



Date: July 22, 1982

Operator's Well No. KEM #245

API Well No. 47 035 1743

State County Permit

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

WELL TYPE: Oil / Gas X  
(If "Gas", Production X / Underground storage / Deep X / Shallow /)

LOCATION: Elevation: 852' Watershed: Grass Lick Run  
District: Ripley County: Jackson Quadrangle: Kenna

WELL OPERATOR Kaiser Exploration and Mining Co. DESIGNATED AGENT R. A. Pryce  
Address P. O. Box 8 Ravenswood, WV 26164

OIL & GAS ROYALTY OWNER Mary L. Johnson  
Address Rt. 3, Box 54 Ripley, WV 25271  
Acreage 8.796

COAL OPERATOR None  
Address

SURFACE OWNER Same  
Address  
Acreage

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Same  
Address **RECEIVED**  
Name JUL 26 1982  
Address OIL AND GAS DIVISION WV DEPARTMENT OF MINES

FIELD SALE (IF MADE) TO:  
Address

COAL LESSEE WITH DECLARATION ON RECORD:  
Name  
Address

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Richard Morris  
Address P. O. Box 372 Grantsville, WV

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease X other contract / dated June 23, 1982, to the undersigned well operator from Mary L. Johnson widow (IF said deed, lease, or other contract has been recorded:)

Recorded on July 8, 1982, in the office of the Clerk of the County Commission of Jackson County, West Va., in Lease Book 172 at page 188. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper / Redrill / Fracture or stimulate / Plug off old formation / Perforate new formation / Other physical change in well (specify) —planned as shown on the work order on the reverse side hereof.

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.

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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

09/08/2023

KAISER EXPLORATION AND MINING COMPANY  
Well Operator  
By R.A.P.  
Its General Manager

BLANKET BOND



THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Clint Hurt & Associates, Inc.

Address P. O. Box 388

Elkview, WV 25071

GEOLOGICAL TARGET FORMATION, Oriskany

Estimated depth of completed well, 4947' feet Rotary X / Cable tools        /

Approximate water strata depths: Fresh,        feet; salt,        feet.

Approximate coal seam depths:        Is coal being mined in the area? Yes        / No X /

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					250'	250'	150 sks class A	(to surface)
Coal									Sizes
Intermediate	7"					2437'	2437'	65 sks 50/50 Pozmix 100 sks class A	
Production	4 1/2"					4947'	4947'	225 sks 50/50 Pozmix	set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: 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.

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.

**THIS PERMIT MUST BE POSTED AT THE WELL SITE.**  
**ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,**  
**ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY**  
**APPROVED FOR** drilling **THIS PERMIT SHALL EXPIRE**  
**IF OPERATIONS HAVE NOT COMMENCED BY** 3-29-83  
**BY** [Signature]

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

The undersigned coal operator        / owner        / lessee        / of the coal under this well located 09/08/2023 and 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       

09/08/2023



AS



IV-9  
(Rev 8-81)

DATE July 16, 1982

WELL NO. KEM 245

State of West Virginia

API NO. 47-035-1743-PP

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 Mary Johnson 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: \_\_\_\_\_

July 16, 1982  
(Date)  
Wayne W. Hughes  
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Existing low water crossing (A)

Structure Diverson Ditch (1)

Spacing \_\_\_\_\_

Material \_\_\_\_\_

Page Ref. Manual 2 - 20

Page Ref. Manual 2 - 12

Structure Drainage Ditch (B)

Structure \_\_\_\_\_ (2)

Spacing \_\_\_\_\_

Material \_\_\_\_\_

Page Ref. Manual 2 - 12

Page Ref. Manual \_\_\_\_\_

Structure Cross Drain (C)

Structure \_\_\_\_\_ (3)

Spacing 80'; 250'

Material \_\_\_\_\_

Page Ref. Manual 2 - 4

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

Lime Same as Area I Tons/acre

or correct to pH \_\_\_\_\_

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 seedling for one growing season. Attach separate sheets as necessary for comments.

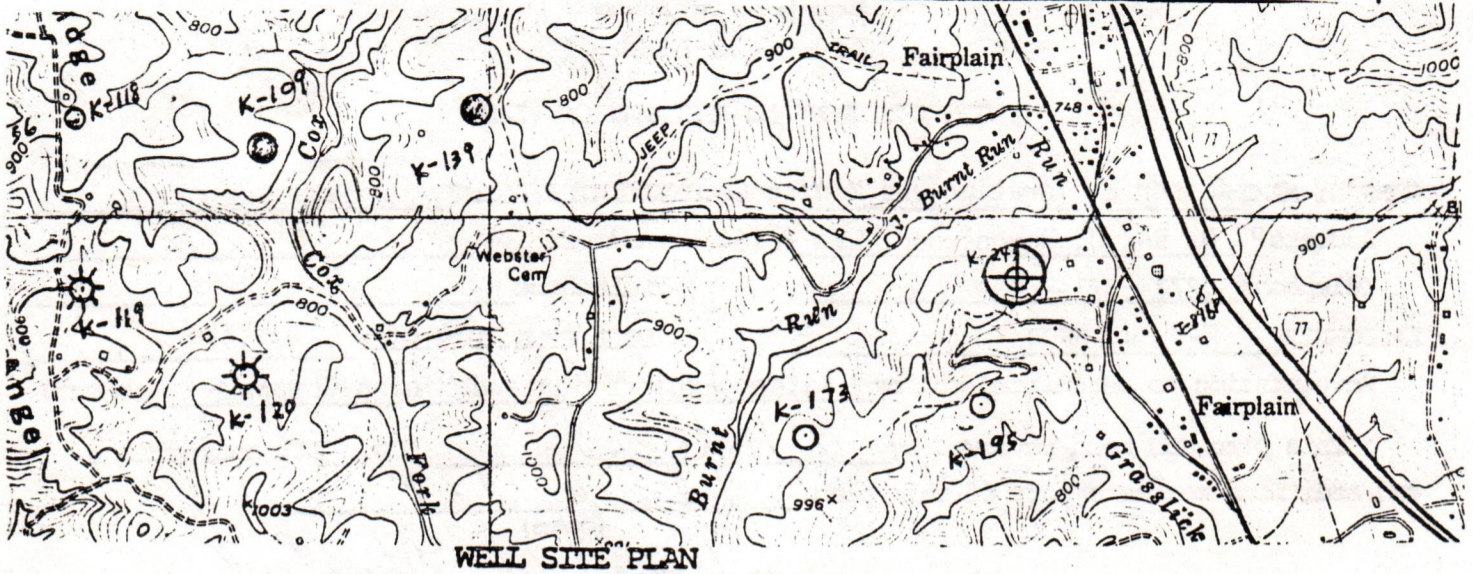


ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE KENNA

**LEGEND**

Well Site ⊕

Access Road ———

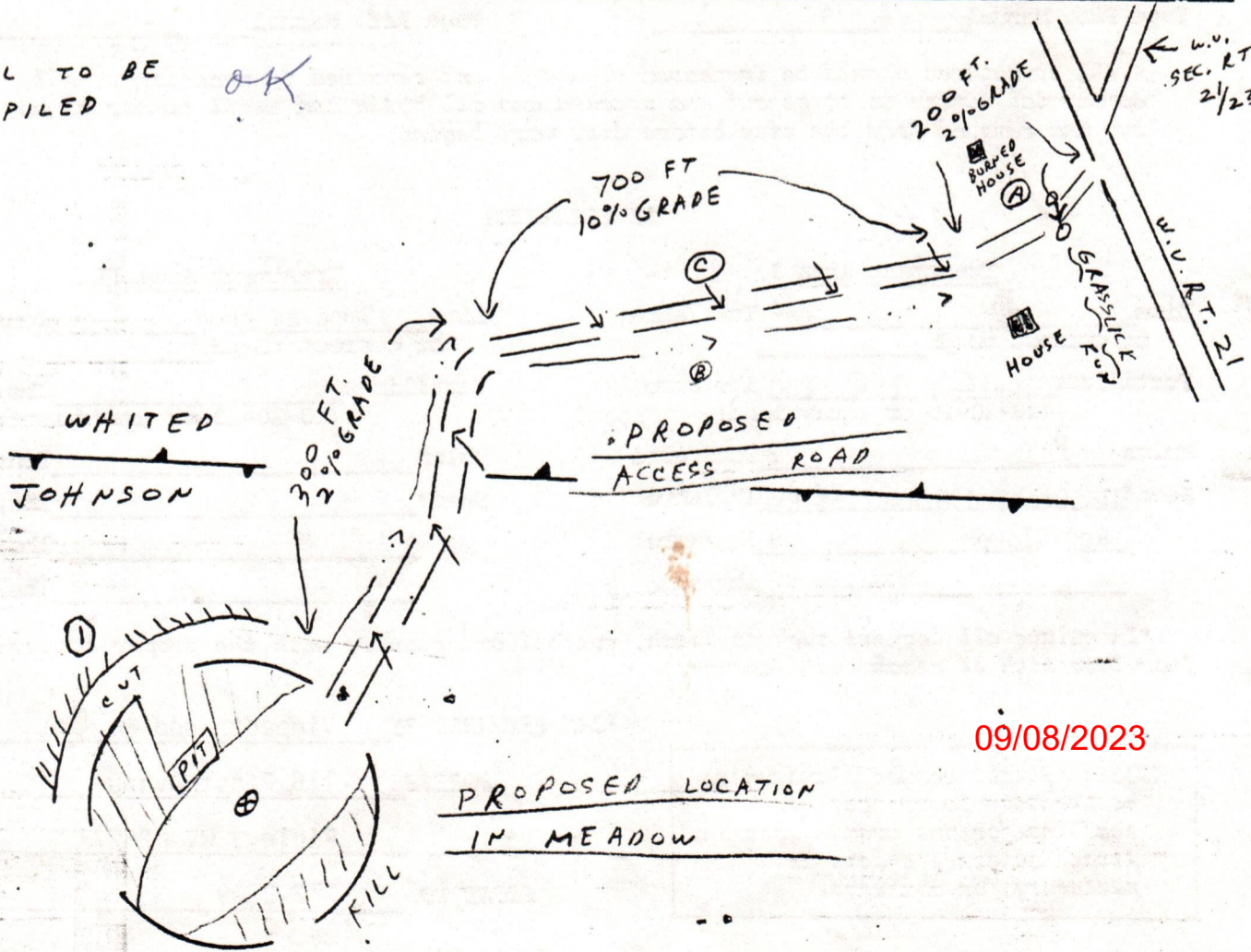


Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

**LEGEND**

Property boundary ————	Diversion ————
Road = = = = =	Spring ○ →
Existing fence — x — x —	Wet spot ♂
Planned fence — / — / —	Building ■
Stream ~ ~ ~ ~ ~	Drain pipe — ○ — ○ —
Open ditch — ···· — ···· —	Waterway ⊂ = = = =

TOPSOIL TO BE STOCK PILED





A10



STATE OF WEST VIRGINIA  
OIL AND GAS CONSERVATION COMMISSION  
CHARLESTON 25305

July 29, 1982

Mr. Thomas E. Huzzey, Administrator  
Department of Mines  
Office of Oil and Gas

RE: APPLICATION FOR PERMIT #47-035 - 1743 TO DRILL DEEP WELL

COMPANY: KAISER EXPLORATION & MINING COMPANY

FARM: MARY L. JOHNSON

COUNTY: JACKSON DISTRICT: RIPLEY

The application of the above company is APPROVED FOR ORISKANY COMPLETION  
(APPROVED - DISAPPROVED)

Applicant HAS complied with the provisions of Chapter twenty-two, Article  
HAS - HAS NOT  
four-a, (§22-4A), of the Code of West Virginia, nineteen hundred and thirty-one (1931)  
as amended, Oil and Gas Conservation Commission, as follows:

1. *Provided a certified copy of duly acknowledged and recorded consent and easement from all surface owners; Yes*
2. *Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of the deep well, well name, and the name and address of the operator, and, \*\**
3. *Provided a plat showing that the proposed location is a distance of 403 feet from the nearest unit boundary and showing the following wells drilling to or capable of producing from the objective formation within 3000 feet of the proposed location: See \*\**

\*\*

- 035-1560 - 5300'
- 035-1664 - 4750'
- 035-0896 - P&A
- 035-0271 - 5000' P&A
- 035-1650 - 4100'
- 035-1064 - 2500' P&A
- 035-1117 - 3550'
- 035-0396 - 2000' P&A
- 035-0425 - 3200' P&A

Very truly yours,

Thomas E. Huzzey  
Commissioner

09/08/2023



IV-35  
(Rev 8-81)

NOV 1 1982  
OIL & GAS DIVISION  
DEPT. OF MINES



State of West Virginia

Department of Mines  
Oil and Gas Division

Date October 29, 1982  
Operator's  
Well No. KEM #245  
Farm Mary Johnson  
API No. 47 - 035 - 1743 - PP

See Back

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 X / Shallow \_\_\_ /)

LOCATION: Elevation: 852' Watershed Grasslick Run  
District: Ripley County Jackson Quadrangle Kenna

COMPANY Kaiser Exploration and Mining Company

ADDRESS P. O. Box 8, Ravenswood, WV 26164

DESIGNATED AGENT R. A. Pryce

ADDRESS P. O. Box 8, Ravenswood, WV 26164

SURFACE OWNER Mary L. Johnson

ADDRESS Rt. 3, Box 54, Ripley, WV 25271

MINERAL RIGHTS OWNER Same

ADDRESS \_\_\_\_\_

OIL AND GAS INSPECTOR FOR THIS WORK Richard

Morris ADDRESS P. O. Box 372, Grantsville, WV

PERMIT ISSUED \_\_\_\_\_

DRILLING COMMENCED 8/9/82

DRILLING COMPLETED 8/16/82

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.			
13-10"		255	100 sks
9 5/8			
8 5/8			
7		2434	165 sks
5 1/2			
4 1/2		5222	225 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Sandstone Depth 5083 feet

Depth of completed well 5359 feet Rotary X / Cable Tools \_\_\_\_\_

Water strata depth: Fresh \_\_\_\_\_ feet; Salt \_\_\_\_\_ feet

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

OPEN FLOW DATA

Producing formation Oriskany Sandstone Pay zone depth 5152-5205 feet

Gas: Initial open flow 51 Mcf/d Oil: Initial open flow -- Bbl/d

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

Time of open flow between initial and final tests \_\_\_\_\_ hours

Static rock pressure 1000 psig (surface measurement) after \_\_\_\_\_ hours shut in

(If applicable due to multiple completion--)

Second producing formation Devonian Brown Shale Pay zone depth 4101-4357 feet

Gas: Initial open flow N/A Mcf/d Oil: Initial open flow -- Bbl/d

Final open flow 127 Mcf/d Oil: Final open flow -- Bbl/d

Time of open flow between initial and final tests -- hours

Static rock pressure 760 psig (surface measurement) after \_\_\_\_\_ hours shut in

(Continue on reverse side)

JACK-1743



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

8/19/82<sup>83</sup> Oriskany: Perforated from 5152-5162', 5174-5179, 5204-5205' with 57 holes, 0.50" diameter.

5/23/82<sup>83</sup> Oriskany: Fracture crosslink type

10/22/82 Devonian Brown Shale: Set 3.71" O.D. permanent bridge plug in 4 1/2" @ 4410' (KB); perforated at 4101-4357', shot selectively, 22 holes, 0.39" diameter.

10/26/82 Devonian Brown Shale: Fractured with 90,000# Of 20/40 sand; average rate: 12 BBL/min; average pressure: 2750 psig; ISIP: 1200 psig; total nitrogen 1,200,000 SCF; total water 486 bbl.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sandstone & Shale			0	1160	
Sandstone			1160	1270	
Sandstone & Shale			1270	1724	
Limestone			1724	2035	
Sandstone & Shale			2035	2179	
Shale			2179	2528	
Coffee Shale			2528	2550	
Berea Sandstone			2550	2561	S/g @ 2555
Shale			2561	3799	S/g @ 3712
Brown Shale			3799	4360	S/g @ 3936, 4162, 4178
Shale			4360	4735	S/g @ 4500
Marcellus			4735	5036	
Onondaga Limestone			5036	5083	
Oriskany Sandstone			5083	5182	S/g @ 5144, 5164
Helderberg			5182	5259 TD	S/g @ 5194

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY

Well Operator

By: R.A.P.

09/08/2023

Date: October 29, 1982

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 26 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 35-1743

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>Kaiser Eng &amp; Mining</u>	Size			
Address _____	16			Kind of Packer _____
Farm <u>Johnson</u>	13			
Well No. <u>245</u>	10			Size of _____
District <u>Ripley</u> County <u>Jackson</u>	8 1/4			
Drilling commenced _____	6 3/8			Depth set _____
Drilling completed <u>8-16-82</u> Total depth <u>6260</u>	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used _____			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.				
Oil _____ bbls., 1st 24 hrs.				
Fresh water _____ feet _____ feet				
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 Hunt #4

Remarks: \_\_\_\_\_

8-16-82

09/08/2023  
Des Moore











(REVISED)

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

- 8/9/83: Young's Wireline set Baker retrievable bridge plug at 2600', perforated Berea at 2554-2564', 24 holes, .39" diameter.
- 8/10/83: Halliburton, BJ Hughes foam fraced Berea: 500 gal, 15% Hcl; 1800 psig breakdown; 2500 psig treat; 60,000# 20/40 sand; 658,000 SCF of nitrogen; 343 bbl fluid; 17 BPM rate; 2020 psig ISIP.
- 10/4/83: Recovered Baker retrievable bridge plug.
- 10/5/83: Ran 4354' (KB) 2 3/8" tubing w/Halliburton R-4 packer set at 2624' (KB). Berea, Brown Shale isolated and producing seperately.

**WELL LOG**

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
SAME AS PREVIOUSLY SUBMITTED			

*(Attach separate sheets as necessary)*

KAISER EXPLORATION AND MINING COMPANY

Well Operator

By: R. A. P.

09/08/2023

Date: January 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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AUG 18 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 38-1743

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company K. E. M.

Address \_\_\_\_\_

Farm M. L. Johnson

Well No. 245

District Ripley County Jackson

Drilling commenced \_\_\_\_\_

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			
<del>18</del> <u>10 3/4</u>	<u>292</u>	<u>292</u>	<u>Halib</u>
<del>18</del> <u>7</u>	<u>2434</u>	<u>2434</u>	<u>Halib.</u>
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ D.

NAME OF SERVICE COMPANY \_\_\_\_\_

COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCH

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCH

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCH

Drillers' Names Hunt #4

Remarks: Cemented 2434' of 7" by Halib. on 8-13-82

8-13-82

09/08/2023  
W. Grace







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

RECEIVED

SEP 6 - 1983

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 035-1743

Oil or Gas Well Gas  
(KIND)

Company <u>Kaiser Exp. + Mining Co.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Ravenswood, WVA</u>	Size			
Farm <u>Mary L. Johnson</u>	16			Kind of Packer
Well No. <u>Kem 245</u>	13			
District <u>Ripley</u> 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 Status Report

Remarks: 8/30/83 Well in production + Identified Location Reclaimed, But Disturbed again Due to Service work Can Not be Released

8/30/83  
DATE

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







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

**RECEIVED**  
APR 16 1984

**INSPECTOR'S WELL REPORT**

OIL & GAS DIVISION  
**DEPT. OF MINES**

Permit No. 035 1743 - PP

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>Kaiser Exploration</u>	<b>CASING AND TUBING</b>	<b>USED IN DRILLING</b>	<b>LEFT IN WELL</b>	<b>PACKERS</b>
Address _____	Size			
Farm <u>Johnson</u>	16			Kind of Packer _____
Well No. <u>4 Kem 245</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 \_\_\_\_\_

Remarks:

Needs Number, Road and location needs work additional water bars, reseeded.

4 9 84  
DATE

*James T. ...*  
**09/08/2023**







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

RECEIVED  
JUL 25 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION  
DEPT. OF MINES  
Oil or Gas Well \_\_\_\_\_  
(KIND)

Permit No. 035 1743 - PP

Company <u>Kaiser Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Johnson</u>	16			Kind of Packer _____
Well No. <u>Kem 245</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 \_\_\_\_\_

Remarks: \_\_\_\_\_

needs small area reseeded cannot release.

7 21 84  
DATE

*[Signature]*  
09/08/2023







B10

FORM IV (KB)  
Obverse  
8-83

RECEIVED  
JAN 26 1984



1) Date: January 17, 19 83  
2) Operator's Well No. KEM #245  
3) API Well No. 47 - 035 - 1743 - PP  
State County Permit

OIL & GAS DIVISION STATE OF WEST VIRGINIA  
DEPT. OF MINES OFFICE OF OIL AND GAS, DEPARTMENT OF MINES PARTIAL

APPLICATION FOR A PERMIT TO PLUG AND ABANDON A WELL

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas X / Liquid injection \_\_\_\_\_ / Waste disposal \_\_\_\_\_  
B (If "Gas", Production X / Underground storage) \_\_\_\_\_ / Deep \_\_\_\_\_ Shallow X /)
- 5) LOCATION: Elevation: 852' Watershed: Grasslick Run  
District: Ripley 3 County: Jackson Quadrangle: Kenna 415
- 6) WELL OPERATOR KEMGAS  
Address P. O. Box 8  
Ravenswood, WV 26164
- 7) DESIGNATED AGENT R. A. Pryce  
Address Same
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Jerry Tephabock  
Address Rt. 1, Box 101A  
Ripley, WV 25271
- 9) PLUGGING CONTRACTOR  
Name Basin Surveys  
Address P. O. Box  
Charleston, WV

10) WORK ORDER: The work order for the manner of plugging this well is as follows:

10/22/83: Basin Surveys set 3.71" OD permanent bridge plug in 4 1/2" casing at 4410' (KB) to isolate sandstone from Brown Shale interval. PBSD: 4410' (KB)

VERBAL PERMISSION 7-11-83

OFFICE USE ONLY

PLUGGING PERMIT Verbal - 10/22/83

Permit number 47-035-1743-PP

February 2, 19 84  
Date

This permit covering the well operator and well location shown below is evidence of permission granted to plug 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 24 hours before actual permitted work has commenced.**

The permitted work is as described in the Notice and Application, plat, subject to any modifications and conditions on the reverse hereof.

Permit expires February 2, 1986 unless plugging is commenced prior to that date and prosecuted with due diligence.

Bond: <b>BLANKET</b>	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <b>NA</b>
-------------------------	------------------------------	-----------------------------	-------------------------------	-------------------

Michael Lewis  
Administrator, Office of Oil and Gas

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

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

09/08/2023



OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED PLUGGING

DEPT. OF MINES

1) WELL TYPE: A. Oil \_\_\_\_\_ B. BT Gas Production \_\_\_\_\_  
 2) LOCATION: Elevation \_\_\_\_\_ District \_\_\_\_\_  
 3) WELL OPERATOR: Name \_\_\_\_\_ Address \_\_\_\_\_  
 4) PLUGGING CONTRACTOR: Name \_\_\_\_\_ Address \_\_\_\_\_  
 5) DESIGNATED AGENT: Name \_\_\_\_\_ Address \_\_\_\_\_  
 6) PLUGGING PERMIT: \_\_\_\_\_

OFFICE USE ONLY

This part of Form IV-4(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Follow-up inspection(s)	Date(s)
Application received			
Plugging started		“ “	
Plugging completed		“ “	
Well Record received		“ “	

OTHER INSPECTIONS

Reason: \_\_\_\_\_

Reason: \_\_\_\_\_

*[Signature]*  
 Administrator, Office of Oil and Gas



File



RECEIVED

JAN 26 1984



1) Date: January 17 19 84

2) Operator's

Well No. KEM #245

3) API Well No. 47 - 035 - 1743 - PP  
State County Permit

OIL & GAS DIVISION  
DEPT. OF MINES

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS, DEPARTMENT OF MINES  
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

PARTIAL

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

5 (i) COAL OPERATOR None

Address

(i) Name Mary Johnson  
Address Rt. 3, Box 54  
Ripley, WV 25271

5 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD:

Name None

Address

(ii) Name  
Address

Name

Address

(iii) 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 to Plug and Abandon a Well on Form IV-4(B), which sets out the parties involved in the work, and describes the well and its location and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form IV-6.

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-4(B)) 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 Permit to plug and abandon a well with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to the well at the location described on the attached Application and depicted on the attached Form IV-6. Copies of this Notice, the Application, and the plat 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.

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

WELL

OPERATOR Kaiser Exploration and Mining Co

By [Signature]  
Its General Manager

this 17 day of January, 19 84.  
My commission expires 8/30, 19 93.

Address P. O. Box 8  
Ravenswood, WV 26164

Telephone 304-273-5371

[Signature]  
Notary Public, Jackson County,  
State of West Virginia



RECEIVED  
JAN 2 1981  
OFFICE OF OIL & GAS  
DEPT. OF MINES

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 § 22-4-1m(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.

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and two copies of the Application must be filed with the Administrator, accompanied by (i) an original and four copies of the Notice, (ii) an original and four copies of a plat in the form prescribed by Regulation 11, and (iii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-9.

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 and 22-4-9.







INSPECTOR'S PERMIT SUMMARY FORM

*Should be PP*

WELL TYPE \_\_\_\_\_  
ELEVATION \_\_\_\_\_  
DISTRICT \_\_\_\_\_  
QUADRANGLE \_\_\_\_\_  
COUNTY Jackson

API# 47- 035 - 1743 <sup>(A)</sup>  
OPERATOR Kaiser Exploration  
TELEPHONE \_\_\_\_\_  
FARM Johnson  
WELL # Ham 245

SURFACE OWNER \_\_\_\_\_ COMMENTS \_\_\_\_\_ TELEPHONE \_\_\_\_\_

TARGET FORMATION \_\_\_\_\_ DATE APPLICATION RECEIVED \_\_\_\_\_

DATE STARTED \_\_\_\_\_  
LOCATION \_\_\_\_\_ NOTIFIED \_\_\_\_\_ DRILLING COMMENCED \_\_\_\_\_

WATER DEPTHS \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

COAL DEPTHS \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

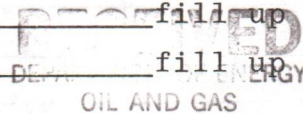
CASING

Ran \_\_\_\_\_ feet of \_\_\_\_\_ "pipe on \_\_\_\_\_ with \_\_\_\_\_ fill up

Ran \_\_\_\_\_ feet of \_\_\_\_\_ "pipe on \_\_\_\_\_ with \_\_\_\_\_ fill up

Ran \_\_\_\_\_ feet of \_\_\_\_\_ "pipe on \_\_\_\_\_ with \_\_\_\_\_ fill up

Ran \_\_\_\_\_ feet of \_\_\_\_\_ "pipe on \_\_\_\_\_ with \_\_\_\_\_ fill up



TD \_\_\_\_\_ feet on \_\_\_\_\_

PLUGGING

MAR 14 1986

Type	From	To	Pipe Removed

Pit Discharge date: \_\_\_\_\_ Type \_\_\_\_\_

Field analysis ph \_\_\_\_\_ fe \_\_\_\_\_ cl \_\_\_\_\_

Well Record received \_\_\_\_\_

Date Released 3 12 86

*James Tephart*  
Inspector's signature 09/08/2023



API# 47 \_\_\_\_\_ - \_\_\_\_\_

LIST ALL VISITS FOR THIS PERMIT

	DATE	TIME	PURPOSE	COMMENTS
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Notes



V-20  
Reverse  
2-84  
B11



RECEIVED  
AUG - 1 1984

State of West Virginia  
Department of Mines  
Oil and Gas Division  
Charleston 25305  
FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT  
April 25, 1984

OIL & GAS DIVISION  
DEPT. OF MINES

COMPANY Kaiser Exploration & Mining Co.  
P. O. Box 8  
Ravenswood, West Virginia 26164

PERMIT NO 035-1743  
FARM & WELL NO M. Johnson, KEM #245  
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 Strength	_____	_____
15.05	Cement Type	_____	_____
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	_____X	_____

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

SIGNED Jerry R. Tephah  
DATE 7 24 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. R. B.  
Administrator-Oil & Gas Division  
August 2, 1984  
DATE \_\_\_\_\_

TMS/chm

TMS/

09/08/2023



1.0 API well number. (If not available, leave blank. 14 digits.)	47-035-1743			
2.0 Type of determination being sought (Use the codes found on the front of this form.)	107 Section of NGPA	3 <del>N/A</del> Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4357 feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Kaiser Exploration and Mining Co. Name		Seller Code	
	P. O. Box 8 Street			
	Ravenswood, City	WV State	26164 Zip Code	
5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	Elk/Poca Field Name			
	Jackson County		WV State	
(b) For OCS wells:	N/A Area Name		Block Number	
	Date of Lease: Mo. Day Yr.		OCS Lease Number	
(c) Name and identification number of this well: (35 letters and digits maximum.)	Mary Johnson KEM #245			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	N/A			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Kaiser Aluminum & Chemical Corporation Name		Buyer Code	
(b) Date of the contract:	Not yet executed Mo. Day Yr.			
(c) Estimated annual production:	18 MMcf			
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
8.0 Maximum lawful rate (As of filing date. Complete to 3 decimal places.)	DEREGULATED			
9.0 Person responsible for this application	Robert A. Pryce Name		General Manager Title	
Agency Use Only	Signature			
Date Received by Juris. Agency	November 3, 1982 Date Application is Completed			
Date Received by FERC	273-5371 (304) Phone Number		09/08/2023	



U.S. DEPARTMENT OF ENERGY  
Federal Energy Regulatory Commission  
Washington, D.C. 20426

**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)**  
(Sections 102, 103, 107 and 108)

**PLEASE READ BEFORE COMPLETING THIS FORM:**

General Instructions:

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA. A separate application is required for each well. If any reservoir qualifies for a category which differs from the category applicable to the producing well, separate applications must be made for the producing well and the reservoir. Complete each appropriate item on the reverse side of this page. The code numbers used in items 4.0 and 6.0 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Enter any additional remarks in the space below.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 270.103. If there are any questions, call (202) 275-4539.

Specific Instructions for Item 2.0, Type of Determination:

<u>Section of NGPA</u>	<u>Category Code</u>	<u>Description</u>
102	1	New OCS Lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1,000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS Lease
103	-	New onshore production well
107	-	High cost natural gas
108	-	Stripper well

Other Purchasers/Contracts:

<u>Contract Date</u> (Mo. Day Yr.)	<u>Purchaser</u>	<u>Buyer Code</u>
	N/A	
_____	_____	_____
_____	_____	_____
_____	_____	_____

Remarks:

SBPTA VOW



PARTICIPANTS:

DATE: MAR 10 1983

BUYER-SELLER CODE

WELL OPERATOR: Kaiser Exploration and Mining Co.

FIRST PURCHASER: Kaiser Aluminum & Chemical Corp.

OTHER: \_\_\_\_\_

W. Va. Department of Mines, Oil & Gas Division  
 WELL DETERMINATION FILE NUMBER  
821104-107-035-1743  
 Use Above File Number on all Communications  
 Relating to Determination of this Well

QUALIFIED

~~DEFERRED~~  
~~Permit~~  
~~Worksheet~~  
~~Log~~  
~~Completion~~  
~~Water~~  
~~Gas~~

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121  Items not completed - Line No. A117.0 + 8.0
- 2. IV-1 Agent R.A. Pryce
- 3. IV-2 Well Permit \_\_\_\_\_
- 4. IV-6 Well Plat
- 5. IV-35 Well Record  Drilling  Deepening
- 6. IV-36 Gas-Oil Test: Gas Only  Was Oil Produced?  Ratio
- 7. IV-39 Annual Production  years
- 8. IV-40 90 day Production  Days off line:
- 9. IV-48 Application for certification. Complete?
- 10-17. IV Form 51 - 52 - 53 - 54 - (55) - 56 - 57 - 58 Complete?  Affidavit Signed
- 18-28. Other: Survey \_\_\_\_\_ Logs \_\_\_\_\_ Geological Charts \_\_\_\_\_  
 Structure Map \_\_\_\_\_ 1: 4000 Map \_\_\_\_\_ Well Tabulations \_\_\_\_\_  
 Gas Analyses \_\_\_\_\_
- (5) Date commenced: 8-9-82 Date completed 8-16-82 Deepened
- (5) Production Depth: 5152-5205, 4101-4357
- (5) Production Formation: Oriskany Sandstone Devonian Brown Shale
- (5) Final Open Flow: 127 ucf
- (5) After Frac. R. P. 760 #
- (6) Other Gas Test: \_\_\_\_\_
- (7) Avg. Daily Gas from Annual Production: \_\_\_\_\_
- (8) Avg. Daily Gas from 90-day ending w/1-120 days \_\_\_\_\_
- (8) Line Pressure: \_\_\_\_\_ PSIG from Daily Re
- (5) Oil Production: \_\_\_\_\_ From Completion Report \_\_\_\_\_
- 10-17. Does lease inventory indicate enhanced recovery being done No
- 10-17. Is affidavit signed?  Notarized?
- Does official well record with the Department confirm the submitted information? yes
- Additional information \_\_\_\_\_ Does computer program confirm? \_\_\_\_\_
- Was Determination Objected to \_\_\_\_\_ By Whom? \_\_\_\_\_

09/08/2023

7B



STATE APPLICATION FOR WELL CLASSIFICATION

WELL OPERATOR Kaiser Exploration and Mining Co. DESIGNATED AGENT R. A. Pryce

ADDRESS P. O. Box 8 ADDRESS P. O. Box 8  
Ravenswood, WV 26164 Ravenswood, WV 26164

Gas Purchase Contract No. Not yet executed and Date \_\_\_\_\_  
(Month, day and year)

Meter Chart Code \_\_\_\_\_  
Name of First Purchaser Kaiser Aluminum & Chemical Corporation  
Kaiser Center 300 Lakeside Drive  
Oakland, California 95643  
(City) (State) (Zip Code)

FERC Seller Code \_\_\_\_\_ FERC Buyer Code \_\_\_\_\_

- TYPE OF DETERMINATION BEING SOUGHT:
- (1) Initial determination (See FERC Form 121.) 107 Section of NGPA N/A 3 Category Code
  - (2) Determination that increased production is the result of enhanced recovery technology.
  - (3) Determination of a seasonally affected well.

R. A. Pryce General Manager  
Name (Print) Title  
R. A. Pryce  
Signature  
P. O. Box 8  
Street or P. O. Box  
Ravenswood, WV 26164  
City State (Zip Code)  
(304) 273-5371  
Area Code Phone Number

(Certificate of Proof of Service to Purchaser)

On November 3, 1982 a copy was sent by certified mail to: Kaiser Aluminum & Chemical Corp  
Kaiser Center  
300 Lakeside Drive,  
Oakland, CA 94643

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request,  for certification of the above described well as meeting the requirements of Section \_\_\_\_\_ under the Natural Gas Policy Act of 1976. (NGPA);  or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA);  or for determination of a seasonally affected well under Section 108 of (NGPA).

All interested parties are hereby notified that on the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. \_\_\_\_\_.

Initial review of information submitted indicates the well  is,  is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

NOV 4 1982

By \_\_\_\_\_ Director  
Title \_\_\_\_\_  
09/08/2023

Received by \_\_\_\_\_  
Jurisdictional Agency



WELL CLASSIFICATION FORM  
HIGH COST GAS WELL - DEVONIAN SHALE  
WOPA Section 107

DESIGNATED AGENT R. A. Pryce  
ADDRESS P. O. Box 8  
Ravenswood, WV 26164  
Elevation 852  
Watershed Grasslick Run  
Disc Ripley County Jackson Quad. Kenna  
OPERATOR Kaiser Exploration and Mining Corporation  
ADDRESS P. O. Box 8  
Ravenswood, WV 26164  
GAS PURCHASER Kaiser Aluminum & Chemical Corporation  
ADDRESS Kaiser Center  
300 Lakeside Drive  
Oakland, CA 94643  
Gas Purchase Contract No. --  
Meter Chart Code --  
Date of Contract Not yet executed

Date surface drilling began 8/10/82  
Indicate the bottom hole pressure of the well and explain how this was calculated.

$$BHP = P_1 + P_1 (e^X - 1)$$

$L = 4229 \text{ Ft.}$        $T = 102^{\circ}$        $F = 562^{\circ}R$   
 $G = 0.65$        $P_1 = 900$        $psig = 915 \text{ psia}$

$$X = \frac{GL}{53.34T} = \frac{(0.65)(4229)}{(53.34)(562)} = 0.0916984$$

$$BHP = 915 + 915 (e^{0.0916984} - 1)$$

$$BHP = 915 + 915 (0.0960342)$$

$$BHP = 915 + 87.87$$

$$BHP = 1002.87 \text{ PSIA}$$

AFFIDAVIT

I, R. A. Pryce, having been first sworn according to law, state that, I have calculated the percentage of footage of the producing interval which is not Devonian shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described subparagraph (3)(i) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high cost natural gas well.

R. A. Pryce

STATE OF WEST VIRGINIA.  
COUNTY OF Jackson, TO WIT:

I, Faith Ann Holbert, a Notary Public in and for the state and county aforesaid, do certify that R. A. Pryce, whose name is signed to the writing above, bearing date the 2nd day of November, 19 82, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 3rd day of November, 19 82.  
My term of office expires on the 1 day of December, 19 85.

Faith Ann Holbert  
Notary Public

[NOTARIAL SEAL]

09/08/2023



Operator: KAISER EXPLORATION AND MINING COMPANY: R. A. PRYCE

Type Determination being sought - 107 (Devonian Shale)

API Well No.: 47-035-1743 Well Name: M. JOHNSON, KCM-245

West Virginia Office of Oil and Gas County: JACKSON  
References: SJA File No.

Vol. \_\_\_\_\_ Page \_\_\_\_\_ Line \_\_\_\_\_

I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 180 \* API Units
2. Remarks:

B. Gamma Ray Log Value at 0.7 x Value at Base Line

1. GR Value = 180 \* API Units
2. Calculation:  $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (180 *)}} = \underline{126}$  API Units

III. Intervals with GR index less than 0.7 x (Value at Base Line):

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From**	To***		
2562	5036*	2474	0

\* PLUG SET AT 4410; THICKNESS OF INTERVAL FROM PLUG TO TOP OF DEVONIAN SECTION = 1848 FT.

Total Devonian Interval 2474

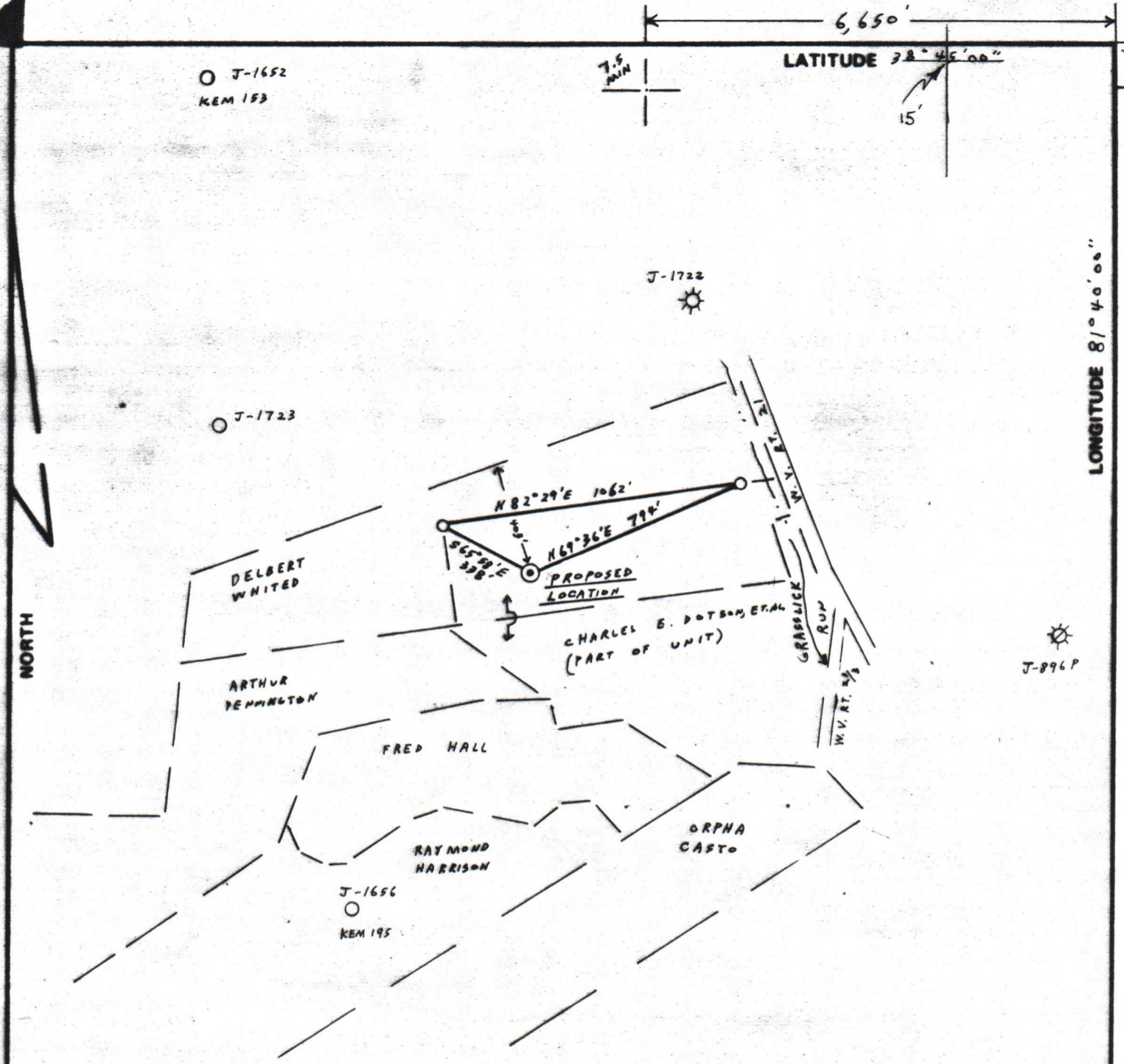
Total Less Than 0.7 (Shale Base) 0

Less Than 0.7 (Shale Base Line) = 0 x 100 = 0 %

Marked on log included with analysis.  
\*Top of Devonian Section Recorded on First Interval in this Column.  
\*Lesser of TD or Bottom of Devonian Section Recorded as last Interval in this Column.

09/08/2023





FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION INTERSECTION W.V. RT 21 AND 2 1/2, ELEV. = 748

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



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

FORM IV-6 (8-78)



DATE JULY 8, 1982  
 OPERATOR'S WELL NO. KEM 245  
 API WELL NO. \_\_\_\_\_  
47 - 035 - 1743-PP  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
 LOCATION: ELEVATION 852 WATER SHED GRASS LICK RUN  
 DISTRICT RIPLEY COUNTY JACKSON  
 QUADRANGLE KENNA  
 SURFACE OWNER MARY L. JOHNSON ACREAGE 8.796  
 OIL & GAS ROYALTY OWNER MARY L. JOHNSON LEASE ACREAGE 8.796  
 LEASE NO. 83-06-1953  
 PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION X PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 4947'  
 WELL OPERATOR KAISER EXPLOR. & MIN. CO. DESIGNATED AGENT KAISER EXPLORATION AND MINING CO.  
 ADDRESS P.O. BOX 8 RAYENSWOOD, W.V. 26164 ADDRESS P.O. BOX 8 RAYENSWOOD, W.V. 26164

JACK, 1743-PP