



1) Date: March 13, 1984
 2) Operator's Well No. #37
 3) API Well No. 47 - 033 - 3019
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 1154 Watershed: Davisson Run
 District: Clark County: Harrison Quadrangle: Wolf Summit-7 1/2'
- 6) WELL OPERATOR Petroleum Development Corp. 7) DESIGNATED AGENT Michael L. Edwards
 Address P. O. Box 26, 103 East Main St. Address P. O. Box 26, 103 East Main St.
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 / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Benson
 12) Estimated depth of completed well, 5000' feet
 13) Approximate trata depths: Fresh, 40;660 feet; salt, 835 feet
 14) Approximate coal seam depths: 50;510 Is coal being mined in the area? Yes / No

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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		
Conductor	11-3/4	H-40	42	X		30'	30'	Cement to surface	
Fresh water									Sizes
Coal									
Intermediate	8-5/8	J-55	20	X		850'	850'	Cement to surface	NEAT
Production	4-1/2	J-55	10.5	X		5000'	5000'	400 sks.	Depths set
Tubing									or as req. by rule 15.01
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-033-3019

Date April 17, 1984 19

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 April 17, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond BLANKET	Agent <u>LS</u>	Plat: <u>MH</u>	Casing <u>MH</u>	Fee <u>832 - 382</u>
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T. J. [Signature]
 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.



OFFICE USE ONLY

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

1) WELL LOCATION: District: Clark; County: Harrison; Township: Wolf Summit-76; Elevation: 1150; Well Name: Davidson #1

2) WELL OPERATOR: Name: Davidson; Address: P.O. Box 26, 103 West Main St., Bridgeport, WV 26330

3) DRILLING CONTRACTOR: Name: Stephen Gasey; Address: Rt. 1, Box 233-D, Uniontown, WV 26380

4) PROPOSED WELL WORK: Type: Perform new formation; Depth: 335 feet

5) GEOLOGICAL TARGET INFORMATION: Estimated depth of completed well: 5000 feet; Approximate data depth: 4000 feet; Approximate of a seam depth: 50-510 feet

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Case No.	Well No.	Depth	Remarks
11-31-A	11-40-42	30'	Completed
8-578	1-25-20	850'	Completed
4-572	3-28-10.5	5000'	Production

OFFICE USE ONLY

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

Event	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____

Reason: _____

Checked	Plan	Casing	Fec
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1) Date: March 13, 19 84
 2) Operator's Well No. #37
 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 X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow _____ /)
- 5) LOCATION: Elevation: 1154 Watershed: Davisson Run
 District: Clark County: Harrison Quadrangle: _____
- 6) WELL OPERATOR Pateolaum Development Corp.
 Address P. O. Box 26, 103 East Main St. Bridgeport, WV 26330
- 7) DESIGNATED AGENT Michael L. Edwards
 Address P. O. Box 26, 103 East Main St. 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 X / Drill deeper _____ / Redrill _____ / Stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Benson
 12) Estimated depth of completed well, 5000' feet
 13) Approximate trata depths: Fresh, 40;660 feet; salt, 835 feet.
 14) Approximate coal seam depths: 30;510 Is coal being mined in the area? Yes _____ / No X /

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 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		Kind	Bottom
Conductor	<u>11-3/4 H-40</u>		<u>42</u>	<u>X</u>		<u>30'</u>	<u>30'</u>	<u>Cement to surface</u>		
Fresh water									Sizes	
Coal									Depths set	
Intermediate	<u>8-5/8</u>	<u>J-55</u>	<u>20</u>	<u>X</u>		<u>850'</u>	<u>850'</u>	<u>Cement to surface</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									Perforations:	
Liners									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: March 24, 19 84

By Sandra Goff Davis
Deina 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

C O N C E R N I N G T H E L I N E I T E M S :

- 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).

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 OFFICE OF MINES
 OIL & GAS DIVISION
 1968

C O N C E R N I N G T H E R E Q U I R E D C O P I E S F O R F I L I N G A N D S E R V I C E :

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.

I N F O R M A T I O N S U P P L I E D U N D E R C O D E § 22-4-11(d)
I N L I E U O F F I L I N G L E A S E (S) A N D O T H E R C O N T I N U I N G C O N T R A C T (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	1007/714
Laura Goff Davis	Petroleum Development Corp.	.0625	1007/714

1) Date: March 13, 1984
2) Operator's Well No. #37
3) API Well No. 47-033-3019

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 Diana Goff Cather
Address 163 East Main Street
Clarksburg, West Virginia 26301

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

(11) Name Clarksburg, West Virginia 26301
Address

(111) Name
Address

5 (1) COAL OPERATOR
Address
Name Diana Goff Cather
Address 63 East Main Street
Clarksburg, West Virginia 26301
Name Laura Goff Davis
Address P.O. Box 707
Clarksburg, West Virginia 26301
5 (111) COAL LESSEE WITH DECLARATION ON RECORD:
Name
Address
Clarksburg, West Virginia 26301
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 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 deposited on attached Form IV-6. Copies of this Notice, the Application, the plat, and 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.

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 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 live 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

M.L. Edwards

This 13 day of March, 1984,
My commission expires April 5, 1992.

Jeffrey J. W. W. W.
Notary Public, Monroe County,
State of West Virginia

Its Vice-President of Exploration
Address P.O. Box 26,
Bridgport, West Virginia 26330
Telephone 304/842-6256

WELL OPERATOR
Petroleum Development Corporation
M.L. Edwards

OIL & GAS DIVISION
DEPT. OF MINES
APR 4 - 1984

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SURFACE OWNER'S COPY



1) Date: March 13, 1984
 2) Operator's Well No. #37
 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 X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow A /)
- 5) LOCATION: Elevation: 1154 Watershed: Davidson Run
 District: Clark County: Harrison Quadrangle: _____
- 6) WELL OPERATOR Petroleum Development Corp. 7) DESIGNATED AGENT Michael L. Edwards
 Address P. O. Box 26, 103 East Main St. Address P. O. Box 26, 103 East Main St.
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 X / Drill deeper _____ / Redrill _____ / Stimulate _____
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 APR 4 - 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

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Production	4-1/2	J-55	10.5	X		5000'	5000'	400 sks.		
Tubing									Perforations:	
Liners									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 _____
March 24 1984 Date

(For execution by natural persons)

Laura Goff Davis Date: 3/21/84
 (Signature)
Deane Goff Cather Date: 3/29/84
 (Signature)

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

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

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

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

Where to file comments and obtain additional information:

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

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

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

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

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

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

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

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

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

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

47-033-3019

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 Goff #37
2. Name of stream that may be discharged to: Unknown
 A tributary of: Washburn Camp Run
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.

OIL & GAS DIVISION
 DEPT. OF MINES

Esel E Morgan 4-9-85
 Signature Date

2) NOTIFICATION (To Be Completed By DWR)

1. Initial Company contact: (Approximately 7 days prior to discharge)
 Date 6-3-85 Individual V. Lewis
 Proposed discharge date 6-5-85
 Type of disposal method selected hand dump
 Volume of waste 90.000 Discharge rate 100 CFS
 Time projected for discharge 2 DAYS CFS
 Receiving Stream flow rate N/A CFS
- Objection No Objection
2. Final Company contact: (48 hours required notice)
 Date 6-3-85 Individual V. Lewis
 Final discharge date 6-5-85
 Objection No Objection

INSPECTION (To Be Completed By DWR)

1. 208 Practices - Acceptable Not Acceptable
 Comments: Access Rd in very poor condition drainage problems I got vehicle hung up 2 times on Access Rd + had to be pulled out by derek.
2. Compliance with general permit interim guidelines: Acceptable Not Acceptable
 Comments: Access Road + Drainage Problems, No Culverts, branches etc
3. Division of Water Resources Action Taken:
 Action Recommend: _____
4. Parameters (Prior to discharge (if any) at discharge):
 pH 8.5 Total Pb _____ TOC _____
 Chloride _____ TSS _____ Conductivity _____
 Total Fe <1.0 Total Cu _____

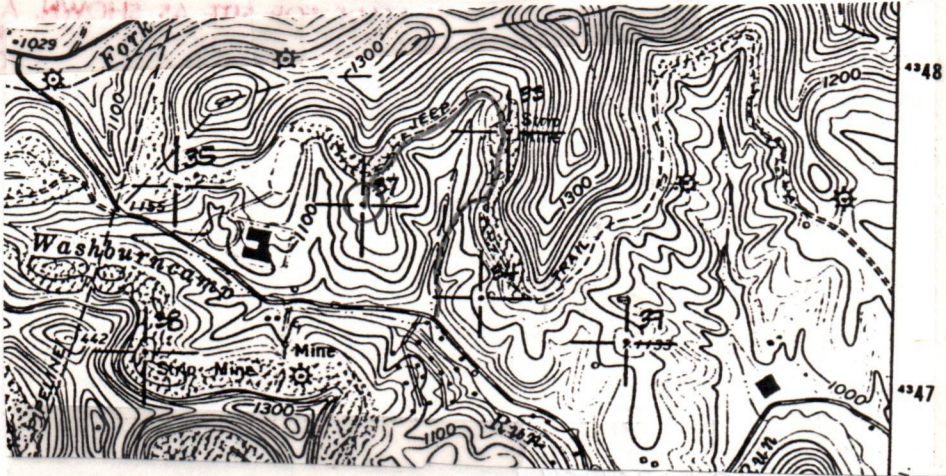
P. Parris 6-5-85

TEACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE WOLF SUMMIT 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 ———

Road = = = = =

Existing fence — x — x —

Planned fence — / — / —

Stream ~ ~ ~ ~ ~

Open ditch — ···· — ···· — ···· — ···· —

Diversion // // // // //

Spring ○ →

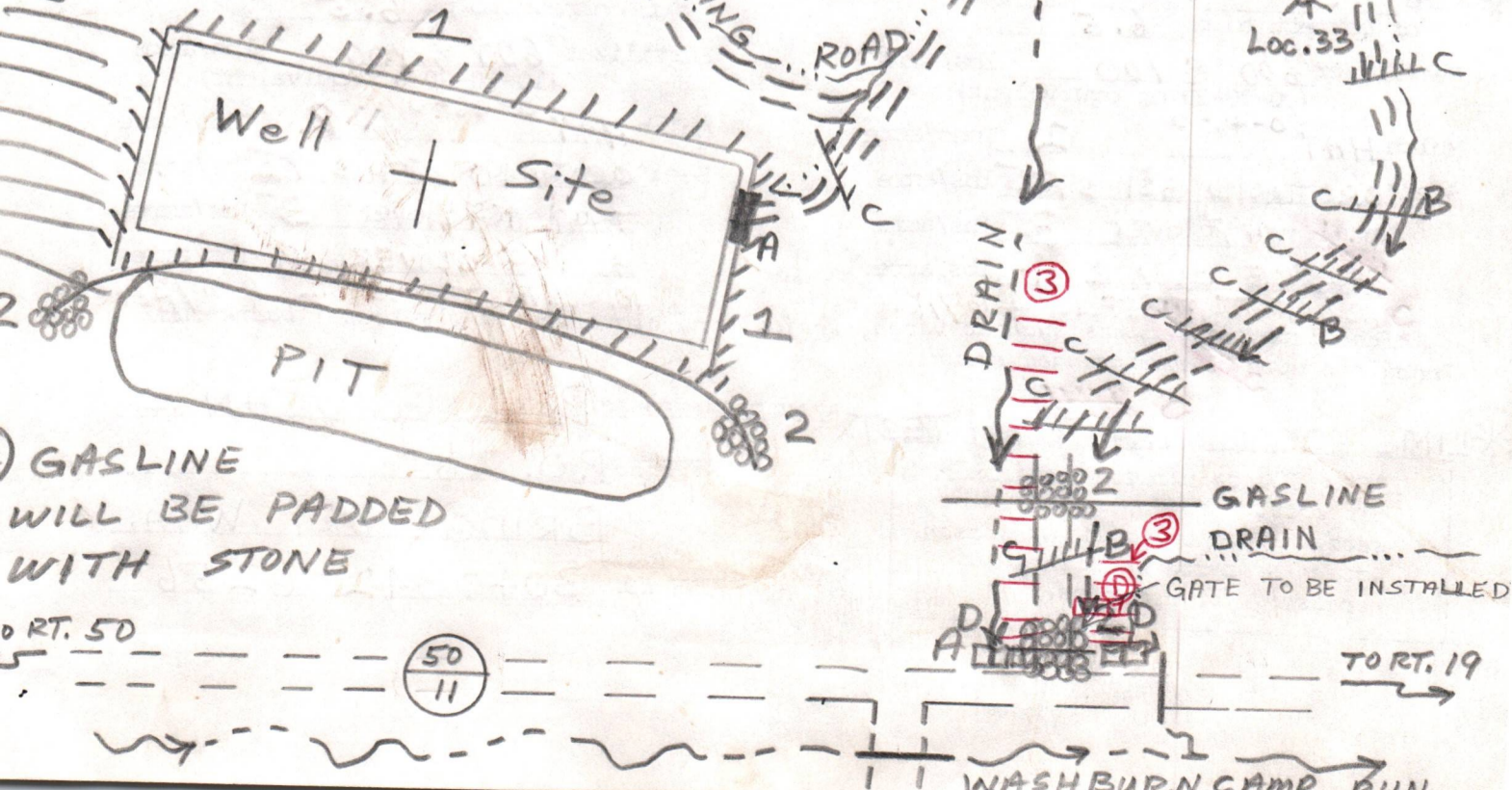
Wet spot ♀

Building ■

Drain pipe — ○ — ○ — ○ —

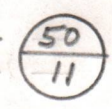
Waterway ⊂ ⊃ ⊃ ⊃ ⊃

- EXISTING ROAD WILL BE UPGRADED WHERE NECESSARY. SLOPE VARIES FROM 2.9% TO 10%
- SLIGHT TIMBER WILL BE CUT FOR LOCATION AND SAVED
- TOPSOIL WILL BE SAVED FOR RECLAMATION WORK.



GASLINE WILL BE PADDED WITH STONE

RT. 50



TO RT. 19

WASHBURN CAMP RUN



DATE MARCH 14, 1984

WELL NO. 37

State of West Virginia

API NO. 47 - 033 - 3019

Department of Mines
Oil and Gas Division

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.

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME PETROLEUM DEVELOPMENT

DESIGNATED AGENT MIKE EDWARDS

Address P.O. 26 BRIDGEPORT W.VA.

Address P.O. 26 BRIDGEPORT W.VA.

Telephone 304-842-6256

Telephone 304-842-6256

LANDOWNER NATHAN GOFF III ESTATE

SOIL CONS. DISTRICT WEST FORK

Revegetation to be carried out by SEEDING CONTRACTOR (Agent)

This plan has been reviewed by West Fork SCD. All corrections and additions become a part of this plan: 3/28/84 (Date)

STRUC: SEDIMENT BARRIER

Kenneth E Knight
(SCD Agent)

ON SITE REVIEW
3/26/84

MATL: HAY BALES (D)

PG. 2.16 ACCESS ROAD

LOCATION

Structure DRAIN PIPE (A)

Structure DIVERSION DITCH (1)

Spacing (MIN 18" I.D.) (according to Oil & Gas Manual at natural drains)

Material EARTHEN RECEIVED

Page Ref. Manual 2.7

Page Ref. Manual 2.1

Structure DRAINAGE DITCH (B)

Structure RIP-RAP OIL & GAS DIVISION

Spacing INSIDE ROAD CUTS

Material STONE DEPT. OF MINE

Page Ref. Manual 2.12

Page Ref. Manual 2.14

Structure CROSS DRAINS (C)

Structure FILTER STRIP (3)

Spacing 60'-120' APART

Material UNDISTURBED VEGETATION

Page Ref. Manual 2.1

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.

RE-CLAIMED STRIPMINE REVEGETATION RE-CLAIMED STRIPMINE - WOODS

Treatment Area I

Treatment Area II

* Lime 3 Tons/acre or correct to pH 6.5

* Lime 3 Tons/acre or correct to pH 6.5

Fertilizer 600 & 100 lbs/acre (10-20-20 or equivalent)

Fertilizer 600 & 100 lbs/acre (10-20-20 or equivalent)

Mulch HAY 0-46-0 2 Tons/acre

Mulch HAY 0-46-0 2 Tons/acre

Seed* Kentucky 31 35 lbs/acre

Seed* Kentucky 31 35 lbs/acre

Ladino clover 5 lbs/acre

Ladino clover 5 lbs/acre

lbs/acre

lbs/acre

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

*LIME ACCORDING TO pH TEST

PLAN PREPARED BY PAUL G. DEAN II

ADDRESS P.O. 26

BRIDGEPORT W.VA.

PHONE NO. 304-842-6256

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

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

1 Stage gelled H₂O Frac w/N₂ Assist

Perforated Benson with 10 holes (4448-50) used 32,000# of 20/40 sand and 534,000 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	
ss, sh, Redrock			10	1403	1/4" stream of H2O @ 26'
Big lime			1403	1450	coal @ 35'; 267'; 458'
Keener			1450	1561	
Injun			1561	1558	
SS,SH			1558	1887	
Lantz			1887	1893	
SS,SH			1893	1946	Gas
50'			1946	1976	Gas check 2351 4/10 - 1" w H2O
SS,SH			1976	1993	
30'			1993	2014	2413 4/10 2" w H2O
SS,SH			2014	2042	
Gordon Stray			2042	2062	3065 4/10 - 1" w H2O
SS,SH			2062	2162	
Gordon			2162	2186	3346 6/10 - 1" w H2O
SS,SH			2186	2294	
4th			2294	2312	4224 6/10 - 1" w H2O
SS,SH			2312	2376	
5th			2376	2400	4469 6/10 - 1" w H2O
SS,SH			2400	3066	
Speechley			3066	3074	
SS,SH			3074	3294	
Balltown			3254	3300	
SS,SH			3300	4255	
Riley			4256	4266	
SS,SH			4266	4436	
Benson			4436	4468	
SS,SH			4468	4561	
Driller T.D.			4561		
Logger T.D.			4555		

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION

Well Operator

By: *A. R. W.*
Date: December 27, 1984

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)

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JAN 7 - 1985

OIL & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date December 28, 1984
Operator's
Well No. #37
Farm Nathan Goff
API No. 47 - 033 - 3019

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: 1154 Watershed Davisson Run
District: Clark County Harrison Quadrangle Wolf Summit

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 Nathan Goff III Estate et al
ADDRESS 163 East Main St. Clarksburg, WV
MINERAL RIGHTS OWNER Diana Goff Cather & Laura Goff Davis
ADDRESS 163 East Main St. Clarksburg, WV
OIL AND GAS INSPECTOR FOR THIS WORK Steve Casey
ADDRESS Rt. 2 Box 232-D Jane Lew WV
PERMIT ISSUED 3/13/84

DRILLING COMMENCED 12/15/84
DRILLING COMPLETED 12/19/84

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.	26		
13-10"			
9 5/8			
8 5/8	1053	1053	250sks
7			
5 1/2			
4 1/2	4518	4518	275sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 5000 feet
Depth of completed well 4561 feet Rotary XX / Cable Tools
Water strata depth: Fresh 26 feet; Salt NA feet
Coal seam depths: 35; 267; 458 Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4448-4450 feet
Gas: Initial open flow Not Taken Mcf/d Oil: Initial open flow Bbl/d
Final open flow 311 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 950 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)

HARR - 3019

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

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DEC 20 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 33-3019

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>Jeff Cather</u>	16			Kind of Packer _____
Well No. <u>37</u>	13			
District _____ County <u>Harr.</u>	10			Size of _____
Drilling commenced <u>12-15-84</u>	8 1/4			
Drilling completed _____ Total depth _____	6 1/4			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 <u>8 5/8</u> SIZE <u>1043'</u> <u>250 SRS.</u> No. FT. _____ Date _____			
Fresh water <u>26</u> feet _____ feet	NAME OF SERVICE COMPANY <u>BJH</u>			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT <u>35</u> FEET <u>60</u> INCHES			
	<u>267</u> FEET <u>60</u> INCHES <u>458</u> FEET <u>48</u> INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names WDI 5

Remarks: dr. at 1493'

12-17-84
DATE

Steve Casey
DISTRICT WELL INSPECTOR

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

RECEIVED

JAN 2 - 1985

INSPECTOR'S WELL REPORT OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 33-3019

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>Cather</u>	16			Kind of Packer _____
Well No. <u>37</u>	13			
District _____ County <u>Harr.</u>	10			Size of _____
Drilling commenced <u>12-15-84</u>	8 1/4			
Drilling completed <u>12-20</u> Total depth <u>4561'</u>	6			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 UOE 5

Remarks: _____

12-20-84
DATE

Steve Casey
DISTRICT WELL INSPECTOR

17-Jan-85

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

Company: PETROLEUM DEVE CORP
Farm: NATHAN GOFF GOFF #37 Well:

Permit No. 47- 33-3019 (4-17-84)
County: HARRISON

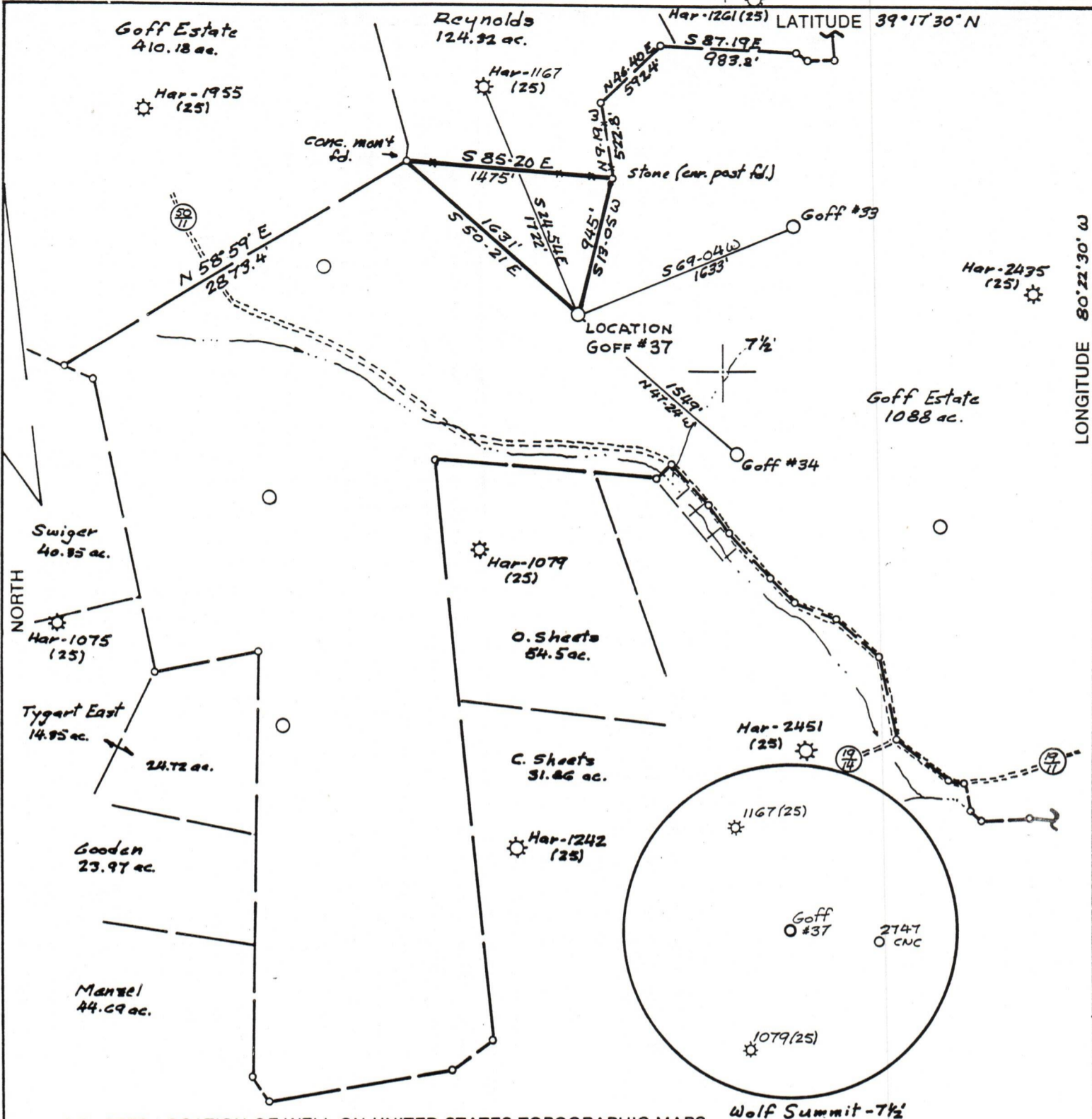
Rule	Description	In Compliance	
		Yes	No
23.06	Notification prior to starting work	-----	-----
25.04	Prepped before drilling to prevent waste	-----	-----
25.03	High pressure drilling	-----	-----
16.01	Required permits at wellsite	-----	-----
15.03	Adequate Fresh Water Casings	-----	-----
15.02	Adequate 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	-----	-----
16.02	Well Records Filed	-----	-----
16.05	Identification Markings	-----	-----

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

SIGNED Steve Casey
DATE 8-28-85

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

T. H. ...
Administrator
September 9, 1985
Date



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

FILE NO. var - 3-25
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Spot elevation e top of knob 3000' SE of location; elev. 1133

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) Nathan Goff III
 R.P.E. _____ L.L.S. 669



PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE March 10, 19 84
 OPERATOR'S WELL NO. Goff #37
 API WELL NO. _____

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

LOCATION: ELEVATION 1154 WATER SHED Davisson Run
 DISTRICT Clark COUNTY Harrison

QUADRANGLE Wolf Summit - 7 1/2'
 SURFACE OWNER Nathan Goff III Estate ACREAGE 418.635
 OIL & GAS ROYALTY OWNER Diana Goff Cather & Laura Goff Davis LEASE ACREAGE 1088
 LEASE NO. 80300

PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Benson ESTIMATED DEPTH 5000
 WELL OPERATOR Petroleum Development Corp DESIGNATED AGENT Mike Edwards
 ADDRESS P.O. Box 26, Bridgeport, WV 26330 ADDRESS P.O. Box 26, Bridgeport, WV 26330

FORM IV-6 (8-78)

LONGITUDE 80°22'30" W

COUNTY NAME

PERMIT