



FILE NO. P.D.C. #3-P. 48, 49
 DRAWING NO. 1
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION INT. RT. 36 & PRIVATE RD. = 1257'

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) Paul G. Dean, Sr.
 R.P.E. 1856 L.L.S. _____

PLACE SEAL HERE

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

FORM IV-6 (8-78)



DATE Oct 5, 1981
 OPERATOR'S WELL NO. 2
 API WELL NO. 47-095-0958-R
 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 1075' WATER SHED ELK
 DISTRICT ELLSWORTH COUNTY TYLER
 QUADRANGLE PORTERS FALLS 7 1/2' New Martinsville 15' SE
 SURFACE OWNER HAZEL FERRELL ACREAGE 58 1/2
 OIL & GAS ROYALTY OWNER ETHEL DOWELL LEASE ACREAGE 58 1/2
 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) _____

NOV 07 1983

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 5200'
 WELL OPERATOR PETROLEUM DEVELOPMENT DESIGNATED AGENT PETROLEUM DEVELOPMENT CORP
 ADDRESS P.O. BOX 26 ADDRESS P.O. BOX 26
BRIDGEPORT W.V. 26330 BRIDGEPORT W.V. 26330

REGINALD ROBERTS EST.
110 Ac.

FLOYD & LULA DEULLEY
54.5 Ac.

NORTH

CHARLES PUGLIESE
60 Ac.



HAZEL FERRELL
58.5 Ac.

IVA FERRELL
61.66 Ac.

30" BLACK OAK
HELEN CUNNINGHAM
15.29 Ac.

DRAIN INTO ELK FORK

IRONWOOD ON CREEK BANK

CHESTNUT

Loc 2 EL. 1075'

Loc 1 O

STONE

FILE NO. P.D.C. #3-2948,49
DRAWING NO. 1
SCALE 1" = 400'
MINIMUM DEGREE OF ACCURACY 1 IN 200
PROVEN SOURCE OF ELEVATION INT. RT. 36 & PRIVATE RD. = 1257'

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) Paul G. Dean, Sr.
R.P.E. 1856 L.L.S. _____

PLACE SEAL HERE

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



DATE Oct 5, 1981
OPERATOR'S WELL NO. 2
API WELL NO. _____
47 - 095 - 0958
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 1075' WATER SHED ELK
DISTRICT ELLSWORTH COUNTY TYLER
QUADRANGLE PORTERS FALLS 7 1/2 SE New Martinsville 15
SURFACE OWNER HAZEL FERRELL ACREAGE 58 1/2
OIL & GAS ROYALTY OWNER ETHEL DOWELL LEASE ACREAGE 58 1/2
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 MARCELLUS SHALE ESTIMATED DEPTH 5200'
WELL OPERATOR PETROLEUM DEVELOPMENT DESIGNATED AGENT PETROLEUM DEVELOPMENT CORP
ADDRESS P.O. BOX 26 ADDRESS P.O. BOX 26
BRIDGEPORT W.V. 26330 BRIDGEPORT W.V. 26330

NOV 5 1981



September 27 1982

Date: _____, 19____

Operator's #2
Well No. _____

API Well No. 47 095 0958-REN
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil _____ / Gas xx /
(If "Gas", Production xx / Underground storage _____ / Deep _____ / Shallow _____)

LOCATION: Elevation: 1075' Watershed: Elk Fork
District: Ellsworth County: Tyler Quadrangle: Porters Falls 7 1/2

WELL OPERATOR PETROLEUM DEVELOPMENT CORPORATION DESIGNATED AGENT John R. Mitchell
Address PO Box 26, 103 East Main Street Address PO Box 26, 103 East Main Street
Bridgeport, WV 26390 Bridgeport, WV 26330

OIL & GAS ROYALTY OWNER Ethel Dowell (widow)
Address 330 Grand Avenue
Bridgeport, WV 26330
Acreage 58.5

COAL OPERATOR _____
Address _____

SURFACE OWNER Hazel Ferrell- c/o Allan Nowder
Address Rt 2, Box 161
Sisterville, WV 26175
Acreage 58.5

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____
Name _____
Address _____

FIELD SALE (IF MADE) TO:
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Robert A. Lowther
Address General Delivery
Middlebourne, WV 26149

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed _____ / lease x
other contract _____ / dated January 7th, 19 81, to the undersigned well operator from Ethel M. Dowell

(If said deed, lease, or other contract has been recorded:)
Recorded on January 15th, 19 81, in the office of the Clerk of the County Commission of Tyler County, West
Va., in _____ Book 228 at page 343. A permit is requested as follows:

PROPOSED WORK: Drill x / 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 §22-4-3 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
1615 WASHINGTON STREET EAST CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

RECEIVED
SEP 30 1982
OIL & GAS DIVISION
DEPT. OF MINES
BLANKET BOND

PETROLEUM DEVELOPMENT CORPORATION
By John R. Mitchell Well Operator
Its Area Manager of Operations

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) _____
Address _____

GEOLOGICAL TARGET FORMATION, Marcellus Shale

Estimated depth of completed well, 5200 feet Rotary XX / Cable tools _____ /

Approximate water strata depths: Fresh, 100 feet; salt, _____ feet.

Approximate coal seam depths: none Is coal being mined in the area? Yes _____ / No X /

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						40'	40'	circulate	Kinds
Fresh Water									
Coal									Sizes
Intermediate						1000'	1000'	circulate	
Production							5200'	520 sks as reqd depths set by rule 15.01	
Tubing									
Liners									Perforations:
									Top Bottom

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 plat 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-9, "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 § 22-4-8a 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,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling renewed. THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 5-31-83
BY [Signature]

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.

WAIVER

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 _____

RECEIVED

OCT 15 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

October 12, 1981

Hazel Ferrell
Allan Nowder, RL 2 Box 161
Sistersville, WV 26175

Ethel Dowell (Widow)

330 Grand Avenue, Bridgeport, WV 26330

Same as above

Petroleum Development Corporation
P. O. Box 26, Bridgeport, WV 26330
Dowell 58 1/2

Elk Fork

Two (2)

1075'

Ellsworth

Tyler

Porters Falls 7 1/2

THIS 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 6-20-82.

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of the Department of Mines, State of West Virginia, this 12th day of October, 1981.

ADDRESS Rt. 23, Alma, WV 26320

PHONE 758-4573

J. E. Murray
Deputy Director - Oil & Gas Division

EXPIRATION

This permit was issued on October 12, 1981, and shall expire on the 7th day of January, 1982. The permit was issued to the Petroleum Development Corporation, P. O. Box 26, Bridgeport, WV 26330, by the Department of Mines, State of West Virginia, on October 12, 1981, at Tyler, West Virginia, Book 228, Page 343.

XX

The above named permit is subject to the provisions of Chapter 22, of the West Virginia Code, and the Department of Mines, State of West Virginia, may at any time suspend or revoke this permit if the permittee fails to comply with the provisions of said Chapter.

The above named permit is subject to the provisions of Chapter 22, of the West Virginia Code, and the Department of Mines, State of West Virginia, may at any time suspend or revoke this permit if the permittee fails to comply with the provisions of said Chapter.

Copies of this notice were mailed to the permittee and the owners of the land at their above address on the same day with the mailing of this copy by the Department of Mines, State of West Virginia, on October 12, 1981.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 874
MORGANTOWN, WEST VIRGINIA 26505
AG-304 - 292-6331

PETROLEUM DEVELOPMENT CORPORATION
P. O. Box 26
Bridgeport
West Virginia 26330

Summary

THIS PERMIT is subject to the provisions of Chapter 22, of the West Virginia Code, and the Department of Mines, State of West Virginia, may at any time suspend or revoke this permit if the permittee fails to comply with the provisions of said Chapter.

X

Unknown

WV-100 (Rev. 1-1-73)
Petroleum Development Corporation
P. O. Box 26, Bridgeport, WV 26330
Telephone 842-6256

5200'

XX

Marcellus Shale

XX

40

40

Circulate

1000

1000

Circulate

5200

*520 SKS. or as reqd.
by rule 15.01*

100

None

No