



1) Date: August 26, 19 83
 2) Operator's Well No. KEM #480
 3) API Well No. 47 - 035 - 1901
 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: 908' Watershed: Wolfpen
 District: Ripley County: Jackson Quadrangle: Cottageville
- 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 Homer Dougherty
 Address Box 3A, Linden Rt.
Looneyville, WV
- 9) DRILLING CONTRACTOR: Name Clint Hurt & Associates
 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, 4948 feet
- 13) Approximate strata depths: Fresh, _____ feet; salt, _____ feet.
- 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes / No

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 OIL & GAS DIVISION
 DEPT. OF MINES

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								100 sks XXXX class A	
Intermediate	7			X		2675	2675	65 sks 50/50 pozmix	
Production	4 1/2"			X		4948	4948	225 sks 50/50 pozmix	
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-035-1901 Date September 20, 1983

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 September 20, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: BLANKET BOND	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>965</u> <u>009</u>
---------------------------	---------------------------	--------------------------	----------------------------	-------------------------------

[Signature]
 Administrator, Office of Oil and Gas

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



STATE OF WEST VIRGINIA

OFFICE USE ONLY

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

1) LOCATION: B (If Gas, Production) / Underground storage / Shallow / Deep / Waterflood / Elevation: 2908' / District: Putnam / County: Putnam / Quadrangle: Cotterville

2) WELL OPERATOR: Kaiser Exploration and Mining Co. (V) DESIGNATED AGENT R. A. Prince / Address: P. O. Box 8, Ravenswood, WV 26154

3) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: [blank] / Address: Box 30, Linden, WV

4) DRILLING CONTRACTOR: Name: Clint Hart & Associates / Address: P. O. Box 388, Elkins, WV

5) PROPOSED WELL WORK: Drill / Re-drill / Plug off old formation / Porture new formation / Other physical change in well (specify):

6) GEOLOGICAL TARGET FORMATION: Devonian brown shale / Estimated depth of completed well: 2908' / Approximate true depth: 2908' / Approximate coal seam depth: 2908' / Is coal being mined in the area: Yes

7) CASING AND TUBING PROGRAM: Casing or tubing type: [blank] / Size: [blank] / Weight per ft: [blank] / Grade: [blank] / Length: [blank] / Footage intervals: [blank]

Casing or tubing type	Size	Grade	Weight per ft.	Length	FOOTAGE INTERVALS		Cement fill up for spacers (Cubic feet)	Packers
					For drilling	Left in well		
Production	4 1/2"				2908'	2908'		
Intermediate	7"				2975'	2975'		
Casing	2 3/4"				2908'	2908'		

OFFICE USE ONLY

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

Date	Date(s)
Application received	Follow-up inspection(s)
Well work started	"
Completion of the drilling process	"
Well Record received	"
Reclamation completed	"

OTHER INSPECTIONS

Reason: _____

Reason: _____



09/08/2023



IV-9
(Rev 8-81)

DATE August 22, 1983

WELL NO. KEM #480

State of West Virginia API NO. 47-035-1901

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 Earl Muck 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: Aug 23 1983 (Date)

[Signature]
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Road Culvert (A) Structure None required (1)

Spacing 12" diameter Material _____

Page Ref. Manual 2:7 Page Ref. Manual _____

Structure Drainage Ditch (B) Structure _____ (2)

Spacing Earthen Material _____

Page Ref. Manual 2:12 Page Ref. Manual OIL & GAS DIVISION

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.

OK

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% Rye 32 lbs/acre

Seed* _____ lbs/acre

Red Clover 8 lbs/acre

_____ 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 09/08/2023

ADDRESS 116 Ppost Avenue

Ripley, WV 25271

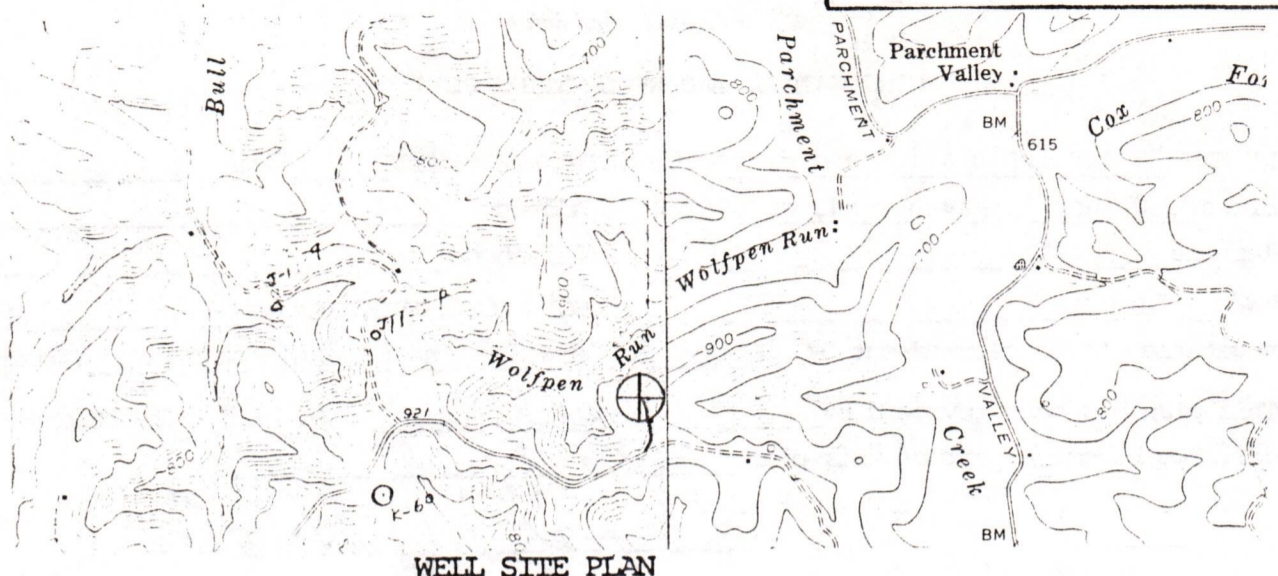
PHONE NO. 372-2709

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

MEADOW

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE COTTAGEVILLE - RIPLEY

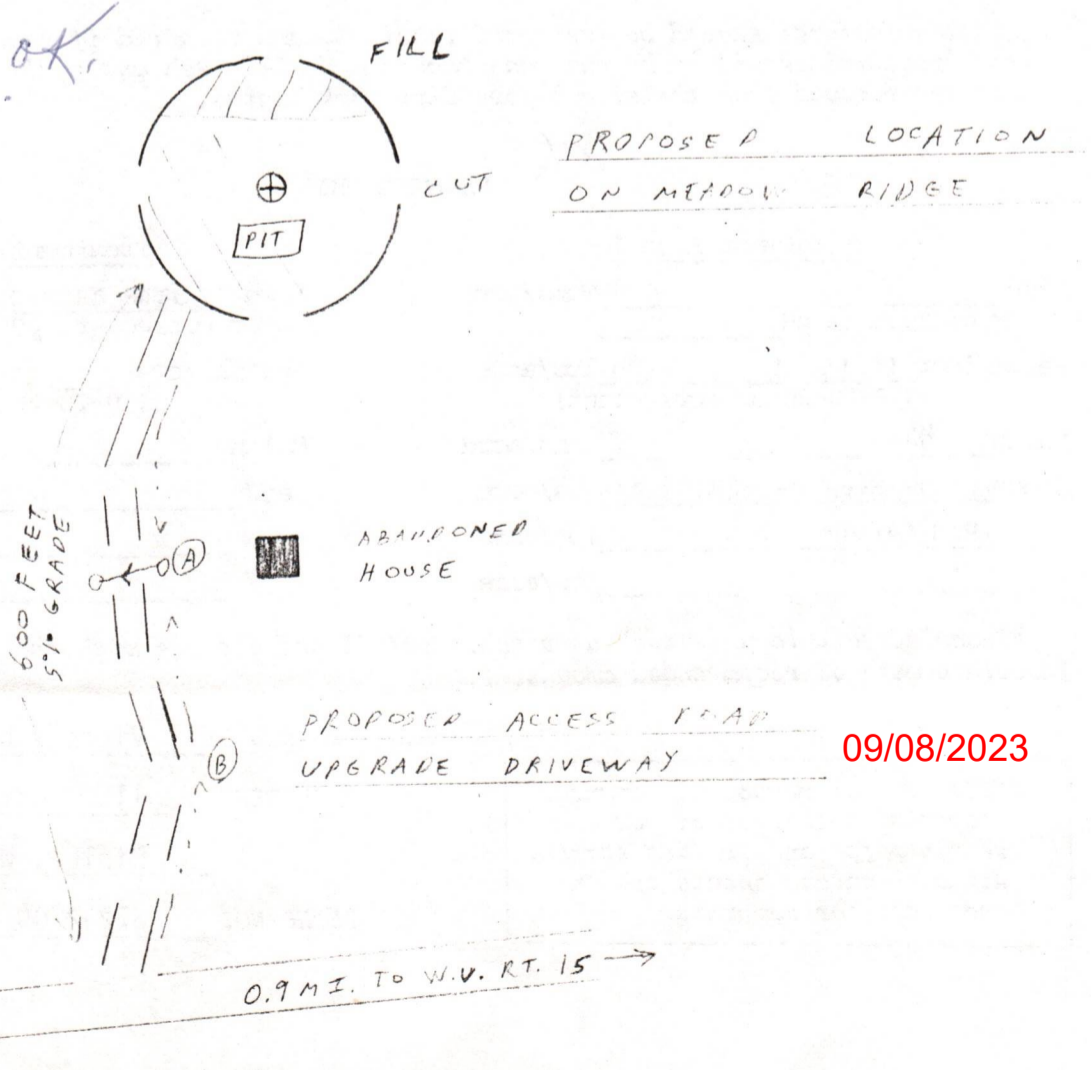
LEGEND	
Well Site	⊕
Access Road	—



WELL SITE PLAN

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



W.V. SEC. RT. 15/6

09/08/2023

1) Date: August 26, 1983
2) Operator's Well No. KEM #480
3) API Well No. 47
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 Hildon E. Muck
Address Rt. 1, Box 256
Liberty, WV 25124

(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.

RECEIVED
SEP 14 1983
OIL & GAS DIVISION
DEPT. OF MINES

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) 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.)

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 30 day of August, 1983.
My commission expires 12/01, 1985.

Faith Ann Holbert
Notary Public, Jackson County,
State of West Virginia

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

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>
Hildon Much	Kaiser Exploration and Mining Company	1/8 of prevailing field price	158/16



1) Date: August 26, 19 83
 2) Operator's Well No. KEM 4430
 3) API Well No. 47 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: 908' Watershed: Wolfpen
 District: Ripley County: Jackson Quadrangle: Cottageville
- 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 Homer Dugherty
 Address Box 3A, Linden Pt. Looneyville, WV
- 9) DRILLING CONTRACTOR: Name Clint Hurt & Associates
 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, 4199 4948 feet
 13) Approximate strata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No _____

RECEIVED
 SEP 14 1983
 OIL & GAS DIVISION
 DEPT. OF MINES

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		
Conductor								Kinds
Fresh water	<u>10 3/4"</u>			<input checked="" type="checkbox"/>		<u>250</u>	<u>250</u>	<u>150 sks class a to surface</u>
Coal								<u>100 sks class A</u>
Intermediate	<u>7"</u>			<input checked="" type="checkbox"/>		<u>2675</u>	<u>2675</u>	<u>65 sks 50/50 pozmix</u>
Production	<u>4 1/2"</u>			<input checked="" type="checkbox"/>		<u>4948</u>	<u>4948</u>	<u>225 sks 50/50 pozmix</u>
Tubing								Perforations:
Liners								Top Bottom

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)

(For execution by natural persons)

NAME: _____
 By _____
 Its _____ Date _____

Earl Umuck Date: 9-12-83
 (Signature)
 _____ Date: _____
 (Signature)

AFFIDAVIT OF PERSONAL SERVICE ON SURFACE OWNER

STATE OF West Virginia,
COUNTY OF Jackson :

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

- (1) Notice on Form IV-2(A) / Form IV-3(A) / Form IV-4(A) /
- (2) Application on Form IV-2(B) / Form IV-3(B) / Form IV-4(B) /
- (3) Plat showing the well location on Form IV-6, and
- (4) Construction and Reclamation Plan on Form IV-9 (unless the application is to plug a well)

--all with respect to operator's Well No. Kem 480 located in Ripley District, Jackson County, West Virginia, upon the person or organization named--

EARL MUCK

--by delivering the same in Putman County, State of West Va. on the 12 day of Sept, 1983 in the manner specified below SEP 14 1983

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[COMPLETE THE APPROPRIATE SECTION]

OIL & GAS DIVISION
DEPT. OF MIN

For an individual:

- [] Handing it to him X / her / or, because he / she / refused to take it when I offered it, by leaving it in his / her / presence.
- [] Handing it to a member of his or her family above the age of 16 years named who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

- [] Handing it to , a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership:

- [] Handing it to the general partner, named , or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

- [] Handing it to the corporation's employee / officer / director / attorney in fact / named .

Stephen W Kelly
(Signature of person executing service)

Taken, subscribed and sworn before me this 13 day of Sept, 1983.
My commission expires Sept 18th 1988.

Earl Neal
Notary Public

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)

09/08/2023

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

BROWN SHALE: Perforated from 4094' to 4313'. Foam frac. Breakdown w/foam at 1700 psig. Treated w/75% quality foam at 2810 psig. Used 60,000#, 20/40 sand at 4-10 ppg. Water rate was 10 bbl/min, N₂ rate was 25 MSCF/min, foam rate was 40 bbl/min, total N₂ was 685 MSCF, total sand laden fluid was 259 bbls, total fluid was 327 bbls. ISIP: 1620 psig, 5 min SIP: 1320 psig.

GRAY SHALE: Perforated from 3570'-3290'. Foam frac. Breakdown w/foam at 2680 psig. Treated 2/75% quality foam at 2541 psig. Used 60,000#, 20/40 sand at 4-10 ppg. H₂O rate was 10 bbl/min, N₂ rate was 25 MSCF/min, foam rate was 40 bbl/min, total N₂ was 685 MSCF, total fluid was 327 bbls. ISIP: 1220 psig, 5 min SIP: 1000 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	150	
Sand			150	250	
Shale			250	354	
Sand			354	392	
Shale and Siltstone			392	772	
Sand			772	802	
Shale and Siltstone			802	1247	
Little Dunkard Sand			1247	1326	
Shale and Siltstone			1326	1411	
Big Dunkard Sand			1411	1506	
Shale			1506	1774	
Salt Sands			1774	1970	
Big Lime (Greenbrier)			1970	2096	
Shale			2096	2139	
Big Injun Sand			2139	2243	
Shale			2243	2568	
Coffee Shale			2568	2594	
Berea Sand			2594	2602	Salt water
Shale			2602	3806	S/g @ 2390,3510
Brown Shale			3806	4316	S/g @ 3935,4102
Shale			4316	4390	
Total Depth			4390		

(Attach separate sheets as necessary)

Kaiser Exploration and Mining Company

Well Operator

By:

[Signature]

09/08/2023

Date: January 16, 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."

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NOV 16 1983

STATE OF WEST VIRGINIA

OIL & GAS DIVISION
DEPT. OF MINES

DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Permit No. 035 1901

Oil or Gas Well _____
(KIND)

Company <u>Keiser Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Muck</u>	16			Kind of Packer _____
Well No. <u>Keiser 480</u>	13			
District _____ County <u>JACKSON</u>	10			Size of _____
Drilling commenced <u>11 983</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 _____ 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: _____

11 983 moving Rig Today ON TO Location

11 983
DATE

[Signature] 09/08/2023

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

RECEIVED
NOV 16 1983

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 035 1901

Oil or Gas Well _____
(KIND)

Company <u>Kaiser Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>meck</u>	16			Kind of Packer _____
Well No. <u>Kem 480</u>	13			
District _____ County <u>Jackson</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 3/8			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 _____

Remarks: 11 983 13 1/4" Hole TD 288' at 4:00 pm, RAN LOGS 10 3/4" CSG
Set at 260.75 kb, Cement Halliburton 175SKS
Class A plug Down 7:30 pm 11983

11 10 83
DATE

[Signature] 09/08/2023
DISTRICT WELL INSPECTOR



RECEIVED
JUN 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
February 8, 1984

COMPANY Kaiser Exploration & Mining Co. PERMIT NO 035-1901 (9-20-83)
P. O. Box 8 FARM & WELL NO Earl Muck, KEM #480
Ravenswood, West Virginia 26164 DIST. & COUNTY Ripley/Jackson*

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 Strenght	_____	_____
15.05	Cement Type	_____	_____
23.02	Maintained Access Roads	_____	_____
25.01	Necessary Equipment to Prevent Waste	_____	_____
23.04	Reclaimed Drilling Pits	_____	_____
23.05	No Surface or Underground Pollution	_____	_____
23.07	Requirements for Production & Gathering Pipelines	_____	_____
16.01	Well Records on Site	_____	_____
16.02	Well Records Filed	_____	_____
7.05	Identification Markings	_____	_____

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

SIGNED *Jerry Tephahok*
DATE 6 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. ...
Administrator-Oil & Gas Division

July 18, 1984

DATE

9-15-83

LATITUDE 38°47'30"

200'

PARSONS

ELLIOTT

LONGITUDE 81°45'00"

10,300'

NORTH

LATHEY

P. BOGGESS

PARSONS

MILLER

WOLFPEN ... RUN

PINNELL

W.V. SEC. RT. 15/6

J-1045 (17)

512 E4

FILE NO. 6-55
 DRAWING NO. _____
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION INTER. W.V. RT. 15 AND W.V. RT. 30/6; 2490' 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.I.S. 664

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE AUGUST 19, 19 83
 OPERATOR'S WELL NO. KEM 480
 API WELL NO. 47-035-1901
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW X
 LOCATION: ELEVATION 908' WATER SHED WOLFPEN RUN
 DISTRICT RIPLEY COUNTY JACKSON
 QUADRANGLE COTTAGEVILLE
 SURFACE OWNER EARL MUCK, ET AL. ACREAGE 102.5
 OIL & GAS ROYALTY OWNER EARL MUCK, ET AL. LEASE ACREAGE 102.5 09/08/2023
 LEASE NO. 83-10-930
 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 4948'
 WELL OPERATOR KAISER EXPL. AND MIN. CO. DESIGNATED AGENT KAISER EXPLORATION AND MINING CO.
 ADDRESS P.O. BOX B ADDRESS P.O. BOX B
RAVENSWOOD, WV. 26164 RAVENSWOOD, WV. 26164

JACK 1901