

RECEIVED
FILE COPY

FEB 28 1985



1) Date: _____, 19____
 2) Operator's Well No. Nathan Goff #36
 3) API Well No. 47 - 033 - 3164
 State County Permit

STATE OF WEST VIRGINIA
 OIL & GAS DIVISION
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 DEPT. OF MINES 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: 962' Watershed: West Fork River
 District: Clark 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 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 X /
 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, BENSON
- 12) Estimated depth of completed well, 5000 feet
- 13) Approximate trata depths: Fresh, 40; 325 feet; salt, 1225 feet.
- 14) Approximate coal seam depths: 600 Is coal being mined in the area? Yes _____ / No XX /

38200

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	24#	x		800	800	cement to surface (neat cement)	Depths required
Production	4 1/2	J-55	10.5#	x		5000	5000	400 sks	by rule 15.1
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-033-3164

March 1, 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 1, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
114	MU	MU	MU	836-600

Margaret J. Kasse
 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



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OFFICE USE ONLY

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

1) Well No. _____
 2) Location _____
 3) Well Name _____
 4) Well Type _____
 5) Well Status _____
 6) Well Depth _____
 7) Well Completion _____
 8) Well Construction _____
 9) Well Completion _____
 10) Well Completion _____
 11) Well Completion _____
 12) Well Completion _____
 13) Well Completion _____
 14) Well Completion _____
 15) Well Completion _____
 16) Well Completion _____
 17) Well Completion _____
 18) Well Completion _____
 19) Well Completion _____
 20) Well Completion _____

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 2) Location _____
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 14) Well Completion _____
 15) Well Completion _____
 16) Well Completion _____
 17) Well Completion _____
 18) Well Completion _____
 19) Well Completion _____
 20) Well Completion _____

Well No.	Location	Well Name	Well Type	Well Status	Well Depth	Well Completion	Well Construction	Well Completion	Well Completion	Well Completion	Well Completion	Well Completion	Well Completion	Well Completion	Well Completion	Well Completion	Well Completion	Well Completion	Well Completion	Well Completion	
1134	H-40	24	X		30																
8278	7-55	24	X		800																
6112	7-55	10.5	X		5000																

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: _____



1) Date: _____, 19____
 2) Operator's Well No. Nathan Goff #36
 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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- 13) Approximate trata depths: Fresh, 40: 325 feet; salt, 1225 feet.
- 14) Approximate coal seam depths: 600 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 (SACKS (Cubic feet))	PERFORATIONS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	<u>11 3/4</u>	<u>H-40</u>	<u>42#</u>	<u>X</u>		<u>30</u>		<u>8</u> Kinds	
Fresh water									
Coal								Sizes	
Intermediate	<u>8 5/8</u>	<u>J-55</u>	<u>24#</u>	<u>X</u>		<u>800</u>	<u>800</u>	<u>40</u> cement to cement	
Production Tubing	<u>4 1/2</u>	<u>J-55</u>	<u>10.5#</u>	<u>X</u>		<u>5000</u>	<u>5000</u>	<u>40</u> cement to cement	
Liners								Perforations: Top _____ Bottom _____	

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OIL & GAS DIVISION
 DEPT. OF MINES

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: Feb. 26, 1985

By Laura Goff Davis
Deane Goff Cather

Its _____



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:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
Diana Goff Cather	Petroleum Development Corp.	.0625	1007/759
Laura Goff Davis	Petroleum Development Corp.	.0625	1007/759

1) Date: _____, 19

2) Operator's Well No. _____

3) API Well No. 47-033-3164 Goff #36

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 Dow Chemical Company Address 2030 Dow Center Midland, Missouri 48640

(1) Name _____ Address _____

(1) Name _____ Address _____

(1) Name _____ Address _____

(1) Name _____ Address _____

5(1) COAL OPERATOR Address _____

5(1) COAL OWNER(S) WITH DECLARATION ON RECORD: Name Diana Goff Cather Address 163 East Main Street Clarksburg, West Virginia 26301

Name Laura Goff Davis Address P.O. Box 707 Clarksburg, West Virginia 26301

5(1) COAL LESSEE WITH DECLARATION ON RECORD: Name _____ Address _____ Clarksburg, West Virginia 26301

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:

- I hold the right to extract oil or gas.
- The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

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

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator

In my County and State by

Steven R. Williams

this day of February, 1985

My commission expires April 7, 1992

Notary Public, West Virginia County, West Virginia State of

Telephone 304/842-6256 Bridgeport, West Virginia 26330

Address P.O. Box 26

Its President

By _____

OPERATOR Petroleum Development Corporation

WELL

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OIL & GAS DIVISION DEPT. OF MINES



1) Date: _____, 19____
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Fresh water									
Coal									Sizes
Intermediate	<u>8 5/8</u>	<u>J-55</u>	<u>24#</u>	<u>x</u>		<u>800</u>	<u>800</u>	<u>cement to surface (neat cement)</u>	
Production	<u>4 1/2</u>	<u>J-55</u>	<u>10.5#</u>	<u>x</u>		<u>3-5000</u>	<u>5000</u>	<u>100 sbs</u>	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

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OIL & GAS DIVISION
 DEPT. OF MINES

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: DOW CHEMICAL COMPANY
 By J. R. TAYLOR
 Its DISTRICT MANAGER Date 2/26/85

(For execution by natural persons)

[Signature] Date: 2/26/85
[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.


NAME: DOUGLAS ENERGY COMPANY
 BY: J. A. FAYLOR
 TITLE: MANAGER

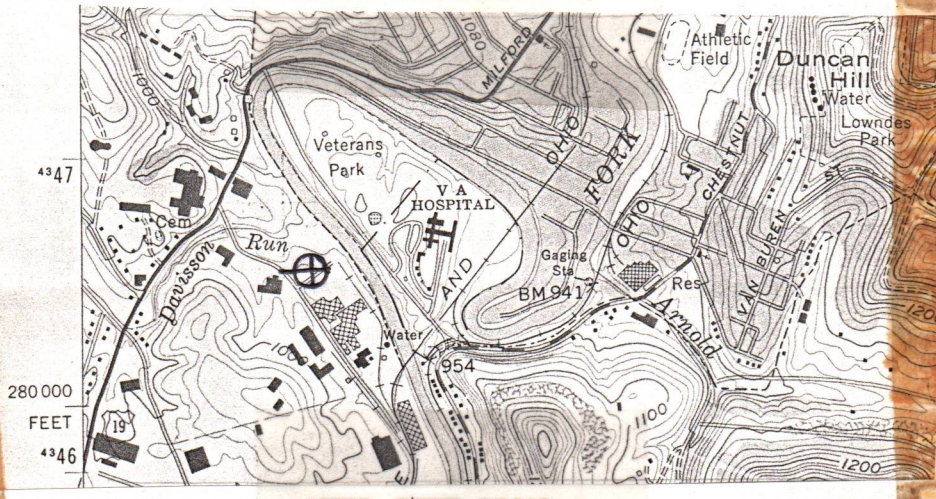
DATE: 10/18/88

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

LEGEND

Well Site 











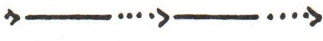

Access Road 



WELL SITE PLAN

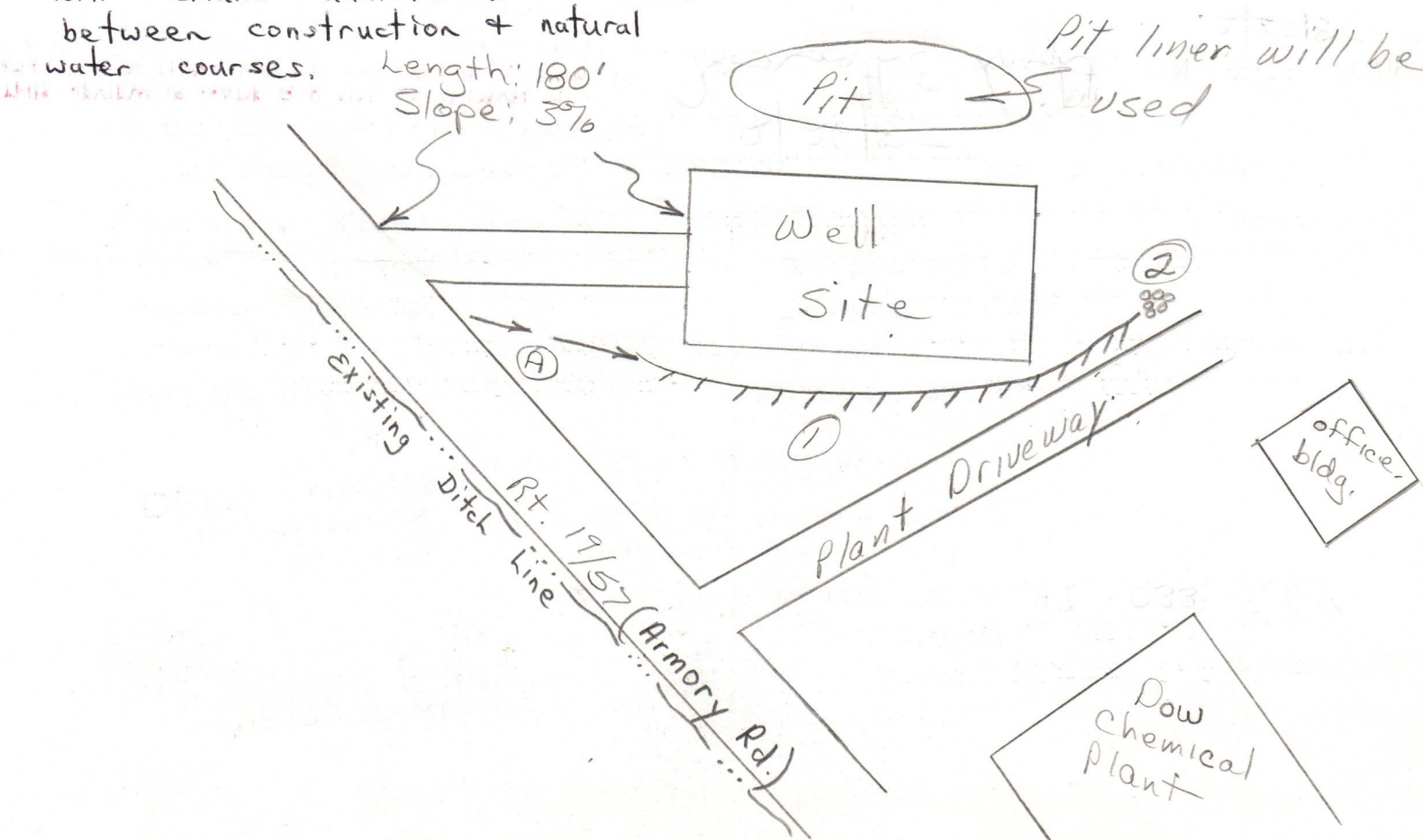
Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

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

- 1) Topsoil will be saved for reclamation work.
- 2) Natural vegetation (filter strip) will remain undisturbed in areas between construction & natural water courses.

- 3) Place staked hay bales in ditch line for sediment control.



DATE February 21, 1985
 WELL NO. GOLF NO. 36
 API NO. 47 - 033 - 3164

State of West Virginia

Department of Mines
 Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Petroleum Development Corp.
 Address P.O. Box 26, Bridgeport, WV 26330
 Telephone 842-6256
 LANDOWNER Dow Chemical Co.
 Seeding Contractor _____
 (Agent)

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

2/26/85

 (Date) _____
 (SCD Agent)

ON SITE REVIEW
 2/25/85

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 WFSOCD.

Structure Drainage ditch (A)

Spacing ~~na~~ Inside road cuts

Page Ref. Manual 2.12

Structure (B)

Spacing

Page Ref. Manual 2.14

Structure (C)

Spacing

Page Ref. Manual

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

REVEGETATION

Field Treatment Area I

* Lime 3 Tons/acre or correct to pH 6.5

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

Mulch Hay 2 Tons/acre

Seed* Orchard grass 12 lbs/acre

Landino clover 3 lbs/acre

Alsike clover 4 lbs/acre

Timothy 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

NOTES: Please contact 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



RECEIVED
 FEB 28 1985
 (Rev. 8-81)
 IV-9

OIL & GAS DIVISION
 DEPT. OF MINES

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 Goff #36
- Name of stream that may be discharged to: Washburn Camp Run
 A tributary of: West Fork River
- 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.

Emil E. Morgan 4/4/85
 Signature Date

2) NOTIFICATION (To Be Completed By DWR)

- Initial Company contact: (Approximately 7 days prior to discharge)
 Date 5-21-85 Individual V. Leon
 Proposed discharge date 5-23-85
 Type of disposal method selected hand pump
 Volume of waste 40,000 Discharge rate 100 GPM CFS
 Time projected for discharge 1 DAY DAYS
 Receiving Stream flow rate N/A CFS
 Objection No Objection
- Final Company contact: (48 hours required notice)
 Date 5-21-85 Individual B. Leon
 Final discharge date 5-23-85
 Objection No Objection

INSPECTION (To Be Completed By DWR)

- 205 Practices - Acceptable Not Acceptable
 Comments: location on bottom hand next to Hand
Road. No Problems - 5-23-85
- 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 9.5 Total Pb _____ TOC _____
 Chloride _____ TSS _____ Conductivity _____
 Total Fe 2.5 Total Cu _____

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

Perforated Benson with 13 shots (4260'-64'). Stimulated the zone using a gelled H2O frac w/N2 assist. Pumped away 15,000# of 15,000# of 80/100 sand, 50,000# of 20/40 sand and 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	1/4" H2O @ 48'; 3/4" H2O @ 202'; 5" H2O @ 540'; 1/2" H2O @ 1030'
sand, shale, redrock			10	1241	
big lime			1241	1295	coal @ 118'; 202'
sand, shale			1295	1298	
big injun			1298	1395	gas @ 1450'; no show
sand, shale			1395	1732	
gantz			1732	1738	gas @ 1916'; no show
sand, shale			1738	1809	
50 foot			1809	1825	gas @ 2164'; 16/10= 2"w/H2O
sand, shale			1825	1846	
30 foot			1846	1854	gas @ 2288'; 18/10= 2"w/H2O
sand, shale			1854	1889	
gordon stray			1889	1908	gas @ 2974'; 8/10= 2"w/H2O
sand, shale			1908	1943	
gordon			1943	1963	gas @ 3161'; 10/10= 2"w/H2O
sand, shale			1963	2100	
4th sand			2100	2120	gas @ 3347'; 8/10= 2"w/H2O
sand, shale			2120	2155	
4th 'A'			2155	2174	gas @ 4251'; 6/10= 2"w/H2O
sand, shale			2174	2232	
5th sand			2232	2255	gas @ 4282'; 20/10= 2"w/H2O
sand, shale			2255	2754	
speechley			2754	2839	gas @ TD; 16/10 = 2"w/H2O
sand, shale			2839	2920	
balltown			2920	3150	TD logger
sand, shale			3150	4252	
benson			4252	4266	TD driller
sand, shale			4266	4444	
				4502	

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION

Well Operator _____
 By: [Signature]
 Date: 4/15/85

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."

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APR 16 1985



IV-35 (Rev 8-81)

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

Date 3/25/85
Operator's
Well No. #36
Farm Nathan Goff
API No. 47 - 033 - 3164

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: 962' Watershed West Fork River
District: Clark 1 County Harrison Quadrangle Clarksburg 7 1/2' 297

COMPANY PETROLEUM DEVELOPMENT CORPORATION 38200/116

ADDRESS 103 EAST MAIN ST, BRIDGEPORT, WV 26330

DESIGNATED AGENT STEVEN R. WILLIAMS

ADDRESS 103 EAST MAIN ST, BRIDGEPORT, WV 26330

SURFACE OWNER DOW CHEMICAL COMPANY

ADDRESS 2030 DOW CENTER, MIDLAND, MISSOURI 48640

DIANA GOFF CATHER

MINERAL RIGHTS OWNER 163 E. MAIN ST, CLARKSBURG

LAURA GOFF DAVIS

ADDRESS PO BOX 707; CLARKSBURG, WV 26301

OIL AND GAS INSPECTOR FOR THIS WORK STEPHEN

RT 2, BOX 232-D

CASEY

ADDRESS JANE LEW, WV 26378

PERMIT ISSUED MARCH 1, 1985

DRILLING COMMENCED MARCH 6, 1985

DRILLING COMPLETED MARCH 11, 1985

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

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cond., 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION BENSON Depth 5000 feet

Depth of completed well 4502 25 feet Rotary xx / Cable Tools

Water strata depth: Fresh 48; 202; 540 feet; Salt 1030 feet

Coal seam depths: 118; 202 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation BENSON 435 Pay zone depth 4260-64 feet

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

Final open flow 211 Mcf/d Final open flow n/a Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 1850 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

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OIL & GAS DIVISION

INSPECTOR'S WELL REPORT OF MINES

Permit No. 33-3164

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>Jeff</u>	16			Kind of Packer _____
Well No. <u>36</u>	13			
District <u>Clark</u> County <u>Haer.</u>	10			Size of _____
Drilling commenced <u>3-7-85</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 UDZ 5

Remarks: _____

3-7-85
DATE

Steve Casey
DISTRICT WELL INSPECTOR

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

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MAR 14 1985

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 33-3164

Oil or Gas Well _____
(KIND)

Company <u>Petrol. Devel. Co.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Goff</u>	16			Kind of Packer _____
Well No. <u>36</u>	13			Size of _____
District <u>Clark</u> County <u>Harr.</u>	10			Depth set _____
Drilling commenced <u>3-7-85</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.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
OIL _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water <u>48</u> <u>202</u> feet <u>545</u> feet	COAL WAS ENCOUNTERED AT <u>118</u> FEET <u>24</u> INCHES			
Salt water _____ feet _____ feet	<u>202</u> FEET <u>24</u> INCHES FEET INCHES			
	FEET INCHES FEET INCHES			

Drillers' Names UDI 5

Remarks: 8 5/8 799' 210 SKS. Dowell

3-8-85
DATE

Steve Casey
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: DOW CHEMICAL COMPANY Well: GOFF 36

Permit No. 47- 33-3164 (3-01-85)
County: HARRISON OIL & GAS DIVISION

DEPT. OF MINES

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

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

SIGNED Steve Casey
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.
Administrator

August 1, 1985
Date

