

FILE NO. _____
 DRAWING NO. REV. 1
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION HALL KNOB ELEV. 1096 S.W. OF PROPOSED 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) Thomas 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)

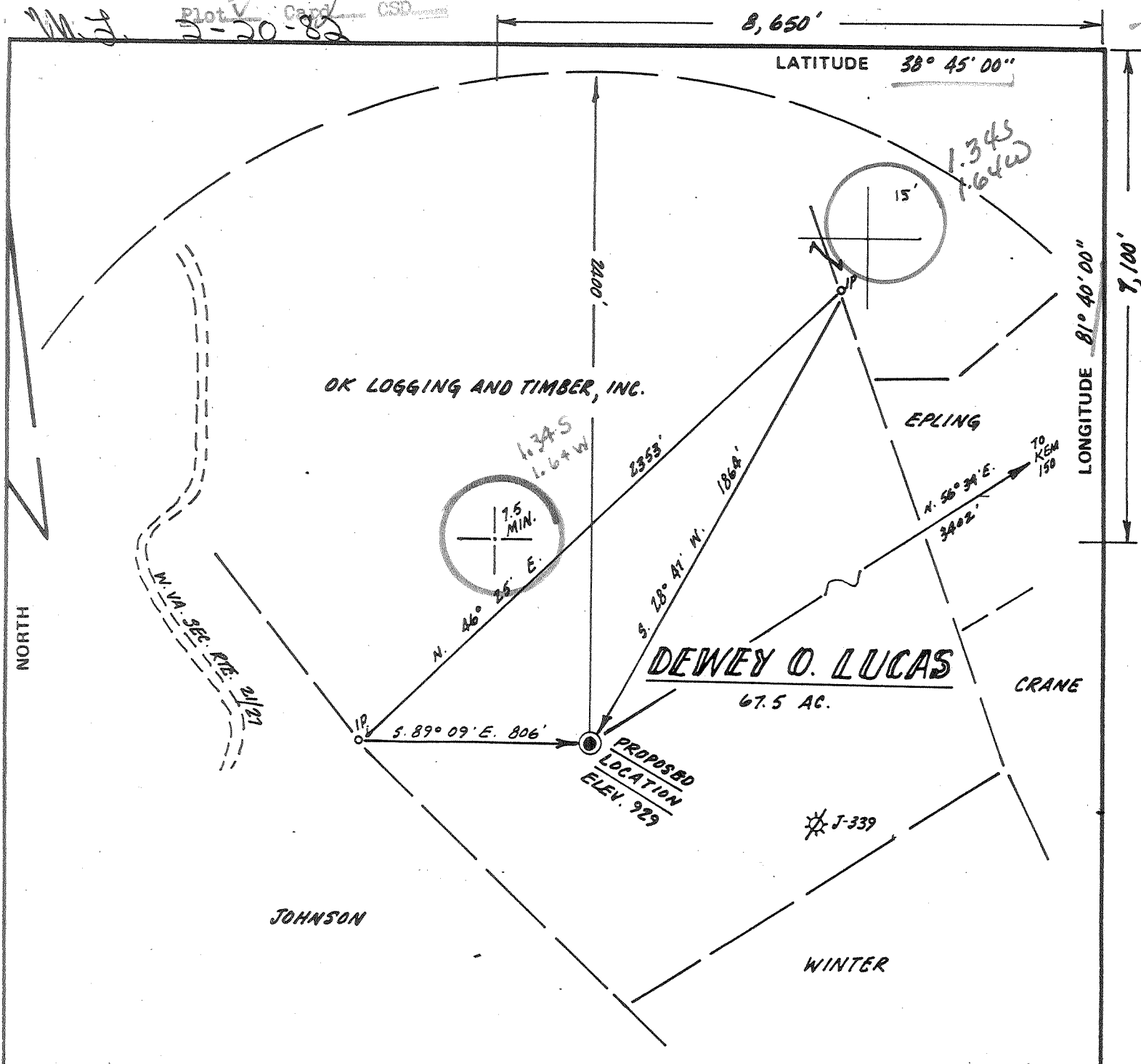


DATE FEBRUARY 8, 19 82
 OPERATOR'S WELL NO. KEM 151
 API WELL NO. _____
47 - 035 - 1649-PP
 STATE COUNTY PERMIT Frac.

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION ELEVATION 929 WATER SHED COLEMAN BRANCH
 DISTRICT RIPLEY COUNTY JACKSON
 QUADRANGLE KENNA (7.5) KENNA (15)
 SURFACE OWNER DEWEY O. LUCAS ACREAGE 67.5
 OIL & GAS ROYALTY OWNER DEWEY O. LUCAS LEASE ACREAGE 67.5
 LEASE NO. _____
 PROPOSED WORK. DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION X PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION DRISKANY ESTIMATED DEPTH 5295'
 WELL OPERATOR KAISER EXPLORATION & MINING DESIGNATED AGENT KAISER EXPLORATION & MINING COMPANY
 ADDRESS PO BOX 8, RAVENSWOOD, WEST VIRGINIA 26164 ADDRESS PO BOX 8, RAVENSWOOD, WEST VIRGINIA 26164
OWWD - DEEP WELL 646 Elk-Poca (Sissonville) (192)

MAY 21 1984



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(SIGNED) Dennis L. Fisher
 R.P.E. _____ L.L.S. 670

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



DATE FEBRUARY 8, 19 82
 OPERATOR'S WELL NO. KEM 151
 API WELL NO. 47 - 035 - 1649
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 929 WATER SHED COLEMAN BRANCH
 DISTRICT RIPLEY COUNTY JACKSON
 QUADRANGLE KENNA (7.5) KENNA (15) NW0
 SURFACE OWNER DEWEY O. LUCAS ACREAGE 67.5
 OIL & GAS ROYALTY OWNER DEWEY O. LUCAS LEASE ACREAGE 67.5
 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 ORISKANY ESTIMATED DEPTH 5295'
 WELL OPERATOR KAISER EXPLORATION & MINING DESIGNATED AGENT KAISER EXPLORATION & MINING COMPANY
 ADDRESS PO BOX 8, RAVENSWOOD, WEST VIRGINIA 26164 ADDRESS PO BOX 8, RAVENSWOOD, WEST VIRGINIA 26164

deep well 6-6 Elk-Poca (Sissonville) (192)

V-35
REV 8-81)

RECEIVED
JAN 25 1984

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date October 21, 1982
Operator's
Well No. KEM - 151
Farm Dewey Lucas
API No. 47 - 035 - 1649

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

RECEIVED
JAN 10 1984

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow ___) OIL & GAS DIVISION
3

LOCATION: Elevation: 929 Watershed Coleman Branch
District: Ripley County Jackson Quadrangle Kenna

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 Dewey O. Lucas

ADDRESS 1442 Madison St., Charleston

MINERAL RIGHTS OWNER Same

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Richard

Morris ADDRESS Box 372, Grantsville

PERMIT ISSUED 2/23/82

DRILLING COMMENCED 4/21/82

DRILLING COMPLETED 4/29/82

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"		498'	200 sks
9 5/8			
8 5/8			
7		2418'	165 sks
5 1/2			
4 1/2		5286'	170 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Ss Depth 5189 KB feet

Depth of completed well 5327 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

* Drilled on fluid - not known

OPEN FLOW DATA

Producing formation Oriskany Ss Pay zone depth 5216-5241 feet

Gas: Initial open flow 16 Mcf/d Oil: Initial open flow -- Bbl/d

Final open flow est. 300 Mcf/d well making too much fluid to test Final open flow -- Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1600 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)

EB 0 6 1984

DETAILS OF INTERVALS, MEASUREMENTS OR STIMULATING, PHYSICAL CHANGE, ETC.

5/03/82 Oriskany Ss Perforation:
5216-5224 and 5233-5241
64 holes 0.41" in diameter

5/25/82 Oriskany Ss Frac:
60,000 # of 20/40 sand
Treatment pressure = 3900 psig
Shut-in pressure = 3400 psig
Total of 840 bbl water and
170,000 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	59	From kb
Sandstone			59	110	
Shale			110	184	
Siltstone			184	325	
Sandstone and Shale			325	700	
Sandstone			700	810	
Sandstone and Shale			810	1070	
Shale			1070	1216	
Little Dunkard Sand			1216	1315	
Shale			1315	1362	
Big Dunkard Sand			1362	1765	
Salt Sands			1765	2045	
Big Lime (Greenbrier)			2045	2118	
Shale			2118	2147	
Big Injund Sand			2147	2225	
Shale			2225	2628	2606
Coffee Shale			2606	2640	left out a line
Berea Sandstone			2628	3880	s/g @4421
Shale			2640	4433	
Brown Shale			3880	4811	
Shale			4433	5114	
Marcellus			4311	5160	
Onondaga Limestone			5114	5260	s/g @5129
Oriskany Sandstone			5160	5327	T.D.
Helderberg			5260		
Oriskany			5216		
Helderberg			5242		

→ VUBETHAS ←
 Shale 2225-2606
 Coffee 2606-2628
 Berea 2628-2640
 Shale 2640-3880
 Brown shale 3880-4433
 Shale 4433-4811
 Marcellus 4811-5114
 Onondaga 5114-5160
 Orisk 5160-5260
 Helderberg 5260-5327
 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 those encountered in the drilling of a well."



Date June 5, 1985
 Operator's WELL No. KEM 151
 Farm Dewey Lucas
 API No. 47-035-1649 ERAC

RECEIVED

JUN 19 1985

W. VA. OIL & GAS
 CONSERVATION COMMISSION

State of West Virginia
 Department of Mines
 Oil and Gas Division

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 /)

LOCATION: Elevation: 929 ^{939 E} G Watershed Coleman Branch
 District: Ripley County Jackson Quadrangle Kenna

COMPANY Kaiser Exploration & Mining Co.

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

DESIGNATED AGENT R. A. Pryce

ADDRESS Same

SURFACE OWNER Dewey Lucas

ADDRESS 1442 Madison St., Charleston, WV

MINERAL RIGHTS OWNER Same

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Jerry

Tephabock ADDRESS Ripley, WV 25271

PERMIT ISSUED 2/23/82

DRILLING COMMENCED 4/21/82

DRILLING COMPLETED 4/29/82 4/23/85 ERAC

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 ^{3/4}		498' KB	200 sks class A
9 5/8			
8 5/8			
7		2418' KB	165 sks
5 1/2			
4 1/2		5286' KB	170 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Sandstone Depth 5189 feet

Depth of completed well 5327 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

*Plugged. Drilled on fluid not known.

OPEN FLOW DATA

Producing formation Berea Sandstone Pay zone depth 2622-2632 feet

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

Final open flow 1020 Mcf/d Final open flow -- Bbl/d

Time of open flow between initial and final tests 4 hours

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

(If applicable due to multiple completion--)

Second producing formation Brown Shale Pay zone depth 4186-4424 feet

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

Final open flow 812 Mcf/d Oil: Final open flow -- Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 950 psig (surface measurement) after -- hours shut in

(Continue on reverse side)

SEP 09 1985

1020
812
1832
MCF
POP

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

4/18/85 Young's perf Berea @ 2622-2632 feet, 30 perfs (.39"), 3 holes/ft. Set frac plug @ 2700'.

4/23/85 NOWSCO to 75% quality foam frac Berea Sandstone. Breakdown pressure: 3000 psig; treating pressure: 2550 psig; fractured zone with 60,000# of 20/40 sand @ 4 - 10 ppg concentrations; total nitrogen: 702,500 scf; total sand laden fluid: 199 bbl; total fluid: 291 bbl; ISIP: 2250 psig; 5 min SIP: 2030 psig. Flow back through 1/2" plug.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	<u>REMARKS</u> 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: E. A. P.

Date: June 5, 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."



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 8, 1982

Surface Owner Dewey O. Lucas

Company Kaiser Exploration and Mining Company

Address 1442 Madison Street, Charleston, WV

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

Mineral Owner Same

Farm Dewey O. Lucas Acres 67.5

Address _____

Location (waters) Coleman Branch

Coal Owner Same

Well No. KFM 151 Elevation 929'

Address _____

District Ripley County Jackson

Coal Operator None

Quadrangle Kenna

Address _____

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 10-23-82

INSPECTOR

TO BE NOTIFIED Richard Morris

ADDRESS P. O. Box 372, Grantsville, WV

PHONE 354-7259

[Signature]
Deputy Director - Oil & Gas Division

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 June 17th 1980 by Carlos L. & Adrenna M. Epling made to Kaiser Exploration and Mining Company and recorded on the 10th day of March 1981, in Jackson County, Book 159 Page 572

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.

Very truly yours,

(Sign Name) _____

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

Address
of
Well Operator

_____ Street

Ravenswood

City or Town

West Virginia 26164

State

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

*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 there 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 Unknown 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: 5295' _____ 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 <u>CTS</u>
8 - 5/8			
7	2500'	2500'	65 sks 50/50 pozmix <u>CTS</u>
5 1/2			100 sks class A
4 1/2	5295'	5295'	225 sks class A <u>or es</u>
3			Perf. Top <u>reg by rule 15.01</u>
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

FILE COPY RECEIVED



1) Date: April 4, 19 84
 2) Operator's Well No. KEM-151
 3) API Well No. 47 - 035 - 1649 - FRA
 State County Permit

APR 18 1984

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

4) WELL TYPE: A Oil / Gas X /
 B (If "Gas", Production X / Underground storage / Deep / Shallow X /)
 5) LOCATION: Elevation: 929' Watershed: Coleman Branch
 District: Ripley County: Jackson Quadrangle: Kenna
 6) WELL OPERATOR KEM GAS Kaiser Exploration & Mining Co. 7) DESIGNATED AGENT same R.A. Pryce
 Address P. O. Box 8 Ravenswood, WV 26164 Address
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name J. Tephobck 9) DRILLING CONTRACTOR:
 Address Ripley, WV 25271 Name Kaiser Drilling Rig #1
 Address Ravenswood, WV 26164

10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate X /
 Plug off old formation / Perforate new formation X /
 Other physical change in well (specify) Squeeze 4 1/2" csg; treat Berea; isolate Berea,
 11) GEOLOGICAL TARGET FORMATION, Berea Sandstone Shale with tubing and packer
 12) Estimated depth of completed well, 4480 (PBD) feet
 13) Approximate trata depths: Fresh, 220' feet; salt, 800' feet.
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes / No X

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 <u>None</u>
Fresh water	<u>10 3/4</u>	<u>H</u>	<u>32.75</u>	<u>X</u>		<u>498' (KB)</u>	<u>498' (KB)</u>	<u>200 sks Neat</u>	Sizes <u>-</u>
Coal								<u>65 sks pm mix</u>	
Intermediate	<u>7"</u>	<u>K</u>	<u>.20</u>	<u>X</u>		<u>2418' (KB)</u>	<u>2418' (KB)</u>	<u>100 sks Neat</u>	
Production	<u>4 1/2"</u>	<u>N</u>	<u>11.60</u>	<u>X</u>			<u>5286' (KB)</u>	<u>170 sks pm mix set</u>	
Tubing									Perforations:
Liners									Top Bottom
									<u>4186' 4424' (KB)</u>

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-035-1649-FRAC Date May 14, 1984

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 14, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>MH</u>	Plat: <u>TS</u>	Casing: <u>TS</u>	Fee: <u>966 830</u>
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[Signature]
 Administrator, Office of Oil and Gas

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