





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, Shale

Estimated depth of completed well, 4685' 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		
Conductor							Kinds
Fresh Water	10 3/4"					250' - 250'	150 sks class A (to surface)
Coal							Sizes
Intermediate	7"					2062' - 2062'	65 sks 50/50 pozmix 100 sks class A
Production	4 1/2"					4685' - 4685'	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 12-27-82**  
**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 location has provided 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       

04/26/2024

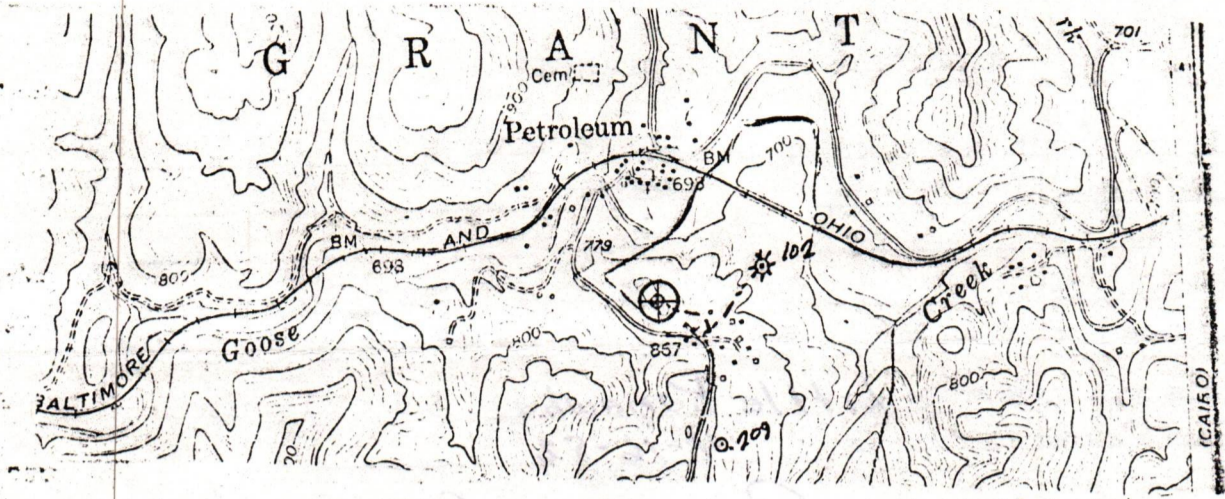


ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE \_\_\_\_\_

**LEGEND**

Well Site 


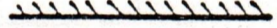









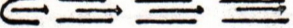
Access Road 

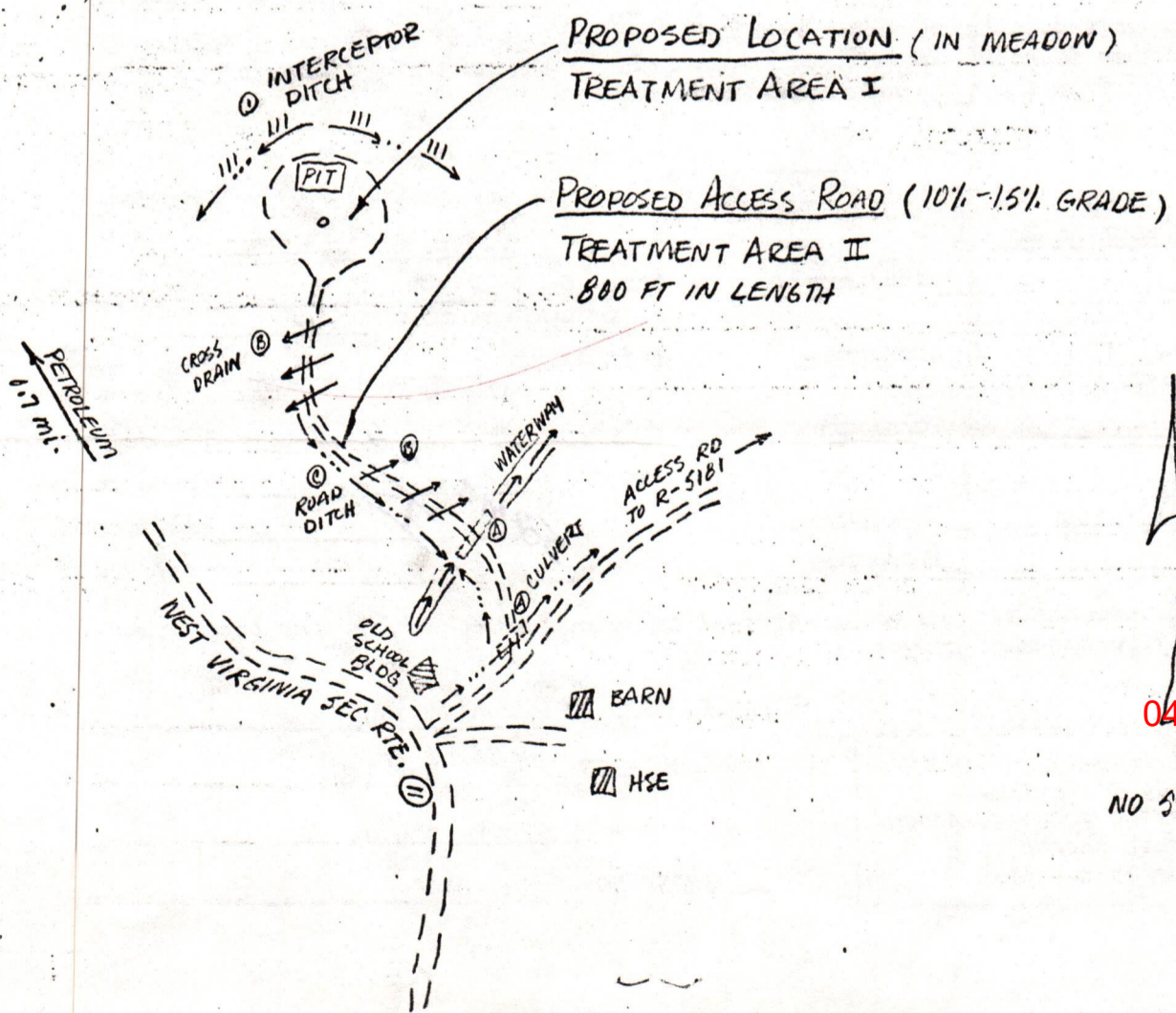


**WELL SITE PLAN**

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 	Diversion 
Road 	Spring 
Existing fence 	Wet spot 
Planned fence 	Building 
Stream 	Drain pipe 
Open ditch 	Waterway 



04/26/2024  
NO SCALE





IV-9  
(Rev 8-81)

DATE April 14, 1982

WELL NO. KEM #216

State of West Virginia  
Department of Mines  
Oil and Gas Division  
API NO. 47-085-5582

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Kaiser Exploration and Mining Co. DESIGNATED AGENT Same

Address P. O. Box 8, Ravenswood, WV Address \_\_\_\_\_

Telephone 273-5371 Telephone \_\_\_\_\_

LANDOWNER Andrew D. Foutty SOIL CONS. DISTRICT Little Kanawha

Revegetation to be carried out by Kaiser Exploration and Mining Company (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 4-16-82 (Date)

Jarrett Newlon  
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Culvert (A)

Spacing 16" diameter

Page Ref. Manual 2:7

Structure Cross Drain (B)

Spacing 70'

Page Ref. Manual 2:1

Structure Road Ditch (C)

Spacing \_\_\_\_\_

Page Ref. Manual 2:2 2-12

Structure Interceptor Ditch (1)

Material Earth/Rip-Rap

Page Ref. Manual 2:12

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

Material \_\_\_\_\_

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

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

Material \_\_\_\_\_

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

RECEIVED

APR 22 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

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 6.0

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

Mulch Hay 2 Tons/acre

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

Kentucky 31 Fescue 16 lbs/acre

Red Clover 8 lbs/acre

Treatment Area II

Lime Same as Area I Tons/acre

or correct to pH 6.0

Fertilizer \_\_\_\_\_ lbs/acre  
(10-20-20 or equivalent)

Mulch \_\_\_\_\_ Tons/acre

Seed\* same as Area I 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 Dennis Fisher 04/26/2024

ADDRESS RR 9, Box 110

Parkersburg, WV 26101

PHONE NO. 485-0146

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



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

- 7/23/82: Devonian Shale perforations: 2333'-2485'; 20 shots (0.39" diameter x 10" penetration densi jets)
- 7/23/82: Nitrogen frac: Breakdown at 1800 psig, treatment rate of Devonian Shale 40,000 SCF/min; total nitrogen 648,000 SCF; Shut-in pressure was 2100 psig; 10 min-pressure was 1200 psig.
- 9/2/82: Devonian Shale perforation: 2105-2306'; 20 shots (0.40" diameter)
- 9/2/82: Devonian Shale frac: Nitrogen frac: treating pressure: 2100 psig; treatment rate: 40,000 SCF; total nitrogen: 728,000 SCF; instantaneous shut in pressure: 1800 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
(REMAINDER OF WELL NOT LOGGED)					
Sand				580	
Shale			580	935	
Sand			935	998	
Shale			998	1206	
Sand			1206	1262	
Shale			1262	1278	
Lime			1278	1442	
Shale			1442	1474	
Sand			1474	1520	
Shale			1520	1902	
Coffee Shale			1902	1910	
Berea Sandstone			1910	1914	
Shale			1914	2585 T.D.	

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY

Well Operator

By:           K. A. P.           04/26/2024

Date:           August 19, 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."



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 August 19, 1982  
Operator's  
Well No. KEM - 216  
Farm Foutty  
API No. 47 - 85 - 5582

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 \_\_\_ / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow \_\_\_ /)

LOCATION: Elevation: 915 Watershed Goose Creek  
District: Grant County Ritchie Quadrangle Petroleum

COMPANY Kaiser Exploration and Mining Company

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

DESIGNATED AGENT Same

ADDRESS

SURFACE OWNER Andrew D. Foutty

ADDRESS 9th Street, Vienna, WV

MINERAL RIGHTS OWNER Same

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Deo

Mace ADDRESS Rt. 1, Box 5 Sandridge, WV

PERMIT ISSUED 4/27/82

DRILLING COMMENCED 7/13/82

DRILLING COMPLETED 7/18/82

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"			
9 5/8	514	514	320 sks
8 5/8			
7			
5 1/2			
4 1/2	2546	2546	500 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 2500 feet

Depth of completed well 2585 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 Devonian Shale Pay zone depth 2333-2485 feet

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

Final open flow 203.3 Mcf/d Final open flow -- Bbl/d

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

Static rock pressure 700 psig (surface measurement) after -- hours shut in  
(If applicable due to multiple completion--)

Second producing formation Devonian Shale Pay zone depth 2105 2306 feet

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

Final open flow 230 Mcf/d Oil: Final open flow -- Bbl/d

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

Static rock pressure 600 psig (surface measurement) after -- hours shut in

(Continue on reverse side)

RT-5582



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

RECEIVED

JUL 15 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 85-5582

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

Company Haiser Expl. and Mining Co.  
 Address \_\_\_\_\_  
 Farm Andrew D. Foutty  
 Well No. Hem 216  
 District Grant County Pit  
 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			
16			Kind of Packer _____
13			
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. \_\_\_\_\_ Date \_\_\_\_\_  
 NAME OF SERVICE COMPANY \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Drillers' Names \_\_\_\_\_

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

*230' deep at time of inspection*

7-12-82  
DATE

Samuel N. [Signature]  
DISTRICT WELL INSPECTOR

04/26/2024







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

RECEIVED

NOV 1 - 1983

OIL & GAS DIVISION  
 DEPT. OF MINES

Permit No. 085-5582 County Ritchie  
 Company KASIER Exploration Co. Farm \_\_\_\_\_  
 Inspector MIKE U. Well No. KEM 216  
 Date 10-25-83

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	<u>X</u>	_____
23.04	Reclaimed Drilling Pits	<u>X</u>	_____
23.05	No surface or underground Pollution	_____	_____
7.03	Identification Markings	<u>X</u>	_____

COMMENTS: D.K. TO RELEASE

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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: Mike Underwood 04/26/2024  
 DATE: 10-25-83





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

WALTER N. MILLER  
 DIRECTOR

THEODORE M. STREIT  
 ADMINISTRATOR

November 28, 1983

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

Gentlemen:

The required records and reports have been received in this office and the District Inspectors have submitted FINAL INSPECTIONS for the following wells listed below:

<u>PERMIT NUMBER</u>	<u>FARM AND WELL NUMBER</u>	<u>DISTRICT</u>
RIT-5181	Andrew D. Foutty, KEM #102	Grant
RIT-5520	Andrew Foutty, KEM #209	Grant
RIT-5582	Andrew D. Foutty, KEM #216	Grant

In accordance with Chapter 22, Article 4, Section 2, the above captioned wells will remain under bond coverage for "life of wells." Reclamation requirements have been approved.....

Very truly yours,

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

04/26/2024

TMS/rl





IV-27  
9-83

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Date: 9-29-83  
Well No: KEM 216  
API NO: 47-005-5582  
State County Permit

**Oil and Gas Division**  
**NOTICE OF VIOLATION**

WELL TYPE: Oil x / Gas x Liquid Injection      / Waste Disposal      /  
Of "Gas" - Production      / Storage      / Deep      / Shallow x /  
LOCATION: Elevation: 915' Watershed: GOOSE CREEK  
District: GRANT County: Ritchie Quadrangle: Petroleum 7'S'  
WELL OPERATOR KAISER EXPLORATION Co. DESIGNATED AGENT R. A. PRUCE  
Address P.O. Box 8 Address RAVENWOOD W.V. 26164  
RAVENWOOD W.V. 26164

The above well is being posted this 29 day of Sept, 1983, for a violation of Code 22-4-12-B and/or Regulation 23.03, set forth in detail as follows:  
(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

*Reclamation incomplete,*

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

You are hereby granted until 10-6-83, 19    , to abate this violation.

Failure to abate the violation may result in action by the Department under Code 22-4-17 or Code 22-4-18.

*Mike Underwood*  
Oil and Gas Inspector  
Address P.O. 2 Box 135  
SATON. W.V. 26426

Telephone: 792-1843 04/26/2024





STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division  
NOTICE OF VIOLATION

Date: 7-27-83  
Well No: KM 214  
API NO: 17-085-2882  
State County Permit

WV 27  
0-23

WELL TYPE: Oil & Gas / Liquid Injection / Waste Disposal  
LOCATION: Elevation: 215' / Watershed: Gas Creek  
District: Gas / County: Putnam / Quadrangle: Putnam, TR  
WELL OPERATOR: Kaiser Exploration Co. / DESIGNATED AGENT: R. A. Grace  
Address: P.O. Box 8 / Ravenna, WV 26041

The above well is being posted this 29 day of July, 1983, for a violation of Code 22-4-17 and/or Regulation 302, set forth in detail as follows:  
(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.  
You are hereby granted until 10-6-83 to abate this violation.  
Failure to abate the violation may result in action by the Department under Code 22-4-17 or Code 22-4-18.

*[Handwritten Signature]*  
Oil and Gas Inspector  
Address: R. A. Grace  
Putnam, WV 26041

Telephone: 702-1012

04/26/2024



Date: 10-20-83  
Operator's KEM 216  
Well Number \_\_\_\_\_  
API Well No.: 47 - 085 - 5582  
State County Permit

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

NOTICE OF ABATEMENT

WELL TYPE: Oil X / Gas X / Liquid Injection \_\_\_\_\_ / Waste disposal \_\_\_\_\_  
Underground \_\_\_\_\_  
If "Gas" - Production \_\_\_\_\_ / Storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X /  
LOCATION: Elevation: 915' / Watershed: GOOSE CREEK  
District: Grant / County: Ritchie / Quadrangle: PET - 7.5'  
WELL OPERATOR KASLER Exploration Co. / DESIGNATED AGENT R.A. Pryce  
Address P.O. Box 8 / Address RAVENWOOD W.V. 26104  
RAVENWOOD W.V. 26164

Notice is hereby given that the undersigned authorized oil and gas inspector made a special inspection of the above named well on Oct 20, 19 83,  
The violation of Code § 22-4-B-12 heretofore found to exist on 9-29-83, 19\_\_\_\_\_, by Form IV-27, "Notice of Violation" ✓ / Form IV-28, "Imminent Danger Order" \_\_\_\_\_ of that date has been totally abated. If the abated violation was found by an Imminent Danger Order requiring operations to cease, such requirement is hereby rescinded, and the well operator is hereby notified that he may resume operations.

COMMENTS

Violation HAS BEEN ABATED  
Thanks

**RECEIVED**  
OCT 24 1983

OIL & GAS DIVISION  
DEPT. OF MINES

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

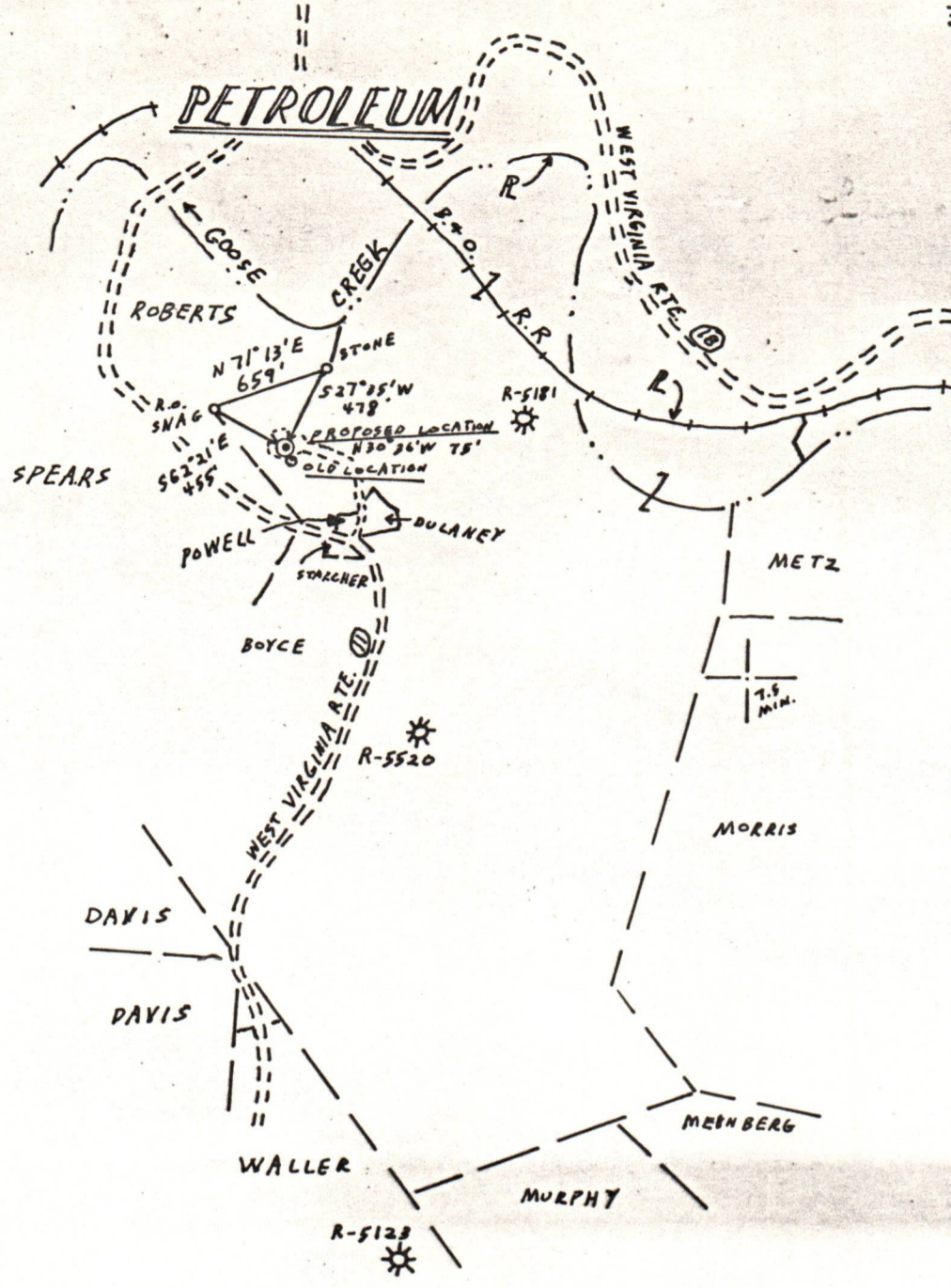
Mike Underwood  
Oil and Gas Inspector  
Address P.O. Box 135  
SALEM W.V. 26426  
Telephone 782-1043



5/6/82

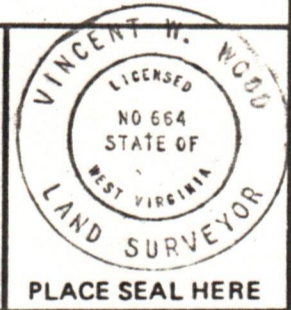
LATITUDE 39° 12' 30"  
39° 15'

LONGITUDE 81° 15' 00"



FILE NO. \_\_\_\_\_  
 DRAWING NO. REV. 1  
 SCALE 1"=1,000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION SPOT ELEV. 867 S.W. COR. SCHOOL BUILDING, S.E. OF SITE

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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE APRIL 30, 19 82  
 OPERATOR'S WELL NO. KEM 216 - REV.  
 API WELL NO. 47 - 085 - 5582-REV.  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 910 WATER SHED GOOSE CREEK  
 DISTRICT GRANT COUNTY RITCHIE  
 QUADRANGLE PETROLEUM  
 SURFACE OWNER ANDREW D. FOUTTY ACREAGE 237.75  
 OIL & GAS ROYALTY OWNER ANDREW D. FOUTTY LEASE ACREAGE 237.75  
 LEASE NO. \_\_\_\_\_  
 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 SHALE ESTIMATED DEPTH 4685'  
 WELL OPERATOR KAISER EXPLOR. & MIN. Co. DESIGNATED AGENT KAISER EXPLORATION AND MINING Co.  
 ADDRESS P.O. BOX 8 ADDRESS P.O. BOX 8  
RAVENSWOOD, W. V. 26164 RAVENSWOOD, W. V. 26164

04/26/2024