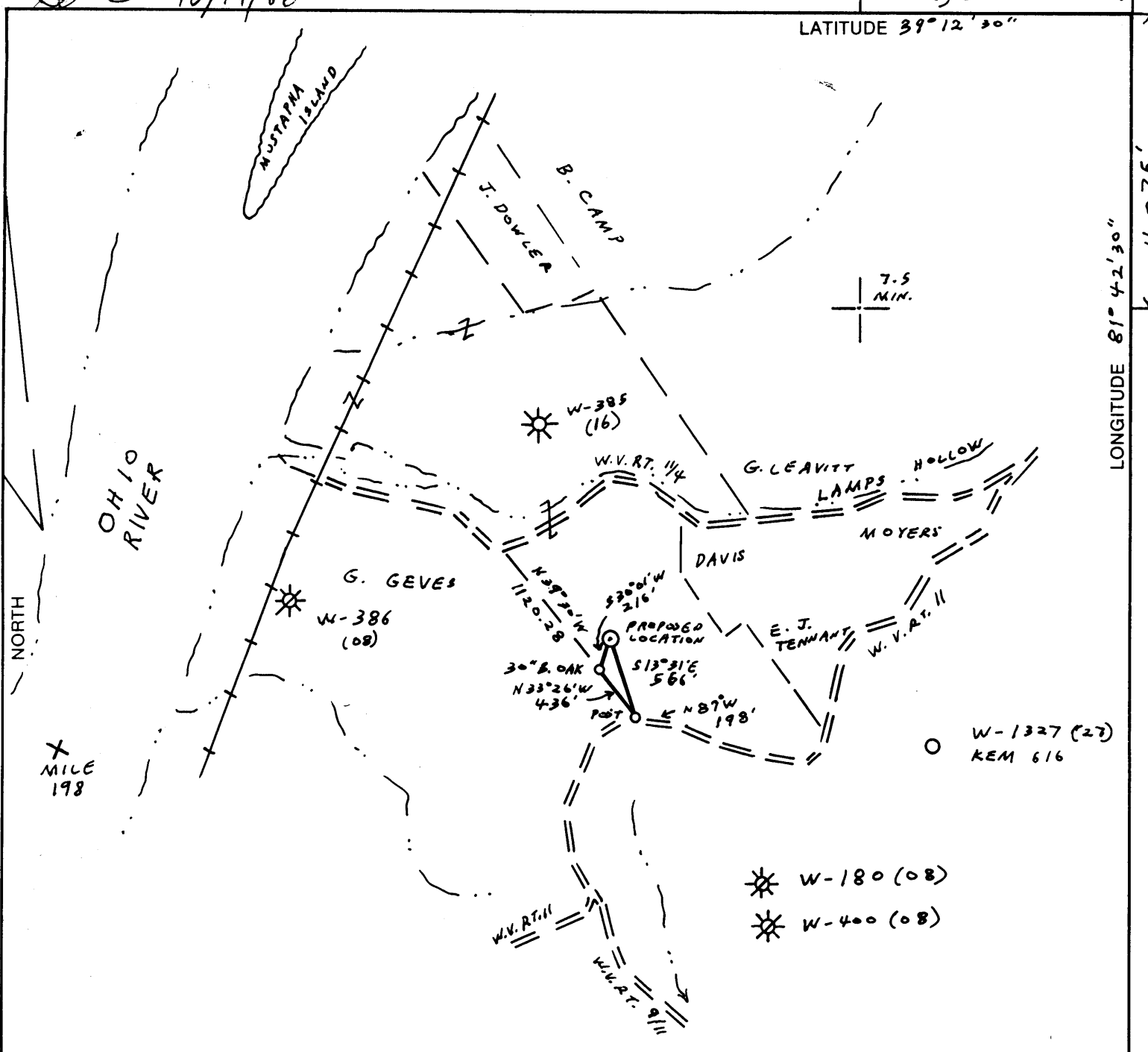


SJB 10/14/86

3,800'

LATITUDE 39°12'30"

LONGITUDE 81°42'30"



REFERENCE POINTS:
 S30°01'W 216' TO 30" B.OAK
 S76°55'E 106' TO 24" MAPLE

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

N 19 E 6

FILE NO. 8-43
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION INTER. RT. 1/4 RT. II ELEV. 744, 8,790'S.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) Vincent W. Wood
 R.P.E. _____ L.L.S. 664

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE NOVEMBER 25, 19 85
 OPERATOR'S WELL NO. KEM 663
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 830 WATERSHED LAMPS HOLLOW
 DISTRICT HARRIS COUNTY WOOD
 QUADRANGLE LUBECK
 SURFACE OWNER ONEIDA COAL CO. INC. ACREAGE 130
 OIL & GAS ROYALTY OWNER ONEIDA COAL CO. INC., ETAL. LEASE ACREAGE 130
 LEASE NO. 86-07-0238

COUNTY NAME WOOD

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) _____

PERMIT 1405

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION DEVONIAN HURON SHALE ESTIMATED DEPTH 2083' MAR 10 1989

WELL OPERAT Peake Energy, Inc. DESIGNATED John V. McCallister, AGent
 ADDRESS P. O. Box 8 Ravenswood, WVa. 26164 ADDRESS PH: 304-273-5371

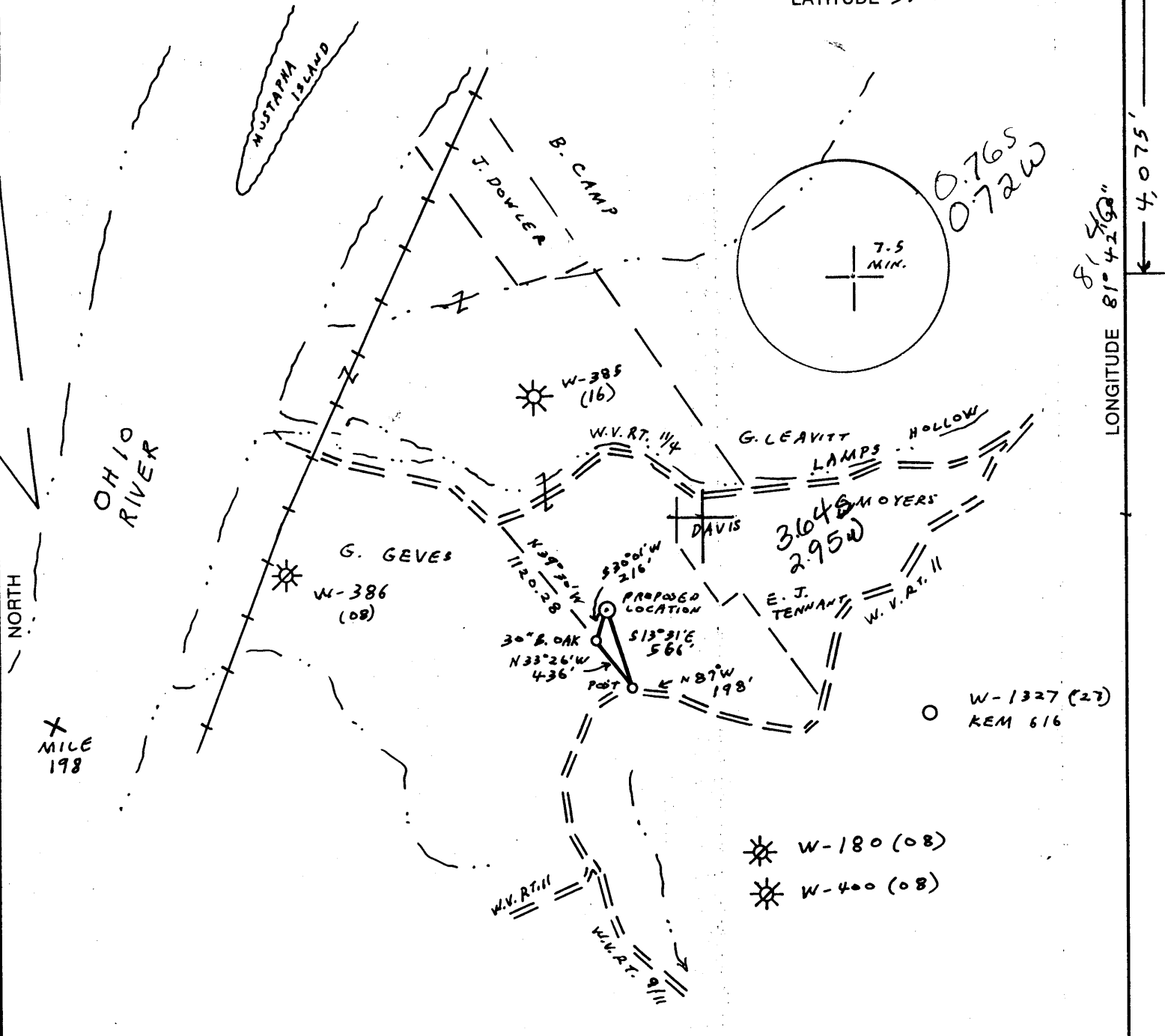
FORM IV-6 (8-78) H.T. HALL

JFB 10/14/86

3,800' 15"

LATITUDE 39° 12' 30"

LONGITUDE 81° 42' 50"



REFERENCE POINTS:
 S 30° 01' W 216' TO 30° B. OAK
 S 76° 55' E 106' TO 24" MAPLE

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

N 19 E 6

FILE NO. 8-43
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION INTER. RT. 1/5 & RT. II ELEV. 744, 8,790' S.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) Vincent W. Wood
 R.P.E. _____ L.L.S. 664



PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE NOVEMBER 25, 1985
 OPERATOR'S WELL NO. KEM 663
 API WELL NO.

47-107-1405
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 830 WATER SHED LAMPS HOLLOW
 DISTRICT HARRIS COUNTY WOOD
 QUADRANGLE LUBECK 449 009 NW, Belleville
 SURFACE OWNER ONEIDA COAL CO. INC. ACREAGE 130
 OIL & GAS ROYALTY OWNER ONEIDA COAL CO. INC., ET AL. LEASE ACREAGE 130
 LEASE NO. 86-07-0238

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) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION DEVONIAN HURON SHALE ESTIMATED DEPTH 2083'
 WELL OPERATOR KAISER EXPLORATION & MINING CO. DESIGNATED AGENT R.A. PRYCE
 ADDRESS P.O. Box B, RAVENSWOOD, W.V. 26164 ADDRESS P.O. Box B, RAVENSWOOD, W.V. 26164

OCT 27 1985

COUNTY NAME PERMIT

FORM IV-6 (8-78) H.T. HALL

FERC
12/31/86



IV-35
(Rev 8-81)

Date November 17, 1986
Operator's
Well No. KEM #663
Farm Oneida Coal Co.
API No. 47 - 107 - 1405

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 X /)

LOCATION: Elevation: 830' Watershed Lamps Hollow
District: Harris County Wood Quadrangle Lubeck

COMPANY KAISER EXPLORATION AND MINING COMPANY

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

DESIGNATED AGENT R. A. Pryce

ADDRESS Same

SURFACE OWNER Oneida Coal Co.

ADDRESS Rt. 1 Box 72, Sutton, WV 26601

MINERAL RIGHTS OWNER same

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Glen

Robinson ADDRESS #6 Mt. Pleasant Est.,

PERMIT ISSUED 10/20/86 Mineral Wells, WV

DRILLING COMMENCED 10/24/86

DRILLING COMPLETED 11/03/86

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7	7"	341	130 sks Class A
5 1/2			
4 1/2	4 1/2"	2079	180 sks 50/50 ps
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Berea Sandstone Depth 2088' feet

Depth of completed well 2088' feet Rotary X / Cable Tools _____

Water strata depth: Fresh _____ feet; Salt _____ feet

Coal seam depths: _____ Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Berea Sandstone Pay zone depth 2021 - 2023 feet

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

Final open flow 200 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 650 psig (surface measurement) after 72 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

APR 27 1987 (Continue on reverse side)

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

- 11/11/86 Gearhart perforated Berea Sandstone from 2021' to 2023' w/16 shots.
- 11/13/86 NOWSCO 75% foam frac Berea Sandstone with 45,000# 20/40 sand ;
15,000# 10/20 sand; 580,000 SCF N₂; 306 bbl fluid @ 1470 psig;
ISIP: 1050 psig; 5 MIN SIP: 980 psig.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fre and salt water, coal, oil and g
Shale			0	212	
Sand			212	250	
Shale			250	513	
Sand			513	610	
Shale and Siltstone			610	1100	
Dunkard Sands			1100	1280	
Shale			1280	1374	
Sand			1374	1430	
Shale			1430	1510	
Salt Sands			1510	1708	
Shale			1708	2004	
Coffee Shale (Sunbury)			2004	2021	
Berea Sand			2022	2026	
Shale			2026	2088	
Total Depth			<u>2088</u>		

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY
Well Operator

By: R. A. P.

Date: November 21, 1986

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."

7/85

RECEIVED
OCT 10 1986



1) Date: October 2, 1986
 2) Operator's Well No. KEM #663
 3) API Well No. 47-107-1405
 State County Permit

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

- 4) ~~DEPARTMENT OF ENERGY~~ / Gas /
 B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow /)
- 5) LOCATION: Elevation: 830' / Watershed: Lamps Hollow
 District: Harris / County: Wood / Quadrangle: Lubeck 449
- 6) WELL OPERATOR: Kaiser Exploration and Mining Company CODE: 25330 7) DESIGNATED AGENT R. A. Pryce
 Address P. O. Box 8 / Address _____
Ravenswood, WV 26164
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED: Name ~~XXXXXXXXXXXX~~ Glen Robinson / Address ~~XXXXXXXXXXXX~~ Rt. 1, Mt. Pleasant Est. Address
~~XXXXXXXXXXXX~~ Mineral Wells, WV 26150
- 9) DRILLING CONTRACTOR: Name Unknown
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate /
 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Berea Sandstone
- 12) Estimated depth of completed well, 2083' feet
- 13) Approximate trata depths: Fresh, 1601 feet; salt, _____ feet.
- 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No /
- 15) CASING AND TUBING PROGRAM Permit #'s 180 + 385

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	7"			X		250' 631	250' 631	Cement to surface	Per Rule 5.05
Coal									Sizes
Intermediate									
Production	4 1/2"			X		2083'	2083'	175 sks 50/50	Depth 2011 as required by rule 5.01
Tubing									Perforations:
Lin.									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-107-1405 Date October 20 19 86

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 October 20, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: _____	Agent: <u>RPB</u>	Plat: <u>MS</u>	Casing: <u>MS</u>	Fee: <u>969781</u> <u>148</u>	WPCP: <u>MS</u>	S&E: <u>MS</u>	Other: _____
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[Signature]
Director, Division of Oil and Gas

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

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

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVITE 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: ONEIDA COAL CO. Operator Well No.: KEM-663

LOCATION: Elevation: 830.00 Quadrangle: LUBECK
District: HARRIS County: WOOD
Latitude: 4075 Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 3800 Feet West of 81 Deg. 42 Min. 30 Sec.

Well Type: OIL _____ GAS x

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

Coal Operator Oneida Coal Co.
or Owner Rt. 1, Box 72
Sutton, WV 26601

Agent: John V. McCallister
Inspector: Glenn P. Robinson
Permit Issued: 03/10/89

Coal Operator _____
or Owner _____

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Jackson ss:

Ed Gainer and Jesse Rhodes 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 Peake Energy, Inc., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 7th day of September, 1989, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Class A Cement	2079	1907		
6% GEL	1907	398	*4-1/2" : 0'	2079'
Class A Cement	398	273		
6% GEL	273	118	1" : 0'	341'
Class A Cement	118	0		
			*4-1/2" CSG was cemented to surface - no pipe recovered.	

Description of monument: 4-1/2" csg; 3 ft above GL inscribed with API # 47-107-01405

and that the work of plugging and filling said well was completed on the 8th day of September, 1989.

And further deponents saith not.

Sworn and subscribe before me this 14th day of September, 1990
My commission expires: 1/29/94

Jesse Rhodes
Mary S. Bennett
Notary Public
SEP 24 1990