



1) Date: _____, 19____
 2) Operator's Well No. Ray Harron #2
 3) API Well No. 47 - 033 - 3162
 State _____ County _____ Permit _____

RECEIVED
 FEB 21 1985

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

OIL & GAS DIVISION

- 4) WELL TYPE: Oil Gas
 B (If "Gas", Production Underground storage _____/ Deep _____/ Shallow /)
- 5) LOCATION: Elevation: 1247' 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 BRIDGEPORT, WV 26330 Address: PO BOX 26, 103 EAST MAIN STREET BRIDGEPORT, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: STEPHEN CASEY *38200*
 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 strata depths: Fresh, 40; 165 feet; salt, 1436 feet.
- 14) Approximate coal seam depths: 568 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									
Coal									Sizes
Intermediate	8 5/8	J-55	20/23#	x		1075	1075	cement to surface (neat cement)	
Production	4 1/2	J-55	10.5#	x		5000	5000	400 sks	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-033-3162 Date February 27, 1985

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 27, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fee:
<u>116</u>	<u>JL</u>	<u>ML</u>	<u>ML</u>	<u>836444</u>

Margaret J. Kasse
 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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PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1. LOCATION: BRIDGEPORT, WV 26330

2. WELL OPERATOR: STEPHEN CASBY, BRIDGEPORT, WV 26330

3. OIL & GAS INTEREST TO BE NOTIFIED: JANE LINDY, WV 26378

4. PROPOSED WELL WORK: Drilling, Completion, Production

5. GEOLOGICAL LABEL FORATION: BRIDGEPORT

6. APPROXIMATE DEPTH OF COMPLETION: 1430 feet

7. APPROXIMATE DEPTH OF TEST: 400 feet

8. APPROXIMATE DEPTH OF CASING: 200 feet

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		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____

Reason: _____

Home	11/6
Agency	for M4/10/87
Field	
Casing	
Test	



1) Date: _____, 19____
 2) Operator's Ray Harron #2
 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 xx /
 B (If "Gas", Production xx / Underground storage _____ / Deep _____ / Shallow xx /)
- 5) LOCATION: Elevation: 1247' 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 9) DRILLING CONTRACTOR:
 Name STEPHEN CASEY Name _____
 Address RT 2, BOX 232-D Address _____
JANE LEW, WV 26378
- 10) PROPOSED WELL WORK: Drill xx / Drill deeper _____ / Redrill _____ / Stimulate _____ /
 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
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 13) Approximate trata depths: Fresh, 40; 165 feet; salt, 1436 feet.
 14) Approximate coal seam depths: 568 Is coal being mined in the area? Yes _____ / No xx /

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									
Coal									Sizes
Intermediate	8 5/8	J-55	20/23#	x		1075	1075	ement to surface	(neat cement)
Production	4 1/2	J-55	10.5#	x		5000	5000	400 sks	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

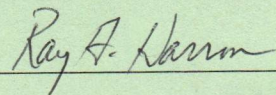
INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

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.



 Date: _____, 19____ By _____
 Its _____

INSTRUCTIONS TO APPLICANT

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:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
Ray A. and Carolyn Harron	Petroleum Development Corp.	.125	1143/387

1) Date: _____, 19____
2) Operator's Well No. Harron #2
3) API Well No. 47-033-3162
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.

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FEB 21 1985
OIL & GAS DIVISION
DEPT. OF MINES

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.
Rebecca Adams
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



1) Date: _____, 19____
 2) Operator's Well No. Ray Harron #2
 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**

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Production	4 1/2	J-55	10.5#	x		5000	5000	100 sks	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

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.)

(For execution by natural persons)

NAME: _____

Ray A. Harron

 (Signature) _____ Date: _____

By [Signature]

 Its _____ Date _____

 (Signature) _____ Date: _____

**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 PTE Waste Discharge

V SW 85 Permit No. _____
 47-033-3162

1) APPLICATION (To Be Completed By Company)

- Company Name Petroleum Development Corporation
 Mailing Address P.O. Box 26, Bridgeport, West Virginia 26330
 Telephone 304/842-6256 Well Name Harron #2
- Name of stream that may be discharged to: Unknown
 A tributary of: Hinkle Lake
- Treatment and method of pit disposal most likely to be utilized (method not necessarily restricted to this):
Lime
- Name of person supervising discharge: PKC Inc. - Charles Krushansky
 Telephone 304/292-1265 Date Approved _____
- 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.

Esel E Morgan 4-9-85
 Signature Date

2) NOTIFICATION (To Be Completed By DWR)

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

INSPECTION (To Be Completed By DWR)

- 208 Practices - Acceptable _____ Not Acceptable
 Comments: Construction of Access Road + Ditches was very poor
- Compliance with general permit interim guidelines: Acceptable _____ Not Acceptable _____
 Comments: _____
- Division of Water Resources Action Taken: _____
 Action Recommended: _____
- Parameters (Prior to discharge (if any) at discharge):
 pH 7.0 Total-Pb _____ TOC _____
 Chloride _____ TSS _____ Conductivity _____
 Total Fe 7.0 Total Cu _____

Peakis 5-6-85

DATE January 25, 1985
 WELL NO. Harron #2
 API NO. 47-033-312



State of West Virginia

Department of Mines
 Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

OIL & GAS DIVISION
 DEPT. OF MINES

FEB 21 1985

RECEIVED

IV-9 (Rev 8-81)

COMPANY NAME Petroleum Development Corp. DESIGNATED AGENT Steven Williams

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

Telephone 842-6256 Telephone West Fork

LANDOWNER Ray A. Harron

SOIL CONS. DISTRICT West Fork

Revegetation to be carried out by Seeding Contractor (Agent)

This plan has been reviewed by West Fork SCD. All corrections

and additions become a part of this plan:

2/19/85
 (Date)
 Kenneth E. Knight
 (SCD Agent)

ACCESS ROAD

THIS REVIEW IS MADE FOR SITE AS SHOWN. A CHANGE OF ELEVATION OF PLUS OR MINUS 10 FT. OR SLOPE OF PLUS OR MINUS 3 PERCENT MAKES THIS PLAN NOT ACCEPTABLE TO WFSCD.

(1) Structure Culverts (accord. to OGC Manual) at natural drains) Spacing 18" diameter with ripped outlet Page Ref. Manual 2.7

(2) Structure Drainage Ditch Spacing Inside road cuts Page Ref. Manual 2.12

(3) Structure Cross Drains Spacing as noted on back section of this plan with ripped outlet Page Ref. Manual 2.1

Material Hay Bales (staked) Page Ref. Manual 2.16

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 Woods
 * 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
 Ladino Clover 3 lbs/acre

Treatment Area II Woods
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 Fertilizer 600 lbs/acre (10-20-20 or equivalent)
 Mulch Hay 2 Tons/acre
 Seed* Orchard Grass 12 lbs/acre
 Ladino Clover 3 lbs/acre

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

* Lime according to pH test

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

PLAN PREPARED BY David L. Jackson
 ADDRESS P.O. Box 969
 Buckhannon, WV 26201
 PHONE NO. 472-9369

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
Perforated the Benson with 13 shots (4457'-67'). Treated the well using a gelled water frac w/N2 assist using 603 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, redrock			10	1371	1 1/2" stream H2O @ 20'; 1/2" stream H2O @ 208'; 1/2" stream H2O @ 365'; 1" stream H2O @ 936'
big lime			1371	1448	
sand, shale			1448	1460	
big injun			1460	1526	coal @ 196'; 540'
sand, shale			1526	1868	gas @ 1577'; 10/10= 1"w/H2O
gantz			1868	1877	
sand, shale			1877	1884	
50 foot			1884	1930	
sand, shale			1930	1937	
30 foot			1937	1944	
sand, shale			1944	2024	gas @ 1983'; 6/10= 1"w/H2O
gordon stray			2024	2045	
sand, shale			2045	2047	
gordon			2047	2067	
sand, shale			2067	2126	
3rd sand			2126	2146	
sand, shale			2146	2197	gas @ 2170'; 4/10= 1"w/H2O
4th sand			2197	2217	
sand, shale			2217	2254	gas @ 2233'; 4/10= 1"w/H2O
4th 'A'			2254	2289	
sand, shale			2289	2395	gas @ 2326'; 12/10= 1"w/H2O
5th sand			2395	2425	gas @ 2420'; 14/10= 1"w/H2O
sand, shale			2425	2995	
speechley			2995	3103	
sand, shale			3103	3229	gas @ 3196'; 10/10= 1"w/H2O
balltown			3229	3312	
sand, shale			3312	4248	gas @ 3414'; 8/10=1" w/H2O
riley			4248	4311	gas @ 4194'; 8/10=1" w/H2O
sand, shale			4311	4437	gas @ 4413'; 18/10= 1"w/H2O
benson			4437	4470	
sand, shale			4470	4634	TD logger
				4662	TD driller
					gas @ 4507'; 100/10= 1"w/H2O
					gas @ TD; 6/10= 2"w/H2O

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION

Well Operator

By: 

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."

IV-35
(Rev 8-85)

RECEIVED

MAY 22 1985

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. #2
Farm RAY HARRON
API No. 47 - 033 - 3162

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: 1247' 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. & CAROLYN HARRON
ADDRESS PO BOX 400, BRIDGEPORT, WV 26330
OIL AND GAS INSPECTOR FOR THIS WORK STEPHEN
CASEY ADDRESS RT 2, BOX 232-D
JANE LEW, WV 26378
PERMIT ISSUED FEBRUARY 27, 1985
DRILLING COMMENCED MARCH 13, 1985
DRILLING COMPLETED MARCH 18, 1985
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	15'	15'	cement to surface
9 5/8			
8 5/8	1063'	1063'	295 sks.
7			
5 1/2			
4 1/2	4593'	4593'	550 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION BENSON Depth 5000 feet
Depth of completed well 4662 feet Rotary xx / Cable Tools _____
Water strata depth: Fresh 20; 208 feet; Salt 365 feet; Salt 936 feet
Coal seam depths: 196; 540 Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation BENSON Pay zone depth 4457-67 feet
Gas: Initial open flow not taken Mcf/d Oil: Initial open flow n/a Bbl/d
Final open flow 1975 Mcf/d Final open flow n/a Bbl/d
Time of open flow between initial and final tests 72 hours
Static rock pressure 2180 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
3162

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

RECEIVED
MAR 25 1985

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 33-3162

Oil or Gas Well _____
(KIND)

Company Petrof. Devel. Co.
 Address _____
 Farm Harron
 Well No. 2
 District Simpson County Harr.
 Drilling commenced 3-13-85
 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 20 208 365 963 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 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 196 FEET 84 INCHES
540 FEET 48 INCHES FEET _____ INCHES
 FEET _____ INCHES FEET _____ INCHES

Drillers' Names CID I 6

Remarks: 8 5/8 1063' 295 SKS. BJH

3-15-85
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
MAR 8 1982
OIL & GAS DIVISION
DEPT. OF MINES

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 25 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 33-3162

Oil or Gas Well _____
(KIND)

Company <u>Petro. Devel. Co.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Heron</u>	16			Kind of Packer _____
Well No. <u>2</u>	13			
District _____ County <u>Harr.</u>	10			Size of _____
Drilling commenced <u>3-13-85</u>	8 1/4			Depth set _____
Drilling completed <u>3-18</u> Total depth <u>4664</u>	6 5/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used _____			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			

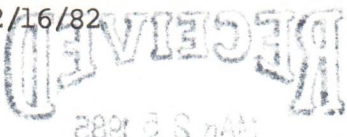
Drillers' Names UDI 6

Remarks:

3-18-85
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

DEPT. OF MINES
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

IV-20
Obverse
1-84

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

9-MAY-85
SEP 05 12 13
PROCL. - OIL & GAS

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

Well: HARRON 2

Permit No. 47- 33-3162
County: HARRISON

(2-27-85)

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 drillins	-----	-----
16.01	Required permits at wellsite	-----	-----
15.03	Adequate Fresh Water Casins	-----	-----
15.02	Adequate Coal Casins	-----	-----
15.01	Adequate Production Casins	-----	-----
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	-----	-----
17	Well Records Filed	-----	-----
17.00	Identification Markings	-----	-----

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

SIGNED Steve Casey
DATE 9-6-85

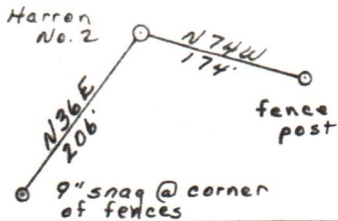
Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T.H. [Signature]

Administrator

September 13, 1985

Date



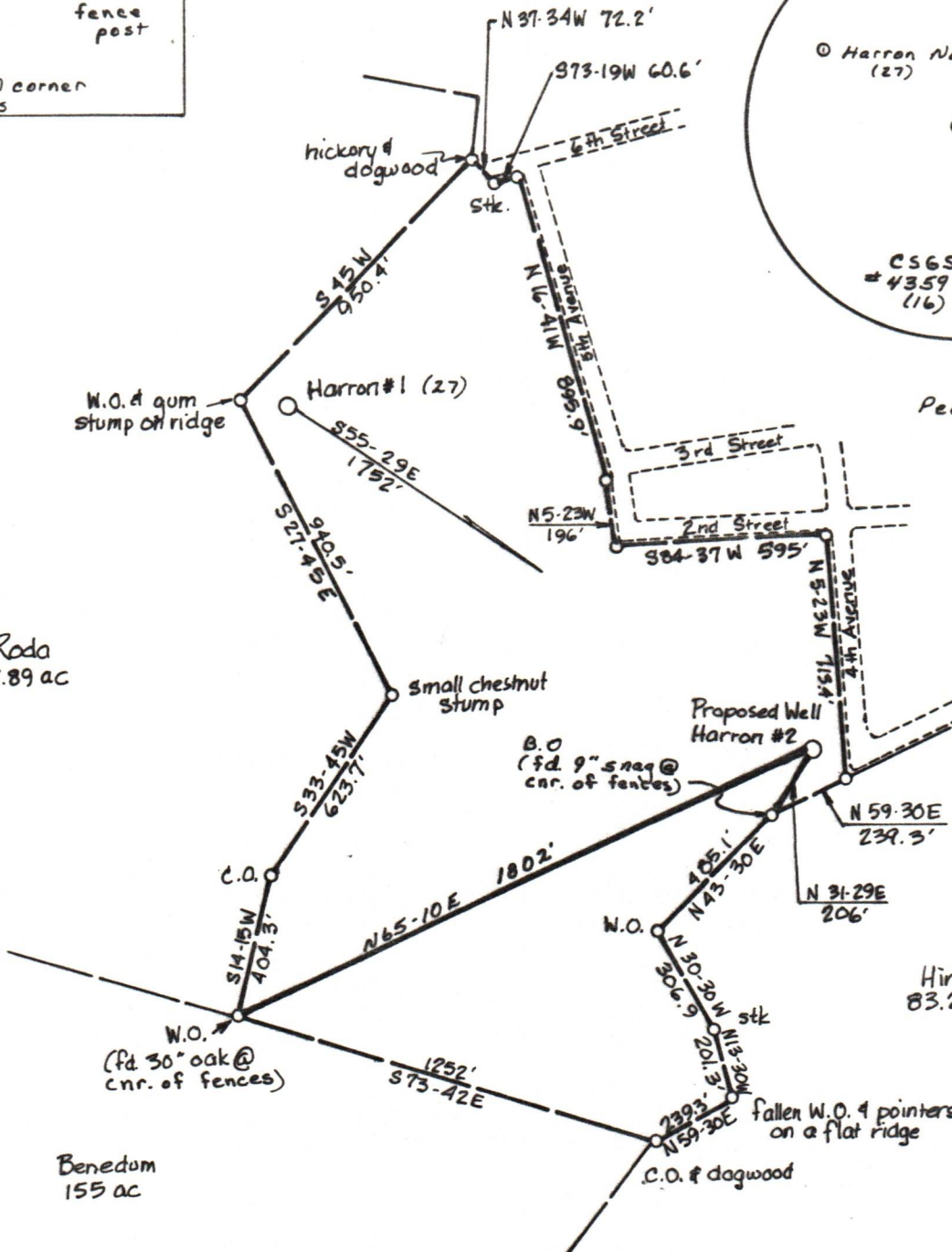
NORTH

Roda 107.89 ac

Benedum 155 ac

Hinkle 83.29 ac

Peoples Home Corp.



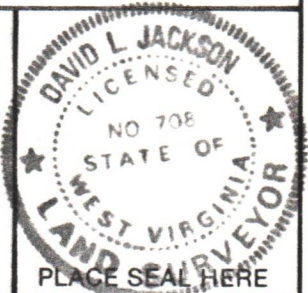
LONGITUDE 80-15-00 N

8525'

(+) 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 BM 2850' 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. _____ I.L.S. 708



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE January 25, 1985
 OPERATOR'S WELL NO. Harron #2
 API WELL NO. _____

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

LOCATION: ELEVATION 1247 WATER SHED Davisson 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 X 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

COUNTY NAME

PERMIT

FORM IV-6 (8-78)

H.T. HALL