



Date: May 26th, 19 82

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

Operator's Well No. 2

API Well No. 47 085 5647  
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: 1040 Watershed: MacFarlan Creek  
District: Murphy County: Ritchie Quadrangle: Cairo 7 3/4

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 26330 Bridgeport, WV 26330

OIL & GAS ROYALTY OWNER H. R. Williams et al  
Address 149 Phillips Street  
Weirton, WV 26062  
Acreage 60

COAL OPERATOR         
Address       

SURFACE OWNER Hosea Williams et ux  
Address 149 Phillips Street  
Weirton, WV 26062  
Acreage 14

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

FIELD SALE (IF MADE) TO:  
Address unknown

COAL LESSEE WITH DECLARATION ON RECORD:  
Name         
Address       

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Deo Mace  
Address Route #1, Box 5  
Sandridge, WV 25274

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 March 26th, 19 81, to the undersigned well operator from H. R. Williams et al

(IF said deed, lease, or other contract has been recorded):  
Recorded on May 9th, 19 81, in the office of the Clerk of the County Commission of Ritchie County, West Va., in        Book 136 at page 311. A permit is requested as follows:

PROPOSED WORK: Drill XX / 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

04/19/2024  
PETROLEUM DEVELOPMENT CORPORATION  
Well Operator  
By William K. Overbay Jr.  
Its Chief Exploration and Production  
Geology

PROPOSED WORK ORDER

(12-81)

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

DRILLING CONTRACTOR (IF KNOWN) unknown  
Address \_\_\_\_\_

GEOLOGICAL TARGET FORMATION, Marcellus Shale

Estimated depth of completed well, 5990 feet Rotary X / Cable tools \_\_\_\_\_ /

Approximate water strata depths: Fresh, 130-240 feet; salt, 1120-500 feet.

Approximate coal seam depths: N/A 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             | 11 3/4         | —     | —             |                   | X    | 20'                                  | 20'                     | cement to surface | Kinds         |
| Fresh Water           |                |       |               |                   |      |                                      |                         |                   |               |
| Coal                  | 8 5/8          | X42   | 23#           | X                 |      | <del>1650</del><br>300'              | <del>1650</del><br>300' | cement to surface | Sizes         |
| Intermediate          | 4 1/2          | J     | 10.5#         | X                 |      | 5950                                 | 5950                    | 400 sks           |               |
| Production            |                |       |               |                   |      |                                      |                         |                   | Depths set    |
| 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. THIS PERMIT SHALL EXPIRE  
IF OPERATIONS HAVE NOT COMMENCED BY 1-26-83  
BY \_\_\_\_\_

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.

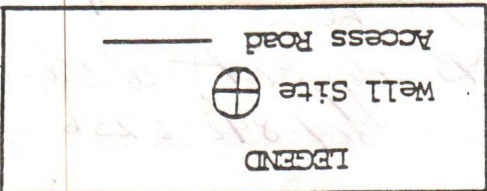
WAIVER

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location 04/19/2024 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.

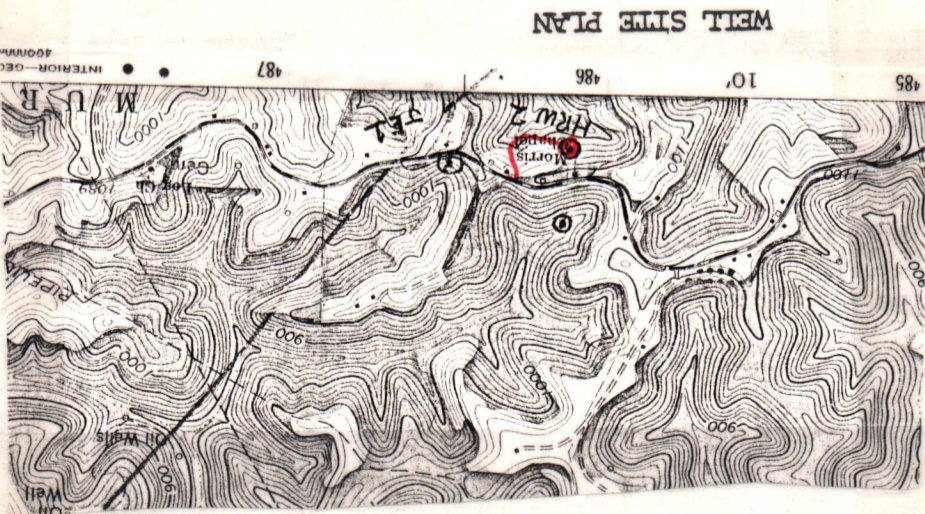
Date: \_\_\_\_\_, 19 \_\_\_\_\_

By \_\_\_\_\_  
Its \_\_\_\_\_

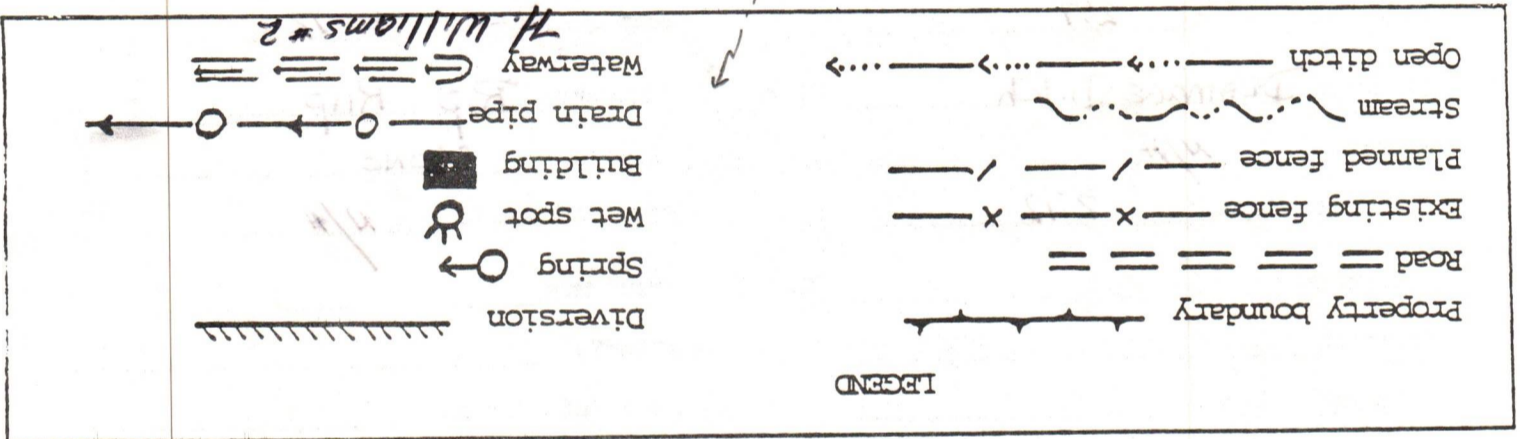
ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE MACFARLAN 7.5



04/19/2024

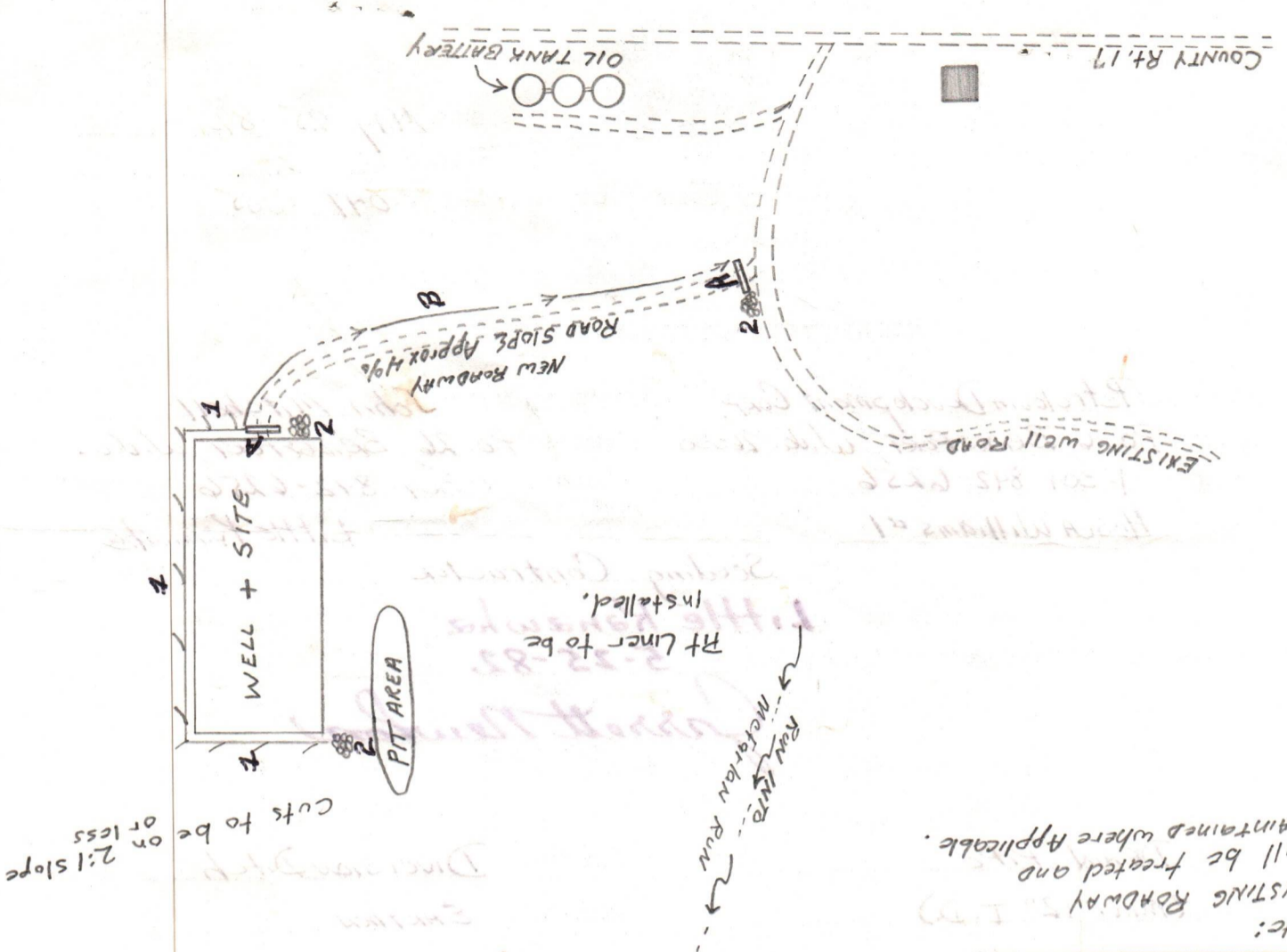


Sketch to include well location, existing access road, roads to be constructed, well sites, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.



Note: EXISTING ROADWAY will be treated and MAINTAINED where Applicable.

Cuts to be on 2:1 slope or less





IV-9  
(Rev 8-81)

DATE MAY 25, 82  
WELL NO. 2  
API NO. 047-085-5647

State of West Virginia  
Department of Mines  
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Petroleum Development Coe DESIGNATED AGENT John Mitchell  
Address P.O. 26, BRIDGEPORT, W.Va. 26330 Address P.O. 26, BRIDGEPORT, W.Va.  
Telephone 1-304-842-6256 Telephone 1-304-842-6256  
LANDOWNER Hosea Williams SOIL CONS. DISTRICT Little Kanawha  
Revegetation to be carried out by Seeding Contractor (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 5-25-82 (Date)

Garrett Newlon  
(SCD Agent)

| ACCESS ROAD                         | LOCATION                             |
|-------------------------------------|--------------------------------------|
| Structure <u>DRAIN PIPE</u> (A)     | Structure <u>DIVERSION Ditch</u> (1) |
| Spacing <u>(min. 12" T.D.)</u>      | Material <u>EARTHEN</u>              |
| Page Ref. Manual <u>2:7</u>         | Page Ref. Manual <u>2:12</u>         |
| Structure <u>DRAINAGE Ditch</u> (B) | Structure <u>RIP-RAP</u> (2)         |
| Spacing <u>N/A</u>                  | Material <u>STONE</u>                |
| Page Ref. Manual <u>2:12</u>        | Page Ref. Manual <u>N/A</u>          |
| Structure _____ (C)                 | Structure _____ (3)                  |
| Spacing _____                       | Material _____                       |
| Page Ref. Manual _____              | Page Ref. Manual _____               |

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I

Lime 3 Tons/acre  
or correct to pH 6.5

Fertilizer 600 lbs/acre  
(10-20-20 or equivalent)

Mulch Hay - (2) Tons/acre

Seed\* Ky. 31-30 lbs/acre  
LADINA Clover - 5 lbs/acre  
Red Clover - 3 lbs/acre

Treatment Area II

Lime 3 Tons/acre  
or correct to pH 6.5

Fertilizer 600 lbs/acre  
(10-20-20 or equivalent)

Mulch Hay - 2 Tons/acre

Seed\* Ky. 31-30 lbs/acre  
LADINA Clover - 5 lbs/acre  
Red Clover - 3 lbs/acre

\*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

NOTES: Please request landowner's cooperation to protect new seeding for one growing season. Attach separate sheets as necessary for comments.

PLAN PREPARED BY Steve S. [Signature] 04/19/2024  
ADDRESS P.O. 26  
Bridgeport, W.Va. 26330  
PHONE NO. 304-842-6256





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

RECEIVED

JUN - 8 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 85-5647

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company Petroleum Development Corp

Address \_\_\_\_\_

Farm Williams

Well No. 2

District Murphy County Pit

Drilling commenced \_\_\_\_\_

Drilling completed \_\_\_\_\_ Total depth \_\_\_\_\_

Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_

Initial open flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch

Open flow after tubing \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch

Volume \_\_\_\_\_ Cu. Ft.

Rock pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.

Oil \_\_\_\_\_ bbls., 1st 24 hrs.

Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet

Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

| CASING AND TUBING | USED IN DRILLING | LEFT IN WELL | PACKERS              |
|-------------------|------------------|--------------|----------------------|
| Size              |                  |              |                      |
| 16                |                  |              | Kind of Packer _____ |
| 13                |                  |              |                      |
| 10                |                  |              | Size of _____        |
| 8 1/4             |                  |              |                      |
| 6 3/4             |                  |              | Depth set _____      |
| 5 3/16            |                  |              |                      |
| 3                 |                  |              | Perf. top _____      |
| 2                 |                  |              | Perf. bottom _____   |
| Liners Used       |                  |              | Perf. top _____      |
|                   |                  |              | Perf. bottom _____   |

CASING CEMENTED 8 5/8 SIZE 1945 No. FT. \_\_\_\_\_ Date 6-3-82

NAME OF SERVICE COMPANY Halibut HALIBURTON

COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

Drillers' Names Union # 5

Remarks: Good cement circulation

6-3-82

DATE

W. Mace 04/19/2024

DISTRICT WELL INSPECTOR





RECEIVED

SEP 6 - 1983

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

OIL & GAS DIVISION  
DEPT. OF MINES  
INSPECTOR'S WELL REPORT

Permit No. 85-5647

Oil or Gas Well \_\_\_\_\_  
(KIND)

|                                                         |                                                           |                  |              |                      |
|---------------------------------------------------------|-----------------------------------------------------------|------------------|--------------|----------------------|
| Company <u>PET DEV. CORP.</u>                           | CASING AND TUBING                                         | USED IN DRILLING | LEFT IN WELL | PACKERS              |
| Address _____                                           | Size                                                      |                  |              |                      |
| Farm <u>William's</u>                                   | 16                                                        |                  |              | Kind of Packer _____ |
| Well No. <u>No 2<sup>nd</sup></u>                       | 13                                                        |                  |              |                      |
| District <u>Murphy</u> County <u>Ritchie</u>            | 10                                                        |                  |              | Size of _____        |
| Drilling commenced _____                                | 8 1/4                                                     |                  |              |                      |
| Drilling completed _____ Total depth _____              | 6 1/2                                                     |                  |              | Depth set _____      |
| Date shot _____ Depth of shot _____                     | 5 3/16                                                    |                  |              |                      |
| Initial open flow _____ /10ths Water in _____ Inch      | 3                                                         |                  |              | Perf. top _____      |
| Open flow after tubing _____ /10ths Merc. in _____ Inch | 2                                                         |                  |              | Perf. bottom _____   |
| Volume _____ Cu. Ft.                                    | Liners Used                                               |                  |              | Perf. top _____      |
| Rock pressure _____ lbs. _____ hrs.                     |                                                           |                  |              | Perf. bottom _____   |
| Oil _____ bbls., 1st 24 hrs.                            | CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____ |                  |              |                      |
| Fresh water _____ feet _____ feet                       | NAME OF SERVICE COMPANY _____                             |                  |              |                      |
| Salt water _____ feet _____ feet                        | COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES           |                  |              |                      |
|                                                         | _____ FEET _____ INCHES _____ FEET _____ INCHES           |                  |              |                      |
|                                                         | _____ FEET _____ INCHES _____ FEET _____ INCHES           |                  |              |                      |

Drillers' Names \_\_\_\_\_

Remarks:

*Final inspection  
O.K. To Release.  
~~Need well record~~*

8-30-83

DATE

*W. J. Underwood* 04/19/2024

DISTRICT WELL INSPECTOR





State of West Virginia  
Department of Mines  
Oil and Gas Division  
Charleston 25305

WALTER N. MILLER  
DIRECTOR

THEODORE M. STREIT  
ADMINISTRATOR

November 14, 1983

Petroleum Development Corp.  
P. O. Box 26  
Bridgeport, W. Va. 26330

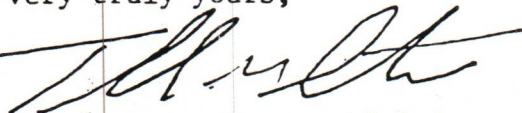
Gentlemen:

The required records and reports have been received in this office and the District Inspectors have submitted FINAL INSPECTIONS for the following wells listed below:

| <u>PERMIT NUMBER</u> | <u>FARM AND WELL NUMBER</u> | <u>DISTRICT</u> |
|----------------------|-----------------------------|-----------------|
| RIT-5647             | H. R. Williams, et al, #2   | Murphy          |
| RIT-5661             | John Elliott Heirs, #2      | Murphy          |

In accordance with Chapter 22, Article 4, Section 2, the above captioned wells will remain under bond coverage for "life of wells." Reclamation requirements have been approved.

Very truly yours,

  
Theodore M. Streit, Administrator  
Dept. Mines-Office of Oil & Gas

TMS/rl

04/19/2024

IV-27  
11/23/81

RECEIVED



Date: JUNE 3, 1982

JUN - 8 1982

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Well No: WILLIAMS # 2

API NO: 47 - 85 5647

State County Permit

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

### Oil and Gas Division NOTICE OF VIOLATION

WELL TYPE: Oil \_\_\_ / Gas \_\_\_ Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
Of "Gas" - Production \_\_\_ / Storage \_\_\_ / Deep \_\_\_ / Shallow \_\_\_ /

LOCATION: Elevation: 1040 Watershed: MACFARLAN CREEK  
District: MURPHY County: RITCHIE Quadrangle: \_\_\_\_\_

WELL OPERATOR PETROLEUM DEVELOPMENT CO. DESIGNATED AGENT JOHN MITCHELL  
Address P.O. BOX 26 Address \_\_\_\_\_  
BRIDGEPORT, WV. 26330

The above well is being posted this 3 day of JUNE, 1982, for a violation of Code 22-4-8A and/or Regulation \_\_\_\_\_, set forth in detail as follows:  
(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

*1945 FEET OF 8 3/8 CASING, CEMENTED BY HALLIBURTON, SET THROUGH THE BOTTOM OF INTUN SAND. THIS WELL WAS PERMITTED FOR 300 FEET OF FRESH WATER CASING, WHICH WAS NOT INSTALLED.*

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

You are hereby granted until \_\_\_\_\_, 19\_\_\_\_, to abate this violation. Failure to abate the violation may result in action by the Department under Code 22-4-17 or Code 22-4-18.

Deo Mace  
Oil and Gas Inspector

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone: 04/19/2024

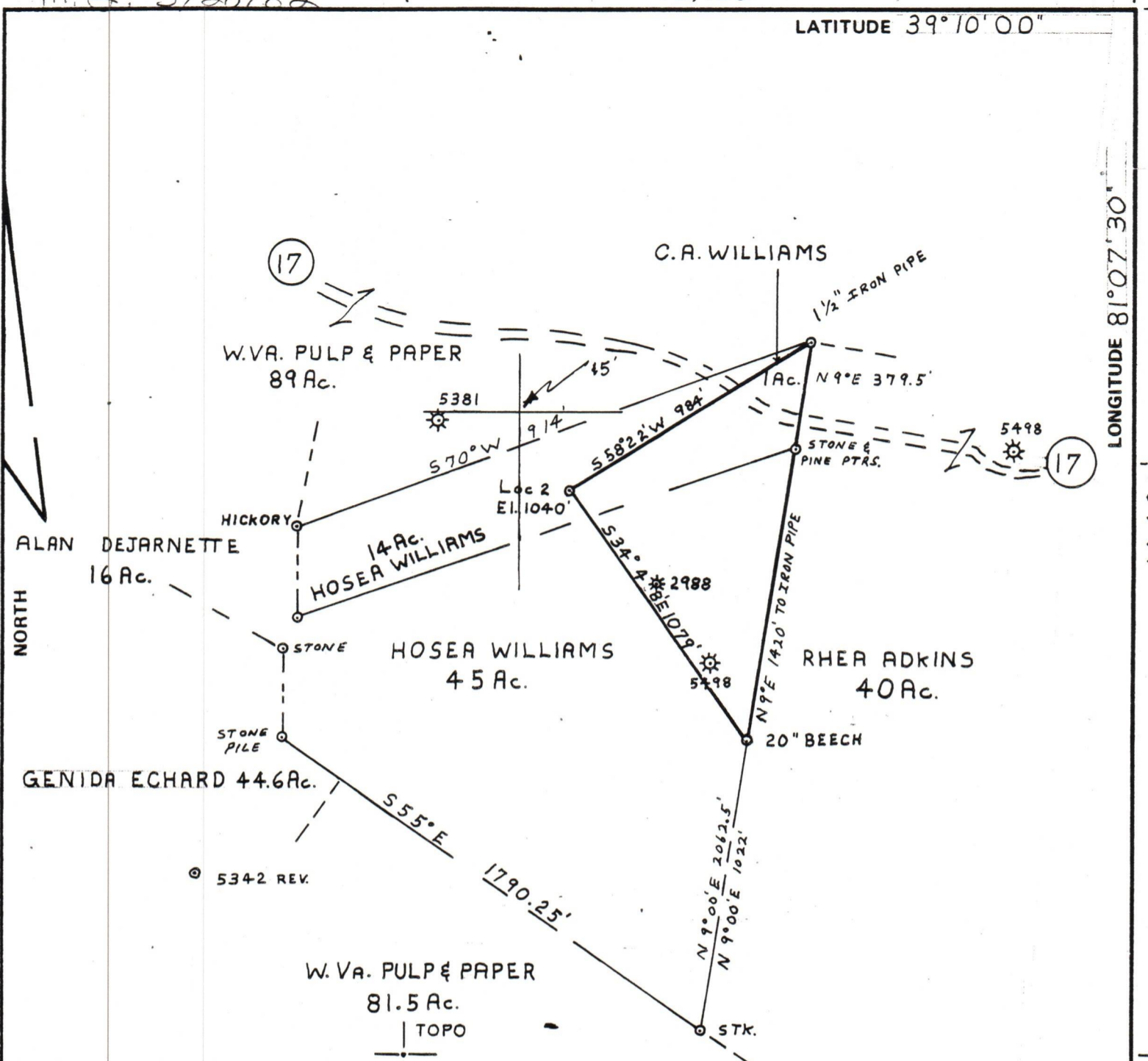
*Posted Nov. 27, 1982*

M.Z. 5/26/82

10,125'

LATITUDE 39°10'00"

LONGITUDE 81°07'30"



FILE NO. P.D.C.#4-P.9.22  
 DRAWING NO. 1  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION INT. RT. 17 & RT. 30 = 1089'

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. Deardorff  
 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 MAY 25, 19 82  
 OPERATOR'S WELL NO. 2  
 API WELL NO. \_\_\_\_\_  
47 - 085 - 5647  
 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 1040' WATER SHED MACEFARLAN CREEK  
 DISTRICT MURPHY COUNTY RITCHIE  
 QUADRANGLE CAIRO 7 1/2'

SURFACE OWNER HOSEA WILLIAMS ACREAGE 14  
 OIL & GAS ROYALTY OWNER H.R. WILLIAMS ET AL. LEASE ACREAGE 60 04/19/2024  
 LEASE NO. 150301

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 5900'  
 WELL OPERATOR PETROLEUM DEVELOPMENT DESIGNATED AGENT JOHN R. MITCHELL  
 ADDRESS P.O. BOX 26 ADDRESS P.O. BOX 26  
BRIDGEPORT W.V. BRIDGEPORT W.V.