



1) Date: March 13, 19 84
 2) Operator's Well No. #34
 3) API Well No. 47 - 033 - 3024
 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: 1111 Watershed: Davisson Run
 District: Clark County: Harrison Quadrangle: Wolf Summit-4 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, 870 feet.
- 14) Approximate coal seam depths: 35;500 Is coal being mined in the area? Yes _____ / No /

RECEIVED
 APR 1 - 1984
 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									
Coal									Sizes
Intermediate	8-5/8	J-55	20	X		800'	800'	Cement to surface	NEAT
Production	4-1/2	J-55	10.5	X		5000'	5000'	400 sks.	Depth set
Tubing									rule 15.00
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-033-3024 Date April 17, 19 84

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>lp</u>	Plat: <u>MS</u>	Casing: <u>MH</u>	Fee: <u>832-382</u>
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[Signature]
 Administrator, Office of Oil and Gas

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

OFFICE USE ONLY

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

1) APT Well No. _____ State _____ County _____ Permit _____

2) Operator's Well No. _____

3) Date _____

4) Well Location: _____

5) Well Operator: _____

6) Well Operator's Development: _____

7) Designated Agent: _____

8) Oil & Gas Inspector to be Notified: _____

9) Drilling Contractor: _____

10) Proposed Well Work: _____

11) Geological Target Formation: _____

12) Estimated depth of completed well: _____

13) Approximate true depth: _____

14) Approximate coal seam depths: _____

15) Casing and Tubing Program: _____

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 DEPT. OF MINES

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: _____

Blanket	Agent	Plan	Casing	Log



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 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: 1111 Watershed: Davisson Run
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- 6) WELL OPERATOR Petroleum Development Corp. 7) DESIGNATED AGENT Michael L. Edwards
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- 11) GEOLOGICAL TARGET FORMATION, Benson
 12) Estimated depth of completed well, 5000 feet
 13) Approximate trata depths: Fresh, 40;660 feet; salt, 870 feet.
 14) Approximate coal seam depths: 35;500 Is coal being mined in the area? Yes _____ No X
- 15) CASING AND TUBING PROGRAM

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

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling		
Conductor	<u>11-3/4</u>	<u>H-40</u>	<u>42</u>	<u>X</u>		<u>30'</u>	<u>30'</u>	<u>Cement to surface</u> Kinds
Fresh water								
Coal								Sizes
Intermediate	<u>8-5/8</u>	<u>J-55</u>	<u>20</u>	<u>X</u>		<u>800'</u>	<u>800'</u>	<u>Cement to surface</u> Depths set
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 ska.</u> Perforations: Top Bottom
Tubing								
Liners								

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein. I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)
 NAME: _____
 By _____
 Its _____ Date _____

(For execution by natural persons)
X Laura Davis Date: 3/24/84
 (Signature)
Deane Loffel 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.



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
Diana Goff Cather	Petroleum Development Corp.	.0625	1007/714
Laura Goff Davis	Petroleum Development Corp.	.0625	1007/714

RECEIVED
 DEPT. OF MINES
 DIVISION OF OIL & GAS
 OKLAHOMA CITY, OKLA.
 1974

033 2954

1) Date: March 13, 1984
 2) Operator's Well No. #34
 3) API Well No. 47-033-3024
 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 Diana Goff Cather
 Address 163 East Main Street
 Clarksburg, West Virginia 26301
- (11) Name Laura Goff Davis
 Address P.O. Box 707
 Clarksburg, West Virginia 26301
- (111) Name _____
 Address _____
 Clarksburg, West Virginia 26301

5(1) COAL OPERATOR

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

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 APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a well work permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

Check and provide one of the following:

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

7) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

You may use Affidavit Form IV-60. If the answer above is No, nothing additional is needed. If the answer is Yes, 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

M. T. Edwards
 this 13 day of March, 1984
 My commission expires April 7, 1992

Notary Public, Mineral County, State of West Virginia
 Jeffrey D. Nichols
 Notary Public, Mineral County, State of West Virginia

WELL OPERATOR Petroleum Development Corporation
 By M. T. Edwards
 Its Vice-President of Exploration
 Address P.O. Box 26,
 Bridgeport, West Virginia 26330
 Telephone 304-842-6256

OIL & GAS DIVISION
 DEPT. OF MINES

RECEIVED
 APR 4 - 1984



1) Date: March 13, 19 84
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 State _____ County _____ Permit _____

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

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- 5) LOCATION: Elevation: 1111 Watershed: Davison Run
 District: Clark County: Harrison Quadrangle: Wolf Summit-4 1/2
- 6) WELL OPERATOR Petroleum Development Corp. 7) DESIGNATED AGENT Michael L. Edwards
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- 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 X /
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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		
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Fresh water									
Coal									Sizes
Intermediate	<u>8-5/8</u>	<u>J-55</u>	<u>20</u>	<u>X</u>		<u>800'</u>	<u>800'</u>	<u>Cement to surface</u>	Depths set
Production	<u>4-1/2</u>	<u>J-55</u>	<u>10.5</u>	<u>X</u>		<u>5000'</u>	<u>5000'</u>	<u>400 sks.</u>	
Tubing									
Liners									Perforations:
									Top Bottom

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of the filing of the Application.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: March 4, 19 84


By: Diana Goff Cather

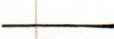
Its _____

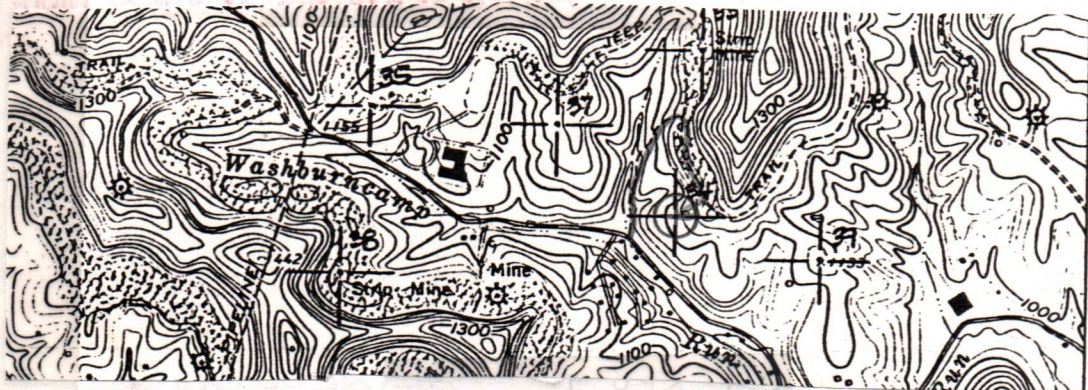
ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP.

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, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

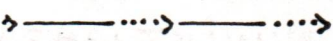
Property boundary 


Road 

Existing fence 


Planned fence 


Stream 


Open ditch 


Diversion 

Spring 

Wet spot 

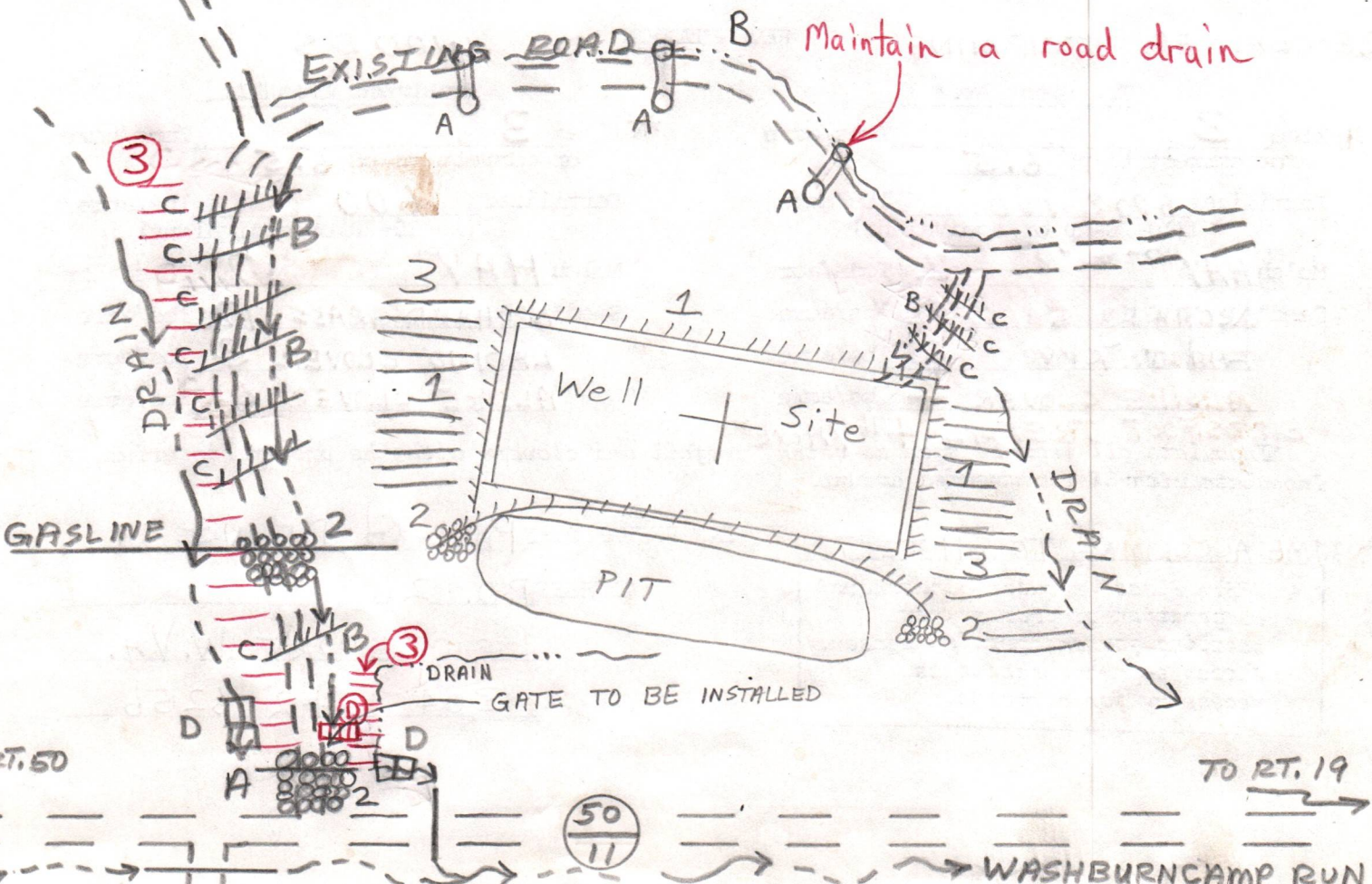
Building 

Drain pipe 

Waterway 

- ① EXISTING ROAD TO BE USED. SLOPE VARIES FROM 1% TO 10%.
- ② TIMBER WILL ONLY BE CUT FOR LOCATION AND SAVED
- ③ GASLINE WILL BE PADDED WITH STONE
- ④ TOPSOIL WILL BE SAVED FOR RECLAMATION WORK.

Loc 33 





DATE MARCH 14, 1984

WELL NO. 34

API NO. 47 - 033 - 3024

State of West Virginia

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.V.

Address P.O. 26 BRIDGEPORT W.V.A.

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

MATL: HAY BALES

PG. 2.16

(D) Kenneth E Knight ON SITE REVIEW
(SCD Agent) 3/26/84

ACCESS ROAD

LOCATION

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

Page Ref. Manual 2.7

Structure DIVERSION DITCH (1)

Material EARTHEN

Page Ref. Manual 2.1

Structure DRAINAGE DITCH (B)

Spacing INSIDE ROAD CUTS

Page Ref. Manual 2.12

Structure RIP-RAP (2)

Material STONE OIL & GAS DIVISION

Page Ref. Manual 2.1 DEPT. OF MINES

Structure CROSS DRAINS (C)

Spacing 60'-120' APART

Page Ref. Manual 2.1

Structure FILTER STRIP (3)

Material UNDISTURBED VEGETATION

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 STRIP MINE

REVEGETATION

WOODS

Treatment Area I

Treatment Area II

*Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 & 100 lbs/acre
(10-20-20 or equivalent)
Mulch HAY 0-46-0 2 Tons/acre
Seed * Kentucky 31 35 lbs/acre
Ladino clover 5 lbs/acre
lbs/acre

*Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch HAY 2 Tons/acre
Seed * ORCHARD GRASS 12 lbs/acre
LADINO CLOVER 3 lbs/acre
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

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

ADDRESS P.O. 26
BRIDGEPORT W.V.A.
PHONE NO. 304-842-6256

RECEIVED
DEPT. OF MINES

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
Performed 75 Quality foam frac on Benson. Perforated zone with 12 shots (4398'-4402').
Stimulated the formation using 36,000 lb. of 20/40 sand using 670,000 scf N2.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
KB - GL			0	10	
sand, shale, redrock			10	1365	½" stream H2O at 48'
big lime			1365	1419	coal @ 88'; 258'; 317'
keener			1419	1440	
big injun			1440	1515	
sand, shale			1515	1841	
gantz			1841	1852	
sand, shale			1852	1897	
50 foot sand			1897	1938	gas @ 1908'; no show
sand, shale			1938	1952	gas @ 1999'; no show
30 foot sand			1952	1980	
sand, shale			1980	2001	
gordon			2001	2016	
sand, shale			2016	2203	gas @ 2123'; 18/10 thru 2" w/H2O
4th sand			2203	2236	
sand, shale			2236	2255	
5th sand			2255	2271	
sand, shale			2271	2329	gas @ 2277'; 8/10 thru 2" w/H2O
bayard			2329	2355	
sand, shale			2355	2905	gas @ 2524'; 8/10 thru 2" w/H2O
speechley			2905	3042	
sand, shale			3042	3148	gas @ 3148'; 10/10 thru 2" w/H2O
balltown			3148	3366	
sand, shale			3366	3588	
bradford			3588	3803	
sand, shale			3803	4197	gas @ 3989'; 10/10 thru 2" w/H2O
riley			4197	4310	gas @ 4239'; 10/10 thru 2" w/H2O
sand, shale			4310	4394	
benson			4394	4431	
sand, shale			4431	4549 TD	logger
				4552 TD	driller
					gas @ 4450'; 10/10 thru 2" w/H2O
					gas @ TD; 12/10 thru 2" w/H2O

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION

Well Operator

By: 

Date: 1/24/85

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."

RECEIVED
JAN 25 1985



IV-35
(Rev 8-81)

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date 1/10/85
Operator's
Well No. #34
Farm Nathan Goff
API No. 47 - 033 - 3024

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: 1111' Watershed Davisson Run
District: Clark County Harrison Quadrangle Wolf Summit 7 1/2'

COMPANY PETROLEUM DEVELOPMENT CORPORATION

ADDRESS 103 EAST MAIN ST, BRIDGEPORT, WV 26330

DESIGNATED AGENT STEVEN R. WILLIAMS

ADDRESS 103 EAST MAIN ST, BRIDGEPORT, WV 26330

SURFACE OWNER Diana Goff Cather, 163 E. Main St,
Clarksburg, WV 26301

ADDRESS Laura Goff Davis, PO Box 707, Clarksburg, WV

MINERAL RIGHTS OWNER same as surface owner

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Stephen
Casey

ADDRESS JANE LEW, WV 26378

PERMIT ISSUED APRIL 17, 1984

DRILLING COMMENCED DECEMBER 21, 1984

DRILLING COMPLETED DECEMBER 28, 1984

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"	26'	26'	cement to surface
9 5/8			
8 5/8	1010'	1010'	230 sks
7			
5 1/2			
4 1/2	4520'	4520'	525 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION BENSON Depth 5000 feet

Depth of completed well 4552 feet Rotary xx / Cable Tools _____

Water strata depth: Fresh 48 feet; Salt _____ feet

Coal seam depths: 88'; 258'; 317' Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation BENSON Pay zone depth 4398-4402 feet

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

Final open flow 169 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1600 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

3024

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

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JAN 2 - 1985

OIL & GAS DIVISION

DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 33-3024

Oil or Gas Well _____
(KIND)

Company Petro. Serv. Co.
 Address _____
 Farm Cather
 Well No. 34
 District Clark County Harr.
 Drilling commenced 12-21-84
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 1/4			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names UPI 5

Remarks:

12-21-84

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

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. 83-3024

Oil or Gas Well _____
(KIND)

Company <u>Petro. Serv. 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>34</u>	13			
District <u>Clark</u> County <u>Harrison</u>	10			Size of _____
Drilling commenced <u>12-21-84</u>	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 1/2			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES FEET _____ INCHES			
	_____ FEET _____ INCHES FEET _____ INCHES			

Drillers' Names COE 5

Remarks: 8 5/8 1010' 230 SKB. BJH

12-22-84

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: _____

Handwritten notes:
HCT SPORES 1001 274

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

DISTRICT WELL INSPECTOR

IV-20
O' rse
1- 4

30-Jan-85

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

(4-17-84)

Company: PETROLEUM DEVE CORP
Farm: NATHAN GOFF GOFF #34 Well:

Permit No. 47- 33-3024
County: HARRISON

Rule	Description	In Compliance	
		Yes	No
23.06	Notification prior to starting work	_____	_____
25.04	Preped before drilling to prevent waste	_____	_____
25.03	High pressure drilling	_____	_____
16.01	Required permits at wellsite	_____	_____
15.03	Adequate Fresh Water Casing	_____	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	_____	_____
15.04	Adequate Cement Strength	_____	_____
15.05	Cement Type	_____	_____
23.02	Maintained Access Roads	_____	_____
23.01	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	_____	_____
7.05	Identification Markings	_____	_____

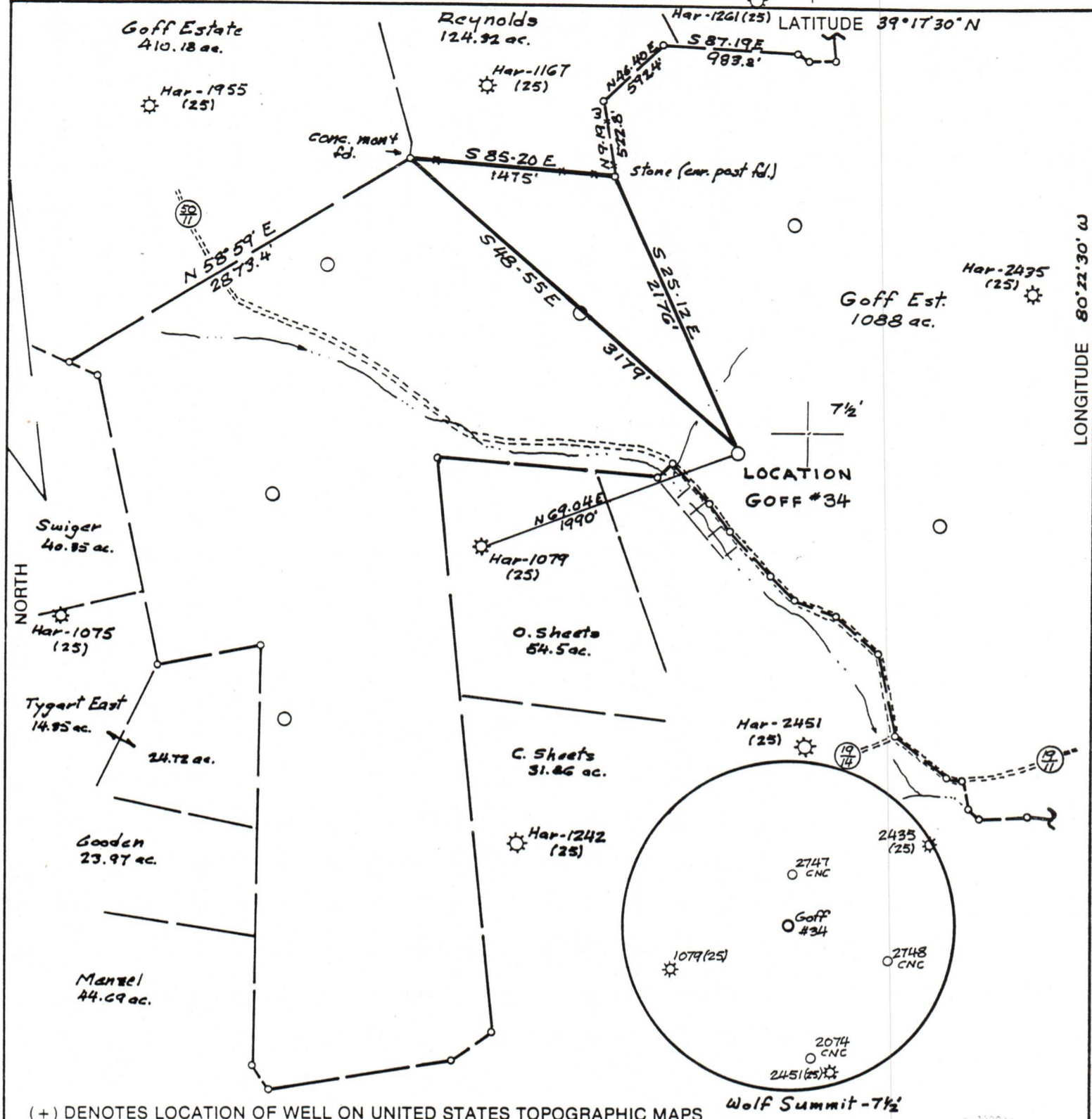
I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Steve Casey
DATE 8-28-85

Your well record was received and reclamation requirements approved. In accordance with Chapter 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 - 9-25
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Spot elev. 1550' 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
 R.P.E. _____ L.L.S. 669



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE March 10, 19 84
 OPERATOR'S WELL NO. Goff #34
 API WELL NO. 47-033-3024
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1111 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 Danz 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 77° 06' 22.08"

COUNTY NAME

PERMIT