

MAN 9-30-85

7825

LATITUDE 38°05'

Hub EAST Edge
Road W/ (2) 1/4"
Syc. Pointers
(Found)

LAMBERT
125 ac.

LONGITUDE 82°20'30"

05111

1024

1550'

BIG UGLY CR.

N10°00'W-821'
S12°39'E-805'

Rockhouse BR.

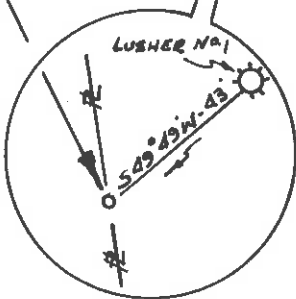
LAMBERT
11 ac.

Hub WEST Edge
Road W/ (2) 1/4"
Syc. Pointers

1750'

NORTH

TONEY
120 ac.



LUSHER
5 ac.

130/28

1150'

915

LAMBERT
258 ac.

No PERMIT No.
AVAILABLE

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF
 ACCURACY 1:200
 PROVEN SOURCE OF
 ELEVATION Rd. INTER. 1100' ±
S.E. OF WELL (642)

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 REGU-
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
 MENT OF MINES.

(SIGNED) [Signature]
 R.P.E. _____ L.L.S. 647

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE SEPT. 14, 19 85
 OPERATOR'S WELL NO. LUSHER No. 1
 API WELL NO.

47 043 0875-D
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW

LOCATION: ELEVATION 651 WATER SHED BIG UGLY
 DISTRICT HARTS CREEK COUNTY Lincoln
 QUADRANGLE BIG CREEK

DD CANCELLED

SURFACE OWNER LUSHER & MILLER ACREAGE 5 ac.
 OIL & GAS ROYALTY OWNER LUSHER & MILLER LEASE ACREAGE 50

PROPOSED WORK: DRILL ___ 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 Big Injun ESTIMATED DEPTH 2200'

WELL OPERATOR BADGER OIL & GAS Co., INC. DESIGNATED AGENT JACK DYER
 ADDRESS P.O. Box 299 Culloden, W.V. 25510 ADDRESS SAME

DEC 7 1987

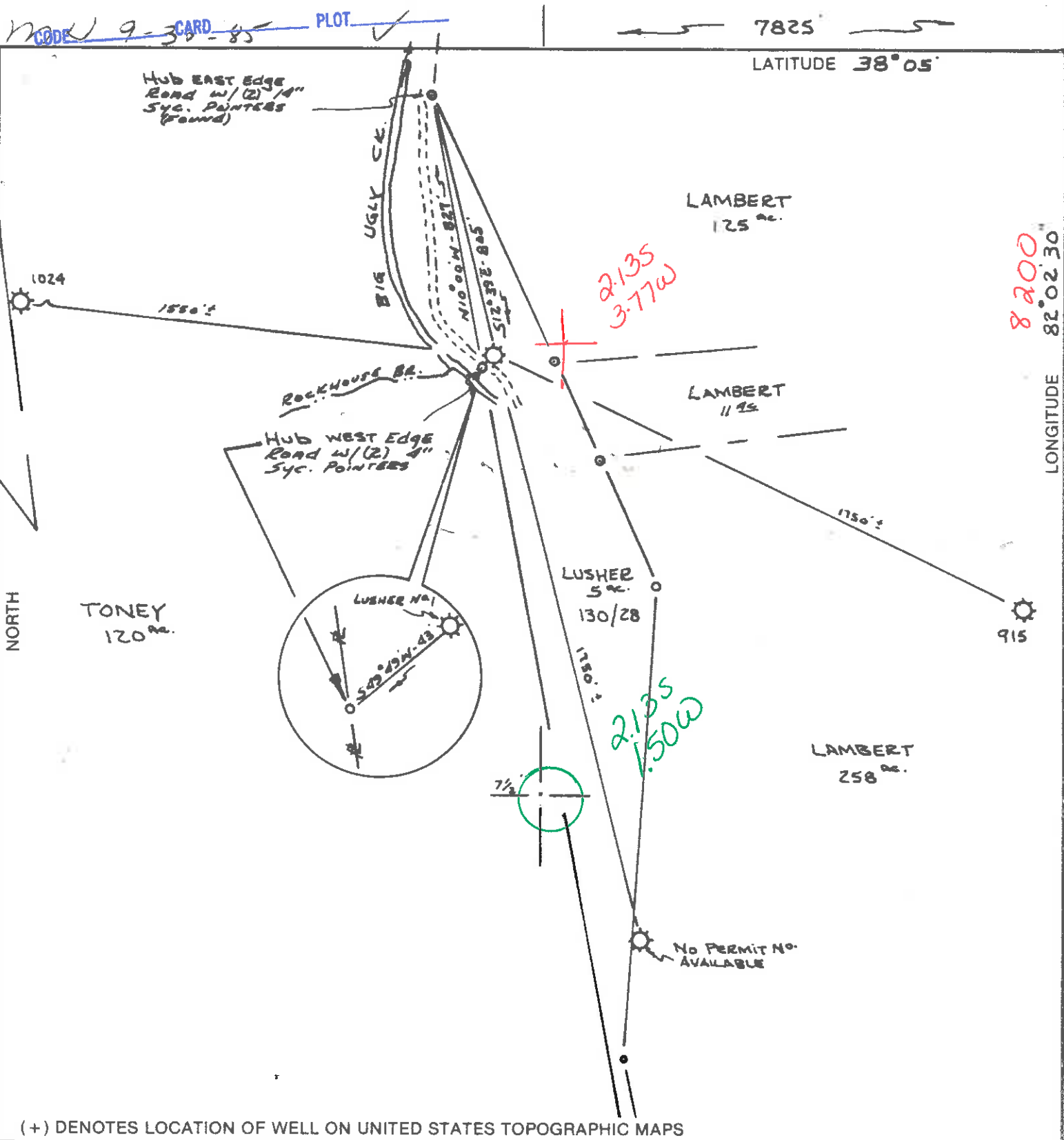
70

COUNTY NAME LIN

PERMIT 0675-D

FORM IV-5 (6-78)

H.T. HALL



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION Rd. Inter. 1100 ±
S.E. OF WELL (642')

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) [Signature]
 R.P.E. _____ L.L.S. 647

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE SEPT. 14, 19 85
 OPERATOR'S WELL NO. LUSHER NO. 1
 API WELL NO. 47-043-0875-0? B215875D

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW

LOCATION: ELEVATION 651' WATERSHED BIG UGLY
 DISTRICT HARTS CREEK 3 COUNTY Lincoln
 QUADRANGLE BIG CREEK 251 080 SE9

SURFACE OWNER LUSHER & MILLER ACREAGE 5 ac.
 OIL & GAS ROYALTY OWNER LUSHER & MILLER LEASE ACREAGE 50
 LEASE NO. _____

PROPOSED WORK: DRILL ___ 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 BIG INJUN ESTIMATED DEPTH 2200'
 WELL OPERATOR BADGER OIL & GAS CO., INC. DESIGNATED AGENT JACK DYER
 ADDRESS P.O. Box 299 Culloden, W.V. 25510 ADDRESS SAME

OCT 21 1985

FORM IV-6 (8-78)

COUNTY NAME
PERMIT

0070

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

Permit No. Lin 875

Midkiff Quad.

Company

Address

Farm

Location

Well No.

District

Surface

Mineral

Commenced

Completed

Date shot

Rock Pressure

Fresh Water

Salt Water

Wetzel Lusher Gas Company

Branchland, W.Va.

Wetzel Lusher Acres 50.9

Big Ugly's Creek

Two Elev. 610

Harts Creek Lincoln County

Wetzel Lusher, Branchland

Wetzel Lusher, Branchland

Nov. 17, 1948

Feb. 5, 1949

Feb. 9, 1949 Depth 2350 to 3400

with 10,300 lbs. Detonite

503 lbs. 48 hrs.

70° H.F.

200° H.F.

Gas Well
CASING & TUBING

	10	35	35
	8 1/4	300	300
	6 5/8	1320	1320

Heeter B.H. Packer
Depth 1320

Surface	0	35
Slate	35	65
Sand	65	75
Slate	75	130
Sand	130	295
Slate	295	375
Gas Sand	375	715
Slate, Shell	715	925
Sand	925	945
Slate	945	960
Salt Sand	960	1150
Slate	1150	1155
Red Rock	1155	1170
Slate, Shell	1170	1200
Red Rock	1200	1210
Slate, Shell	1210	1265
Little Lime	1265	1300
Big Lime	1300	1465
Injun Sand	1465	1505
Squaw Sand	1505	1570
Slate, Shell	1570	1995
Sunbury Shale	1995	2012
Merica Grit	2012	2032
Slate, Shell	2032	2700
Gray Shale	2700	3040
Brown Shale	3040	3390
Big White	3390	
Total depth	3400	

Str. 25

441

AUG 14 1979

Date: 8-14, 1979

Operator's Well No. 2

API Well No. 47-043-0875
State County Permit 00

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

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil Gas

(If "Gas", Production / Underground storage Deep Shallow)

LOCATION: Elevation: 610' Watershed: _____

District: Harts Creek County: Lincolen Quadrangle: Mid Kipp

WELL OPERATOR L.E.M. Gas Co.
Address BRANCHLAND WV
770-7875

DESIGNATED AGENT John Lusher
Address Branchland, WV

OIL & GAS ROYALTY OWNER Wetzel Lusher
Address Mid Kipp, W Va

COAL OPERATOR None
Address _____

ACREAGE _____
SURFACE OWNER Wetzel Lusher
Address _____

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name None
Address _____

ACREAGE _____
FIELD SALE (IF MADE) TO:
Name _____
Address _____

Name _____
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Kenneth Butcher
Address 730
Barboursville, WV

COAL LESSEE WITH DECLARATION ON RECORD:
Name NA
Address _____

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated _____, 19____, to the undersigned well operator from _____

[If said deed, lease, or other contract has been recorded:]
Recorded on _____, 19____, in the office of the Clerk of the County Commission of _____

County, West Virginia, in _____ Book _____ at page _____. A permit is requested as follows:

PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____

—planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 33-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
1616 WASHINGTON STREET EAST
CHARLESTON, WV 25301
TELEPHONE: 304-343-3000

L.E.M. Gas Co
Well Operator
By Wetzel Lusher
225 Barboursville W Va 25804

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION.

DRILLING CONTRACTOR (IF KNOWN) W. Parsons
Address Branchland
W. Va

GEOLOGICAL TARGET FORMATION, Danorian Shale

Estimated depth of completed well, _____ feet Rotary _____ Cable tools _____

Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.

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

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	10					35	35		Kinds
Fresh water									
Intermediate	3 1/2						308		Sizes
Production	1 3/8						1330		Deaths set
Liners									Perforations:
									Top Bottom

Old T/O
340

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plan in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-3, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-2c from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 deeper. This permit shall expire if operations have not commenced by 4-14-80.

[Signature]
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19____

By _____
Its _____



1) Date: September 20, 1985
 2) Operator's Well No. Wetzel Lusher #1
 3) API Well No. 47 - 043 - 0875-D
 State County Permit

RECEIVED
SEP 27 1985

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

(Lin 875)
Original Permit No.

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

- DEWELL TYPE: Oil / Gas
- B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 651' / Watershed: Big Ugly
 District: Harts Creek 070 / County: Lincoln / Quadrangle: Big Creek
- 6) WELL OPERATOR Badger Oil & Gas Co CODE: 3350 7) DESIGNATED AGENT Jack Dyer, Jr.
 Address: P.O. Box 299 Culloden, WV 25510 Address: P.O. Box 299 Culloden WV 25510
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name: Jerry Holcomb 9) DRILLING CONTRACTOR: Name: Dyer Well Service Inc
 Address: Rt. 1, Box 28 Hamlin, WV 25523 Address: P.O. Box 299 Culloden WV 25510
- 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, Big Injun 371
- 12) Estimated depth of completed well, 2300 feet
 13) Approximate strata depths: Fresh, 60 feet; salt, 375 feet.
 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes / No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	10					35	35		Kinds
Fresh water	8 1/4					300	300		
Coal									<u>EXISTING</u>
Intermediate	6 3/8					1320	1320		Depths set
Production	4 1/2					2200	2200	1.50 ST OR AS REQUIRED BY PERFORATIONS	Perforations: <u>15.01</u>
Tubing									Top Bottom
Liners									

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-043-0875-D Date October 16 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 October 16, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>ALB</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>6457</u>	WPCP: <u>MU</u>	S&E: <u>MU</u>	Other: _____
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NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]
Director, Division of Oil and Gas

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