



1) Date: March 13, 19 84
 2) Operator's Well No. #33
 3) API Well No. 47 - 033 - 3023
 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 X /)
- 5) LOCATION: Elevation: 1166 Watershed: Davisson Run
 District: Clark County: Harrison Quadrangle: Wolf Summit-7½
- 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
 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, 30;865 feet; salt, 930 feet.
- 14) Approximate coal seam depths: 195;690 Is coal being mined in the area? Yes No
- 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	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		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 47-033-3023 Date April 17, 1984

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>MU MU</u>	Casing	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) LOCATION: District: _____ County: _____ Elevation: _____
 2) WELL OPERATOR: _____
 3) OIL & GAS INSPECTOR TO BE NAMED: _____
 4) DRILLING CONTRACTOR: _____

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DEPT. OF MINES OIL & GAS DIVISION

LOG OF INTERVALS	DEPTH	FORMATION	REMARKS
30'	30'
30'	60'
30'	90'

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	Follow-up inspection(s)
Well work started	" "
Completion of the drilling process	" "
Well Record received	" "
Reclamation completed	" "

OTHER INSPECTIONS

Reason: _____
 Reason: _____

Inspected	Agent	Date	Remarks



1) Date: March 13, 1984
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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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 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow _____ /)
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 District: Clark County: Harrison Quadrangle: Wolf Summit-7 1/2
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Bridgeport, WV 26330 Bridgeport, WV 26330
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 DEPT. OF MINES

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Fresh water										
Coal									Sizes	
Intermediate	8-5/8	J-55	20	X		850'	850'	Cement to surface		
Production	4-1/2	J-55	10.5	X		5000'	5000'	400 sks.	Depths set	
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 24, 1984

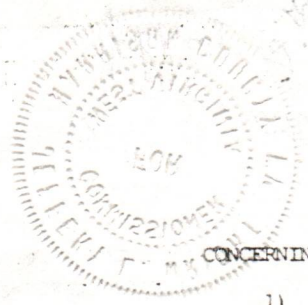
By Laura Goff Davis
Diana Goff Cather

Its _____

W. G. WILKES

DEPT. OF WILKES

W. G. WILKES



INSTRUCTIONS TO APPLICANT

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 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	1007/714
Laura Goff Davis	Petroleum Development Corp.	.0625	1007/714

DEPT OF ENVIRONMENTAL CONSERVATION
RECEIVED

1007-3003

Obverse [8-83]

1) Date: March 13, 1984
2) Operator's Well No. #33
3) API Well No. 47-033-3023

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
Clarksville, West Virginia 26301

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

(1) Name Clarksville, West Virginia 26301
Address

(1) Name Clarksville, West Virginia 26301
Address P.O. 707

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5(1) COAL OPERATOR Address

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

5(1) COAL OWNER(S) WITH DECLARATION ON RECORD: Name Laura Goff Davis
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By M. C. Edwards
Petroleum Development Corporation
Its Vice-President of Exploration
Address P.O. Box 26, Bridgeport, W. Va. 26330
Telephone 304-842-6256

Notary Public, Mineral County, State of West Virginia
My commission expires April 7, 1992
1984

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. I. Edwards

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.

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

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.

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.

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.

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 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.

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



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 State _____ County _____ Permit _____

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 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT**

- 4) WELL TYPE: A Oil _____ / Gas X /
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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
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 OIL & GAS DIVISION
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	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	Sizes
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>		
Fresh water										
Coal										
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										
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)

Laura Goff Davis Date: 3/24/84
 (Signature)
Diana 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.

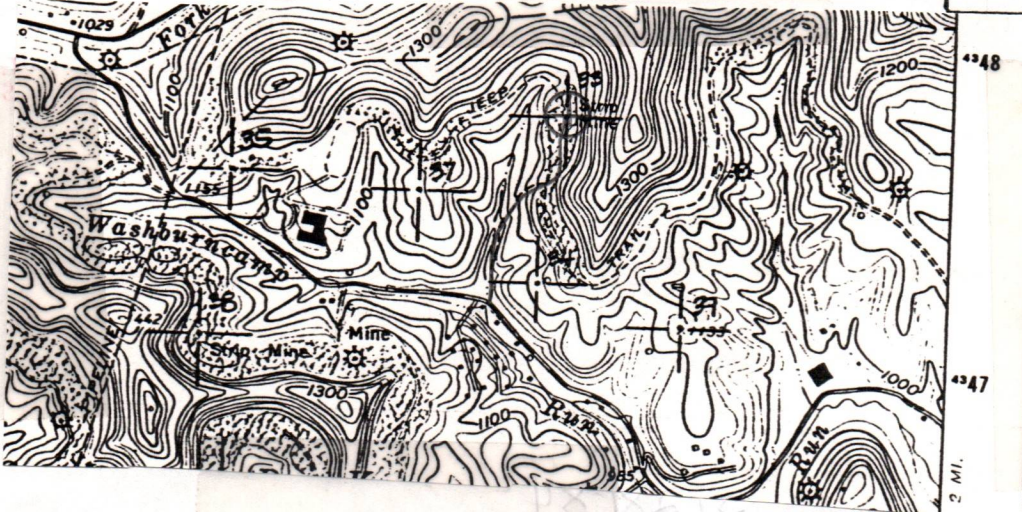
ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP.

QUADRANGLE WOLF SUMMIT 7 1/2

LEGEND

Well Site ⊕

Access Road ———



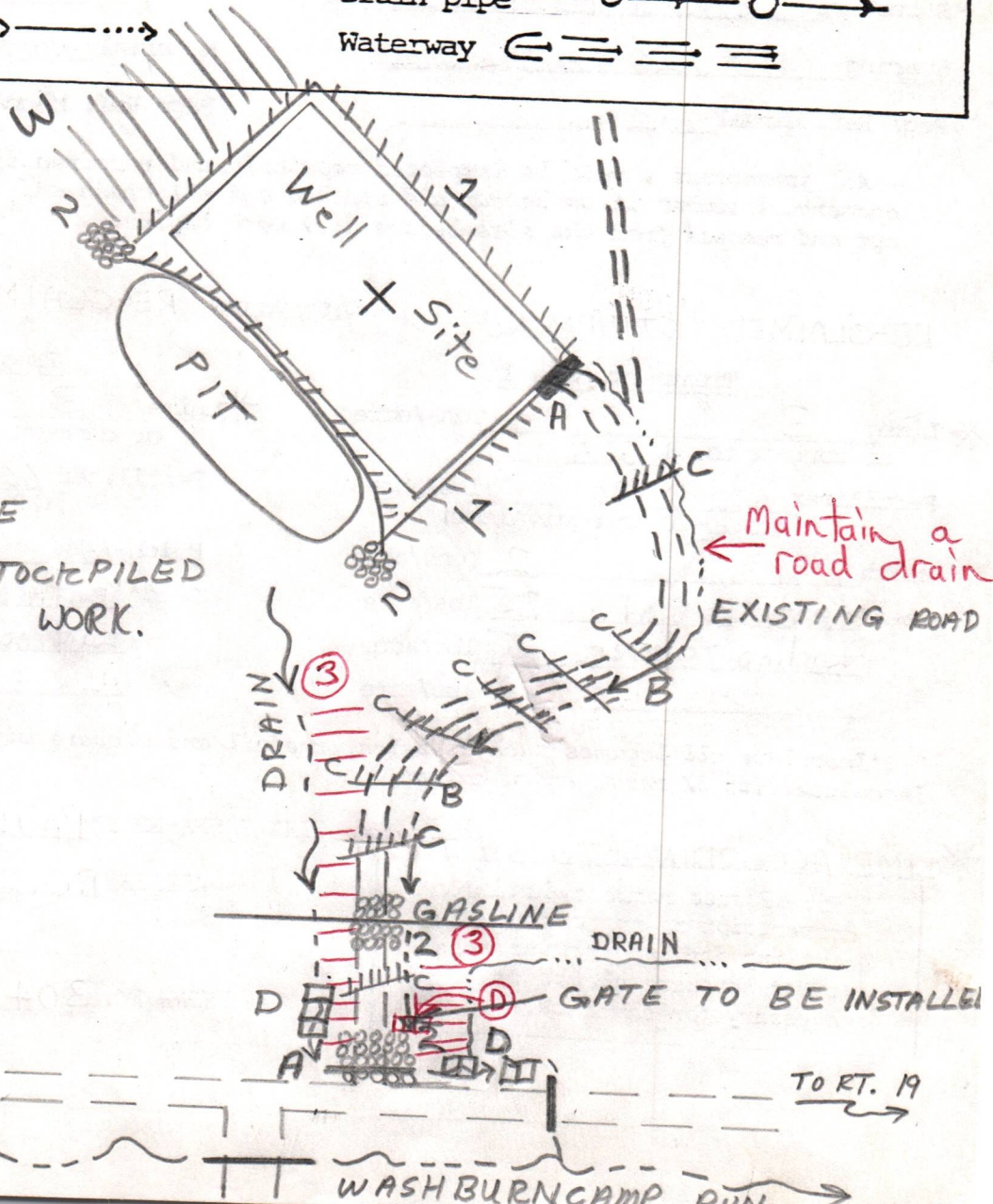
WELL SITE PLAN

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

LEGEND

Property boundary ————	Diversion ————
Road = = = = =	Spring ○ →
Existing fence — x — x —	Wet spot ♂
Planned fence — / — / —	Building ■
Stream ~ ~ ~ ~ ~	Drain pipe — ○ — ○ —
Open ditch — ···· —	Waterway ⊂ ⊃ ⊃ ⊃

- EXISTING ROAD WILL BE USED SLOPE VARIES FROM 19% to 10%
- ONLY SCRUB TIMBER WILL BE CUT
- GASLINE WILL BE PADDED WITH STONE
- TOPSOIL WILL BE STOCKPILED FOR RECLAMATION WORK.





DATE MARCH 14, 1984

WELL NO. 33

State of West Virginia API NO. 47-033-3023

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
Address P.O. 26 BRIDGEPORT W.VA.
Telephone 304-842-6256
LANDOWNER NATHAN GOFF III ESTATE
Revegetation to be carried out by SEEDING CONTRACTOR (Agent)

DESIGNATED AGENT MIKE EDWARDS
Address P.O. 26 BRIDGEPORT W.VA.
Telephone 304-842-6256
SOIL CONS. DISTRICT WEST FORK

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 (D) Kenneth E Knight ON SITE REVIEW
MATH: HAY BALES (SCD Agent) 3/26/84

PG. 2.16 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

RECEIVED

Structure DRAINAGE DITCH (B)
Spacing INSIDE ROAD CUTS
Page Ref. Manual 2.12

Structure RIP-RAP (2)
Material STONE
Page Ref. Manual 2.14
OIL & GAS DIVISION
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 STRIPMINE

REVEGETATION RE-CLAIMED STRIPMINE

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)
0-46-0
Mulch HAY 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 & 100 lbs/acre
(10-20-20 or equivalent)
0-46-0
Mulch HAY 2 Tons/acre
Seed* Kentucky 31 35 lbs/acre
Ladino clover 5 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.

GELLED WATER/N2 ASSIST
 13 PERFORATIONS (4469-4479)
 500 GAL. ACID
 15,000# 80/100, 40,000# 20/40, 75,000 SCF N2
 585 BBL SAND LADEN FLUID
 71 BBL FLUSH

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	1430	3/4" stream H2O @ 50' 3/4" stream H2O @ 898' gas check @ 1375' no show
big lime			1430	1484	
big injun			1484	1583	
sand, shale			1583	1970	gas check @ 1906' 10/10 thru 1" w/H2O
50 foot			1970	2015	
sand, shale			2015	2023	
30 foot			2023	2042	gas check @ 2031' 8/10 thru 1" w/H2O
sand, shale			2042	2072	
gordon stray/ gordon			2072	2087	
sand, shale			2087	2274	gas check @ 2156' 6/10 thru 1" w/H2O
4th sand			2274	2304	
sand, shale			2304	2326	
5th sand			2326	2339	
sand, shale			2339	2398	gas check @ 2342' 6/10 thru 1" w/H2O
bayard (lower 5th sand)			2398	2424	
sand, shale			2424	3005	gas check @ 2996' 6/10 thru 1" w/H2O
speechley			3005	3108	
sand, shale			3108	3232	gas check @ 3213' 20/10 thru 2" w/H2O
balltown			3232	3339	gas check @ 3307' 22/10 thru 2" w/H2O
sand, shale			3339	3686	gas check @ 3588' 4/10 thru 2" w/H2O
bradford			3686	3820	gas check @ 3809' 18/10 thru 2" w/H2O
sand, shale			3820	3997	
riley			3997	4329	gas check @ 4182' 6/10 thru 2" w/H2O
sand, shale			4329	4468	
benson			4468	4478	
sand, shale			4478	4677 TD	gas check @ 4490' 10/10 thru 2" w/H2O

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION
 Well Operator

By:

Steve R. Williams

Date:

10/25/84

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



IV-35
(Rev 8-81)

RECEIVED
OCT 31 1984

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date _____
Operator's _____
Well No. #33
Farm Nathan Goff
API No. 47 - 033 - 3023

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: 1166' Watershed Davisson Run
District: Clark County Harrison Quadrangle Wolf Summit 7 1/2'

COMPANY PETROLEUM DEVELOPMENT CORPORATION
ADDRESS PO BOX 26, BRIDGEPORT, WV 26330
DESIGNATED AGENT STEVEN R. WILLIAMS
ADDRESS PO BOX 26, BRIDGEPORT, WV 26330
SURFACE OWNER DIANA GOFF CATHER, 163 EAST MAIN ST, CLARKSBURG, WV 26301 & LAURA GOFF DAVIS
ADDRESS PO BOX 707, CLARKSBURG, WV 26301
MINERAL RIGHTS OWNER DIANA GOFF CATHER, 163 E. MAIN ST., CLARKSBURG, WV 26301 & LAURA GOFF DAVIS
ADDRESS PO BOX 707, CLARKSBURG, WV 26301
OIL AND GAS INSPECTOR FOR THIS WORK STEPHEN CASEY
ADDRESS JANE LEW, WV 26378
PERMIT ISSUED 4/17/84
DRILLING COMMENCED 9/26/84
DRILLING COMPLETED 10/03/84
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.			
11 3/4" 13-10"	30'	30'	cement to surface
9 5/8			
8 5/8	843'	843'	200 sks
7			
5 1/2			
4 1/2	4619'	4619'	410 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION BENSON Depth 5000 feet
Depth of completed well 4677 feet Rotary xx / Cable Tools _____
Water strata depth: Fresh 50, 898 feet; Salt n/a feet
Coal seam depths: n/a Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation BENSON Pay zone depth 4469-79 feet
Gas: Initial open flow 133 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 894 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ 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)

HARRISON
3023

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

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SEP 20 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 33-3023

Oil or Gas Well _____
(KIND)

Company PDC

Address _____

Farm G off

Well No. 33

District Clark County Harrison

Drilling commenced 9-26-84

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 3/4			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 UDI 15

Remarks: ordered trees pulled out of hollow

9-26-84
DATE

Steve Casey
DISTRICT WELL INSPECTOR

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

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OCT 2 - 1984

INSPECTOR'S WELL REPORT & GAS DIVISION

DEPT. OF MINES

Permit No. 33-3023

Oil or Gas Well
(KIND)

Company <u>PDC</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Jeff</u>	16			Kind of Packer _____
Well No. <u>33</u>	13			
District <u>Clark</u> County <u>Harrison</u>	10			Size of _____
Drilling commenced <u>9-25-84</u>	8 1/4			
Drilling completed _____ Total depth _____	6 3/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water <u>50</u> feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names UDI 15

Remarks: 8 5/8 843' 200 SK. BJH

9-27-84
DATE

Steve Casey
DISTRICT WELL INSPECTOR

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

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OCT 5 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

DEPT. OF MINES

Oil or Gas Well
(KIND)

Permit No. 33-3023

Company Petrof. Devel. Co.
 Address _____
 Farm Jeff
 Well No. 33
 District Clark County Harrison
 Drilling commenced 9-25-84
 Drilling completed 10-1-84 Total depth 4677
 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 898 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 1/2			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 ADI 15

Remarks: 4 1/2 at 4619

10-2-84
DATE

Steve Casey
DISTRICT WELL INSPECTOR



State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
November 19, 1984

COMPANY Petroleum Development Corp.

PERMIT NO 033-3023 (4-17-84)

P. O. Box 26

FARM & WELL NO Nathan Goff #33

Bridgeport, West Virginia 26330

DIST. & COUNTY Clark/Harrison

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.04	Prepared before Drilling to Prevent Waste	<input type="checkbox"/>	<input type="checkbox"/>
25.03	High-Pressure Drilling	<input type="checkbox"/>	<input type="checkbox"/>
16.01	Required Permits at Wellsite	<input type="checkbox"/>	<input type="checkbox"/>
15.03	Adequate Fresh Water Casing	<input type="checkbox"/>	<input type="checkbox"/>
15.02	Adequate Coal Casing	<input type="checkbox"/>	<input type="checkbox"/>
15.01	Adequate Production Casing	<input type="checkbox"/>	<input type="checkbox"/>
15.04	Adequate Cement Strenght	<input type="checkbox"/>	<input type="checkbox"/>
15.05	Cement Type	<input type="checkbox"/>	<input type="checkbox"/>
23.02	Maintained Access Roads	<input type="checkbox"/>	<input type="checkbox"/>
25.01	Necessary Equipment to Prevent Waste	<input type="checkbox"/>	<input type="checkbox"/>
23.04	Reclaimed Drilling Pits	<input type="checkbox"/>	<input type="checkbox"/>
23.05	No Surface or Underground Pollution	<input type="checkbox"/>	<input type="checkbox"/>
23.07	Requirements for Production & Gathering Pipelines	<input type="checkbox"/>	<input type="checkbox"/>
16.01	Well Records on Site	<input type="checkbox"/>	<input type="checkbox"/>
16.02	Well Records Filed	<input type="checkbox"/>	<input type="checkbox"/>
7.05	Identification Markings	<input type="checkbox"/>	<input type="checkbox"/>

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

SIGNED

Steve Casey

DATE

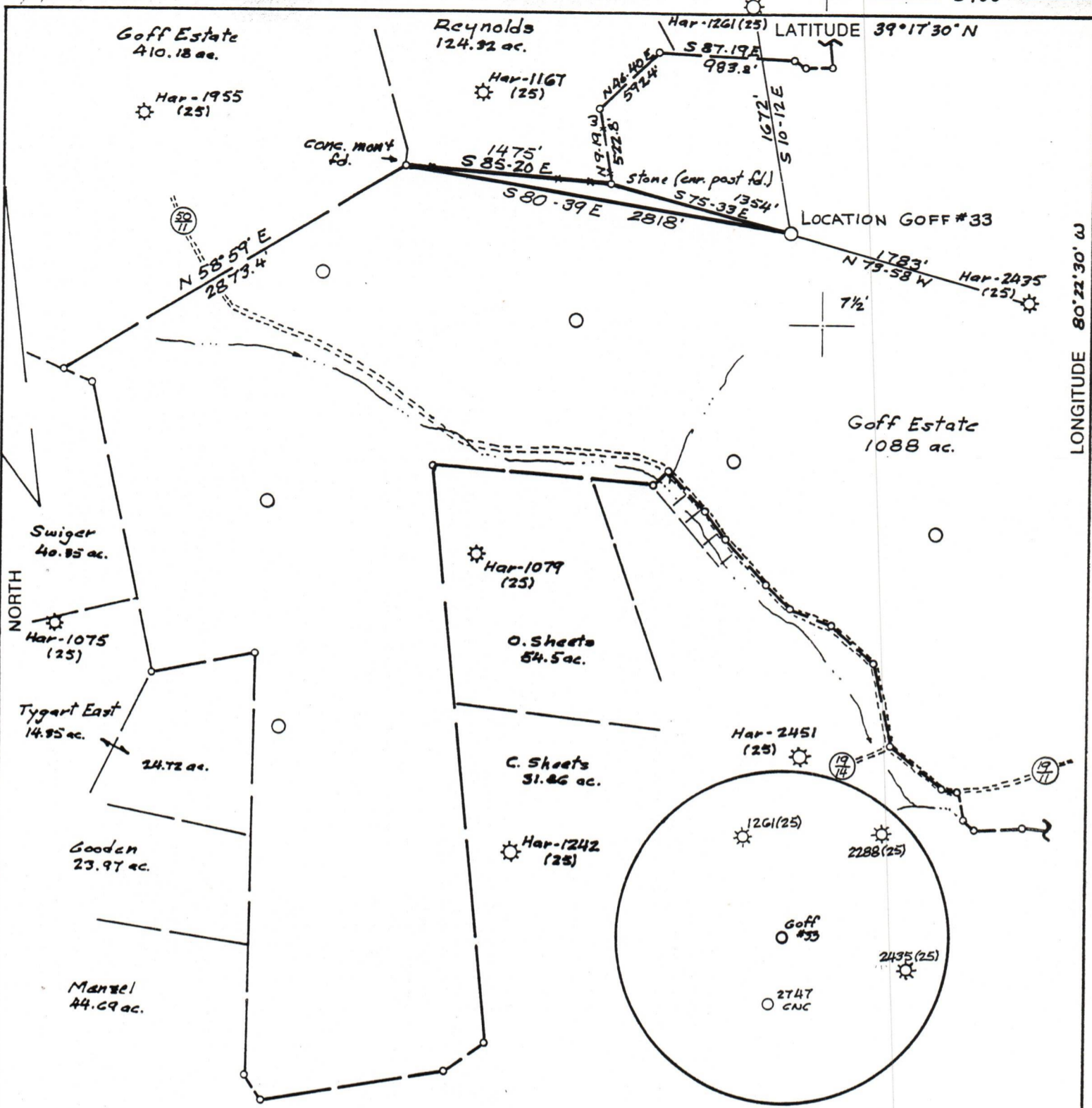
8-28-85

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. v. B.
Administrator-Oil & Gas Division

September 9, 1985

DATE



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

FILE NO. var - J-25
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Spot elev. 2400' 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) [Signature]
 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 #33
 API WELL NO. _____

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

LOCATION: ELEVATION 1166 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

LONGITUDE 80° 22' 08"

COUNTY NAME PERMIT