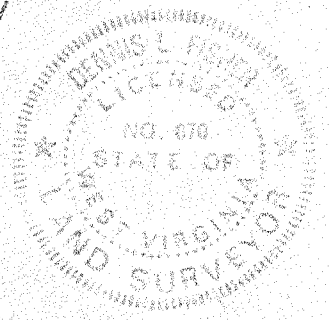


[SURFACE: GRANT DONOHEW
 MINERAL: GRANT DONOHEW]



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 Dennis L. Fisher LLS No 670

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY KAISER EXPLORATION & MINING COMPANY
 ADDRESS PO BOX #8, RAVENSWOOD, WEST VIRGINIA 26164
 FARM GRANT DONOHEW
 MAP _____ ACRES 438.8 LEASE NO. _____
 WELL (FARM) NO. _____ SERIAL NO. KEM 67
 ELEVATION (SPIRIT LEVEL) 865
 QUADRANGLE RIPLEY - 7.5 MIN.
 COUNTY JACKSON DISTRICT RIPLEY
 POINT OF PROVEN ELEVATION SPOT ELEV. 782, INTERSECTION
OF W. VA. RTE. 21 & 2126
 FILE NO. _____ DRAWING NO. REV. 2
 DATE MARCH 13, 1981 SCALE 1" = 1000'

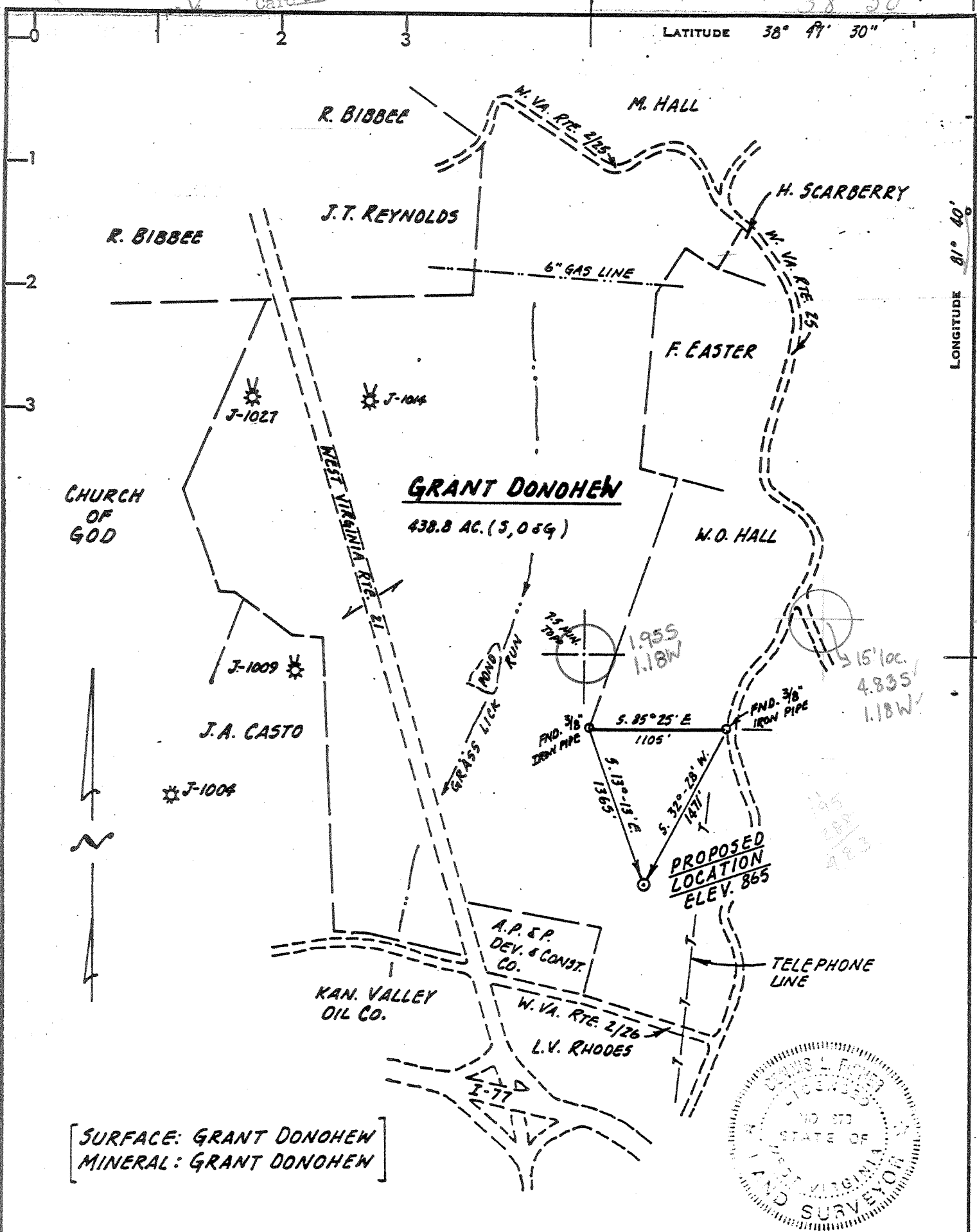
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP
 FILE NO. 035-1560-Rev
Frac Rev
 APR 08 1985

+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 TO 62500. LATITUDE AND LONGITUDE BEING REPRESENTED BY BORDER LINES AS SHOWN.
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

DEEP WELL OWNED BY 6-6 ELK-Pocahontas (192)

Card OSD

6,200' 38° 50' LATITUDE 38° 47' 30" LONGITUDE 81° 40' 10 400'



SURFACE: GRANT DONOHEW
MINERAL: GRANT DONOHEW

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 Dennis L. Fisher LLS No 670

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY KAISER EXPLORATION & MINING COMPANY
 ADDRESS PO BOX #8, RAVENSWOOD, WEST VIRGINIA 26164
 FARM GRANT DONOHEW
 MAP _____ ACRES 438.8 LEASE NO. _____
 WELL (FARM) NO. _____ SERIAL NO. KEM 67
 ELEVATION (SPIRIT LEVEL) 865
 QUADRANGLE RIPLEY - 7.5 MIN. SW
 COUNTY JACKSON DISTRICT RIPLEY
 POINT OF PROVEN ELEVATION SPOT ELEV. 782, INTERSECTION OF W. VA. RTE. 21 & 2/26
 FILE NO. _____ DRAWING NO. REV. 2
 DATE MARCH 13, 1981 SCALE 1" = 1000'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP
 FILE NO. 035-1560-Rev.
 + DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 TO 24,000. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

deep well

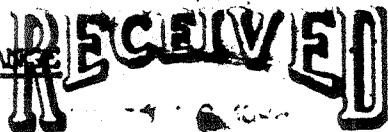
52251 Crickany
6-6 Elk. Poca (Bissonville) (192)
MARCH 07 1981



Date June 25, 1985
 Operator's Well No. KEM 067
 Farm Donohew
 API No. 47 - 035 - 1560 REN
 FRAC

State of West Virginia
 DEPARTMENT OF ENERGY
 Department of Mines
 Oil and Gas Division

WELL OPERATOR'S REPORT
 OF
 DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE



WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
 (If "Gas," Production / Underground Storage / Deep)

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

LOCATION: Elevation: 865' Watershed Grasslick Run
 District: Ripley County Jackson Quadrangle Ripley

COMPANY Kaiser Exploration and Mining Co.

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

DESIGNATED AGENT R. A. Pryce

ADDRESS Same

SURFACE OWNER Grant Donohew

ADDRESS S. Church Street, Ripley, WV 25271

MINERAL RIGHTS OWNER Same

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Jerry

Tephabock ADDRESS Rt. 1, Ripley, WV 25271

PERMIT ISSUED 3/16/82

DRILLING COMMENCED 6/1/82

DRILLING COMPLETED 6/8/82 (6/21/85) FRAC

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 Cord. | | | |
| 13-10 ^{3/4} | | 255' | 150 sks |
| 9 5/8 | | | |
| 8 5/8 | | | |
| 7 | | 2384' | 165 sks |
| 5 1/2 | | | |
| 4 1/2 | | 5205' | 220 sks |
| 3 | | | |
| 2 | | | |
| Liners used | | | |

GEOLOGICAL TARGET FORMATION Oriskany Sandstone Depth 5034 feet

Depth of completed well 5246 feet Rotary / Cable Tools _____

Water strata depths: Fresh N/A feet; Salt _____ feet

Coal seam depths: NONE Is coal being mined in the area? NO

Drilled on fluid not known.

OPEN FLOW DATA

Producing formation Brown Shale Pay zone depth 4120-4360 feet

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

*Final open flow 367 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 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation Berea Pay zone depth 2550-2560 feet

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

*Final open flow 367 Mcf/d Oil: Final open flow -- Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 600 psig (surface measurement) after 24 hours shut in

*Commingled

(Continue on reverse side)

SEP 30 1985

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

- 6/11/82 Perf Oriskany @ 5141' - 5145' & 5162' - 5109', 45 holes.
- 6/15/82 Frac Oriskany sand: 15,000# 20/100, 45,000# 20/40, treating pressure: 3650 psig, ISIP: 3500 psig, total fluid: 808 bbl water, total N₂: 158,000 scf.
- 4/02/85 Young's perf Brown Shale, 20 shots @ 4120' - 4360'. Set permanent bridge plug @ 4530'.
- 4/09/85 Halliburton to 75% quality frac Brown Shale. Treating pressure: 2440 psig, total N₂: 658 mcf, total sand laden fluid: 263 bbl, total fluid: 342 bbl, ISIP: 1560 psig, 5 min SIP: 1330 psig.
- 6/18/85 Young's perf Berea, 30 shots @ 2550' - 2560'. Set big mouth frac plug @ 2660'.
- 6/21/85 Halliburton to 75% quality foam frac Berea. Treating pressure: 2616 psig, sand: 60,000# 20/40, total N₂: 641,000 scf, total sand laden fluid: 334 bbl, total fluid: 259 bbl, ISIP: 2350 psig, 5 min SIP: 2300 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 |
| SAME AS PREVIOUSLY SUBMITTED | | | | | |

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY
 Well Operator
 By: R. A. P.
 Date: June 25, 1985

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."



Date October 21, 1982
Operator's
Well No. KEM - 67
Farm Grant Donohew
API No. 47 - 035 - 1560
-REN

RECEIVED

State of West Virginia

Department of Mines
Oil and Gas Division

JAN 25 1984

WELL OPERATOR'S REPORT

OIL & GAS DIVISION OF
~~DRILLING, FRACTURING, OR STIMULATING, OR PHYSICAL CHANGE~~
DEPT. OF MINES

RECEIVED

JAN 16 1984

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
(If "Gas," Production X / Underground Storage ___ / Deep Shallow Wells)

LOCATION: Elevation: 865 Watershed Grasslick Creek
District: Ripley County Jackson Quadrangle Ripley

COMPANY Kaiser Exploration & Mining Co.

ADDRESS P. O. Box 8, Ravenswood 26162

DESIGNATED AGENT R. A. Pryce

ADDRESS P. O. Box 8, Ravenswood, 26164

SURFACE OWNER Grant Donohew

ADDRESS South Church St, Ripley, 25271

MINERAL RIGHTS OWNER Same

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Richard Morris
ADDRESS Box 372, Grantsville

PERMIT ISSUED 3/16/82

DRILLING COMMENCED 6/01/82

DRILLING COMPLETED 6/08/82

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' | 150 sks |
| 9 5/8 | | | |
| 8 5/8 | | | |
| 7 | | 2384' | 165 sks |
| 5 1/2 | | | |
| 4 1/2 | | 5205' | 220 sks |
| 3 | | | |
| 2 | | | |
| Liners used | | | |

GEOLOGICAL TARGET FORMATION Oriskany Ss Depth 5034 feet

Depth of completed well 5246 feet Rotary X / Cable Tools _____

Water strata depth: Fresh _____ feet; Salt _____ feet

Coal seam depths: n/a Is coal being mined in the area? No

Drilled on fluid - not known

OPEN FLOW DATA

Producing formation Oriskany Ss Pay zone depth 5141-5169 feet

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

Final open flow 90 Mcf/d Final open flow -- Bbl/d

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

Static rock pressure 1000 psig (surface measurement) after 96 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

FEB 06 1984

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

6/11/82 Oriskany Ss Perforation:
5141-5149 and 5162-5169
45 holes, 0.38" in diameter

6/15/82 Oriskany Ss Frac:
15,000 # 80/100 sand
45,000 # 20/40 sand
Treatment pressure = 3650 psig
ISIP = 3500 psig
Total of 808 bbl of water and
158,000 SCF of N₂ used

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 | 300 | |
| Sandstone and Shale | | | 300 | 1740 | |
| Limestone | | | 1740 | 2065 | |
| Sandstone and Shale | | | 2065 | 2195 | |
| Shale | | | 2195 | 2535 | |
| Coffee shale | | | 2535 | 2558 | |
| Berea Ss | | | 2558 | 2568 | |
| Shale | | | 2568 | 3803 | |
| Brown shale | | | 3803 | 4360 | s/g at 4350 |
| Shale | | | 4360 | 4739 | |
| Marcellus <i>Thin bedded + blue</i> | | | 4739 | 5034 | |
| Onondaga Ls | | | 5034 | 5090 | |
| Oriskany Ss | | | 5090 | 5184 | s/g at 5150, 5166 |
| Helderberg | | | 5184 | 5246 | T.D. |

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY

Well Operator

By: R. A. P.

Date: October 21, 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."

FILE COPY
RECEIVED
MAR 29 1985



1) Date: March 22, 1985
2) Operator's Well No. KEM 67
3) API Well No. 47 035 - 1560-FRAC
State County Permit

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

- 4) WELL TYPE: A Oil / Gas /
B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 865' Watershed: Grasslick Creek
District: Ripley County: Jackson Quadrangle: Ripley
- 6) WELL OPERATOR Kaiser Exploration and Mining Co. 7) DESIGNATED AGENT R. A. Pryce
Address P. O. Box 8 25550 Address Same
Ravenswood, WV 26164
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Jerry Tephabock
Address Rt. 1, Box 101A
Ripley, WV 25271
- 9) DRILLING CONTRACTOR: Name Unknown
Address _____
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
Plug off old formation / Perforate new formation / Set permanent plug above *oishony*
Other physical change in well (specify) Squeeze casing; treat Berea and shale
- 11) GEOLOGICAL TARGET FORMATION, Berea
12) Estimated depth of completed well, 5205' feet
13) Approximate trata depths: Fresh, _____ feet; salt, _____ feet.
14) Approximate coal seam depths: None Is coal being mined in the area? Yes _____ / No

15) CASING AND TUBING PROGRAM

| CASING OR TUBING TYPE | SPECIFICATIONS | | | | | FOOTAGE INTERVALS | | CEMENT FILL-UP OR SACKS (Cubic feet) | PACKERS |
|-----------------------|----------------|-------|----------------|-----|------|-------------------|--------------|--------------------------------------|------------------------------------|
| | Size | Grade | Weight per ft. | New | Used | For drilling | Left in well | | |
| Conductor | | | | | | | | | Kinds |
| Fresh water | 10 3/4" | | | | | 255 | 255 | 150 sks | |
| Coal | | | | | | | | | Sizes |
| Intermediate | 7" | | | | | 2384 | 2384 | 165 sks | |
| Production | 4 1/2" | | | | | 5205 | 5205 | 220 sks | Depths set <u>By Rule 15.01</u> |
| Tubing | | | | | | | | | Perforations: |
| Liners | | | | | | | | | Top Bottom |

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-035-1560-FRAC Date March 29, 19 85

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 March 29, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

| | | | | |
|-----------|-----------|------------------|--------|---------------|
| Bond: | Agent: | Plat: | Casing | Fee |
| <u>86</u> | <u>SW</u> | <u>Opt. Opt.</u> | | <u>968721</u> |

Jerry Tephabock
Administrator, Office of Oil and Gas

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

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

File



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

MAR - 2 1981

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE February 26, 1981

Surface Owner Grant Donohew
Address South Church Street, Ripley, WV 25271
Mineral Owner Grant Donohew
Address South Church Street, Ripley, WV 25271
Coal Owner Same
Address Same
Coal Operator None
Address _____

Company Kaiser Exploration and Mining Company
Address P. O. Box 8, Ravenswood, WV 26164
Farm Grant Donohew Acres 438.8
Location (waters) Grass Lick Run
Well No. KEM #67 Elevation 851'
District Ripley County Jackson
Quadrangle Ripley

PERMIT MUST BE POSTED AT THE WELL SITE

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 11-9-81

Fred Burnett
Deputy Director - Oil & Gas Division

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 October 8 19 80 by Grant and Naomi Donohew made to Kaiser Exploration and Mining Co. and recorded on the 5th day of November 19 80 in Jackson County, Book 157 Page 681

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) D. A. P.

D. A. P.
Well Operator
KAISER EXPLORATION AND MINING COMPANY
P. O. Box 8
Street
Ravenswood
City or Town
West Virginia 26164
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

47-035-1560

DEPT. OF MINES

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 Clint Hurt & Associates, Inc. NAME R. A. Pryce
 ADDRESS P. O. Box 388, Elkview, WV ADDRESS P. O. Box 8, Ravenswood, WV 26164
 TELEPHONE 344-2401 TELEPHONE 273-5371
 ESTIMATED DEPTH OF COMPLETED WELL: 5225' 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 10 3/4" | 250' | 250' | 150 sks class A |
| 9 - 5/8 | | | |
| 8 - 5/8 | | | |
| 7 | 2575' | 2575' | 65 sks 50/50 pozmix 80 sks class A |
| 5 1/2 | | | |
| 4 1/2 | 5225' | 5225' | 225 sks 50/50 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

RENEWAL

MAR - 5 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE March 5, 1982

Surface Owner Grant Donohew

Company Kaiser Exploration and Mining Company

Address South Church Street, Ripley, WV 25271

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

Mineral Owner Same

Farm Grant Donohew Acres 438.8

Address _____

Location (waters) Grasslick Run

Coal Owner Same

Well No. KEM #67 Elevation 865

Address _____

District Ripley County Jackson

Coal Operator None

Quadrangle Ripley

Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE.

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,

INSPECTOR

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

TO BE NOTIFIED Richard Morris

APPROVED FOR drilling renewed THIS PERMIT SHALL EXPIRE

ADDRESS P. O. Box 372, Grantsville, WV

OPERATIONS HAVE NOT COMMENCED BY 11-16-82

PHONE 354-7259

[Signature]

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 October 8, 1980 by Grant and Naomi Donohew made to Kaiser Exploration & Mining Co. and recorded on the 5th day of November 1980 in Jackson County, Book 157 Page 681

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) D. A. P.

Well Operator
Kaiser Exploration and Mining Company
P. O. Box 8

Address
of
Well Operator

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 thereo by the department and that the same is approved and the well operator authorized to proceed.

MARKET BOND

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, Elview, WV ADDRESS P. O. Box 8, Ravenswood, WV
 TELEPHONE 344-2401 TELEPHONE 273-5371
 ESTIMATED DEPTH OF COMPLETED WELL: _____ 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 | | | |
| 9 - 5/8 10 3/4" | 250 | 250 | 150 sks class A to surface |
| 8 - 5/8 | | | |
| 7 | 2589 | 2589 | 65 sks 50/50 pozmix |
| 5 1/2 | | | 100 sks class A |
| 4 1/2 | 5239 | 5239 | 225 sks 50/50 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? _____ 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