



1) Date: _____, 19____
 2) Operator's Well No. Ray Harron #4
 3) API Well No. 47 - 033 - 3163
 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**
DEPT. OF MINES
- 4) WELL TYPE: A Oil / Gas / B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow)
- 5) LOCATION: Elevation: 1126' / 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, 42 feet; salt, 1313 feet.
- 14) Approximate coal seam depths: 441 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	1 3/4	H-40	42#	x		30			Kinds	
Fresh water										
Coal									Sizes	
Intermediate	8 5/8	J-55	20#	x		950	950	cement to surface (neat cement)	Depths set	
Production	4 1/2	J-55	10.5#	x		5000	5000			400 sks
Tubing										
Liners									Perforations:	
									Top Bottom	

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-033-3163

February 27, 1985
Date

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: <u>116</u>	Agent: <u>gc</u>	Plat: <u>mu</u>	Casing: <u>mu</u>	Fee: <u>836440</u>
------------------	------------------	-----------------	-------------------	--------------------

Margaret J. Hesse
 Administrator, Office of Oil and Gas

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

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

File



RECEIVED

OFFICE USE ONLY

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

Form fields for well work details including location, well operator, drilling contractor, and proposed well work description.

Table with columns for casing and tubing program details, including tubing type, size, weight, and length.

OFFICE USE ONLY

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

Table with columns for Date and Date(s) recording key events like application received, well work started, completion of drilling process, well record received, and reclamation completed.

OTHER INSPECTIONS

Reason: [Handwritten notes and signatures]

Table with columns for Bond, Permit, Casing, and Fee.



1) Date: _____, 19____
 2) Operator's Well No. Ray Barron 74
 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: 1126 Watershed: Davison Run
 District: Simpson County: Harrison Quadrangle: Clarksburg 74
- 6) WELL OPERATOR PETROLEUM DEVELOPMENT CORPORATION 7) DESIGNATED AGENT SILVER 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 CASEY 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, _____
- 12) Estimated depth of completed well, _____ feet
- 13) Approximate trata depths: Fresh, 42 feet; salt, 1313 feet.
- 14) Approximate coal seam depths: 441 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		Kinds	Sizes
Conductor	<u>1 3/4</u>	<u>H-40</u>	<u>42#</u>	<u>x</u>		<u>30</u>				
Fresh water										
Coal										
Intermediate	<u>8 5/8</u>	<u>J-55</u>	<u>20#</u>	<u>x</u>		<u>950</u>	<u>950</u>	<u>cement to surface (nest cement)</u>		
Production	<u>4 1/2</u>	<u>J-55</u>	<u>10.5#</u>	<u>x</u>		<u>5000</u>	<u>5000</u>	<u>400 sks</u>		
Tubing										
Liners										

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: _____
 By _____
 Its _____ Date _____

Ray H. Barron
 (Signature) _____ 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.

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-lb(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. & Carolyn Harron	Petroleum Development Corp.	.125	1143/387

- 1) Date: _____, 19
- 2) Operator's Well No. _____
Harron #4
- 3) API Well No. 47-033-8163
State County Permit

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

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

5 (1) COAL OPERATOR

Name Ray A. Harron
Address P.O. Box 400
Bridgeport, West Virginia 26330

(1) Name _____
Address _____

(11) Name _____
Address _____

(111) Name _____
Address _____

5 (1) COAL OPERATOR

Name Ray A. Harron
Address P.O. Box 400
Bridgeport, West Virginia 26330

Name _____
Address _____

5 (11) COAL OWNER(S) WITH DECLARATION ON RECORD:

Name _____
Address _____

5 (111) 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.

erator 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

- Included as the lease 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.)

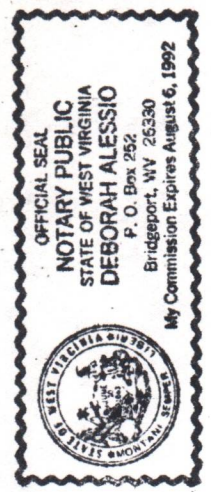
Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, 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 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 D. Williams

This day of February, 1985,
My commission expires August 6, 1992.
Steven D. Williams
Notary Public, Putnam County,
State of West Virginia



RECEIVED
FEB 21 1985
OIL & GAS DIVISION
DEPT. OF MINES

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

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.
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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. & Carolyn Harron	Petroleum Development Corp.		1143/387

- 1) Date: _____
- 2) Operator's Well No. _____
Harron #4
- 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

(1) Name Ray A. and Carolyn S. Harron
Address P.O. Box 400
Bridgeport, West Virginia 26330

(11) Name Ralph B. Ewing
Address P.O. Box G
Hartfield, VA. 23071

(111) Name Kathleen Virginia Gore
Address 1621 San Pasqual
Pasadena, CA. 91106

5(1) COAL OPERATOR

Name Ray A. and Carolyn S. Harron
Address P.O. Box 400
Bridgeport, West Virginia 26330

5(11) COAL OWNER(S) WITH DECLARATION ON RECORD

Name Ralph B. Ewing
Address P.O. Box G
Hartfield, VA. 23071

5(111) 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)
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THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SPECIFIED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO GIVE ANY ACTION AT ALL.

This notice that under Chapter 22 of the West Virginia Code, the underground well of exact purpose 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 plat, which 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) PROVISIONS RIGHTS

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

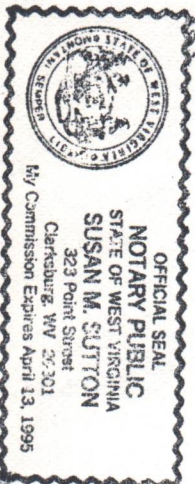
7) ROYALTY PROVISIONS
Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of 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 _____
My commission expires April 13, 1995



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

OIL & GAS DIVISION
DEPT. OF MINES

MAY 31 1985

RECEIVED



1) Date: _____, 19____
 2) Operator's Well No. Ray Harron #4
 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: 1126' Watershed: Davisson Run
 District: Simppon 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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 12) Estimated depth of completed well, 5000 feet
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 14) Approximate coal seam depths: 441 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		Kinds	Sizes
Conductor	11 3/4	H-40	42#	x		30				
Fresh water										
Coal										
Intermediate	8 5/8	J-55	20#	x		950	950	cement to surface (neat cement)		
Production	4 1/2	J-55	10.5#	x		5000	5000	400 sbs		
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 Ray A. Harron

 Its _____

Coal Owner



**Petroleum
Development
Corporation**

103 East Main Street
P. O. Box 26
Bridgeport, West Virginia 26330

Phone: 304-842-3597

ADDITIONAL COAL OWNER


*Kathleen Virginia Gore
1621 San Pasqual
Pasadena, CA. 91106*


RECEIVED
MAY 31 1985
OIL & GAS DIVISION
DEPT. OF MINES

RECEIVED
MAY 31 1985

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Clarksburg 7 1/2'

LEGEND

Well Site 











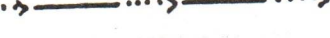

Access Road 



WELL SITE PLAN

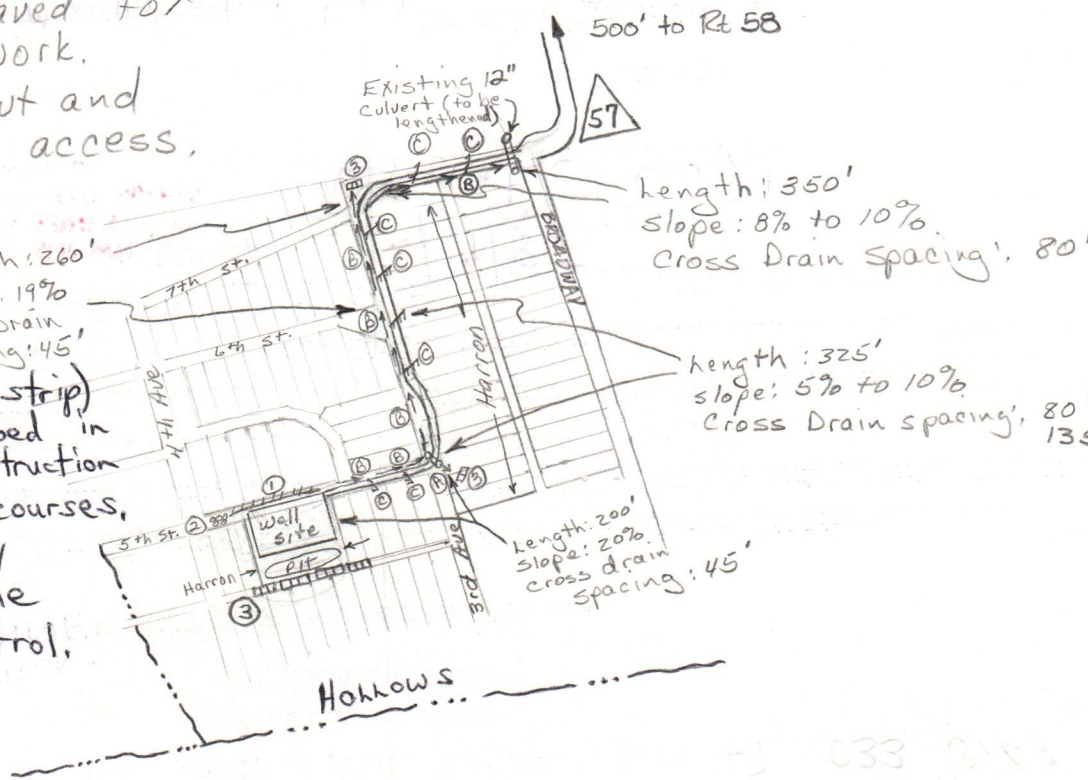
Sketch to include well location, existing access road, roads to be constructed, well site, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

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

- 1) Pit liner will be used.
- 2) Topsoil will be saved for reclamation work.
- 3) Timber will be cut and stacked for easy access.

- 4) Natural vegetation (filter strip) will remain undisturbed in areas between construction & natural water courses.
- 5) Place staked hay bales in ditch line for sediment control.



033 3193

DATE February 6, 1985
 WELL NO. Harron No. 4
 API NO. 47-033-3163

State of West Virginia
 Department of Mines
 Oil and Gas Division



DEPT. OF MINES
 OIL & GAS DIVISION

FEB 21 1985

RECEIVED

IV-9 (Rev 8-81)

COMPANY NAME Petroleum Development Corp.
 Address P.O. Box 26, Bridgeport, WV 26330
 Telephone 842-6256
 LANDOWNER Ray A. Harron
 Telephone 842-6256
 SOIL CONS. DISTRICT West Fork
 Seeding Contractor
 (Agent) _____
 This plan has been reviewed by _____
 and additions become a part of this plan:
 West Fork
 SCD. All corrections

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

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

ACCESS ROAD LOCATION

Structure Culvert (accord. to OTC Manual of Natural (A) drains)
 Spacing 18" diameter with ripped outlet
 Page Ref. Manual 2.7
 Structure Drainage ditch
 Spacing Inside road cuts
 Page Ref. Manual 2.12
 Structure Cross drains
 Spacing as noted on back section of plan with ripped outlet
 Page Ref. Manual 2.1
 Structure Sediment Barrier
 Material hay bales (stacked)
 Page Ref. Manual 2.16
 Structure Rip-rap
 Material stone
 Page Ref. Manual 2.12
 Structure Diversion ditch
 Material earth
 Page Ref. Manual 2.12
 Structure Rip-rap
 Material stone
 Page Ref. Manual 2.9
 Structure Sediment Barrier
 Material hay bales (stacked)
 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

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
 Orchard grass 12 lbs/acre
 Landino clover 3 lbs/acre

Woods
 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
 Orchard grass 12 lbs/acre
 Landino clover 3 lbs/acre

* Lime according to pH test
 *Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium.
 Inoculate with 3X recommended amount.
 NOTES: Please request landowner cooperation to protect new seeding 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. 472-9369



**Petroleum
Development
Corporation**

103 East Main Street
P. O. Box 26
Bridgeport, West Virginia 26330

Phone: 304-842-3597

~~AL~~
~~TO FILE~~
~~COPY OF IV-2(A)~~
~~TO INSPECTOR~~
~~(STORE IN CABINET)~~
MUSA
May 29, 1985

Office of Oil & Gas
Department of Mines
307 Jefferson Street
Charleston, WV 25311

RECEIVED
MAY 31 1985

ATTN: Margaret Hasse

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

Dear Margaret:

Enclosed is the form IV-2A, with the additional surface and coal owners and mail receipts.

These will be the only additional surface owners out of the pooling, that the well location will be on.

This permit has been issued as: Harron #4 (47-033-3163).

Please feel free to call me for any additional information.

Yours very truly

PETROLEUM DEVELOPMENT CORPORATION

Joe Veltri
Land Department

Enclosures

JV/jw

RECEIVED
JUL 10 1985

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

PERFORATED BENSON WITH 13 SHOTS (4369'-89'). STIMULATED ZONE USING A GELLED H2O FRAC WITH N2 ASSIST. USED 15,000# OF 80/100 SAND, 60,000# OF 20/40 SAND AND 76,600 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, RR			10	1218	1" stream H2O @ 68'
Little Lime			1218	1232	coal seam @ 69'
sand, shale			1232	1278	
Big Lime			1278	1392	
Big Injun			1392	1442	gas check @ 1440 6/10 1" H2O
sand, shale			1442	1733	gas check @ 1564 30/10 1" H2O
50 ft			1733	1827	
sand, shale			1827	1853	gas check @ 1841 20/10 1" H2O
30 ft			1853	1866	
sand, shale			1866	1944	
Gordon Stray			1944	1953	
sand, shale			1953	1959	
Gordon			1959	1982	
sand, shale			1982	2044	gas check @ 1994 120/10 2" H2O
3rd			2044	2053	
sand, shale			2053	2110	
4th			2110	2140	
sand, shale			2140	2168	
4th A			2168	2203	
sand, shale			2203	2302	gas check @ 2209 70/10 2" H2O
5th			2302	2338	
sand, shale			2338	2909	gas check @ 2209 70/10 2" H2O
Upper Speechley			2909	2930	
sand, shale			2930	3009	gas check @ 2209 70/10 2" H2O
Speechley			3009	3020	
sand, shale			3020	3144	
Balltown			3144	3401	gas check @ 3162 90/10 2" H2O
sand, shale			3401	3582	gas check @ 3500 50/10 2" H2O
Bradford			3582	3659	
sand, shale			3659	4142	gas check @ 3933 35/10 2" H2O
Riley			4142	4209	
sand, shale			4209	4361	gas check @ 4242 37/10 2" H2O
Benson			4361	4390	gas check @ 4427 55/10 2" H2O
sand, shale			4390	4520	Driller TD 50/10 2" H2O
				4513	Logger TD

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION

Well Operator

By:

[Signature]

Date:

JULY 8, 1985

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

JUL 9 - 1985

IV-35
(Rev 8-81) & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date 7/3/85
Operator's
Well No. #4
Farm RAY HARRON
API No. 47 - 033 - 3163

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: 1126' 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 FEB. 27, 1985

DRILLING COMMENCED JUNE 17, 1985

DRILLING COMPLETED JUNE 22, 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"	18	18	cement to surface
9 5/8			
8 5/8	966	966	240 sks
7			
5 1/2			
4 1/2	4482	4482	530 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION BENSON Depth 5000 feet

Depth of completed well 4603 feet Rotary xx / Cable Tools _____

Water strata depth: Fresh 68 feet; Salt n/a feet

Coal seam depths: 69' Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation BENSON Pay zone depth 4369-89 feet

Gas: Initial open flow no taken Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 1100 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure 1975 psig (surface measurement) after 72 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)

HARRON 3163

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

RECEIVED

JUN 25 1985

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

Permit No. 33-3163

DEPT. of MINES
(KIND)

Company <u>Petrol. Devel. Co.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>R. Harmon</u>	16			Kind of Packer _____
Well No. <u>4</u>	13			Size of _____
District <u>Simpson</u> County <u>Harr.</u>	10			Depth set _____
Drilling commenced <u>6-17-85</u>	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Perf. top _____
Date shot _____ Depth of shot _____	5 3/16			Perf. bottom _____
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 _____			
Rock pressure _____ lbs. _____ hrs.				
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 UDI II

Remarks: 8 5/8 966' 240SKS. BJH.

6-19-85
DATE

Steve Casey
DISTRICT WELL INSPECTOR

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

RECEIVED
JUN 2 1982
OIL & GAS DIVISION
DEPT. OF MINES

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

17-Jul-85

4 SEP 85 8:25
RICH. - CHAS.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION
CHARLESTON 25305
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

Company: PETROLEUM DEVELOPMENT CORP.
Farm: HARRON, RAY A. Well: HARRON 4

Permit No. 47- 33-3163 (2-27-85)
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 Drillings 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	-----	-----
7.05	Identification Markings	-----	-----

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

SIGNED Steve Casey
DATE 8-29-85

Your well record was received and reclamation requirements approved. In accordance with Chapter 22B, Article 1, Section 26, the above well will remain under bond coverage for the life of the well.

T. H. ...
Director-Oil and Gas Division

September 9, 1985
Date

PS Form 3800, Feb. 1982

26330 P 405 250 626
 RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

Sent to
 Ralph B. Ewing
 Street and No.
 PO Box G
 P. O., State and ZIP Code
 Hartfield, Va 23071

Postage	\$ 39
Certified Fee	75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	70
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	184
Postmark or	

BRIDGEPORT, WV
 MAY 31 1985
 USPS

PS Form 3800, Feb. 1982

26330 P 405 250 627
 RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

Sent to
 Kathleen Virginia Gore
 Street and No.
 1621 San Pasqual
 P. O., State and ZIP Code
 Pasadena, Ca 91104

Postage	\$ 39
Certified Fee	75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	70
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	184
Postmark or	

BRIDGEPORT, WV
 MAY 31 1985
 USPS

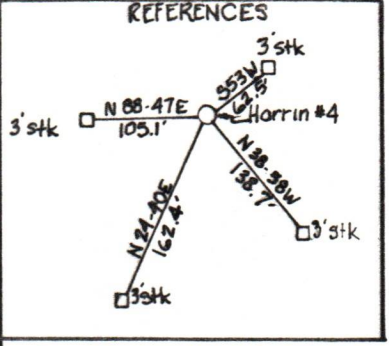
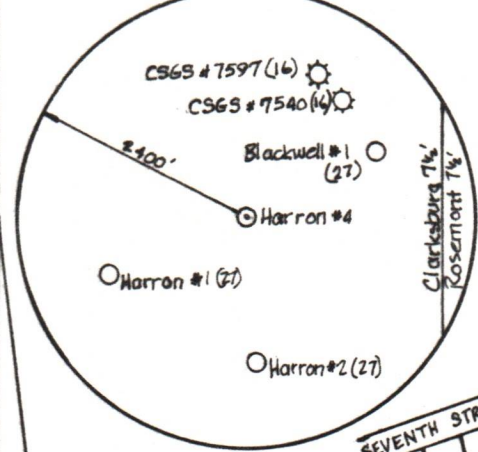
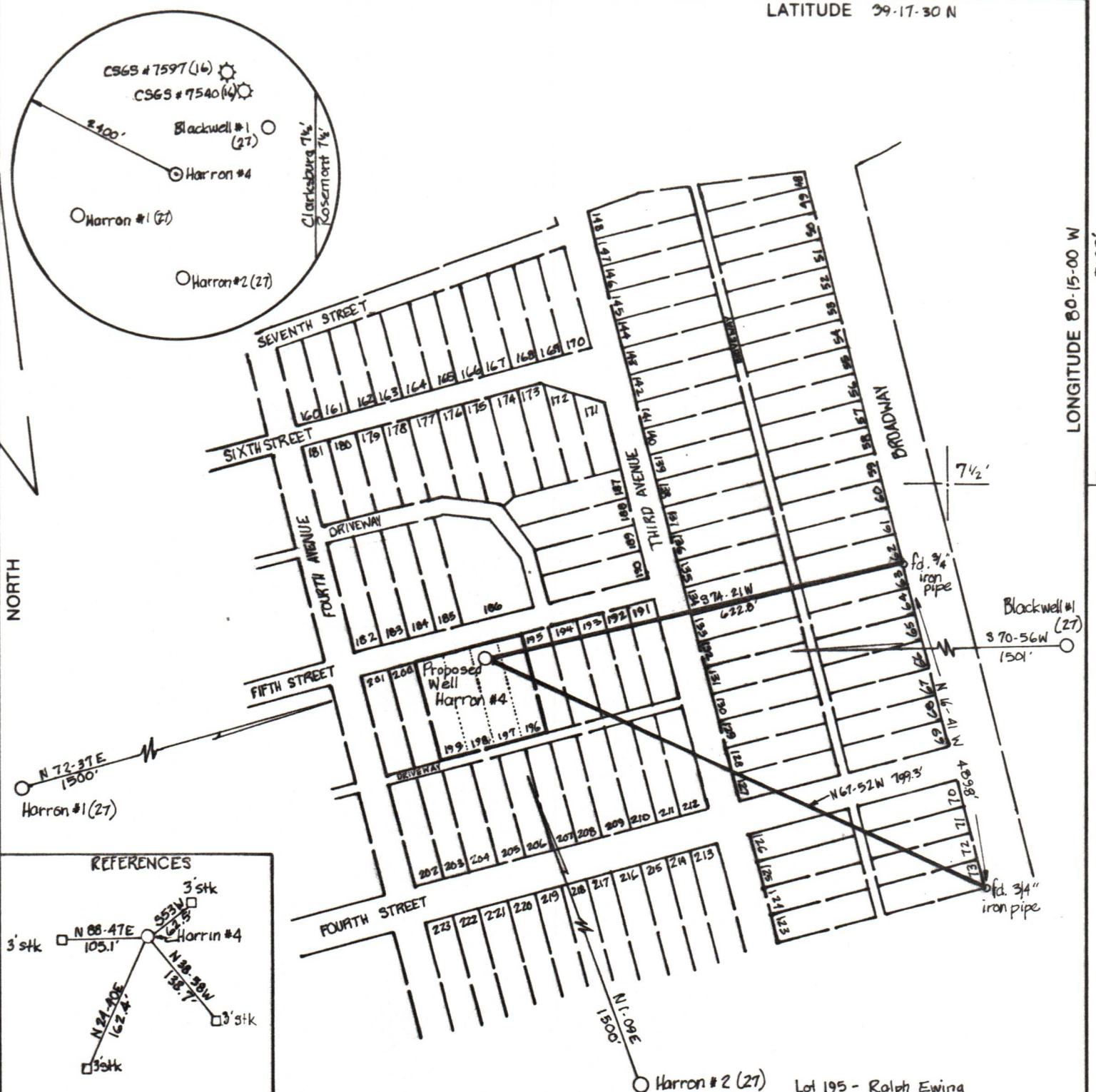
RECEIVED
 MAY 31 1985

OIL & GAS DIVISION
 DEPT. OF MINES

2020'

LATITUDE 39-17-30 N

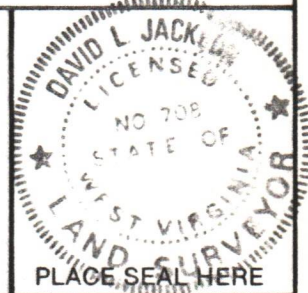
LONGITUDE 80-15-00 W



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

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 200'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION BM 1500' 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.S. 708



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE FEBRUARY 6, 1985
 OPERATOR'S WELL NO. HARRON #4
 API WELL NO. 47-033-3163
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1126 WATERSHED Davison Run
 DISTRICT Simpson COUNTY Harrison
 QUADRANGLE Clarksburg 7 1/2'

SURFACE OWNER Ray A. Harron ACREAGE Residue of 156 ac
 OIL & GAS ROYALTY OWNER Ray A. Harron LEASE ACREAGE Residue of 156 ac
 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 Corporation 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