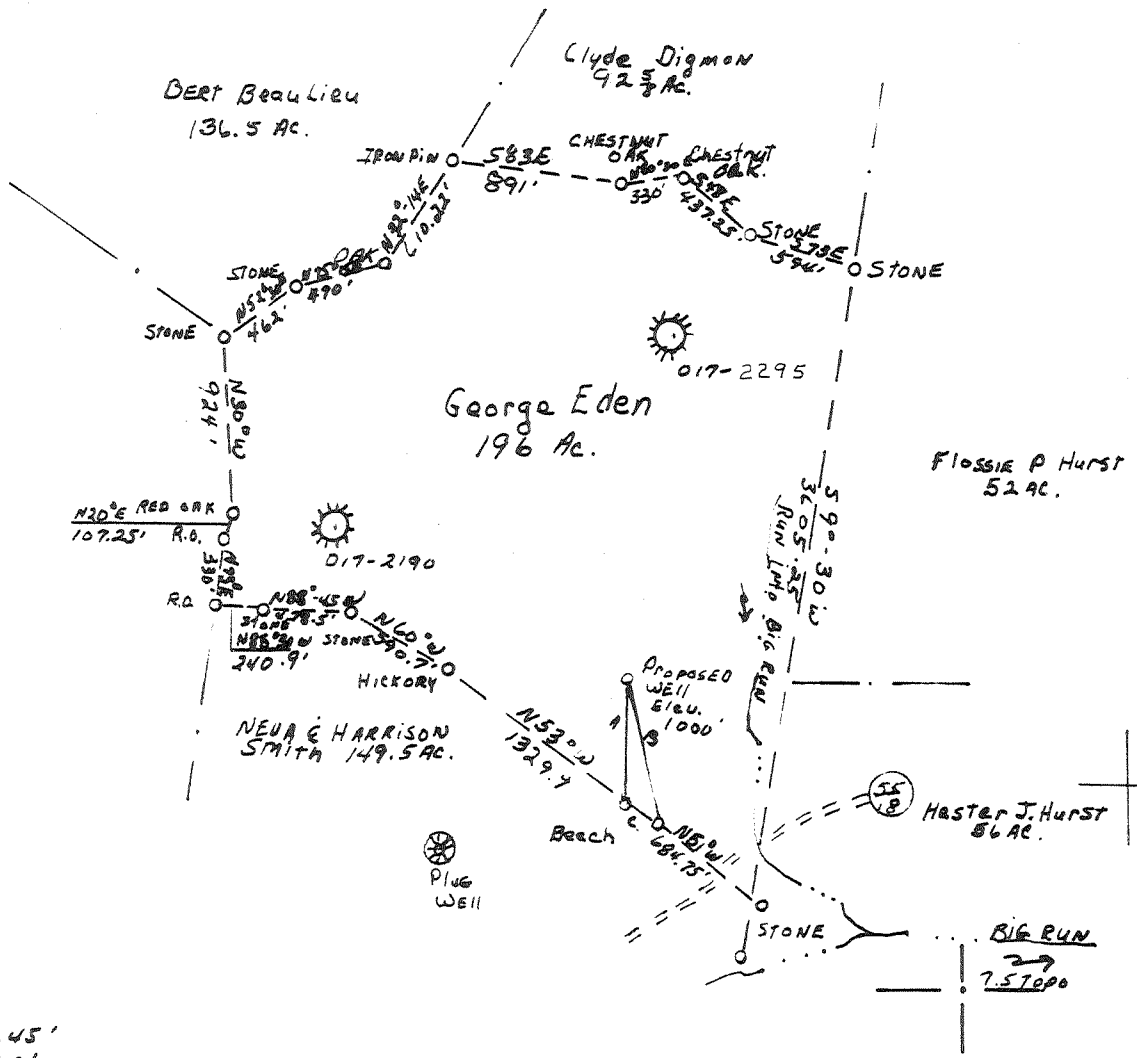


NORTH



A. N 00-50 E, 596.45'
 B. S 18-27 E, 747.01'
 C. N 53-00 W, 215.95'

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION U.S.G.S B.M. POSSUM Run 889, U.S.G.S Salem Quad.

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) Haynes D. Jordan
 R.P.E. _____ L.L.S. 624
Norton Surveys + Consulting, Inc.

PLACE SEAL HERE

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



DATE April 21, 1981
 OPERATOR'S WELL NO. Shahan #3
 API WELL NO. _____
47 - 017 - 3002
 STATE COUNTY PERMIT

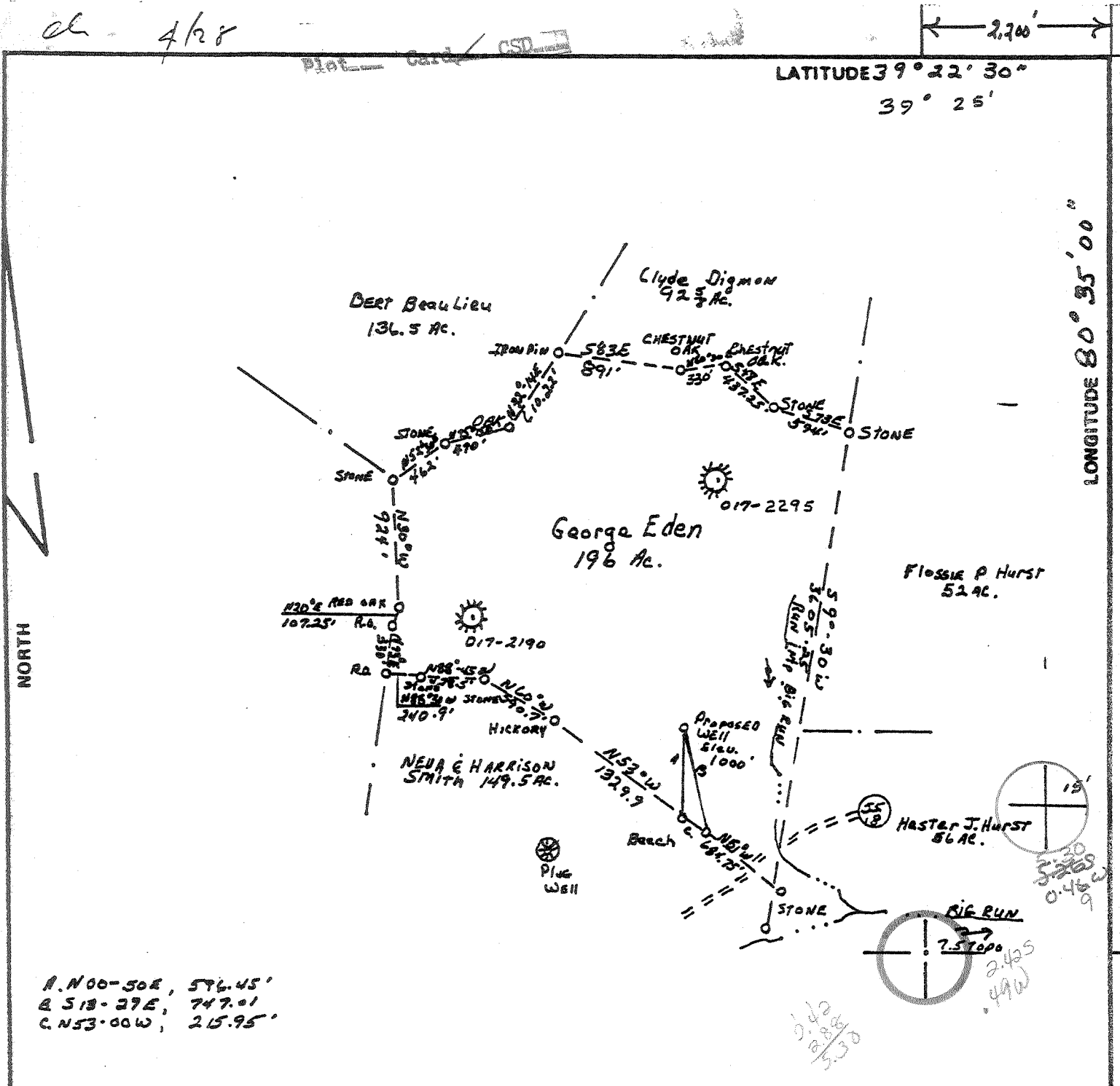
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

CANCELLED

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1000' WATER SHED BIG RUN
 DISTRICT McClendon COUNTY DODDRIDGE
 QUADRANGLE Salem
 SURFACE OWNER George Eden ACREAGE 196 Ac.
 OIL & GAS ROYALTY OWNER H.J. Shahan LEASE ACREAGE 196 Ac.
 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 BENSON ESTIMATED DEPTH 5300'
 WELL OPERATOR PETROLEUM DEVELOPMENT DESIGNATED AGENT Petroleum Development Corp.
 ADDRESS 103 E. Main Street ADDRESS 103 E. Main Street
Bridgeport, W. Va. Bridgeport, W. Va.

JAN 31 1983



A. N 00-50 E, 576.45'
 B. S 13-27 E, 747.01'
 C. N 53-00 W, 215.95'

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 800
 PROVEN SOURCE OF ELEVATION U.S.G.S. B.M. Possum Run 889, U.S.G.S. Salem Quad.

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) Haynes D. Proctor
 R.P.E. _____ L.L.S. 624
 Norton Surveys + Consulting, Inc.

PLACE SEAL HERE

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



DATE April 21, 1981
 OPERATOR'S WELL NO. Shahan #3
 API WELL NO. _____
47 - 017 - 3002
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1000' WATER SHED BIG RUN
 DISTRICT McClendon COUNTY DODDERIDGE
 QUADRANGLE Salem Centerpoint C
 SURFACE OWNER George Eden ACREAGE 196 Ac.
 OIL & GAS ROYALTY OWNER H.J. Shahan LEASE ACREAGE 196 Ac.
 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 BENSON ESTIMATED DEPTH 5300'
 WELL OPERATOR PETROLEUM DEVELOPMENT DESIGNATED AGENT Petroleum Development Corp.
 ADDRESS 103 E Main Street ADDRESS 103 E. Main Street
Bridgeport, W. Va. Bridgeport, W. Va.

MAY 27 1981



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED
APR 24 1981
OIL & GAS DIVISION
DEPT. OF MINES

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

DATE April 22, 1981

Surface Owner George Eden
Address 4628 Burnett Ave., Silver Spring, MD
Mineral Owner O. C. Haught et al
Address Salem, WV 26426
Coal Owner Consolidation Coal Company
Address P. O. Box 1613 Morgantown, WV 26505
Coal Operator _____
Address _____

Company Petroleum Development Corporation
Address P. O. Box 26, Bridgeport, WV 26330
Farm H. J. Shahan Acres 196
Location (waters) Big Run
Well No. Three Elevation 1000'
District McClellan County Doddridge
Quadrangle Salem

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 1-9-82.

INSPECTOR
TO BE NOTIFIED Paul Garrett
ADDRESS 321 Beech Street, Clarksburg, WV 26301
PHONE 622-3781

Paul Garrett
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 May 23 1978 by Clarence W. Mutschelknaus made to Petroleum Development Corp and recorded on the 3rd day of November 1978, in Doddridge County, Book 105 Page 344
XX 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,
John Mutschelknaus
(Sign Name) John Mutschelknaus
Well Operator
PETROLEUM DEVELOPMENT CORPORATION
Address P. O. Box 26
of _____ Street
Well Operator Bridgeport,
City or Town
West Virginia 26330
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.

BLANKET BOND

47-017-3002

PERMIT NUMBER

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO XX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Unknown _____ NAME Petroleum Development Corporation _____
 ADDRESS _____ ADDRESS P. O. Box 26 Bridgeport, WV 26330 _____
 TELEPHONE _____ TELEPHONE (304) 842-6256 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 5300 _____ ROTARY XX _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Benson _____
 TYPE OF WELL: OIL _____ GAS XX _____ 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 | 40 | 40 | Circulate |
| 7 - 5.8 | | | |
| 7 - 5.8 | 800' | 800' | Circulate to surface |
| | | | |
| | | 5200' | 520 sks |
| | | | Perf. Top |
| | | | Perf. Bottom |
| SPIN | | | Perf. Top |
| | | | Perf. Bottom |

APPROXIMATE FRESH WATER DEPTHS 40 FEET _____ SALT WATER 100 FEET _____
 APPROXIMATE COAL DEPTHS 250' _____
 IS COAL BEING MINED IN THE AREA? No 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