

**RECEIVED**

FEB 14 1985



1) Date: \_\_\_\_\_, 19\_\_\_\_  
 2) Operator's Name: Ray Harron #1  
 Well No. \_\_\_\_\_  
 3) API Well No. 47 - 033 - 3159  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

**OIL & GAS DIV.  
DEPT. OF MINES**

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

- 4) WELL TYPE: A Oil  / Gas  /  
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow  /)
- 5) LOCATION: Elevation: 1311' Watershed: Davisson Run  
 District: Simpson County: Harrison Quadrangle: Clarksburg 7 1/2'
- 6) WELL OPERATOR PETROLEUM DEVELOPMENT CORPORATION 7) DESIGNATED AGENT STEVEN R. WILLIAMS  
 Address PO BOX 26, 103 EAST MAIN STREET Address PO BOX 26, 103 EAST MAIN STREET  
BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name STEPHEN CASEY  
 Address RT 2, BOX 232-D  
JANE LEW, WV 26378
- 9) DRILLING CONTRACTOR: Name \_\_\_\_\_ Address \_\_\_\_\_
- 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, BENSON
- 12) Estimated depth of completed well, 5000 feet
- 13) Approximate trata depths: Fresh, 40; 229 feet; salt, 1500 feet.
- 14) Approximate coal seam depths: 628 Is coal being mined in the area? Yes  / No  /

15) 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	H-40	42#	x		30			Kinds
Fresh water									Sizes
Coal									
Intermediate	8 5/8	J-55	20/23#	x		1150	1150	cement to surface (neat cement) 400 sks <i>or as required by rule 15.01</i>	Depths
Production	4 1/2	J-55	10.5#	x		5000	5000		Perforations:
Tubing									Top Bottom
Liners									

**OFFICE USE ONLY  
DRILLING PERMIT**

Permit number 47-033-3159

Date February 22, 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 February 22, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>116</u>	<u>MU</u>	<u>MU</u>	<u>MU</u>	<u>836 439</u>

*Margaret J. Bass*  
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

File

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

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FEB 24 1982  
OIL & GAS DIV.  
DEPT. OF MINES



FORM IV-2(B) FILE COPY  
Reverse

**OFFICE USE ONLY**

**PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK**

4) WELL LOCATION: District \_\_\_\_\_, County \_\_\_\_\_, Township \_\_\_\_\_, Range \_\_\_\_\_, Section \_\_\_\_\_, T10N R10E S10E

5) WELL OPERATOR: Name \_\_\_\_\_, Address \_\_\_\_\_

6) DRILLING CONTRACTOR: Name \_\_\_\_\_, Address \_\_\_\_\_

7) PROPOSED WELL WORK:  Drill  Redrill  Plug off old formation  Perforate new formation

8) OIL & GAS INSPECTOR TO BE NOTIFIED: Name \_\_\_\_\_, Address \_\_\_\_\_

9) GEOLOGICAL TARGET FORMATION: \_\_\_\_\_

10) APPROXIMATE COAL SEAM DEPTH: \_\_\_\_\_

11) ESTIMATED DEPTH OF COMPLETED WELL: \_\_\_\_\_

12) APPROXIMATE COAL SEAM DEPTH: \_\_\_\_\_

13) IS COAL BEING MINED IN THE AREA? Yes  No

**OFFICE USE ONLY**

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

Date	Date(s)

Application received \_\_\_\_\_ Follow-up inspection(s) \_\_\_\_\_

Well work started \_\_\_\_\_

Completion of the drilling process \_\_\_\_\_

Well Record received \_\_\_\_\_

Reclamation completed \_\_\_\_\_

**OTHER INSPECTIONS**

Reason: \_\_\_\_\_

Reason: \_\_\_\_\_

Band	Agent	Plan	Casing	Log

NOTE: Keep one copy of this permit posted at the drilling location.



1) Date: \_\_\_\_\_, 19\_\_\_\_\_  
 2) Operator's Well No. Ray Harton #1  
 3) API Well No. 47  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

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

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas xx /  
 B (If "Gas", Production xx / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow xx /)
- 5) LOCATION: Elevation: 1311' Watershed: Davison Run  
 District: Simpson County: Harrison Quadrangle: Clarkeburg 7 1/2'
- 6) WELL OPERATOR PETROLEUM DEVELOPMENT CORPORATION 7) DESIGNATED AGENT STEVEN R. WILLIAMS  
 Address PO BOX 26, 103 EAST MAIN STREET BRIDGEPORT, WV 26330 Address PO BOX 26, 103 EAST MAIN STREET BRIDGEPORT, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name STEPHEN CASZY Name \_\_\_\_\_  
 Address RT 2, BOX 232-D JANE LEW, WV 26378 Address \_\_\_\_\_
- 10) PROPOSED WELL WORK: Drill xx / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate \_\_\_\_\_ /  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_ /  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, HEINSON  
 12) Estimated depth of completed well, 5000 feet  
 13) Approximate strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ /
- 15) CASING AND TUBING PROGRAM

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 OIL & GAS DIV.  
 DEPT. OF MINES

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	H-40	42#	x		30			Kinds
Fresh water									
Coal									Sizes
Intermediate	5 1/8	J-55	20/23#	x		1150	1150	cement to surface (heat cement)	Depths set
Production	1 1/2	J-55	10.5#	x		5000	5000	400 sks	
Tubing									
Liners									Perforations: Top Bottom

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The 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.

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 the filing of the Application.

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.

*Ray A. Harton*

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

By \_\_\_\_\_

Its \_\_\_\_\_

1) Date: \_\_\_\_\_, 19\_\_\_\_  
2) Operator's  
Well No. Harron #1  
3) API Well No. 47-033-3159  
State County Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OFFICE OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name Ray A. Harron  
Address P.O. Box 400  
Bridgeport, West Virginia 26330  
(ii) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

5(i) COAL OPERATOR \_\_\_\_\_  
Address \_\_\_\_\_

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Ray A. Harron  
Address P.O. Box 400  
Bridgeport, West Virginia 26330

Name \_\_\_\_\_  
Address \_\_\_\_\_

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

Check and provide one of the following:  
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.  
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes  No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.



The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by Steven A. Williams this 1st day of February, 1985. My commission expires August 6, 1992.  
Deborah Alessio  
Notary Public, Harrison County, State of West Virginia

WELL OPERATOR Petroleum Development Corporation  
By [Signature]  
Its President  
Address P.O. Box 26  
Bridgeport, West Virginia 26330  
Telephone 304/842-6256

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OIL & GAS DIV.  
DEPT. OF MINES

I N S T R U C T I O N S T O A P P L I C A N T

**CONCERNING THE LINE ITEMS:**

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § § 22-4-11(d, e).

**CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:**

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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 § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

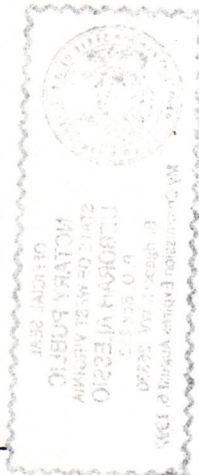
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book Page
-----------------------	-----------------------	---------	-----------

Ray A. Harron & Carolyn	Petroleum Development Corp.	.125	1143/387
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1) Date: \_\_\_\_\_, 19\_\_\_\_  
 2) Operator's Well No. \_\_\_\_\_  
 3) API Well No. 47  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

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

4) WELL TYPE: A Oil \_\_\_\_\_ / Gas \_\_\_\_\_ /  
 B (If "Gas", Production) \_\_\_\_\_ / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow xx /  
 5) LOCATION: Elevation: \_\_\_\_\_ Watershed \_\_\_\_\_  
 District: \_\_\_\_\_ County: Harrison Quadrangle: Clarksburg 7 1/2

6) WELL OPERATOR \_\_\_\_\_ 7) DESIGNATED AGENT \_\_\_\_\_  
 Address \_\_\_\_\_ Address \_\_\_\_\_

8) OIL & GAS INSPECTOR TO BE NOTIFIED Name STEPHEN CASEY  
 Address \_\_\_\_\_  
 9) DRILLING CONTRACTOR: Name \_\_\_\_\_  
 Address \_\_\_\_\_

10) PROPOSED WELL WORK: Drill xx / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_

11) GEOLOGICAL TARGET FORMATION, BENSON  
 12) Estimated depth of completed well, \_\_\_\_\_ feet  
 13) Approximate trata depths: Fresh, \_\_\_\_\_ feet, salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: \_\_\_\_\_ feet. Is coal being mined in the area? Yes \_\_\_\_\_ / No \_\_\_\_\_

15) 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		
Conductor	3/4	J-40	42.7			30	Kinds
Fresh water							
Coal							Sizes
Intermediate							Depths set
Production	1 1/2	J-55	70.3			5000	
Tubing							
Liners							Perforations

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein. I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.) NAME: \_\_\_\_\_  
 By \_\_\_\_\_ Date \_\_\_\_\_  
 Its \_\_\_\_\_ Date \_\_\_\_\_  
 (For execution by natural persons) \_\_\_\_\_ Date: \_\_\_\_\_  
 (Signature) \_\_\_\_\_  
 \_\_\_\_\_ Date: \_\_\_\_\_  
 (Signature) \_\_\_\_\_

RECEIVED  
 FEB 14 1985  
 OIL & GAS DIV.  
 DEPT. OF MINES

**INSTRUCTIONS TO SURFACE OWNERS  
AND  
EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT  
ON OIL AND GAS WELL WORK PERMIT**

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

**NOTE: You are not required to file any comment at all.**

**Where to file comments and obtain additional information:**

Administrator of the Office of Oil and Gas  
West Virginia Department of Mines  
1615 Washington Street East  
Charleston, West Virginia 25311  
(304) 348-2057

**Who may file comments?** If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

**Time limits for comments.** The law requires these materials to be delivered on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments as provided in **Methods for Filing Comments** below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

**Methods for filing comments.** Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- "(1) The proposed well work will constitute a hazard to the safety of persons; or
- "(2) The plan for soil erosion and sediment control is not adequate or effective; or
- "(3) Damage would occur to publicly owned lands or resources; or
- "(4) The proposed well work fails to protect fresh water sources or supplies."

**If you want a copy of the permit** as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

**List of Water Testing Laboratories.** The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

**APPLICATION**  
**WV General NPDES Permit for Oil & Gas**  
**Drilling Pit Waste Discharge**

Permit No. \_\_\_\_\_  
 47-033-3159

**1) APPLICATION (To Be Completed By Company)**

1. Company Name Petroleum Development Corporation  
 Mailing Address P.O. Box 26 Bridgport West Virginia 26330  
 Telephone 304/842-6256 Well Name Harron #1
2. Name of stream that may be discharged to: Unknown  
 A tributary of: Hinkle Lake
3. Treatment and method of pit disposal most likely to be utilized (method not necessarily restricted to this):  
Lime
4. Name of person supervising discharge: PKC Inc. - Charles Krushansku  
 Telephone 304/292-1265 Date Approved \_\_\_\_\_
5. By completing and submitting this application I agree to adhere to the guidance and provisions of the interim experimental general permit system. I understand that participation in the program does not prohibit enforcement action for violation of the terms of this general permit or some other applicable law or regulation.  

Evel E Morgan 4-9-85  
 Signature Date

**2) NOTIFICATION (To Be Completed By DWR)**

1. Initial Company contact: (Approximately 7 days prior to discharge)  
 Date \_\_\_\_\_ Individual \_\_\_\_\_  
 Proposed discharge date 5-6-85  
 Type of disposal method selected land fill  
 Volume of waste 100,000 Discharge rate 100 GPM CFS \_\_\_\_\_  
 Time projected for discharge 7 DAYS DAYS \_\_\_\_\_  
 Receiving Stream flow rate N/A CFS \_\_\_\_\_  
 Objection \_\_\_\_\_ No Objection
2. Final Company contact: (48 hours required notice)  
 Date 4-30-85 Individual V. Leon  
 Final discharge date 5-6-85  
 Objection \_\_\_\_\_ No Objection

**INSPECTION (To Be Completed By DWR)**

1. 208 Practices - Acceptable \_\_\_\_\_ Not Acceptable   
 Comments: Access Road Drainage Ditches in Very Poor Condition - 5-9-85
2. Compliance with general permit interim guidelines: Acceptable \_\_\_\_\_ Not Acceptable   
 Comments: Access Road Drainage Ditches in Very Poor Condition had pollution to Hinkle Lake water  
190
3. Division of Water Resources Action Taken: Took Legal Action  
 Action Recommended: \_\_\_\_\_

4. Parameters (Prior to discharge (if any) at discharge):  
 pH 9.5 Total-Pb \_\_\_\_\_ TOC \_\_\_\_\_  
 Chloride \_\_\_\_\_ TSS \_\_\_\_\_ Conductivity \_\_\_\_\_  
 Total Fe 22.0 Total Cu \_\_\_\_\_  
5-6-85



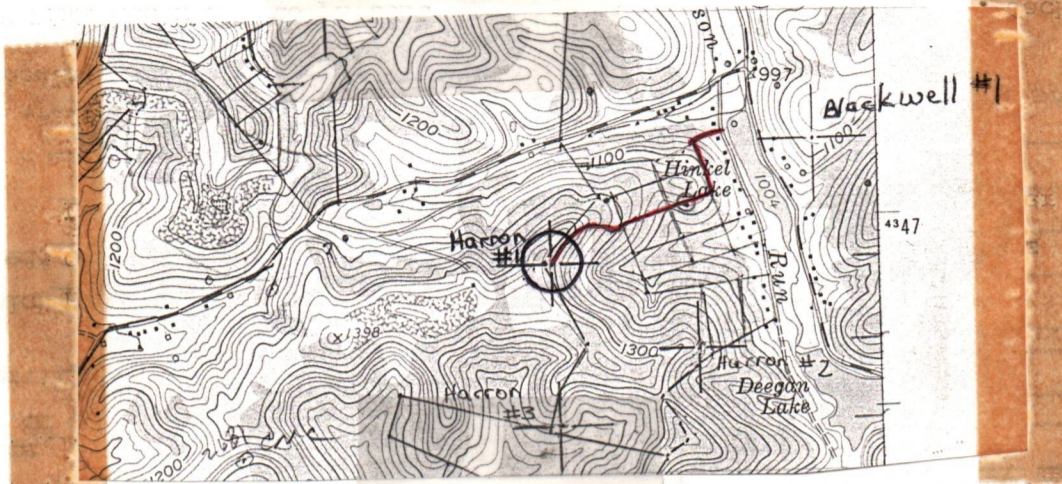
ATTACH OR PHOTOCOPIY SECTION OF INVOLVED TOPOGRAPHIC MAP.

QUADRANGLE Clarksburg 7 1/2'

LEGEND

Well Site

Access Road

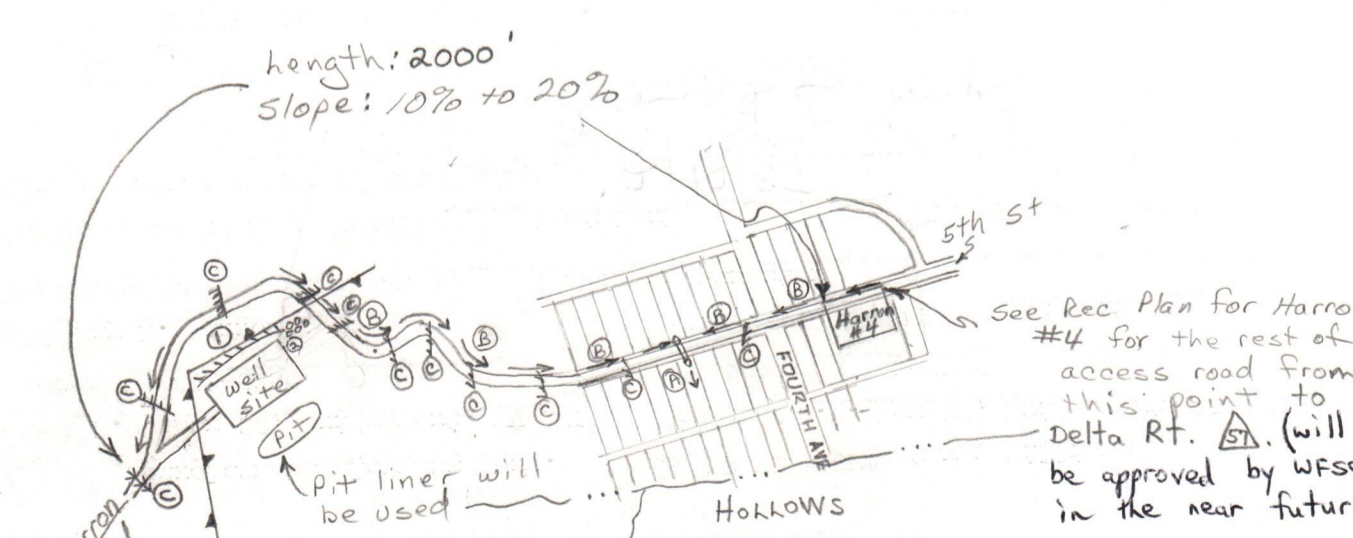


WELL SITE PLAN

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

LEGEND

Property boundary	Diversion
Road	Spring
Existing fence	Wet spot
Planned fence	Building
Stream	Drain pipe
Open ditch	Waterway



To Harrison #2 and #3 (See Access Rd for Harrison #3) (will be approved by WFS&D in the near future)

See Rec. Plan for Harrison #4 for the rest of access road from this point to Delta Rt. 5A. (will be approved by WFS&D in the near future)

- ⊗ Topsoil will be saved for reclamation work.
- ⊗ Timber will be cut and stacked for easy access.
- ⊗ Natural vegetation (filter strip) will remain undisturbed in areas between construction & natural water courses.
- ⊗ Place staked hay bales in ditch line for sediment control.



DATE February 6, 1985  
WELL NO. Harron No. 1  
API NO. 47-033-3159

State of West Virginia  
Department of Mines  
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Petroleum Development Corp.

Address P.O. Box 26, Bridgeport, WV 26330

Telephone 842-6256

LANDOWNER Ray A. Harron

SOIL CONS. DISTRICT West Fork

Telephone 842-6256

Address P.O. Box 26, Bridgeport, WV 26330

DESIGNATED AGENT Steven Williams

This plan has been reviewed by West Fork SCD. All corrections and additions become a part of this plan:

2/12/85  
(Date)  
Kenneth E. Knight  
(SCD Agent)

ACCESS ROAD

Structure Culvert (accord. to O&G Manual) (at natural drains) (A)

Spacing 18" diameter with rippoped outlet  
Page Ref. Manual 2.7

Structure Drainage ditch (B)

Spacing Inside road cuts  
Page Ref. Manual 2.12

Structure Cross Drains (C)

Spacing 45' to 80' apart with rippoped outlet  
Page Ref. Manual 2.1

Structure Diversion ditch (1)

Material earth

Page Ref. Manual 2.12

Structure Rip-rap (2)

Material stone

Page Ref. Manual 2.9

Structure (3)

Material

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

Woods

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\* Orchard grass 12 lbs/acre

Landing clover 3 lbs/acre

lbs/acre

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

\* Lime according to pH test

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

PLAN PREPARED BY David L. Jackson

ADDRESS P.O. Box 969

Buckhannon, WV 26201

PHONE NO.

lbs/acre

Landing clover 3 lbs/acre

Seed\* Orchard grass 12 lbs/acre

Mulch Hay 2 Tons/acre

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

\* Lime 3 Tons/acre or correct to pH 6.5

Treatment Area II

Woods

RECEIVED

OIL & GAS DIV.  
DEPT. OF MINES

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OIL & GAS DIV.  
DEPT. OF MINES

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.  
Perforated the Benson with 13 shots (4611'-15'). Performed gelled H2O frac w/N2 assist using 608 bbl of sand laden fluid (15,000# of 80/100 sand and 50,000# of 20/40 sand). Also used 71,000 scf of N2.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
KB - GL			0	10	
sand, shale			10	1406	1/4" stream H2O @ 86'; 3/4" stream
little lime			1406	1422	H2O @ 361'; 1 3/4" stream H2O @
sand, shale, redrock			1422	1467	920'; 2 3/4" stream H2O @ 950'
big lime			1467	1524	coal @ 190'; 697'; 770'
big injun			1524	1630	
sand, shale			1630	1966	gas @ 1675'; 4/10 = 1"w/H2O
50 foot			1966	2014	
sand, shale			2014	2017	
30 foot			2017	2034	
sand, shale			2034	2130	gas @ 2080'; 4/10 = 1"w/H2O
gordon stray			2130	2136	
sand, shale			2136	2146	
gordon			2146	2160	
sand, shale			2160	2302	gas @ 2267'; 4/10 = 1"w/H2O
4th sand			2302	2325	
sand, shale			2325	2353	
4th 'A'			2353	2389	
sand, shale			2389	2501	gas @ 2424'; 2/10 = 7"w/H2O
5th sand			2501	2526	
sand, shale			2526	3090	gas @ 2612'; 2/10 = 7"w/H2O
speechley			3090	3206	
sand, shale			3206	3293	
balltown			3293	3403	gas @ 3304'; 40/10 = 2"w/H2O
sand, shale			3403	4374	gas @ 3584'; 42/10 = 2"w/H2O
riley			4374	4440	gas @ 4054'; 36/10 = 2"w/H2O
sand, shale			4440	4592	gas @ 4364'; 40/10 = 2"w/H2O
benson			4592	4616	gas @ 4582'; 30/10 = 2"w/H2O
sand, shale			4616	4718	TD logger
				4735	TD driller
					gas @ 4643'; 40/10 = 2"w/H2O
					gas @ TD; 62/10 = 2" w/H2O

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION  
Well Operator  
By: [Signature]  
Date: 4/22/85

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

RECEIVED

IV-35 MAY 22 1985  
(Rev 8-81) OIL & GAS DIVISION  
DEPT. OF MINES



State of West Virginia  
Department of Mines  
Oil and Gas Division

Date 3/25/85  
Operator's Well No. #1  
Farm Ray Harron  
API No. 47 - 033 - 3159

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas xx / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production xx / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow xx /)

LOCATION: Elevation: 1321' Watershed Davisson Run  
District: Simpson County Harrison Quadrangle Clarksburg 7 1/2'

COMPANY PETROLEUM DEVELOPMENT CORPORATION  
ADDRESS PO BOX 26, BRIDGEPORT, WV 26330  
DESIGNATED AGENT STEVEN R. WILLIAMS  
ADDRESS PO BOX 26, BRIDGEPORT, WV 26330  
SURFACE OWNER RAY A. HARRON  
ADDRESS PO BOX 400, BRIDGEPORT, WV 26330  
MINERAL RIGHTS OWNER RAY A. HARRON & CAROLYN  
ADDRESS PO BOX 400, BRIDGEPORT, WV 26330  
OIL AND GAS INSPECTOR FOR THIS WORK STEPHEN  
CASEY RT 2, BOX 232-D ADDRESS JANE LEW, WV 26378  
PERMIT ISSUED FEBRUARY 22, 1985  
DRILLING COMMENCED MARCH 6, 1985  
DRILLING COMPLETED MARCH 11, 1985

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1179'	1179'	300 sks.
7			
5 1/2			
4 1/2	4684'	4684'	550 sks
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION BENSON Depth 5000 feet  
Depth of completed well 4735 feet Rotary xx / Cable Tools  
Water strata depth: Fresh 86; 361 feet; Salt 920; 950 feet  
Coal seam depths: 290; 697; 770 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation BENSON Pay zone depth 4611-15 feet  
Gas: Initial open flow not taken Mcf/d Oil: Initial open flow n/a Bbl/d  
Final open flow 1185 Mcf/d Final open flow n/a Bbl/d  
Time of open flow between initial and final tests 72 hours  
Static rock pressure 2150 psig (surface measurement) after \_\_\_ hours shut in  
(If applicable due to multiple completion--)  
Second producing formation Pay zone depth \_\_\_ feet  
Gas: Initial open flow \_\_\_ Mcf/d Oil: Initial open flow \_\_\_ Bbl/d  
Final open flow \_\_\_ Mcf/d Oil: Final open flow \_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_ hours  
Static rock pressure \_\_\_ psig (surface measurement) after \_\_\_ hours shut in

(Continue on reverse side)

HARR

3159

PS Form 3811, Dec. 1980

SENDER: Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

- 1. The following service is requested (check one).
  - Show to whom and date delivered .....
  - Show to whom, date, and address of delivery.
- 2.  RESTRICTED DELIVERY  
*(The restricted delivery fee is charged in addition to the return receipt fee.)*

TOTAL \$

3. ARTICLE ADDRESSED TO:  
Willis G. Tetrick, Jr.  
Box 267  
Clarksburg, WV 26301

4. TYPE OF SERVICE: ARTICLE NUMBER

REGISTERED  INSURED P480235707

CERTIFIED  COD

EXPRESS MAIL

(Always obtain signature of addressee or agent)

I have received the article described above.  
SIGNATURE  Addressee  Authorized agent

C. R. Wallace  
DATE OF DELIVERY  
DEC 17 1984



6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE:

7a. EMPLOYEE'S INITIALS

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL  
CN CD #1282

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

RECEIVED  
MAR 1 1 1985

INSPECTOR'S WELL REPORT

Permit No. 33-3159

OIL & GAS DIVISION  
DEPT. OF MINES  
Oil or Gas Well  
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>Petrof. Devel. Co.</u>	Size			
Address	16			Kind of Packer
Farm <u>R Harrison</u>	13			
Well No. <u>1</u>	10			Size of
District <u>Simpson</u> County <u>Harr.</u>	8 1/4			
Drilling commenced <u>3-6-85</u>	6 3/8			Depth set
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top
Volume _____ Cu. Ft.				Perf. bottom
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names UPI 6

Remarks:

3-6-85  
DATE

Steve Casey  
DISTRICT WELL INSPECTOR

Form 26  
2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

RECEIVED  
MAY 1 1982

Permit No. \_\_\_\_\_

Well No. \_\_\_\_\_

COMPANY \_\_\_\_\_ ADDRESS \_\_\_\_\_

FARM \_\_\_\_\_ DISTRICT \_\_\_\_\_ COUNTY \_\_\_\_\_

Filling Material Used \_\_\_\_\_

Liner	Location	Amount	Packer	Location			
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST	

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

Remarks: \_\_\_\_\_

\_\_\_\_\_ DATE I hereby certify I visited the above well on this date.

\_\_\_\_\_  
DISTRICT WELL INSPECTOR

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

RECEIVED

MAR 14 1985

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

DEPT. OF MINES

Oil or Gas Well  
(KIND)

Permit No. 33-3159

Company Petrol. Devel. Co.  
 Address \_\_\_\_\_  
 Farm Harron  
 Well No. 1  
 District Simpson County Harr.  
 Drilling commenced 3-6-85  
 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 86 361 920 952 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 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ Date \_\_\_\_\_  
 NAME OF SERVICE COMPANY \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT 290 FEET 60 INCHES  
697 FEET 48 INCHES 770 FEET 60 INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

Drillers' Names UDF 6

Remarks: 8 5/8 1179' 300 SKS. BJH

3-8-85

DATE

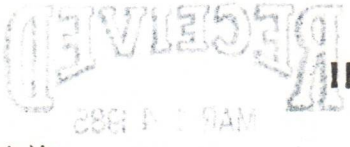
Steve Casey

DISTRICT WELL INSPECTOR



Form 26  
2/16/82

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



### INSPECTOR'S PLUGGING REPORT

Permit No. \_\_\_\_\_

Well No. \_\_\_\_\_

COMPANY \_\_\_\_\_ ADDRESS \_\_\_\_\_

FARM \_\_\_\_\_ DISTRICT \_\_\_\_\_ COUNTY \_\_\_\_\_

Filling Material Used \_\_\_\_\_

Liner	Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING	
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

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

Remarks: \_\_\_\_\_

\_\_\_\_\_ I hereby certify I visited the above well on this date.  
DATE

\_\_\_\_\_  
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OFFICE OF OIL AND GAS  
CHARLESTON 25305  
FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT

Company: PETROLEUM DEVE CORP  
Farm: HARRON, RAY A.

Well: HARRON 1

Permit No. 47- 33-3159 (2-22-85)  
County: HARRISON

Rule	Description	In Compliance	
		Yes	No
23.06	Notification prior to starting work	-----	-----
25.04	Prepped before drilling to prevent waste	-----	-----
25.03	High pressure drilling	-----	-----
16.01	Required permits at wellsite	-----	-----
15.03	Adequate Fresh Water Casings	-----	-----
15.02	Adequate Coal Casings	-----	-----
15.01	Adequate Production Casings	-----	-----
15.04	Adequate Cement Strength	-----	-----
15.05	Cement Type	-----	-----
23.02	Maintained Access Roads	-----	-----
25.01	Necessary Equipment to Prevent Waste	-----	-----
23.04	Reclaimed Drilling Pits	-----	-----
23.05	No Surface or Underground Pollution	-----	-----
23.07	Requirements for Production & Gathering Pipelines	-----	-----
16.01	Well Records on Site	-----	-----
16.01	Well Records Filed	-----	-----
16.01	Identification Markings	-----	-----

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Steve Casey  
DATE 8-28-85

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

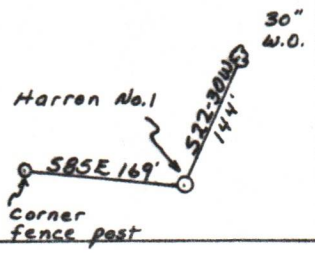
T.H. Webb  
Administrator

September 9, 1985  
Date

MW 2-21-85

3425

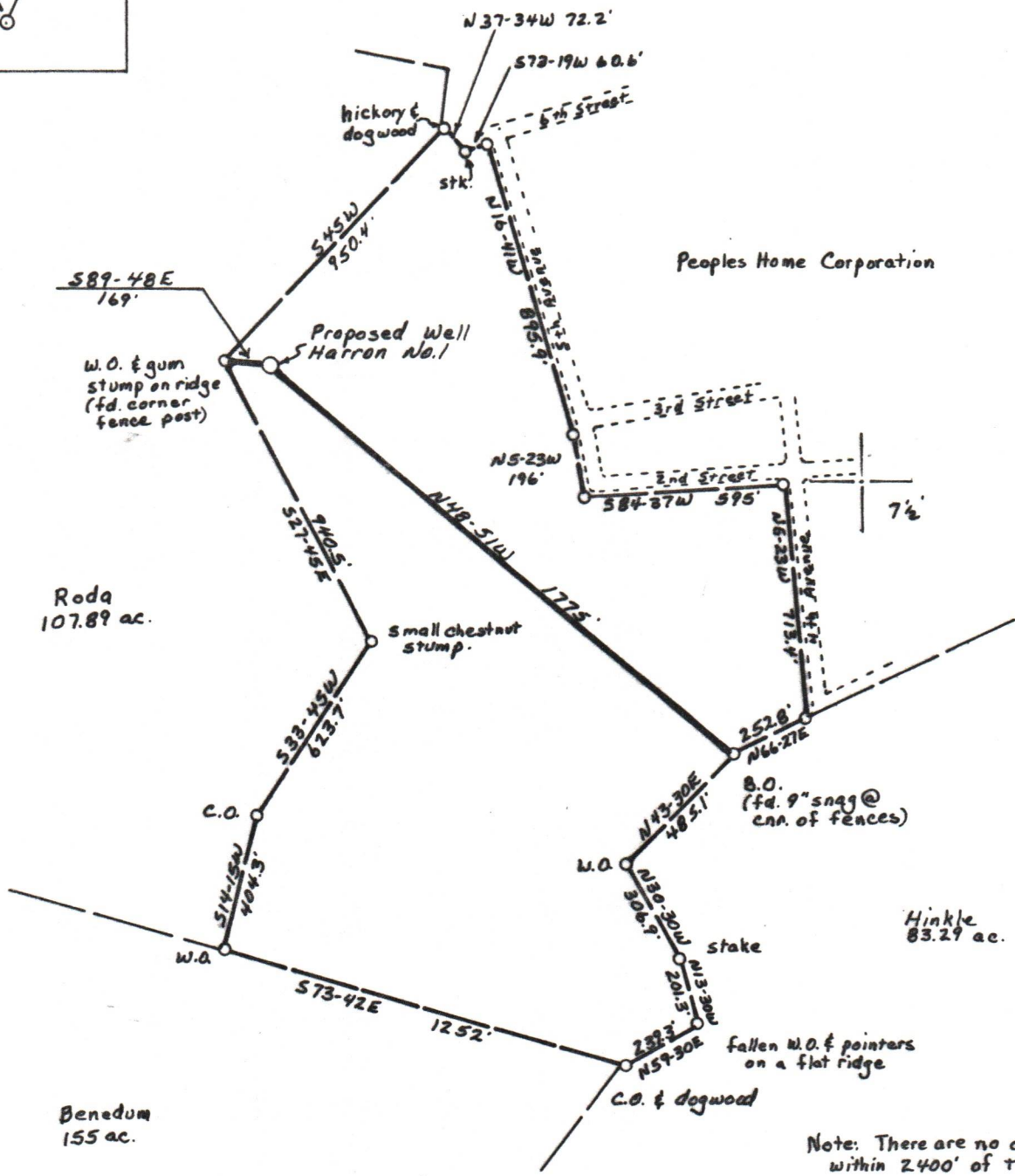
References



LATITUDE 39-17-30N

LONGITUDE 80-15-00W

NORTH

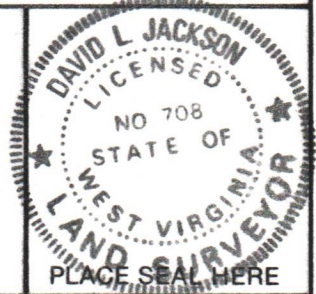


Note: There are no other wells within 2400' of this location

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. 1  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION B.M. 2900' NE of Location; elev. 997

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) David L. Jackson  
 R.P.E. \_\_\_\_\_ L.L.S. 708



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE January 25, 1985  
 OPERATOR'S WELL NO. Harron #1  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 STATE COUNTY PERMIT 47 - 033 - 3159

LOCATION: ELEVATION 1311 WATERSHED Davison Run  
 DISTRICT Simpson COUNTY Harrison

QUADRANGLE Clarksburg 7 1/2'  
 SURFACE OWNER Ray A. Harron ACREAGE 60  
 OIL & GAS ROYALTY OWNER Ray A. Harron LEASE ACREAGE 60

LEASE NO. 379000

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 5000'

WELL OPERATOR Petroleum Development Corp. DESIGNATED AGENT Steven Williams  
 ADDRESS P.O. Box 26; Bridgeport, WV 26330 ADDRESS P.O. Box 26; Bridgeport, WV 26330

FORM IV-6 (8-78)  
 H.T. HALL

COUNTY NAME  
 PERMIT