



1) Date: _____, 19____
 2) Operator's Walter Wacowski #4
 Well No. _____
 3) API Well No. 47 - 033 - 3177
 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: 1124' Watershed: Jack Run
 District: Coal County: Harrison Quadrangle: Clarksburg 7 1/2'
- 6) WELL OPERATOR PETROLEUM DEVELOPMENT CORPORATION DESIGNATED AGENT STEVEN R. WILLIAMS
 Address PO BOX 26, 103 EAST MAIN STREET BRIDGEPORT, WV 26330 ^{382.00} Address PO BOX 26, 103 EAST MAIN STREET 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 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, 5000 feet
 13) Approximate trata depths: Fresh, 65; 120 feet; salt, 1650 feet.
 14) Approximate coal seam depths: 200; 500 Is coal being mined in the area? Yes _____ / No XX

RECEIVED
 MAR 19 1985

OIL & GAS DIVISION
 DEPT. OF MINES

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	20/23	X		1225'	1225'	cement to surface (neat cmt.)			
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 47-033-3177

March 19, 19 85
 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 March 19, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>116</u>	<u>SW</u>	<u>Int.</u>	<u>Int.</u>	<u>836825</u>

Jerry M. Tepheloch
 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF LABOR, MINES AND GAS DIVISION

OFFICE USE ONLY

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

1) WELL LOCATION
 2) WELL OPERATOR (TECHNICAL DEPARTMENT CORPORATION) DESIGNATED AGENT STEVEN R. WILLIAMS
 3) OFF & GAS INSPECTOR TO BE NOTIFIED
 4) PROPOSED WELL WORK
 5) GEOLGICAL TARGET FORMATION
 6) ESTIMATED DEPTH OF COMPLETED WELL
 7) APPROXIMATE WELL DEPTH
 8) OPTIMISTIC CASE SCENARIO

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:

110	2w	APR 1987	APR 1987
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 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

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 B (If "Gas", Production XX / Underground storage _____ / Deep _____ / Shallow XX /)
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 District: Coal 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 240-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) _____
- 11) GEOLOGICAL TARGET FORMATION, BENSON
 12) Estimated depth of completed well, 5000 feet
 13) Approximate strata depths: Fresh, 65; 120 feet; salt, 1650 feet.
 14) Approximate coal seam depths: 200; 500 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>5/8</u>	<u>J-55</u>	<u>20/23</u>	<u>x</u>		<u>1225'</u>	<u>1225'</u>	<u>cement to surface (neat cmt.)</u>		
Production	<u>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										
									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.

Company CONSOLIDATION COAL CO

Date: MARCH 15, 1985

By Ray M Henderson

ITS REGIONAL MGR ANG

Fruza Const. Co.
 By W.B. Fruza
 Its Pres.

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.

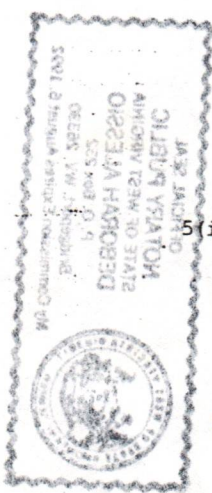
INFORMATION SUPPLIED UNDER CODE § 22-4-11 (d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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
Walter Wacowski	Hydrocarbon Energies, Inc.	.125	1135/290

** Petroleum Development Corporation having acquired rights to this lease by Farmout Agreement dated February 11, 1985.



- 1) Date: _____, 19
- 2) Operator's Well No. _____
Wacowski #4
- 3) API Well No. 47-033-3177
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

5(1) COAL OPERATOR
Address _____

(1) Name Walter Wacowski
Address Rt. #2, Box 177
Clarksburg, West Virginia 26301

5(1) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Consolidation Coal Company
Address Rts 119 - 480
Morgantown, West Virginia 26505

(1) Name _____
Address _____

Name Fresa Construction Company
Address P.O. Box 187
Bridgeport, West Virginia 26330

(1) Name _____
Address _____

5(1) COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

(1) 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 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 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) EXPROPRIATION RIGHTS

Check and provide one of the following:

- I hold the right to extract oil or gas.
- Included as the lease or other continuing contract or contracts by which the requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

ROYALTY PROVISIONS
Is the right to extract, produce or market the oil or gas based upon a lease or leases 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.

RECEIVED
MAR 19 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 _____

this [] day of _____, 1985

My commission expires _____, 1992.

Notary Public, _____ County, State of _____

WELL OPERATOR
Petroleum Development Corporation

By _____ Its President

Address P.O. Box 26

Bridgeport, West Virginia 26330

Telephone 304/842-6256



1) Date: _____, 19____
 2) Operator's Well No. Walter Wacowski #4
 3) API Well No. 47
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**STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
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- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name STEPHEN CASEY
 Address RT 2, BOX 282-D JANE LEW, WV 26378
- 9) DRILLING CONTRACTOR: Name _____ Address _____
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper _____ / Redrill _____ / Stimulate _____
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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	<u>1 3/4</u>	<u>H-40</u>	<u>42#</u>	<u>x</u>		<u>30'</u>				Kinds
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Coal										Sizes
Intermediate	<u>5/8</u>	<u>J-55</u>	<u>20/23</u>	<u>x</u>		<u>1225'</u>	<u>1225'</u>	<u>cement to surface (neat amt.)</u>		
Production	<u>1/2</u>	<u>J-55</u>	<u>10.5#</u>	<u>x</u>		<u>5000'</u>	<u>5000'</u>	<u>400 sks</u>		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.)

NAME: _____
 By _____
 Its _____ Date _____

(For execution by natural persons)

Walter Wacowski
 (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.



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 Name STEPHEN CASEY Name _____
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Tubing									
Liners									Perforations:
									Top Bottom

116 subject. Int. 836825

Jerry R. Tephelock

LINE ITEM INSTRUCTIONS

- 1) Date of Application.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves the underground reservoirs. "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.

"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth of or greater than six thousand feet, whatever is shallower.
- 5) Self-explanatory.
- 6) Before a permit can be issued to a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State.
- 7) See Reg. 7.01 relating to Code §22-4-1k.
- 8) Self-explanatory.
- 9) Self-explanatory.
- 10) Work that will be attempted. A separate Form IV-2 shall not be required for stimulating a well where stimulating is to be part of the well work for which a permit is sought and is noted as such on the Form IV-2 field in connection therewith.
- 11) Anticipated formation for which well will be completed.
- 12) Self-explanatory.
- 13) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation.
- 14) All coal seam depths.
- 15) Proposed casing program and cementing refer to Code §§ 22-4-5, 22-4-6, 22-4-7, 22-4-8 and 22-4-8a, and also Regulations 9.01, 15.01, 15.02, 15.03, 15.04, 15.05, 25.01, 25.02, 25.03 and 25.04.

If the permit is to be issued less than 15 days from the filing of the Application (or less than 5 days if the Application is to plug a well), the surface owner(s) of record must sign the "Voluntary Statement of No Objection" on a facsimile of the surface owner's copy of the Application.

11/5/85

Permit No. _____

47-033-3177

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

1) APPLICATION (To Be Completed By Company)

1. Company Name Petroleum Development Corporation
 Mailing Address P.O. Box 26, Bridgeport, West Virginia 26330
 Telephone 304/842-6256 Well Name Wacowski #4
2. Name of stream that may be discharged to: Unknown
 A tributary of: Simpson Creek
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 Krushansky
 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.

Esuel E. Morgan Jr. 4-9-85
 Signature Date

2) NOTIFICATION (To Be Completed By DNR)


1. Initial Company contact: (Approximately 7 days prior to discharge)
 Date _____ Individual V. Leon
 Proposed discharge date 5-8-85
 Type of disposal method selected land fill
 Volume of waste _____ Discharge rate 100 GPM CFS
 Time projected for discharge 1 DAY DAYS
 Receiving Stream flow rate N/A CFS
 Objection _____ No Objection
2. Final Company contact: (48 hours required notice)
 Date 5-5-85 Individual V. Leon
 Final discharge date 5-8-85
 Objection _____ No Objection


INSPECTION (To Be Completed By DNR)

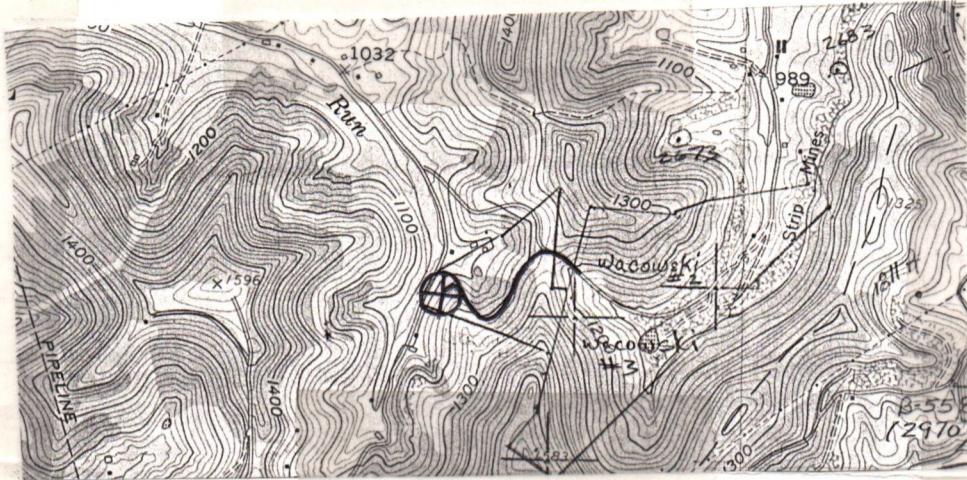
1. 208 Practices - Acceptable _____ Not Acceptable
 Comments: Access Road ditching in poor shape
2. Compliance with general permit interim guidelines: Acceptable _____ Not Acceptable _____
 Comments: _____
3. Division of Water Resources Action Taken: _____
 Action Recommended: _____
4. Parameters (Prior to discharge (if any) at discharge):
 pH 8.5 Total Pb _____ TOC _____
 Chloride _____ TSS _____ Conductivity _____
 Total Fe 1.0 Total Cu _____

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

LEGEND

Well Site 













Access Road 



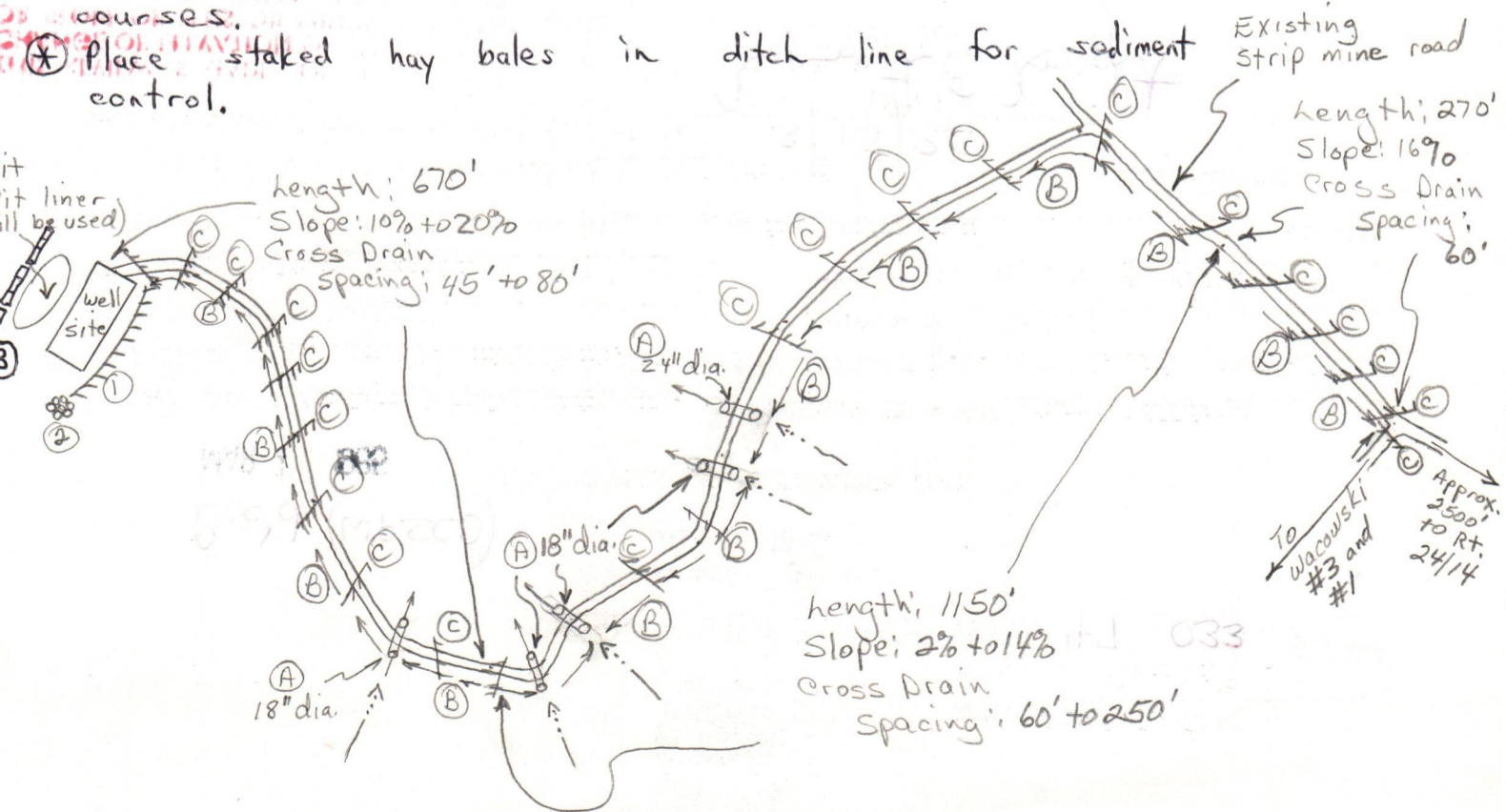
WELL SITE PLAN

Sketch to include well location, existing access road, roads to be constructed, 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 

- * 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 March 1, 1985
WELL NO. Wacowski No. 4
API NO. 47-033-3177
State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

MAR 1 1985

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 842-6256

LANDOWNER Walter Wacowski

SOIL CONS. DISTRICT West Fork

Seeding Contractor (Agent)

Revegetation to be carried out by

West Fork SCD. All corrections

and additions become a part of this plan:

3/15/85
(Date)
K. M. E. Knight
(SCD Agent)

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. ACCESS ROAD

LOCATION

(1) Structure Diversion ditch
Material earth
Page Ref. Manual 2.12
MAR 19 1985

(A) Structure Culvert (15" Min. I.D.)
Spacing as noted on back section of plan
with riprapped outlet
Page Ref. Manual 2.7
(accord to O&G Manual at natural drains)

(2) Structure Rip-rap
Material stone
Page Ref. Manual 2.14
DEPT. OF MINES
OIL & GAS DIVISION

(B) Structure Drainage ditch
Spacing Inside road cuts
Page Ref. Manual 2.12

(3) Structure Sediment Barrier
Material Hay or straw bales (staked)
Page Ref. Manual 2-16

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

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

Field	Woods
Treatment Area II	Treatment Area I
**Lime 3 Tons/acre or correct to pH 6.5	**Lime 3 Tons/acre or correct to pH 6.5
Fertilizer 600 lbs/acre (10-20-20 or equivalent)	Fertilizer 600 lbs/acre (10-20-20 or equivalent)
Mulch Hay 2 Tons/acre	Mulch Hay 2 Tons/acre
Seed* Orchard grass 12 lbs/acre	Seed* Orchard grass 12 lbs/acre
Landino clover 3 lbs/acre	Landino clover 3 lbs/acre
Alsike clover 4 lbs/acre	Landino clover 3 lbs/acre
Timothy 3 lbs/acre	Landino clover 3 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	

PLAN PREPARED BY David L. Jackson

ADDRESS P.O. Box 969

Buckhannon, WV 26201

PHONE NO. 472-9369

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



**Petroleum
Development
Corporation**

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

Phone: 304-842-3597

State of West Virginia
Department of Mines
Oil & Gas Division
307 Jefferson Street
Charleston, West Virginia 25311

Gentlemen:

Enclosed you will find five (5) copies of the Oil and Gas Well Permit Application (IV-2B), Notice of Application for a Well Work Permit (IV-2A), Permanent Copy of Engineer's Plat (IV-6), Reclamation Plan (IV-9), Certified Mail Receipts and/or signatures on the "Voluntary Statement of No Objections" on the Application for all surface and coal owners and our check in the amount of \$350.00 for the Walter Wacowski #4.

Please issue permits at your earliest convenience.

Very truly yours,

PETROLEUM DEVELOPMENT CORPORATION

Steven R. Williams
President

Enclosures

SRW/mjg

RECEIVED
MAR 19 1985
OIL & GAS DIVISION
DEPT. OF MINES

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

Perforated the Benson with 5 shots (4633-35) and 8 shots (4639-42). Stimulated zone using gelled H2O frac with N2 assist. Used 15,000# of 80/100 sand, 50,000# 20/40 sand and 71,000 scf of N2.

RECEIVED
MAY 10 1985
DEPT. OF MINES

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	1573	open hole @ 105'-118'; 2" stream H2O
big lime			1573	1650	@ 118'; 3/4" H2O @ 190'; 3/4" H2O @
sand, shale			1650	1664	730'; coal @ 319'; 905'; 968'
big injun			1664	1734	gas @ 1682'; no show
sand, shale			1734	2091	
gantz			2091	2120	
sand, shale			2120	2140	
50 foot			2140	2198	
sand, shale			2198	2222	
30 foot			2222	2249	gas @ 2233'; no show
sand, shale			2249	2272	
gordon stray			2272	2296	
sand, shale			2296	2328	
gordon			2328	2350	
sand, shale			2350	2404	gas @ 2388'; odor
4th sand			2404	2426	
sand, shale			2426	2445	
4th 'A'			2445	2471	
sand, shale			2471	2485	
5th sand			2485	2510	
sand, shale			2510	2590	gas @ 2513'; odor
bayard			2590	2633	oil odor at 2590'
sand, shale			2633	3211	gas @ 2634'; 8/10= 1"w/H2O
speechley			3211	3370	gas @ 3121'; 60/10= 1"w/H2O
sand, shale			3370	3427	gas @ 3246'; 40/10= 1"w/H2O
balltown			3427	3720	gas @ 3462'; 32/10= 1"w/H2O
sand, shale			3720	4291	gas @ 4108'; 40/10= 1"w/H2O
riley			4291	4506	
sand, shale			4506	4631	gas @ 4510'; 16/10= 1"w/H2O
benson			4631	4685	gas @ 4665'; 76/10= 1"w/H2O
sand, shale			4685	4787 TD	logger
				4788 TD	driller

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION

Well Operator

By: *[Signature]*

Date: 5/2/85

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 8-81)

RECEIVED

MAY 3 - 1985



OIL & GAS DIVISION *State of West Virginia*
DEPT. OF MINES Department of Mines
Oil and Gas Division

Date 4/2/85
Operator's
Well No. #4
Farm Walter Wacowski
API No. 47 - 033 - 3177

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: 1124' Watershed JACK RUN
District: COAL 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 WALTER WACOWSKI

ADDRESS RT #2, BOX 177, CLARKSBURG, WV 26301

MINERAL RIGHTS OWNER WALTER WACOWSKI

ADDRESS RT #2, BOX 177, CLARKSBURG, WV 26301

OIL AND GAS INSPECTOR FOR THIS WORK STEPHEN

CASEY ADDRESS JANE LEW, WV 26378

PERMIT ISSUED MARCH 19, 1985

DRILLING COMMENCED MARCH 25, 1985

DRILLING COMPLETED MARCH 30, 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"	157'	157'	cement to surface
9 5/8			
8 5/8	1269'	1269'	250 sks.
7			
5 1/2			
4 1/2	4737'	4737'	430 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION BENSON Depth 5000 feet

Depth of completed well 4787 feet Rotary xx / Cable Tools _____

Water strata depth: Fresh 118; 190 feet; Salt 730 feet

Coal seam depths: 315; 905; 968 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation BENSON Pay zone depth 4633-42 feet

Gas: Initial open flow not taken Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 492 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)

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

RECEIVED

APR 1 - 1985

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 33-3177

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>W. Wacowski</u>	16			Kind of Packer _____
Well No. <u>4</u>	13			
District <u>Coal</u> County <u>Harv</u>	10			Size of _____
Drilling commenced <u>3-26-85</u>	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names UDI II

Remarks:

3-26-85
DATE

Steve Casey
DISTRICT WELL INSPECTOR

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

RECEIVED

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
OIL AND GAS WELLS DIVISION

RECEIVED

APR 1 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 33-3177

Oil or Gas Well _____
(KIND)

Company <u>Petro. Dev. Co.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Waccowski</u>	16			Kind of Packer _____
Well No. <u>4</u>	13			
District <u>Coal</u> County <u>Harr.</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT <u>open shaft 105-118</u> FEET _____ INCHES			
	_____ FEET _____ INCHES	_____ FEET _____ INCHES	_____ FEET _____ INCHES	_____ FEET _____ INCHES
	_____ FEET _____ INCHES	_____ FEET _____ INCHES	_____ FEET _____ INCHES	_____ FEET _____ INCHES

Drillers' Names UDI 11

Remarks: 11 3 156' 100 SKS. BJH
11 4

3-27-85
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
APR 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: _____

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

DISTRICT WELL INSPECTOR

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

RECEIVED
APR 4 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 33-3177

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>Wacowski</u>	16			Kind of Packer _____
Well No. <u>4</u>	13			
District _____ County <u>Harr.</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water <u>190</u> feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT <u>319</u> FEET <u>24</u> INCHES			
	<u>905</u> FEET <u>60</u> INCHES <u>968</u> FEET <u>48</u> INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names UDI II

Remarks: 8 5/8 1269' 250 STS. BJH

3-28-85

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

RECEIVED
JUL 16 1985

Company: PETROLEUM DEVE CORP

Farm: WACOWSKI, WALTER

Well: WACOWSKI 4

Permit No. 47- 33-3177

County: HARRISON

OIL & GAS DIVISION
DEPT. OF MINES
(3-19-85)

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 drilling	-----	-----
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	-----	-----
16.02	Well Records Filed	-----	-----
16.05	Identification Markings	-----	-----

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

SIGNED Steve Casay
DATE 7-15-85

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.

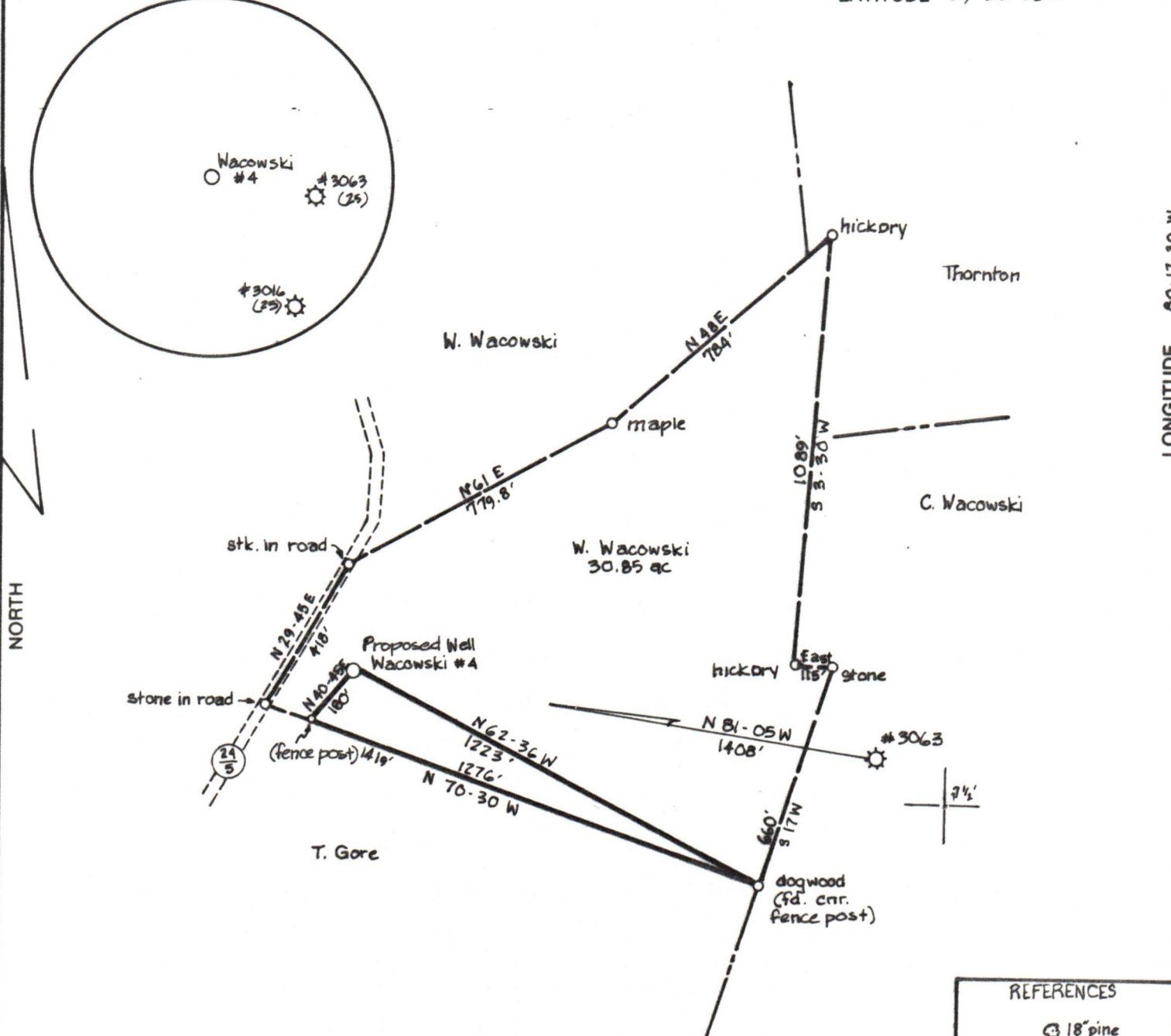
T.H. v. B.B.
Administrator

August 1, 1985
Date

3125'

LATITUDE 39-20-00N

LONGITUDE 80-17-30 W



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

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION spot elev. 1900' SE of location; elev. 1583

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. _____ U.S. 708

REFERENCES

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE March 4, 1985
 OPERATOR'S WELL NO. Wacowski #4
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1124 WATERSHED Jack Run
 DISTRICT Coal COUNTY Harrison
 QUADRANGLE Clarksburg 7 1/2'
 SURFACE OWNER Walter Wacowski ACREAGE 30.85
 OIL & GAS ROYALTY OWNER Walter Wacowski LEASE ACREAGE 30.85
 LEASE NO. 302800

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