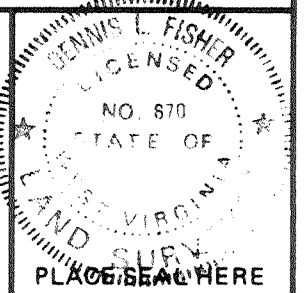


FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION SPOT ELEV. 1042 HIGH POINT N.W. OF LOCATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) Dennis L. Fisher  
 R.P.E. \_\_\_\_\_ L.L.S. 670



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



DATE JUNE 5, 19 81  
 OPERATOR'S WELL NO. KEM 104  
 API WELL NO. 47 - 035 - 01585-P  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
 LOCATION: ELEVATION 950 WATER SHED KESSEL RUN  
 DISTRICT RIPLEY COUNTY JACKSON  
 QUADRANGLE ELMWOOD (7.5 MIN.)  
 SURFACE OWNER C.E. KESSEL ACREAGE 127  
 OIL & GAS ROYALTY OWNER C.E. KESSEL, ETAL LEASE ACREAGE 127  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

*Plugging*

JACK. 1585

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ORISKANY ESTIMATED DEPTH \_\_\_\_\_  
 DESIGNATED AGENT Thomas Liberatore  
 ADDRESS Same Address  
 PH: 304-273-5371  
 JUN 27 1997  
 Peake Energy, Inc.,  
 P.O. Box 8  
 Ravenswood, WVa. 26164-0008

7.5 MIN TOPO

LONGITUDE 81° 45'

NORTH

KESSEL

FRENCH

WEST VIRGINIA SECONDARY ROUTE 327

C.E. KESSEL, ETAL  
127 AC.

LATHEY

PROPOSED  
LOCATION  
ELEV 950

N 33° 12' E  
240

N 52° 06' W  
423

S 35° W 173.9 FEET TOTAL

LOW FENCE

N 27° 1' W  
392

SAXTON

LATHEY

ELK-POCA SP UNIT # 25

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 500'  
MINIMUM DEGREE OF ACCURACY 1:200  
PROVEN SOURCE OF ELEVATION SPOT ELEV. 1042  
HIGH POINT N.W. OF LOCATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) Donna L. Fisher

R.P.E. \_\_\_\_\_ L.L.S. 670

PLACE SEAL HERE

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

FORM IV-6 (8-78)



DATE JUNE 5, 19 81  
OPERATOR'S WELL NO. KEM 104  
API WELL NO. \_\_\_\_\_  
47 - 035 - 1585-Frac.  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

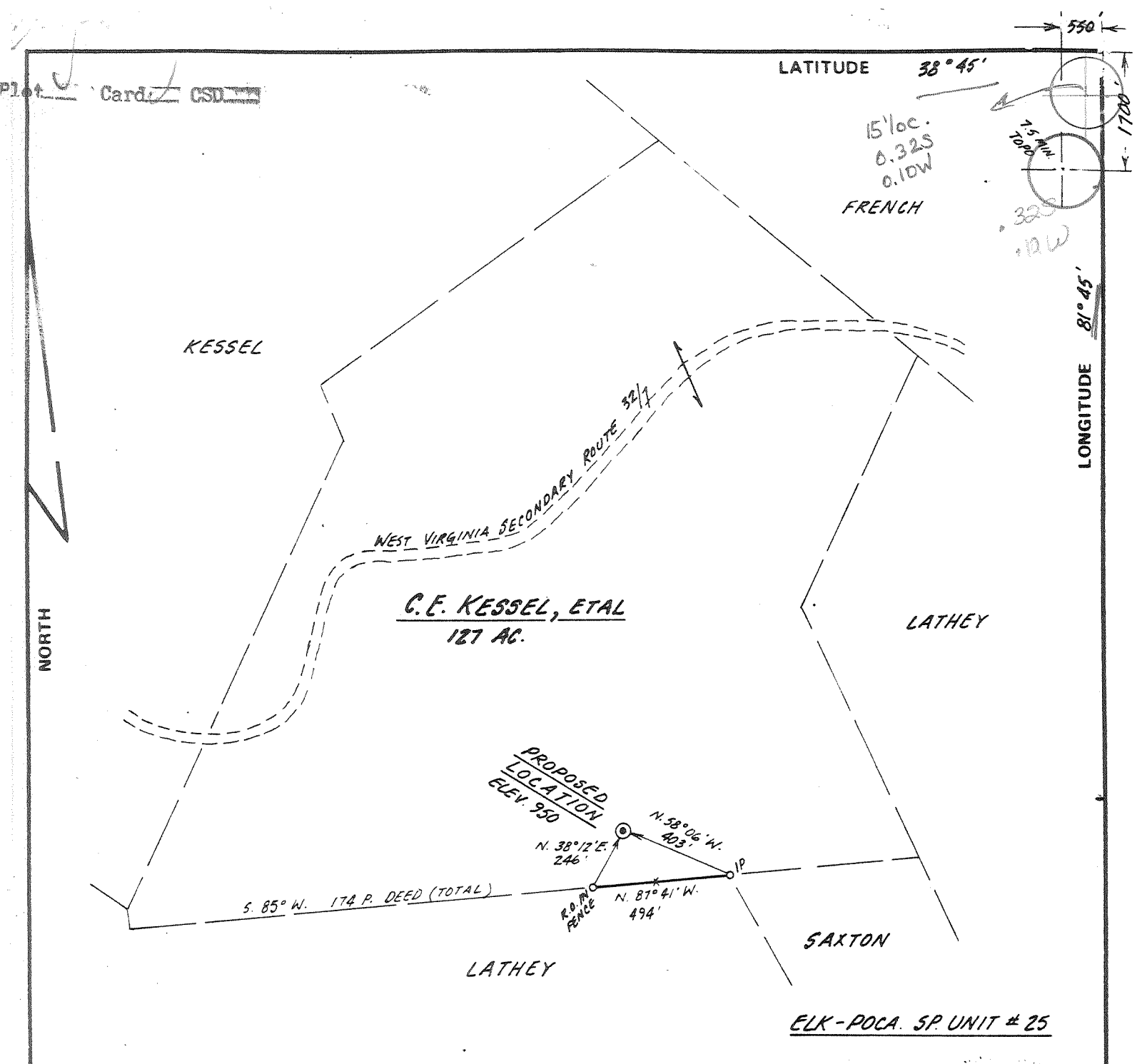
WELL TYPE OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
LOCATION ELEVATION 950 WATER SHED KESSEL RUN  
DISTRICT RIPLEY COUNTY JACKSON  
QUADRANGLE ELMWOOD (7.5 MIN.)

SURFACE OWNER C.E. KESSEL ACREAGE 127  
OIL & GAS ROYALTY OWNER C.E. KESSEL, ETAL LEASE ACREAGE 127  
LEASE NO. \_\_\_\_\_

PROPOSED WORK DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

MAY 21 1984

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION DRISKANY ESTIMATED DEPTH 5125 6-6 Elk-Poca (Sissonville) (192)  
WELL OPERATOR KAISER EXPLORATION & MINING DESIGNATED AGENT KAISER EXPLORATION & MINING COMPANY  
ADDRESS PO BOX #8 OWWO COMPANY ADDRESS PO BOX 8 RAVENSWOOD, WEST VIRGINIA 26164



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION SPOT ELEV. 1042  
HIGH POINT N.W. OF LOCATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) Dennis L. Fisher  
 R.P.E. \_\_\_\_\_ L.L.S. 670

PLACE SEAL HERE

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



DATE JUNE 5, 19 81  
 OPERATOR'S WELL NO. KEM 104  
 API WELL NO. \_\_\_\_\_  
47 - 035 - 1585  
 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 \_\_\_ STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
 LOCATION: ELEVATION 950 WATER SHED KESSEL RUN  
 DISTRICT RIPLEY COUNTY JACKSON  
 QUADRANGLE ELMWOOD (7.5 MIN.) Winfield NG  
 SURFACE OWNER C.E. KESSEL ACREAGE 127  
 OIL & GAS ROYALTY OWNER C.E. KESSEL, ETAL LEASE ACREAGE 127  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION DRISKANY ESTIMATED DEPTH 5125  
 WELL OPERATOR KAISER EXPLORATION & MINING DESIGNATED AGENT KAISER EXPLORATION & MINING COMPANY  
 ADDRESS PO BOX #8 COMPANY ADDRESS PO BOX 8  
RAVENSWOOD, WEST VIRGINIA 26164 RAVENSWOOD, WEST VIRGINIA 26164

JUL 09 1981

RECEIVED

IV-35 (Rev 8-81) NOV 17 1984



OIL & GAS DIVISION DEPT. OF MINES

State of West Virginia Department of Mines Oil and Gas Division

REVISED

Date 12/26/84 Operator's Well No. KEM 104 Farm C. E. Kessel API No. 47 - 035 - 1585-FRAC

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 / Shallow X-)

LOCATION: Elevation: 950' Watershed Kessel Run District: Ripley County Jackson Quadrangle Elmwood

COMPANY Kaiser Exploration and Mining Company ADDRESS P. O. Box 8 Ravenswood, WV 26164 DESIGNATED AGENT R. A. Pryce ADDRESS Same SURFACE OWNER John S. Thaxton ADDRESS Rt. 5, Box 58, Given, WV 25245 MINERAL RIGHTS OWNER C. E. Kessel, et al ADDRESS 111 Highlawn Drive, Ripley, WV 25271 OIL AND GAS INSPECTOR FOR THIS WORK Richard Morris ADDRESS Box 372 Grantsville, WV PERMIT ISSUED 3/03/82 5-17-84 DRILLING COMMENCED 4/20/82 07/06/84 DRILLING COMPLETED 4/29/82 07/31/84 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cord, 13-10 3/4, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Oriskany Sandstone Depth 5115 feet Depth of completed well 5118 KB feet Rotary X / Cable Tools Water strata depth: Fresh N/A feet; Salt N/A feet Coal seam depths: N/A Is coal being mined in the area? NO

OPEN FLOW DATA Producing formation Devonian Brown Shale Drilled on fluid not known. Pay zone depth 4137-4363 feet Gas: Initial open flow -- Mcf/d Oil: Initial open flow -- Bbl/d Final open flow 237.5 542 Mcf/d Oil: Final open flow -- Bbl/d Time of open flow between initial and final tests 4 hours Static rock pressure 850 psig (surface measurement) after 72 hours shut in (If applicable due to multiple completion--)

Second producing formation Berea Sandstone Pay zone depth 2632-2641 feet Gas: Initial open flow -- Mcf/d Oil: Initial open flow -- Bbl/d Final open flow 305 Mcf/d Oil: Final open flow -- Bbl/d Time of open flow between initial and final tests 4 hours Static rock pressure 1100 psig (surface measurement) after 72 hours shut in

new zones completed 305 238 543 MCF FOS

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

- 7/06/82 Young's to perf Brown Shale with 18 (.39" dia) shots from 4137-4363 ft.
- 7/06/84 Young's to set permanent bridge plug at 4480'.
- 7/13/84 NOWSCO to gas frac the Brown Shale with nitrogen. Broke down well and pumped 200 bbl foam pad followed with 80,000 scf/min of nitrogen. Pressure rose so reduced to 64,000 scf/min. Dropped 10 (7/8" dia) perf balls. After breakdown treated with 80,000 scf/min of nitrogen. Treating pressure: 2600 psig, total nitrogen: 1476 mscf, ISIP: 1400, 5 min SIP: 1350.
- 7/26/84 Young's to perf Berea Sandstone with 20 (.39" dia) shots from 2632' to 2641'.
- 7/31/84 NOWSCO to foam frac Berea. Breakdown pressure: 2820, treating pressure: 2700 psig, used #60,000 of 20/40 sand, total N<sub>2</sub>: 650 mscf, total fluid: 270 bbl, ISIP: 2600 psig, 5 min SIP: 2400 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
See Original					

(Attach separate sheets as necessary)

Kaiser Exploration and Mining Company  
Well Operator

By: R. W. Durr

Date: 12/26/84

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)

Date October 13, 1982

State of West Virginia

Department of Mines  
Oil and Gas Division

Operator's  
Well No. KEM - 104

Farm C. E. Kessel

API No. 47 - JAC - 1585

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

RECEIVED  
MAY 2 - 1984

WELL TYPE: Oil \_\_\_ / Gas x / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ / OIL & GAS DIVISION  
(If "Gas," Production x / Underground Storage \_\_\_ / Deep \_\_\_) DEPT. OF MINES

LOCATION: Elevation: 950 Watershed Kessel Run  
District: Ripley County Jackson Quadrangle Elmwood

COMPANY Kaiser Exploration & Mining Co.

ADDRESS P.O. Box 8, Ravenswood, 26164

DESIGNATED AGENT R.A. Pryce

ADDRESS P.O. Box 8, Ravenswood, 26164

SURFACE OWNER John S. Thaxton

ADDRESS Rt. 5, Box 58, Given, WV 25245

MINERAL RIGHTS OWNER C. E. Kessel, et al

ADDRESS 111 Highlawn Drive, Ripley 25271

OIL AND GAS INSPECTOR FOR THIS WORK Richard

Morris ADDRESS Box 372, Grantsville

PERMIT ISSUED 3/03/82

DRILLING COMMENCED 4/20/82

DRILLING COMPLETED 4/29/82 05/04/82

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		2492	165 sks
5 1/2			
4 1/2		5165	225 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Ss. Depth 5115 feet

Depth of completed well 5188 KB 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 Ss. Pay zone depth 5115-5123 feet

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

Final open flow 500 Mcf/d Final open flow --- Bbl/d

Time of open flow between initial and final tests 6 hours

Static rock pressure 1500 psig (surface measurement) after \_\_\_\_\_ hours shut in

(If applicable due to multiple completion--)

Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet

Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d

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

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

(Continue on reverse side)

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

5/03/82 Oriskany Ss. Perforation 5115-5123 (32 shots)

5/04/82 Oriskany Ss. Frac:  
15000 # 80/100  
45000 # 20/40  
Treatment Pressure = 4000 psig  
Total of 800 bbl water and  
150,000 SCF of N2

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Shale			0	50	
Sandstone			50	100	
Shale and sandstone			100	230	
Shale			230	269	
Sandstone			269	348	
Shale			348	474	
Sandstone			474	627	
Shale			627	776	
Sandstone			776	900	
Shale			900	1240	
Sandstone			1240	1329	
Shale			1329	1381	
Sandstone			1381	1590	
Shale			1590	1790	
Limestone			1790	2132	
Sandstone and shale			2132	2290	
Shale			2290	2612	
Coffee shale			2612	2636	
Berea Ss.			2636	2646	s/g @ 2640
Shale			2646	3858	s/g @ 3513, 3665, 3686, 3741, 3759, 3825
Brown Shale			3858	4362 *	*s/g @ 3900, 3940, 4018, 4138, 4235
Shale			4362	4719	
Marcellus			4719	4990	
Onondaga Ls.			4990	5084	
Oriskany Ss.			5084	5150	s/g @ 5120, 5138
Helderberg			5150	5188	TD

from nearby wells:  
top  
2646  
3858  
4360  
4500  
4719  
4830  
4950  
4990

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY  
Well Operator

By: \_\_\_\_\_  
Date: October 13, 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."



RENEW

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE February 25, 1982

Surface Owner John S. Thaxton  
Address Rt. 5, Bx 58, Given, WV 25245  
Mineral Owner C. E. Kessel, et al  
Address 111 Highlawn Drive, Ripley, WV  
Coal Owner C. E. Kessel, et al  
Address 111 Highlawn Drive, Ripley, WV  
Coal Operator None  
Address \_\_\_\_\_

Company Kaiser Exploration and Mining Company  
Address P. O. Box 8, Ravenswood, WV 26164  
Farm C. E. Kessel Acres 127  
Location (waters) Kessel Run  
Well No. KEM #104 Elevation 950  
District Ripley County Jackson  
Quadrangle Elmwood

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 renewed THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 11-3-82

BY [Signature]

INSPECTOR

TO BE NOTIFIED Richard Morris

ADDRESS P. O. Box 372, Grantsville, WV

PHONE 354-7259

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 July 21, 1980 by C. E. Kessel & Martena Kessel et al Kaiser Exploration and Mining Company and recorded on the 27 day of August 1980 in Jackson County, Book 156 Page 757  
 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

Address  
of  
Well Operator

Very truly yours,

(Sign Name) R. A. Payne / dc

Well Operator

Kaiser Exploration and Mining Company

P. O. Box 8

Street

Ravenswood

City or Town

West Virginia 26164

State

\*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.



PROPOSED WORK ORDER TO X DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME Clint Hurt & Associates, Inc. NAME Robert A. Pryce  
 ADDRESS P. O. Box 388, Elkview, WV 25071 ADDRESS P. O. Box 8, Ravenswood, WV 26164  
 TELEPHONE 273-5371 TELEPHONE 273-5371  
 ESTIMATED DEPTH OF COMPLETED WELL: 5090' 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	250	250	Cement to surface
8 - 5/8			
7	2650	2650	65 sks 50/50 pozmix
5 1/2			100 sks class A
4 1/2	5090	5090	225 sks pozmix
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



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
JUN 17 1981

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION  
OIL & GAS DIVISION  
DEPT. OF MINES

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

Surface Owner John S. Thaxton  
Address Rt. 5, Box 58, Given, WV 25245  
Mineral Owner C. E. Kessel, et al  
Address 111 Highlawn Drive, Ripley, WV  
Coal Owner C. E. Kessel, et al  
Address 111 Highlawn Drive, Ripley, WV  
Coal Operator None  
Address \_\_\_\_\_

DATE June 1, 1981  
Company Kaiser Exploration and Mining Company  
Address P. O. Box 8, Ravenswood, WV 26164  
Farm C. E. Kessel Acres 127  
Location (waters) Kessel Run  
Well No. KEM #104 Elevation 950  
District Ripley County Jackson  
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 3-1-82.

INSPECTOR  
TO BE NOTIFIED Richard Morris  
ADDRESS P. O. Box 372, Grantsville, WV  
PHONE 354-7259

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee  
therein (or as the case may be) under grant or lease dated July 21, 1980 by C. E. Kessel  
Martena Kessel et al Kaiser Exploration and Mining Company made to Mining Company and recorded on the 27 day of August  
80 in Jackson County, Book 156 Page 757  
 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  
and coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the  
\_\_\_\_\_ day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
PHYSICAL LOGS DIRECTLY TO:

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

Very truly yours,

(Sign Name) \_\_\_\_\_  
Well Operator  
Kaiser Exploration and Mining Company  
P. O. Box 8  
Street  
Ravenswood  
City or Town  
West Virginia 26164  
State

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of  
the plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting  
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 Y DRILL DEEPEN FRACTURE STIMULATE  
 DRILLING CONTRACTOR: (If known) Slits West Associates, Inc. RESPONSIBLE AGENT: Robert A. Pope  
 NAME Slits West Associates, Inc. ADDRESS P. O. Box 8, Ravenswood, WV 26164  
 ADDRESS P. O. Box 388, Elkview, WV 25071 TELEPHONE 273-5371  
 ESTIMATED DEPTH OF COMPLETED WELL: 5090' 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	LIFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
8 - 5/8	250	250	Cement to surface
8 - 5/8	2650	2650	65 sks 50/50 pozmix
1/2	5090	5090	100 sks class A
1/2			225 sks pozmix
			Perf. Top
			Perf. Bottom
			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? \_\_\_\_\_

- NO DRILL:  
SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.
  - NO 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.
  - NO 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 hereof.

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



1) Date: April 5, 19 84  
 2) Operator's Well No. KEM #104  
 3) API Well No. 47 - 035 - 1585-FRAC  
 State County Permit

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

- 4) WELL TYPE: A Oil  / Gas  /  
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow  )
- 5) LOCATION: Elevation: 950 Watershed: Kessel Run  
 District: Ripley County: Jackson Quadrangle: Elmwood
- 6) WELL OPERATOR KEMGAS 7) DESIGNATED AGENT R. A. Pryce  
 Address P. O. Box 8 Address Same  
Ravenswood, WV 26164
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Jerry Tephabock Name Clint Hurt  
 Address Rt. 1, Box 101A Address P. O. Box 388  
Ripley, WV 25271 Elkview, WV 25071
- 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate  /  
 Plug off old formation  / Perforate new formation  /  
 Other physical change in well (specify) treat shale and Berea, plug off Oriskany;
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale, Berea Sandstone isolate shale and Berea with packer and tubing
- 12) Estimated depth of completed well, 5188 feet
- 13) Approximate trata depths: Fresh, 160 feet; salt, 750 feet.
- 14) Approximate coal seam depths: None Is coal being mined in the area? Yes  / No  /
- 15) CASING AND TUBING PROGRAM

**RECEIVED**  
 APR 26 1984  
 OIL & GAS DIVISION  
 DEPT. OF MINE

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		Kinds	None
Conductor										
Fresh water	10 3/4" H		40.50	X		255(KB)	255(KB)	100 sks neat		
Coal									Sizes	
Intermediate	7"	K	20	X		2492(KB)	2492(KB)	65 sks pozmix		
Production	4 1/2" N		11.60	X			5165(KB)	100 sks neat		
Tubing	2 3/8"	J	4.6	X			5165(KB)	225 sks pozmix	Depths set	
Liners									Perforations:	
									Top	Bottom
									5115	5123 (KB)

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-035-1585-FRAC Date May 17, 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

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

Permit expires May 17, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond BLANKET	Agent: <u>TS</u>	Plat: <u>T.S</u>	Casing <u>T.S</u>	Fee <u>967-038</u>
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*[Signature]*  
 Administrator, Office of Oil and Gas

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

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
SECTION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, 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.

Farm name: JONES, FORREST E. JR. Operator Well No.: KEM 104

LOCATION: Elevation: 950.00 Quadrangle: ELMWOOD  
District: RIPLEY County: JACKSON  
Latitude: 1700 Feet South of 38 Deg. 45 Min. 0 Sec.  
Longitude 550 Feet West of 81 Deg. 45 Min. 0 Sec.

Well Type: OIL \_\_\_\_\_ GAS  X

Company: Peake Energy Inc.  
P.O. Box 8  
Ravenswood, WV 26164

Coal Operator  N/A   
or Owner \_\_\_\_\_

Agent: Tom Liberatore

Coal Operator  N/A   
or Owner \_\_\_\_\_

Permit Issued: 06/23/97

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of  Jackson  ss:

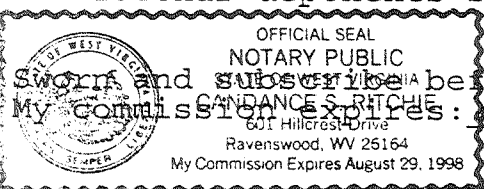
RECEIVED  
WV Division  
Environmental Protection  
JUL 28 1997  
Permitting  
Office of Oil & Gas

Bill Burgess  and  Mike Wine  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 the above named well operator, and participated in the work of plugging and filling the above well, and  Homer Daugherty  Oil and Gas Inspector representing the Director, say that said work was commenced on the  9th  day of  July , 1997, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
6% Gel	4475'	2740'	2740' of 2"	1616'-2"
Class A Cement	2740'	2488'		
6% Gel	2488'	2127'	2127' of 4'6"	3038'-41/2"
Class A Cement	2127'	1946'		
6% Gel	1946'	752'	752' of 7"	1740'-7"
Class A Cement	752'	650'		
6% Gel	650'	355'		
Class A Cement	355'	255'		
6% Gel	255'	62'		265'-10 3/4"
Class A Cement	62'	Surface		

Description of monument:  4' of 4 1/2" pipe above ground level with API  and that the work of plugging and filling said well was completed on the  11th  day of  July , 1997.

And further deponents saith not.



Sworn and subscribed before me this  11  day of  July , 1997  
My Commission Expires:  August 29, 1998

Bill Burgess   
 Michael Wine   
day of  July , 1997  
 Candace S. Ritchie   
Notary Public

Oil and Gas Inspector:  H. H. Daugherty