 4819 feet
- 17) Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.
- 18) Approximate coal seam depths: _____ Is coal being mined in the area? Yes / No

20) 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									Sizes
Intermediate	7"			X		2189	2189	100 sks	50/50 class A
Production	4 1/2"			X		4819	4819	225 sks	50/50 permix
Tubing									Deposits
Liners									Perforations:
									Top Bottom

21) EXTRACTION RIGHTS

- Check and provide one of the following:
- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
- The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing 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.

23) Required Copies (See reverse side.)

24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: _____
My Commission Expires _____

APR 7 - 1983

Signed: R A Pryce
Its: General Manager

OFFICE USE ONLY
DEPT OF MINES
DRILLING PERMIT

Permit number 47-035-1829 Date April 12 1983
09/08/2023

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. 10) 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.)

Permit expires December 12, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>77</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>962799</u>
-----------------	------------------	--------------------------	----------------------------	--------------------

[Signature]
Administrator, Office of Oil and Gas

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, 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 §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) **The above 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 receipt thereof.

WAIVER

09/08/2023

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

Date: _____, 19_____

By _____

Its _____

LEASE SUMMARY

KEM # 297, 362 & 361

Tract Discription

County: Jackson

District: Ravenswood

Acres: 1085.5

Bounded By: North - West Va Co. & A.A. Pursley
East - West Va Co. & Bowles.
South - Debra Pursley & West Va Co
West - West Va Co & John Pack

Assignment
Lease Parties

Lessor(s): F.C. Hartman et al

D.E. Cole

Lessee: KemGas

Donald F. Black

Recording Information

Book and Page: 178/445

65/339

Royalty Provision

1/8 of prevailing field price



DATE March 28, 1983

WELL NO. KEM #361

State of West Virginia API NO. 47-035-1829

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 [Signature] SCD. All corrections and additions become a part of this plan: Mar 29 1983 (Date)

[Signature]
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Temporary Stream Crossing (A)

Spacing Brick Lined

Page Ref. Manual 2:20

Structure _____ (B)

Spacing _____

Page Ref. Manual _____

Structure _____ (C)

Spacing _____

Page Ref. Manual _____

Structure Diversion Ditch (1)

Material Earthen

Page Ref. Manual 2:12

Structure _____ (2)

Material _____

Page Ref. Manual _____

Structure _____ (3)

Material _____

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

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% Rye 32 lbs/acre

Red Clover 8 lbs/acre

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 Ppost Avenue 09/08/2023

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.

MEADOW



IV-35
(Rev 8-81)

Date January 18, 1984
Operator's Well No. KEM-361
Farm Delbert Cole
API No. 47 - 035 - 1829

RECEIVED
MAY 3 - 1984
State of West Virginia
Department of Mines
OIL & GAS DIVISION
DEPT. OF MINES
WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 634' Watershed Right fork of Sandy Creek
District: Ravenswood County Jackson Quadrangle Liverpool

COMPANY Kaiser Exploration and Mining Company
ADDRESS P. O. Box 8, Ravenswood, WV 26164
DESIGNATED AGENT Robert A. Pryce
ADDRESS P. O. Box 8, Ravenswood, WV 26164
SURFACE OWNER Westvaco Corporation
ADDRESS P. O. Box 4216, Parkersburg, WV 26101
MINERAL RIGHTS OWNER Delbert E. Cole, Hr. et al
ADDRESS Rt. 1, Liverpool, WV
OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty
ADDRESS Linden Rt., Box 3A, Looneyville, WV
PERMIT ISSUED _____
DRILLING COMMENCED 8/1/83
DRILLING COMPLETED 8/4/83

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"		258	150 sks Class. A
9 5/8			
8 5/8			
7		2338	150 sks 50/50 poz-mix, 150 sks Class A
5 1/2			
4 1/2			
3			
2			
Liners used			

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

GEOLOGICAL TARGET FORMATION Berea Sandstone Depth 2350 feet
Depth of completed well 2366 feet Rotary / Cable Tools _____
Water strata depth: Fresh N/A feet; Salt N/A feet Drilled on fluid Not known
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Berea Sandstone Pay zone depth 2285-2291 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow 5 Bbl/d
Final open flow 5 Mcf/d Final open flow 1 Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 375 psig (surface measurement) after _____ hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

JACK. 1829

09/08/2023

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

- 8-8-83 Berea Sandstone Perforation: 2285-2291', 4 holes/ft, 0.41" diameter.
- 8-10-83 Berea Sandstone Fracture: 75% quality foam fracture. Breakdown pressure = 1500 psig. 45,000# of 20/40 sand & 15,000# of 10/20 sand. Treatment pressure = 1800 psig. Fluid rate = 4 BPM. N₂ rate = 6600 scf/min. 254 bbl of sand-laden fluid, 334 bbls total. 504.9 MSCF N₂. ISIP = 1730, 5 min SIP = 1640 psig.

DEPT. OF MINES
OIL & GAS DIVISION

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 Siltstone			0	250	
Sand			250	270	
Shale			270	438	
Sand			438	490	
Shale and Siltstone			490	1002	
Little Dunkard Sand			1002	1110	
Sand and Shale			1110	1185	
Big Dunkard Sand			1185	1478	
Shale			1478	1615	
Salt Sands			1615	1760	
Big Lime (Greenbrier)			1760	1844	
Shale			1844	1866	
Big Injun Sand			1866	1916	
Shale			1916	2272	
Coffee Shale (Sunbury)			2272	2285	
Berea Sand			2285	2294	Show oil
Shale			2294	2366	
TD			2366		

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY

Well Operator

By: KA P 09/08/2023

Date: January 17, 1984

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

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

RECEIVED
AUG 10 1983

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

Permit No. 035-1829

Oil or Gas Well _____
(KIND)

Company Kaiser Exp. + Mining Co.
Address Ravenswood, W.V.A.
Farm Delbert E. Cole Heirs
Well No. Kem 361
District Ravenswood County Jackson
Drilling commenced 8/1/83
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			
16			Kind of Packer _____
13			
10 ^{3/4}		258	Size of _____
8 1/4			
6 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 10 3/4 SIZE 258 No. FT. 8/1/83 Date
NAME OF SERVICE COMPANY Halliburton
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names G. Starchen John Archer Jr. Pushen

Remarks: 8/1/83 Moved on & started Drilling. Ran 258 ft. of 10 3/4" Surface pipe & cemented with 150 Sacks of Class A, 3 7/8 cc. Plug Down 7:00 p.m. by Halliburton 8/4/83 2270 ft. Deep Drilling on fluid.

8/4/83
DATE

Homer H. Dougherty 09/08/2023
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA
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: _____

_____ I hereby certify I visited the above well on this date.
DATE

09/08/2023
DISTRICT WELL INSPECTOR

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

RECEIVED

AUG 10 1983

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

Permit No. 035-1829

Oil or Gas Well _____
(KIND)

Company Kaiser Exp. + Mining Co.
 Address Ravenswood, W.V.A.
 Farm Delbert E. Cole Heirs
 Well No. Kem 361
 District Ravenswood County Jackson
 Drilling commenced 8/1/83
 Drilling completed 8/4/83 Total depth 2366 K.B.
 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			
16			Kind of Packer
13			
10			Size of
8 1/4			
7		2338	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 7" SIZE 2338 No. FT. 8/4/83 Date
 NAME OF SERVICE COMPANY Halliburton
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names G. Starchen Pusher John Archer Jr.

Remarks: Clinic Hunt Rig #4
8/4/83 T.D. of Hole 2366 K.B.
Ran 2338 Ft. of 7" pipe + cemented with 150 Sacks
of 50/50 poz mix & 100 Sacks of Regular 1/2 lb Flocele 3% CO
Plug Down 10:15 p.m. by Halliburton

8/5/83
DATE

Homer H. Dougherty 09/08/2023
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA
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.

09/08/2023
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
FINAL INSPECTION REQUEST
INSPECTOR'S COMPLIANCE REPORT

RECEIVED

DEC 13 1983

OIL & GAS DIVISION
 DEPT. OF MINES

Permit No. 035 1829 County Jackson
 Company Hauser Exploration Farm _____
 Inspector Jmt. Well No. Kem 361
 Date 12 9 83

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification Prior to starting Work	_____	_____
25.04	Prepared before Drilling to prevent waste	_____	_____
25.03	High-Pressure Drilling	_____	_____
16.01	Required Permits at wellsite	_____	_____
15.03	Adequate Fresh Water Casing	_____	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	_____	_____
15.04	Adequate Cement Strength	_____	_____
23.02	Maintained Access Roads	_____	_____
25.01	Necessary Equipment to prevent Waste	✓	_____
23.03	Reclaimed Drilling Site	✓	_____
23.04	Reclaimed Drilling Pits	✓	_____
23.05	No surface or underground Pollution	✓	_____
7.03	Identification Markings	✓	_____

COMMENTS: _____

I have inspected the above well and ~~(HAVE)~~ (HAVE NOT) found it to be in compliance with all of the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia.

SIGNED: Jerry Tephel
 DATE: 12 9 83 09/08/2023



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

WALTER N. MILLER
 DIRECTOR

THEODORE M. STREIT
 ADMINISTRATOR

June 1, 1984

Kaiser Exploration & Mining Co.
 P. O. Box 8
 Ravenswood, W. Va. 26164

In Re: PERMIT NO: 47-035-1829
 FARM: Delbert Cole Hejrs/Westvaco
 WELL NO: KEM 361
 DISTRICT: Ravenswood
 COUNTY: Jackson
 ISSUED: April 12, 1983

Gentlemen:

The FINAL INSPECTION REPORT for the above captioned well has been received in this office. Only the column checked below applies:

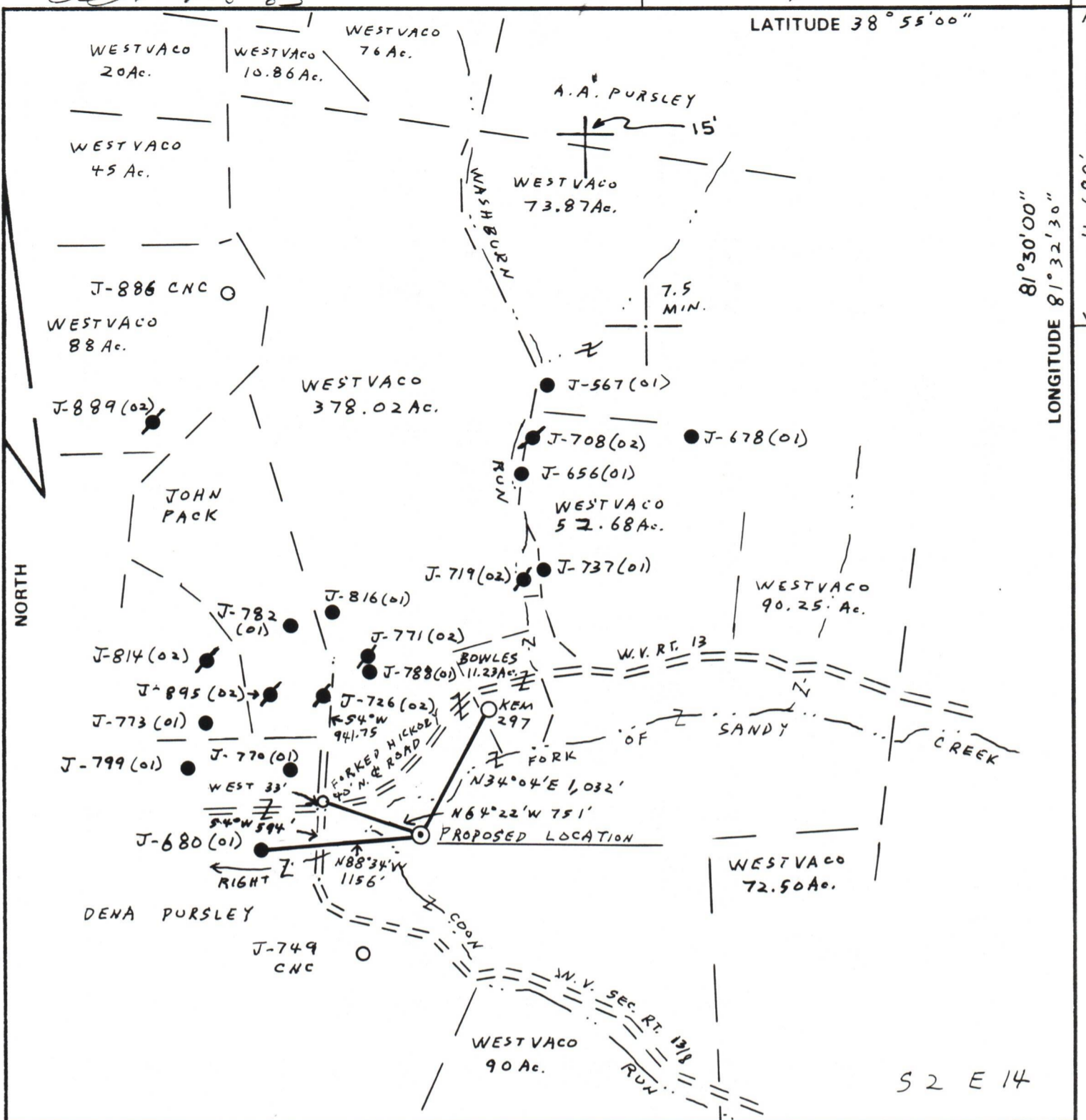
 The well designated by the above permit number has been released under your Blanket Bond.

 Please return the enclosed cancelled single bond which covered the well designated by the above permit number to the surety company who executed said bond in your behalf, in order that they may give you credit on their records.

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

Very truly yours,

Theodore M. Streit, Administrator
 Office of Oil & Gas - Dept. Mines



FILE NO. 5-75
 DRAWING NO. _____
 SCALE 1" = 1,000
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION U.S.G.S. B.M. "R114"
 ELEV. = 643, 900' 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 MARCH 29, 1983
 OPERATOR'S WELL NO. KEM 361
 API WELL NO. _____
47 - 035 - 1829
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 634 WATERSHED RIGHT FORK OF SANDY CREEK
 DISTRICT RAVENS WOOD COUNTY JACKSON
 QUADRANGLE LIVER POOL
 SURFACE OWNER WESTVACO CORP. ACREAGE 378.02
 OIL & GAS ROYALTY OWNER DELBERT E. COLE, HAS, ET AL. LEASE ACREAGE 1.0 09/08/2023
 LEASE NO. 88-01-2862
 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 4819'
 WELL OPERATOR KAISER EXPLOR & MIN. CO. DESIGNATED AGENT KAISER EXPLORATION AND MINING CO.
 ADDRESS P.O. BOX 8 ADDRESS P.O. BOX 8
RAVENS WOOD, W.V. 26164 RAVENS WOOD, W.V. 26164

FORM IV-6 (8-78)

JACK. - 1829