

FILE NO. P.D.C. # 3-2948,49  
 DRAWING NO. I  
 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, Jr.  
 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. 1  
 API WELL NO. 47-095-0957-Reg  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

**CANCELLED**

DEC 12 1983

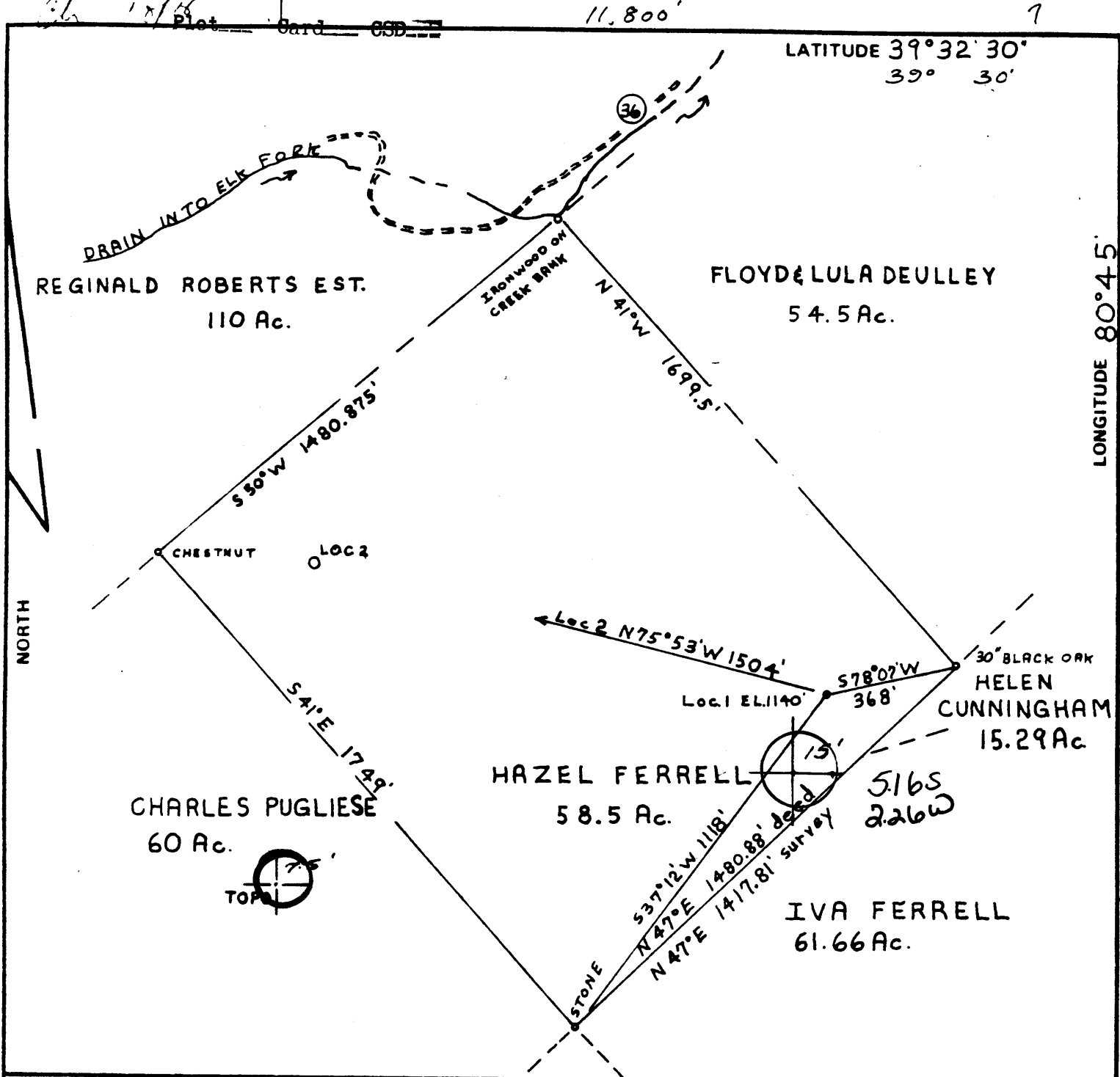
WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW

LOCATION: ELEVATION 1140' WATER SHED ELK FORK  
 DISTRICT ELLSWORTH COUNTY TYLER  
 QUADRANGLE PORTERS FALLS 7 1/2'

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



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 FORM IV-6 (8-78)



DATE Oct 5, 1981  
 OPERATOR'S WELL NO. 1  
 API WELL NO. 47-095-0957  
 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 1140' WATER SHED ELK FORK  
 DISTRICT ELLSWORTH COUNTY TYLER  
 QUADRANGLE PORTERS FALLS 7 1/2' New Martinsville 15' NE? SE  
 SURFACE OWNER HAZEL FERRELL ACREAGE 58 1/2  
 OIL & GAS ROYALTY OWNER ETHEL DOWELL LEASE ACREAGE 58 1/2  
 LEASE NO. \_\_\_\_\_

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 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 82

Date: \_\_\_\_\_, 19 \_\_\_\_\_



FORM IV-2 (Obverse) (12-81)

Operator's #1 Well No. \_\_\_\_\_

API Well No. 47 095 0957-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: 1140' 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 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 Robert A. Lowther Name 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 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

WV OIL AND GAS LABEL PERMIT APPLICATION

DEPARTMENT OF MINES  
1000 Market Street  
Martinsburg, West Virginia

Date: October 12, 1981

Operator: Hazel Ferrell  
% Allan Nowder, Rt. 2 Box 161  
Sistersville, WV 26175  
Ethel Dowell (widow)  
330 Grand Avenue, Bridgeport, WV 26330

Company: Petroleum Development Corporation  
P. O. Box 26 Bridgeport, WV 26330  
Dowell 58 1/2  
Elk Fork  
1 (One) 1140'  
Ellsworth Tyler  
Porters Falls 7 1/2

Location: Same as above

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 6-20-82.

*J. E. Hargy*  
Deputy Director - Oil & Gas Division

Approved: Phillip L. Tracy  
Rt 23, Alma, WV 26320  
758-4573

MEMORANDUM  
The undersigned, Phillip L. Tracy, Director of the Oil and Gas Division, hereby approves the application for a drilling permit for the location described above, made by Petroleum Development Corp., 7th January 1981, Ethel N. Dowell, 81, Tyler, Box 228, 343, 15th January, XX, DEPARTMENT OF MINES, OIL AND GAS DIVISION, MARTINSBURG, WEST VIRGINIA.

The enclosed plat was prepared by the Department of Mines and has been returned to the operator. The above named well owner, in their operations, shall be notified that any objection they wish to make to the location of the well must be filed with the Department of Mines within 30 days of the date of this notice. Copies of this notice and the enclosed plat were mailed by registered mail to the above named well owner and owner of their above shown respective address on the same day with the mailing or delivery of the copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOLOGICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26506  
AC-333 - 292-6221

Very truly yours,  
*Phillip L. Tracy*  
DIRECTOR  
PETROLEUM DEVELOPMENT CORPORATION  
P. O. Box 26  
Bridgeport  
West Virginia 26330

*Sweeney*

NOTICE: This permit is valid only if the operator has posted a copy of this permit and plat to the well site. The Department of Mines will not be responsible for the location of the well if the operator does not comply with these requirements.

WARRANTY BOND

XX

Unknown

Petroleum Development Corporation  
P. O. Box 26 Bridgeport, WV 26330

842-6256

5200

XX

Marcellus

XX

-----  
CIRCULATE  
-----

40

40

Circulate

1000

1000

Circulate

5200

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

100

None

No