



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

MAR 11 1980

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

DATE February 28, 1980

Surface Owner C. Dallas & Rebecca Kayser  
Address Pt. Pleasant, WV 25550  
Mineral Owner Charlie Pickens, et al  
Address Leon, WV  
Coal Owner Union Carbide Corporation  
Address 32 Sanderson Road, Clendenin, WV  
Coal Operator None  
Address None

Company Kaiser Exploration and Mining Company  
Address P. O. Box 8, Ravenswood, WV 26164  
Farm Charlie Pickens, et al Acres 397.49  
Location (waters) Sapsucker Run  
Well No. KEM 36 Elevation 834  
District Union County Mason  
Quadrangle Elmwood

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 11-18-80.

*Robert H. [Signature]*

Deputy Director - Oil & Gas Division

INSPECTOR  
TO BE NOTIFIED Kenneth Butcher  
ADDRESS RFD #1, Barboursville, WV 25504  
PHONE 736-4885

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated May 26 19 78 by Charlie Pickens et al made to Kaiser Exploration and Mining Co. and recorded on the 28 day of June 19 79, in Mason County, Book 45 Page 811

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE  
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Very truly yours,  
(Sign Name) R. A. Pryce  
Well Operator  
P. O. Box 8  
Street  
Ravenswood  
City or Town  
West Virginia 26164 08/25/2023  
State

Address of Well Operator

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND



THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME Not known at this time NAME Robert A. Pryce  
 ADDRESS \_\_\_\_\_ ADDRESS P. O. Box 8, Ravenswood, WV 26164  
 TELEPHONE \_\_\_\_\_ TELEPHONE 273-5371  
 ESTIMATED DEPTH OF COMPLETED WELL: 4935 ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS X COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8      10 3/4	200	200	Cement to surface
8 - 5/8			
7	2520	2520	125 sks = 570 feet
5 1/2			
4 1/2	4935	4935	125 sks = 1500 feet
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET      SALT WATER \_\_\_\_\_ FEET

APPROXIMATE COAL DEPTHS \_\_\_\_\_

IS COAL BEING MINED IN THE AREA? None BY WHOM? \_\_\_\_\_

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

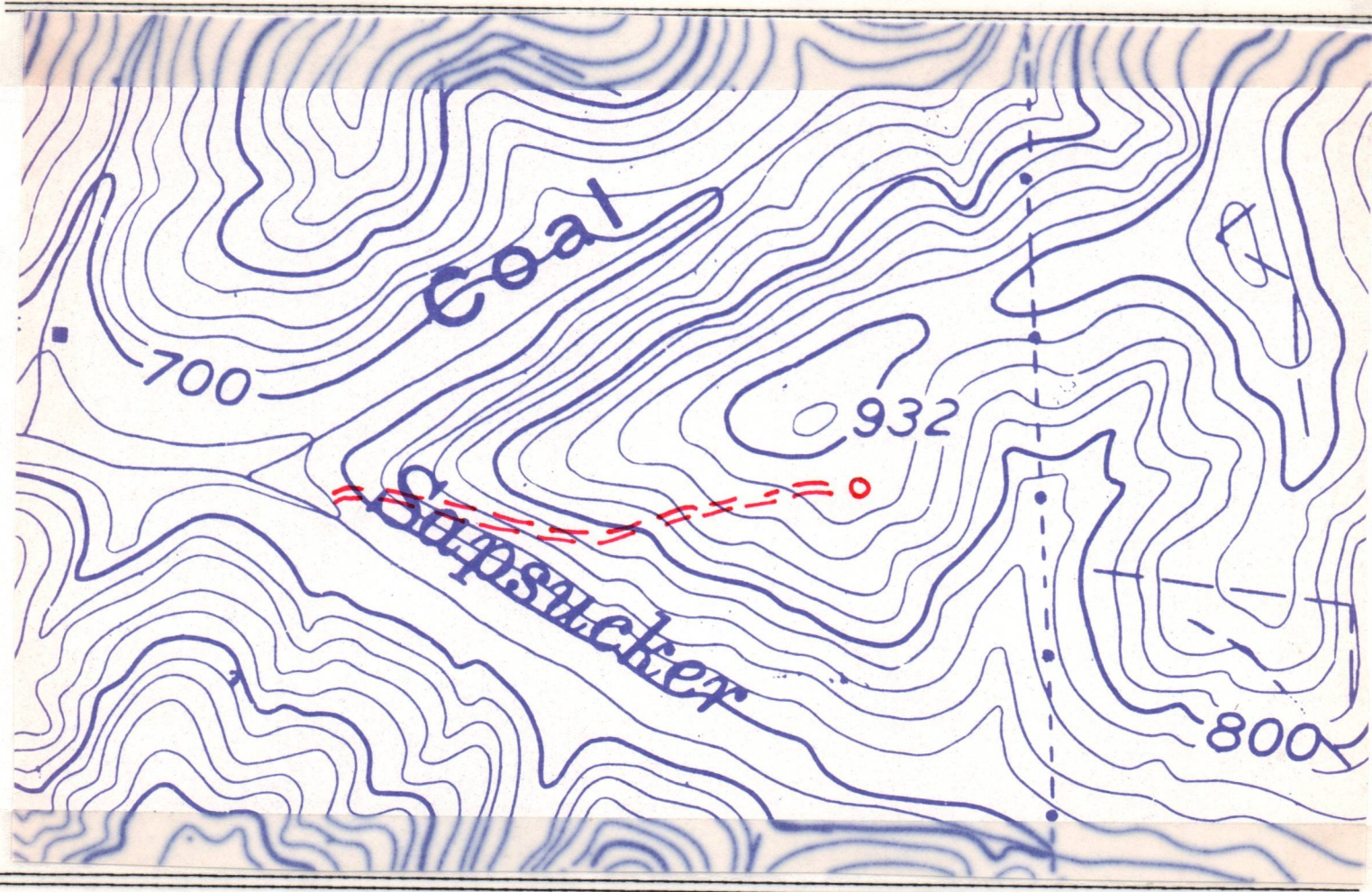
\_\_\_\_\_  
For Coal Company

\_\_\_\_\_  
Official Title

08/25/2023



Locate and show: (1) Well Location, (2) Access Road, (3) Well Site, (4) Drilling Pit and (5) Necessary Drainage Features.



COMPANY NAME: KAISER EXPLORATION AND MINING COMPANY PERMIT NO. \_\_\_\_\_

FARM: Charlie Pickens et al DISTRICT: Union COUNTY: Mason

STATEMENT OF RECLAMATION PLAN:

The proposed access road to the gas well location  
will begin at the end of secondary road 33/8 and  
and follow an existing farm road to the location  
on a point. No commercial timber will be cut for  
construction. A pit will be constructed and a  
plastic liner will be used to prevent seepage.  
Upon completion of the well, as soon as practical,

the pit will be filled and the gas well location site will be returned to its original  
grade, leaving only an access road for the operation of the well, Seeding, mulching and  
fertilizing will be used in restoring this location,

RECEIVED  
 MAR 11 1980  
 OIL & GAS DIVISION  
 DEPT. OF MINES

This plan was observed and agreed upon between the well operator, contractor 08/25/2023 and the district oil and gas inspector.

KENNETH BUTCHER

Please indicate ( ) "YES" if the district inspector was present.

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Submitted By: E.A. P... Title: Operations Manager Date: 3/4/80





STATE OF WEST VIRGINIA  
OIL AND GAS CONSERVATION COMMISSION

CHARLESTON 25305

March 12, 1980

Mr. Robert L. Dodd, Administrator  
Department of Mines  
Office of Oil and Gas

RE: APPLICATION FOR PERMIT #47-053 - 0222 TO DRILL DEEP WELL

COMPANY: KAISER EXPLORATION AND MINING COMPANY

FARM: CHARLIE PICKENS ET AL

COUNTY: MASON DISTRICT: UNION

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

Applicant HAS complied with the provisions of chapter twenty-  
(HAS-HAS NOT)  
two, article four-a, (§22-4A), of the code of West Virginia, nineteen  
hundred and thirty-one (1931), as amended, Oil and Gas Conservation,  
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 514 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: None*

\*\*  
 47-053-0186 - 4150'  
 47-053-0184 - 4500'  
 47-053-0190 - 4500'  
 47-053-0116 - 1000' P&A 04/01/73

Very truly yours,  
*Thomas E. Huzzey (rs)*  
 Thomas E. Huzzey  
 Commissioner

08/25/2023





STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Elmwood  
Permit No. MAS-0222

Rotary X Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas X  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Company <u>Kaiser Exploration and Mining Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>P. O. Box 8, Ravenswood, WV 26164</u>	Size			
Farm <u>Charlie Pickens, et al</u> Acres <u>397.49</u>	20-16			
Location (waters) <u>Sapsucker Run</u>	Cond.			
Well No. <u>KEM #36</u> Elev. <u>834'</u>	13-10" 10 3/4"	252' (KB)	252' (KB)	150 sks class A (to surface)
District <u>Union</u> County <u>Mason</u>	9 5/8			
The surface of tract is owned in fee by _____	8 5/8			
<u>C. Dallas &amp; Rebecca Kayser</u>	7	2583' (KB)	2583' (KB)	165 sks pozmix and class A (1400' fillup)
Address <u>Pt. Pleasant, WV 25550</u>	5 1/2			225 sks pozmix (1500' fillup)
Mineral rights are owned by <u>Charlie Pickens, et al</u>	4 1/2	4915' (KB)	4915' (KB)	
Address <u>Leon, WV</u>	3			
Drilling Commenced <u>7/8/80</u>	2		4826' (KB)	
Drilling Completed <u>7/17/80</u>	Liners Used			
Initial open flow <u>Trace</u> cu. ft. <u>--</u> bbls.				
Final production <u>250 MCF</u> cu. ft. per day <u>--</u> bbls.				
Well open _____ hrs. before test <u>1300</u> RP.				

Well treatment details:

Attach copy of cementing record.

Basin Surveys perforated 4826'-4832' (K.B.) w/3 1/2" glass jets on strip, 4 holes/ft, 24 holes; Halliburton & B.J. Hughes hydrofractured Oriskany w/30,000# 80/100 sand and 30,000# 20/40 sand, 181,000 SCF nitrogen, 875 bbl of water, 2218 avg. HHP, 22 BPM avg. rate, 4150 psig avg. treating pressure, 4300 psig max. pressure; instantaneous shut in: 3500 psig; job done on August 7, 1980; used 1000 gal 28% HCL acid to spearhead treatment.

Coal was encountered at None Feet -- Inches  
Fresh water -- Feet -- Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Oriskany Sandstone Depth 4826'-4832' (K.B.)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	6		
Sand			6	72		
Siltstone			72	106		
Shale			106	168		
Sand			168	260		
Red Rock			260	484		
Shale			484	545		
Siltstone			545	592		
Sand			592	601		
Shale			601	658		
Siltstone			658	695		
Sand			695	707		
Red Rock			707	763		
Sand			763	776		
Red Rock			776	947		
Sand			947	984		
Shale			984	1055		
Sand			1055	1085		
Siltstone & Shale			1085	1236		
Sand			1236	1387		
Shale			1387	1412		
Sand			1412	1445		
Siltstone			1445	1630		

08/25/2023

(over)

\* Indicates Electric Log tops in the remarks section.



Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			1630	1676		
Shale			1676	1691		
Sand			1691	1713		
Shale			1713	1778		
Sand			1778	1805		
Shale			1805	1819		
Big Lime			1819	2007		
Shale			2007	2036		
Big Injun			2036	2098		
Siltstone			2098	2478		
Coffee Shale			2478	2504		
Berea			2504	2514		
Shale			2514	3697	Gas show	3541' - 3604'
Brown Shale			3697	4162	Gas show	3709' - 3750', 3798, 3830', 404
Shale			4162	4497	Gas show	4292'
Marcellus Shale			4497	4727	Gas show	4505' - 85', 4604' - 4727'
Onondaga Lime			4727	4798		
Oriskany Sand			4798	4842	Gas	
Helderberg			4842	4912		
Total Depth			4912			

08/25/2023

Date December 2, 19 80

APPROVED

*Robert A. P.*

Owner

By Operations Manager

(Title)



REVISED

Operator's Well No. KEM - 36  
API Well No. 47 - 053 - 0222  
State County Perm.

[08-78]

WELL OPERATOR'S REPORT  
OF

DEVELOPMENT, MAINTENANCE AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas X / Liquid Injection \_\_\_ / Waste Disposal \_\_\_  
(If "Gas", Production X / Underground storage \_\_\_ / Deep \_\_\_ / Shallow \_\_\_)  
LOCATION: Elevation: 834 Watershed: Sapsucker Run  
District: Union County: Mason Quadrangle: Elmwood (7.5')

WELL OPERATOR Kaiser Exploration and Mining Co. DESIGNATED AGENT SAME  
Address P. O. Box 8 Address \_\_\_  
Ravenswood, WV 26164

PERMITTED WORK: Drill \_\_\_ / Convert \_\_\_ / Drill deeper \_\_\_ / Re-drill \_\_\_  
Plug off old formation X / Perforate new formation X / Fracture or stimulate  
Other physical change in well (specify) \_\_\_\_\_  
**RECEIVED**  
FEB 9 - 1982

PERMIT ISSUED ON March 18, 19 80 OIL & GAS INSPECTOR FOR THIS WORK:  
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED \_\_\_\_\_, 19 \_\_\_\_\_)  
Name Kenneth Butcher (736-4885)  
Address RFD #1  
Barboursville, WV 25504

GEOLOGICAL TARGET FORMATION: Plugged Oriskany; Frac'd Marcellus OLD Depth 4912 feet  
NEW Depth of completed well, 4750 feet Rotary \_\_\_ / Cable Tools \_\_\_  
Water strata depth: Fresh, -- feet; salt, -- feet.  
Coal seam depths: NONE Is coal being mined in the area? NO  
PLUG BACK Work was commenced September 3, 19 81, and completed September 14, 19 81

CASING AND TUBING PROGRAM: See previous well record filed upon completion of Oriskany.

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									<u>Winds</u>
Fresh water									
Coal									<u>Sizes</u>
Intermediate									
Production									<u>Depths set</u>
Tubing									
Liners									<u>Perforations: Marcellus</u>
								<u>Top</u>	<u>Bottom</u>
								<u>4527</u>	<u>4702</u>

OPEN FLOW DATA  
 OLD Producing formation Devonian Oriskany Sandstone OLD Pay zone depth 4826'-4832' (KB) feet  
 Gas: Initial open flow, Trace Mcf/d Oil: Initial open flow, NONE Bbl/d  
 Final open flow, 250 Mcf/d Final open flow, NONE Bbl/d  
 Time of open flow between initial and final tests, N/A hours  
 Static rock pressure, 1300 psig (surface measurement) after -- hours shut in.  
 [If applicable due to multiple completion--]  
 Second producing formation Devonian Marcellus Shale NEW Pay zone depth 4527'-4702' (KB) feet  
 Gas: Initial open flow, N/A Mcf/d Oil: Initial open flow, NONE Bbl/d  
 Final open flow, 125 Mcf/d Final open flow, NONE Bbl/d  
 Time of open flow between initial and final tests, N/A hours  
 Static rock pressure, 1275 psig (surface measurement) after 84 hours shut in.

08/25/2023

MASON - 0222



[08-78]

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

- 9/03/81: Set permanent bridge plug in 4 1/2" casing above Oriskany Sandstone at 4750' (KB). Perforated the Marcellus Shale with 25 holes (.50" diameter; 3 1/2" ceramic jets), from 4527'-4702' (KB)
- 9/12/81: Fractured the Marcellus Shale interval with 1,376,000 SCF of nitrogen and spearhead fracture with 500 gallons of 15% HCL Acid. Formation fractured at a rate of 64,000 SCF/min with an average treating pressure of 3000 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
<p><u>NOTE:</u> See previous well record filed with the completion of Oriskany Sandstone.</p>					

(Attach separate sheets to complete as necessary)

KAISER EXPLORATION AND MINING COMPANY  
Well Operator

By R. A. P.  
Its Operation Manager

08/25/2023

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  
JUL 11 1980

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION  
DEPT. OF MINES

Permit No. 47-053-0222

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

Company	CASING AND TUBING	USED IN DRILLING	Left in well	PACKERS
<u>Mason Exp. Min. Co.</u>				
<u>Ravenswood, WVA</u>	Size			
<u>Charlie Pichens</u>	16			Kind of Packer _____
<u>Ken - 36</u>	13			
<u>Union County Mason</u>	10			
<u>7-7-80</u>	8 1/4			
<u>Run 10 3/4" pipe at 250'</u>	6"			
<u>Drilling commenced</u>	5 3/16			
<u>Drilling completed</u>	3			Perf. top _____
<u>Date shot</u>	2			Perf. bottom _____
<u>Initial open flow</u>	Liners Used			Perf. top _____
<u>Open flow after tubing</u>				Perf. bottom _____
<u>Volume</u>	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
<u>Rock pressure</u>	NAME OF SERVICE COMPANY _____			
<u>Oil</u>	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
<u>Fresh water</u>	_____ FEET _____ INCHES _____ FEET _____ INCHES			
<u>Salt water</u>	_____ FEET _____ INCHES _____ FEET _____ INCHES			

10 3/4" 250' Cemented to surface by Halsburton Play Down 10 PM

Drillers' Names S Hoffner  
Centr. Bardette Drilling Co.  
Remarks:

7-8-80  
DATE

K.E. Butcher  
503  
08/25/2023  
DISTRICT WELL INSPECTOR







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

INSPECTOR'S WELL REPORT

Permit No. 47-053-0222

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

Company	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
<u>Paiser Exp. Min. Co.</u>				
<u>Revenswood, W.Va.</u>	Size			
<u>Charlie Perkins</u>	16			Kind of Packer
<u>Kein-36</u>	13			
<u>Kein-36</u>	10			Size of
<u>Union</u> County <u>Mason</u>	8 1/4			
<u>7-11-80</u>	6 3/4			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 Shoffner  
Contr. Burdette Drilling Co.  
 Remarks: Pit O.K.

RECEIVED  
 JUL 10 1980  
 OIL & GAS DIVISION  
 DEPT. OF MINES

7-7-80  
DATE

K.E. Burdette  
08/25/2023  
DISTRICT WELL INSPECTOR















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

INSPECTOR'S WELL REPORT

Permit No. 47-053-0222

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

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>Kaiser Exp. &amp; Min. Co.</u>	Size			
<u>Papley, WVA,</u>	16			Kind of Packer
<u>Charlie Puttenset</u>	13			
<u>Kern - 36</u>	10			Size of
District <u>Union</u> County <u>Mason</u>	8 1/4			
Drilling commenced	6 5/8			Depth set
Drilling completed _____ Total depth _____	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			
Volume _____ Cu. Ft.	<b>RECEIVED</b> MAR 01 1982			
Back _____ lbs. _____ hrs.	OIL AND GAS DIVISION WV DEPARTMENT OF MINES			Perf. bottom
_____ 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 \_\_\_\_\_  
Reclamation incomplete.  
Remarks \_\_\_\_\_

2-25-82  
DATE

K.E. Butcher  
503 **08/25/2023**  
DISTRICT WELL INSPECTOR







RECEIVED

FORM OG-8

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

AUG - 6 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

*Amical*  
AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE. ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

COAL OPERATOR OR OWNER	KAISER EXPLORATION AND MINING COMPANY
NAME OF WELL OPERATOR	
ADDRESS	P.O. Box 8 RAVENSWOOD, WV 26164
COMPLETE ADDRESS	
COAL OPERATOR OR OWNER	19
WELL AND LOCATION	
ADDRESS	UNION District
LEASE OR PROPERTY OWNER	MASON County
ADDRESS	Well No. KEM-36
	PICKENS Farm

STATE INSPECTOR SUPERVISING PLUGGING.....KENNETH BUTCHER

AFFIDAVIT

STATE OF WEST VIRGINIA, }  
County of MASON } ss:

R. A. Pryce and R. L. Coty  
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by \_\_\_\_\_, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 3 day of September, 1981, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			CSG PULLED	CSG LEFT IN
ORISKANY Ss	PERMANENT BRIDGE PLUG SET AT 4750' (3/9/81)	BAKER PERMANENT BRIDGE PLUG IN 4 1/2" CASING	0	
MARCELLUS SHALE	PERMANENT BRIDGE PLUG SET AT 4200' (1/27/82)	BAKER PERMANENT BRIDGE PLUG MO- DEL S IN 4 1/2" CASING	0	
COAL SEAMS				
(NAME)		DESCRIPTION OF MONUMENT		
(NAME)		PARTIAL PLUGGING, NO MONUMENT		
(NAME)		ERECTED		
(NAME)				

and that the work of plugging and filling said well was completed on the 27 day of January, 1982.

And further deponents saith not.

R. A. Pryce  
R. L. Coty  
Candi S. Kitcher

08/25/2023

Sworn to and subscribed before me this 6th day of August, 1982.

My commission expires:  
August 29, 1988

Notary Public.  
Permit No. MAS-222 - PP

153 -



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

RECEIVED

JAN 17 1983

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 47-053-0222

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

Company <u>Kaiser Exp. &amp; Min. Co.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Ripley, W.Va.</u>	Size			
Farm <u>Pickens et al</u>	16			Kind of Packer
Well No. <u>Ken-36</u>	13			
District <u>Union</u> County <u>Marion</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: Final inspection made on this well,

1-13-83  
DATE

~~PP~~ release

1503 K.E. Bulcher  
DISTRICT WELL INSPECTOR

08/25/2023







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

RECEIVED

MAY 24 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 47-053-0212

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

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>Kaiser Exp. &amp; Min. Co.</u>	Size			
<u>Tripley, W.Va.</u>	16			Kind of Packer
<u>Charles Pickens et al</u>	13			
<u>Well No. Kern-36</u>	10			Size of
<u>District Union County Mason</u>	8 1/4			
<u>Drilling commenced</u>	6 3/8			Depth set
<u>Drilling completed</u> _____ <u>Total depth</u> _____	5 3/16			
<u>Date shot</u> _____ <u>Depth of shot</u> _____	3			Perf. top
<u>Initial open flow</u> _____ /10ths <u>Water in</u> _____ <u>Inch</u>	2			Perf. bottom
<u>Open flow after tubing</u> _____ /10ths <u>Merc. in</u> _____ <u>Inch</u>	<u>Liners Used</u>			Perf. top
<u>Volume</u> _____ <u>Cu. Ft.</u>				Perf. bottom
<u>Block pressure</u> _____ <u>lbs.</u> _____ <u>hrs.</u>	<u>CASING CEMENTED</u> _____ <u>SIZE</u> _____ <u>No. FT.</u> _____ <u>Date</u> _____			
<u>_____</u> _____ <u>bbls., 1st 24 hrs.</u>	<u>NAME OF SERVICE COMPANY</u> _____			
<u>Fresh water</u> _____ <u>feet</u> _____ <u>feet</u>	<u>COAL WAS ENCOUNTERED AT</u> _____ <u>FEET</u> _____ <u>INCHES</u>			
<u>Salt water</u> _____ <u>feet</u> _____ <u>feet</u>	_____ <u>FEET</u> _____ <u>INCHES</u> _____ <u>FEET</u> _____ <u>INCHES</u>			

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

Remarks: Final inspection made on this well.

5-20-82

(503) / K. G. Bullock 08/25/2023









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

WALTER N. MILLER  
DIRECTOR

THEODORE M. STREIT  
ADMINISTRATOR

February 8, 1983

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

In Re: PERMIT NO: 47-053-0222-PP  
FARM: Charlie Pickens, et al  
WELL NO: KEM-36  
DISTRICT: Union  
COUNTY Mason

Gentlemen:

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

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

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

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

Very truly yours,

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

TMS/

08/25/2023



FERC-121

<p>1.0 API well number (If not available, leave blank. 14 digits.)</p>	<p style="text-decoration: underline;">47-053-0222</p>																																							
<p>2.0 Type of determination being sought (Use the codes found on the front of this form.)</p>	<p style="text-decoration: underline;">107</p> Section of NGPA		<p style="text-decoration: underline;">N/A</p> Category Code																																					
<p>3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)</p>	<p style="text-decoration: underline;">4832' (KB)</p> feet																																							
<p>4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td colspan="3" style="text-decoration: underline;">Kaiser Energy, Inc.</td> <td colspan="2" style="border-bottom: 1px solid black;"></td> </tr> <tr> <td colspan="3" style="font-size: small;">Name</td> <td colspan="2" style="font-size: small;">Seller Code</td> </tr> <tr> <td colspan="5" style="text-decoration: underline;">300 Lakeside Drive</td> </tr> <tr> <td colspan="5" style="font-size: small;">Street</td> </tr> <tr> <td style="text-decoration: underline;">Oakland</td> <td style="text-decoration: underline;">CA</td> <td colspan="3" style="text-decoration: underline;">94643</td> </tr> <tr> <td style="font-size: small;">City</td> <td style="font-size: small;">State</td> <td colspan="3" style="font-size: small;">Zip Code</td> </tr> </table>				Kaiser Energy, Inc.					Name			Seller Code		300 Lakeside Drive					Street					Oakland	CA	94643			City	State	Zip Code								
Kaiser Energy, Inc.																																								
Name			Seller Code																																					
300 Lakeside Drive																																								
Street																																								
Oakland	CA	94643																																						
City	State	Zip Code																																						
<p>5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td colspan="4" style="text-decoration: underline;">Elmwood</td> </tr> <tr> <td colspan="4" style="font-size: small;">Field Name</td> </tr> <tr> <td colspan="3" style="text-decoration: underline;">Mason</td> <td style="text-decoration: underline;">WV</td> </tr> <tr> <td colspan="3" style="font-size: small;">County</td> <td style="font-size: small;">State</td> </tr> </table>				Elmwood				Field Name				Mason			WV	County			State																				
Elmwood																																								
Field Name																																								
Mason			WV																																					
County			State																																					
<p>(b) For OCS wells:</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-decoration: underline;">N/A</td> <td colspan="2" style="border-bottom: 1px solid black;"></td> </tr> <tr> <td colspan="2" style="font-size: small;">Area Name</td> <td colspan="2" style="font-size: small;">Block Number</td> </tr> <tr> <td colspan="4" style="text-align: center; padding-top: 10px;">                     Date of Lease:                 </td> </tr> <tr> <td colspan="4" style="text-align: center;"> <table style="margin: auto;"> <tr> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> </tr> <tr> <td style="font-size: x-small;">Mo.</td> <td style="font-size: x-small;">Day</td> <td style="font-size: x-small;">Yr.</td> <td colspan="3"></td> </tr> </table> </td> </tr> <tr> <td colspan="2"></td> <td colspan="2" style="text-decoration: underline;"></td> </tr> <tr> <td colspan="2"></td> <td colspan="2" style="font-size: small;">OCS Lease Number</td> </tr> </table>				N/A				Area Name		Block Number		Date of Lease:				<table style="margin: auto;"> <tr> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> </tr> <tr> <td style="font-size: x-small;">Mo.</td> <td style="font-size: x-small;">Day</td> <td style="font-size: x-small;">Yr.</td> <td colspan="3"></td> </tr> </table>										Mo.	Day	Yr.										OCS Lease Number	
N/A																																								
Area Name		Block Number																																						
Date of Lease:																																								
<table style="margin: auto;"> <tr> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> </tr> <tr> <td style="font-size: x-small;">Mo.</td> <td style="font-size: x-small;">Day</td> <td style="font-size: x-small;">Yr.</td> <td colspan="3"></td> </tr> </table>										Mo.	Day	Yr.																												
Mo.	Day	Yr.																																						
		OCS Lease Number																																						
<p>(c) Name and identification number of this well: (35 letters and digits maximum.)</p>	<p style="text-decoration: underline;">Charlie Picken KEM #36</p>																																							
<p>(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)</p>	<p style="text-decoration: underline;">N/A</p>																																							
<p>6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td colspan="3" style="text-decoration: underline;">Roaring Fork Gas Corp</td> <td colspan="2" style="border-bottom: 1px solid black;"></td> </tr> <tr> <td colspan="3" style="font-size: small;">Name</td> <td colspan="2" style="font-size: small;">Buyer Code</td> </tr> </table>				Roaring Fork Gas Corp					Name			Buyer Code																											
Roaring Fork Gas Corp																																								
Name			Buyer Code																																					
<p>(b) Date of the contract:</p>	<p style="text-align: center;"> <table style="margin: auto;"> <tr> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> <td style="border-top: 1px solid black; width: 10px;"></td> </tr> <tr> <td style="font-size: x-small;">Mo.</td> <td style="font-size: x-small;">Day</td> <td style="font-size: x-small;">Yr.</td> <td colspan="3"></td> </tr> </table> </p>										Mo.	Day	Yr.																											
Mo.	Day	Yr.																																						
<p>(c) Estimated annual production:</p>	<p style="text-align: center;"> <table style="margin: auto;"> <tr> <td style="text-decoration: underline;">9.1</td> <td style="font-size: small;">MMcf</td> </tr> </table> </p>				9.1	MMcf																																		
9.1	MMcf																																							
<p>7.0 Contract price: (As of filing date. Complete to 3 decimal places.)</p>	<p>1982 Jan.</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="font-size: small;">(a) Base Price (\$/MMBTU) -</th> <th style="font-size: small;">(b) Tax</th> <th style="font-size: small;">(c) All Other Prices (Indicate (+) or (-).)</th> <th style="font-size: small;">(d) Total of (a), (b) and (c)</th> </tr> <tr> <td style="text-align: center; text-decoration: underline;">5.144</td> <td style="text-align: center; text-decoration: underline;">.607</td> <td style="text-align: center;">---</td> <td style="text-align: center; text-decoration: underline;">5.751</td> </tr> </table>	(a) Base Price (\$/MMBTU) -	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)	5.144	.607	---	5.751	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="font-size: small;">(a) Base Price (\$/MMBTU) -</th> <th style="font-size: small;">(b) Tax</th> <th style="font-size: small;">(c) All Other Prices (Indicate (+) or (-).)</th> <th style="font-size: small;">(d) Total of (a), (b) and (c)</th> </tr> <tr> <td style="text-align: center; text-decoration: underline;">5.144</td> <td style="text-align: center; text-decoration: underline;">.607</td> <td style="text-align: center;">---</td> <td style="text-align: center; text-decoration: underline;">5.751</td> </tr> </table>	(a) Base Price (\$/MMBTU) -	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)	5.144	.607	---	5.751																					
(a) Base Price (\$/MMBTU) -	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)																																					
5.144	.607	---	5.751																																					
(a) Base Price (\$/MMBTU) -	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)																																					
5.144	.607	---	5.751																																					
<p>8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="font-size: small;">(a) Base Price (\$/MMBTU) -</th> <th style="font-size: small;">(b) Tax</th> <th style="font-size: small;">(c) All Other Prices (Indicate (+) or (-).)</th> <th style="font-size: small;">(d) Total of (a), (b) and (c)</th> </tr> <tr> <td style="text-align: center;">---</td> <td style="text-align: center;">Deregulated</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> </tr> </table>	(a) Base Price (\$/MMBTU) -	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)	---	Deregulated	---	---	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="font-size: small;">(a) Base Price (\$/MMBTU) -</th> <th style="font-size: small;">(b) Tax</th> <th style="font-size: small;">(c) All Other Prices (Indicate (+) or (-).)</th> <th style="font-size: small;">(d) Total of (a), (b) and (c)</th> </tr> <tr> <td style="text-align: center;">---</td> <td style="text-align: center;">Deregulated</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> </tr> </table>	(a) Base Price (\$/MMBTU) -	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)	---	Deregulated	---	---																						
(a) Base Price (\$/MMBTU) -	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)																																					
---	Deregulated	---	---																																					
(a) Base Price (\$/MMBTU) -	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)																																					
---	Deregulated	---	---																																					
<p>9.0 Person responsible for this application</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%; text-decoration: underline;">R. L. Coty</td> <td colspan="3" style="text-decoration: underline;">Petroleum Engineer</td> </tr> <tr> <td style="font-size: small;">Name</td> <td colspan="3" style="font-size: small;">Title</td> </tr> <tr> <td colspan="4" style="text-align: center; text-decoration: underline;"> </td> </tr> <tr> <td colspan="4" style="font-size: small;">Signature</td> </tr> <tr> <td style="text-decoration: underline;">1/22/82</td> <td colspan="3" style="text-align: right;">304 273-5371 <span style="color: red;">08/25/2023</span></td> </tr> <tr> <td style="font-size: small;">Date Application is Completed</td> <td colspan="3" style="font-size: small;">Phone Number</td> </tr> </table>				R. L. Coty	Petroleum Engineer			Name	Title							Signature				1/22/82	304 273-5371 <span style="color: red;">08/25/2023</span>			Date Application is Completed	Phone Number														
R. L. Coty	Petroleum Engineer																																							
Name	Title																																							
Signature																																								
1/22/82	304 273-5371 <span style="color: red;">08/25/2023</span>																																							
Date Application is Completed	Phone Number																																							
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="font-size: x-small;">Agency Use Only</td> </tr> <tr> <td style="font-size: x-small;">Date Received by Juris. Agency</td> </tr> <tr> <td style="text-align: center; font-size: large; font-weight: bold;">FEB 22 1982</td> </tr> <tr> <td style="font-size: x-small;">Date Received by FERC</td> </tr> </table>	Agency Use Only	Date Received by Juris. Agency	FEB 22 1982	Date Received by FERC																																				
Agency Use Only																																								
Date Received by Juris. Agency																																								
FEB 22 1982																																								
Date Received by FERC																																								



**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:



03

PARTICIPANTS:

DATE: JUN 28 1982

BUYER-SELLER CODE

WELL OPERATOR: Kaiser Energy, Inc.

FIRST PURCHASER: Roaring Fork Gas Corp.

OTHER:

W. Va. Department of Mines, Oil & Gas Division  
 WELL DETERMINATION FILE NUMBER  
820222-107-053-0222  
 Use Above File Number on all Communications  
 Relating to Determination of this Well

**DEFERRED** for physics  
 T. B.

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121  Items not completed - Line No. 7.0 c 8.0 Deregulated
- 2. IV-1 Agent R. L. Coty
- 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: 9-3-81 Date completed 9-14-81 Deepened
- (5) Production Depth: 4826-32, 4527-4702
- (5) Production Formation: Devonian Oriskany Sandstone, Devonian Marcellus Shale
- (5) Final Open Flow: 250 MCF
- (5) After Frac. R. P. 1300 # 84 hrs.
- (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 Report
- (5) Oil Production:  From Completion Report
- 10-17. Does lease inventory indicate enhanced recovery being done NO
- 10-17. Is affidavit signed?  Notarized?  08/25/2023
- Does official well record with the Department confirm the submitted information? YES
- Additional information  Does computer program confirm?
- Was Determination Objected to  By Whom?

T. B.



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

Operator's Well No. KEM #36  
APD Well No. 053 - 0222  
State

WELL CLASSIFICATION FORM  
HIGH COST GAS WELL - DEVONIAN SHALE

MSA Section 107

DESIGNATED AGENT R. L. Coty

ADDRESS P. O. Box 8  
Ravenswood, WV 26164

LOCATION: Elevation 834'

Watershed Sapsucker Run

Dis. Union County Mason Road Elmwood

Gas Purchase Contract No. \_\_\_\_\_

Meter Chart Code ---  
Date of Contract 12/22/81

WELL OPERATOR Kaiser Energy, Inc.

ADDRESS 300 Lakeside Drive  
Oakland, CA 94643

GAS PURCHASER Roaring Fork Gas Corp.

ADDRESS P. O. Box 3752  
Charleston, WV 25337

\* \* \* \* \*

Date surface drilling began: 7/8/80

Indicate the bottom hole pressure of the well and explain how this was calculated.

$$BHP = P1 + P1 (e^X - 1) \quad P1 = 1275 \text{ psig} = 1290 \text{ psia} \quad T = 106^\circ F = 566^\circ R$$

$$X = \frac{GL}{53.34T} = \frac{(0.65)(4650)}{(53.34)(566)} = \frac{3022.5}{30190.44} = 0.1001144$$

$$BHP = 1290 + 1290 (e^{0.1001144} - 1)$$

$$BHP = 1290 + 1290 (1.1053 - 1)$$

$$BHP = 1290 + 135.84$$

$$BHP = 1425.84 \text{ PSIA}$$

**AFFIDAVIT**

I, R. L. Coty, 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. L. Coty

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. L. Coty, whose name is signed to the writing above, bearing date the 22nd day of January, 1982, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 25th day of January, 1982.

My term of office expires on the 1 day of December, 1985.

Faith Ann Holbert  
Notary Public

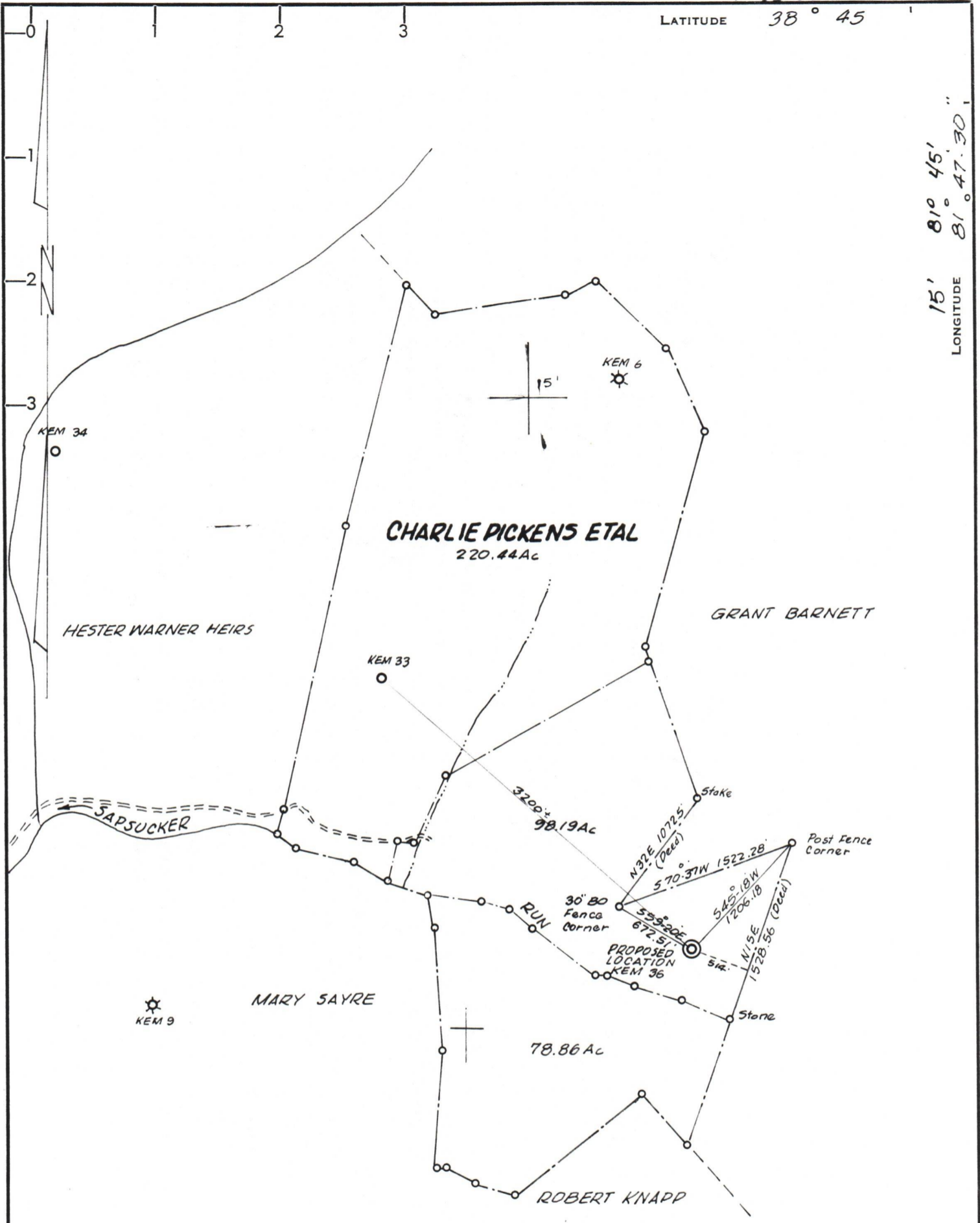
[NOTARIAL SEAL]

08/25/2023



3-3

3-18-80 EdD



LATITUDE 38° 45'

LONGITUDE 81° 47.30' 15' 45'

### CERTIFICATE

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Minimum degree of accuracy is one part in 200

Signed Frank H. Barku LL#289

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY KAISER EXPLORATION & MINING COMPANY  
 ADDRESS P.O. BOX 8, RAVENSWOOD, WEST VIRGINIA  
 FARM CHARLIE PICKENS ETAL  
 MAP \_\_\_\_\_ ACRES 98.19 of 397.49 LEASE NO. \_\_\_\_\_  
 WELL (FARM) NO. 3 SERIAL NO. KEM 36  
 ELEVATION (SPIRIT LEVEL) 834  
 QUADRANGLE ELMWOOD 7.5 WINFIELD 15'  
 COUNTY MASON DISTRICT UNION  
 POINT OF PROVEN ELEVATION BM EL. 628  
 FILE NO. \_\_\_\_\_ DRAWING NO. \_\_\_\_\_  
 DATE FEB. 27, 1980 SCALE 1" = 1000 FT.

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON 08/25/2023  
 WELL LOCATION MAP  
 FILE NO. 053-0222  
 + DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 TO 62,500. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.  
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

4935' Criskany