



1) Date: March 13, 19 84
 2) Operator's Well No. #39
 3) API Well No. 47 - -33 - 3018
 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: 1133 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) Benson
 11) GEOLOGICAL TARGET FORMATION, _____
 12) Estimated depth of completed well, 5000 feet
 13) Approximate trata depths: Fresh, 50;680 feet; salt, 920 feet.
 14) Approximate coal seam depths: 50;520 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									
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 47-033-3018 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>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>832-382</u>
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[Signature]
 Administrator, Office of Oil and Gas



OFFICE USE ONLY

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

1) LOCATION: District: Clark County: Harrison
 Well No.: 47-033-3018
 2) WELL OPERATOR: P.O. Box 26, 103 East Main St., Bridgeport, WV 26330
 3) DRILLING CONTRACTOR: Name: Stephen Casey, Address: P.O. Box 222-D, Jane Lew, WV 26376
 4) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: Stephen Casey, Address: P.O. Box 222-D, Jane Lew, WV 26376
 5) DESIGNATED AGENT: Name: Michael J. Lowman, Address: P.O. Box 26, 103 East Main St., Bridgeport, WV 26330
 6) PROPOSED WELL WORK: Plug off old formation, perforate new formation
 7) GEOLOGICAL TARGET FORMATION: Other physical change in well (specify):
 8) APPROXIMATE TRAP DEPTH: 50-50
 9) APPROXIMATE COAL SEAM DEPTH: 50-50
 10) CASING AND TUBING PROGRAM: Casing or tubing type: 2 1/2" x 10.5"
 11) ESTIMATED DEPTH OF COMPLETED WELL: 300'
 12) APPROXIMATE TRAP DEPTH: 50-50
 13) APPROXIMATE COAL SEAM DEPTH: 50-50
 14) IS COAL BEING MINED IN THE AREA? Yes

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Casing or tubing type	Size	Depth	Weight per ft.	Foot-candle		Cement to surface
				Top	Bottom	
2 1/2" x 10.5"	10.5"	300'	10.5	300'	300'	Cement to surface
2 1/2" x 10.5"	10.5"	300'	10.5	300'	300'	Cement to surface

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: _____

Agent	Blk.	Casing	Fee



1) Date: March 13, 19 84
 2) Operator's Well No. #39
 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: 1133 Watershed: Daviason 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
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 Name Stephen Casey Name _____
 Address Rt. 2, Box 232-D Address _____
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 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Benson
- 12) Estimated depth of completed well, 5000 feet
- 13) Approximate strata depths: Fresh, 50:680 feet; salt, 920 feet.
- 14) Approximate coal seam depths: 50:520 Is coal being mined in the area? Yes _____ No _____

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 APR 4 - 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	<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>850'</u>	<u>850'</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 24, 19 84

By Sandra Lynn Davis
Diana Jeff Cather

Its _____



I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

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

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
<i>Diana Goff Cather</i>	<i>Petroleum Development Corp.</i>	<i>.0625</i>	<i>1007/714</i>
<i>Laura Goff Davis</i>	<i>Petroleum Development Corp.</i>	<i>.0625</i>	<i>1007/714</i>

DEPT. OF MINES
OIL & GAS DIVISION

RECEIVED

33-2918

1) Date: March 13, 1984
 2) Operator's Well No. #39
 3) API Well No. 47-33-3018
 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
Clarksville, West Virginia 26301

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

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

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

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

6) EXTRACTION RIGHTS

Check and provide one of the following:

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

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

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

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

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

In my County and State by M.L. Edwards

this 13 day of March, 1984
 My commission expires April 1, 1991
 Notary Public, Monroe County,
 State of West Virginia

Telephone 304/842-6256

Address Bridgport, West Virginia 26330

Address P.O. Box 26

Its Vice-President of Exploration

By M. Edwards

OPERATOR Petroleum Development Corporation

WELL

OIL & GAS DIVISION
 DEPT. OF MINES

RECEIVED

APR 4 - 1984



1) Date: March 13, 19 84
 2) Operator's Well No. 739
 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 X _____)
- 5) LOCATION: Elevation: 1133 Watershed: Davison Run
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- 6) WELL OPERATOR Patroleum 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.
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 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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OIL & GAS DIVISION
DEPT. OF MINES

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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)
X Paula Jeff Davis Date: 3/24/84
 (Signature)
Diana Jeff 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.

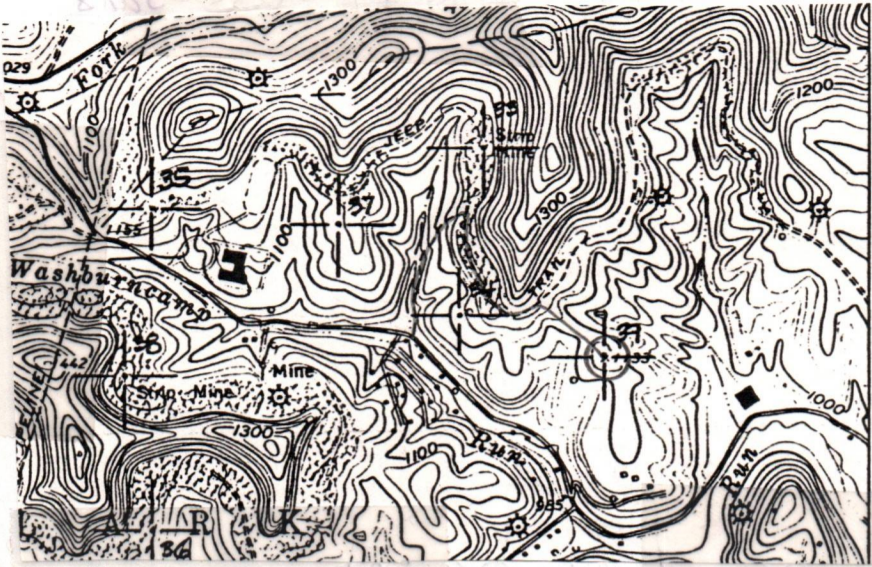
ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP.

QUADRANGLE WOLF SUMMIT 7 1/2

LEGEND

Well Site ⊕

Access Road ———

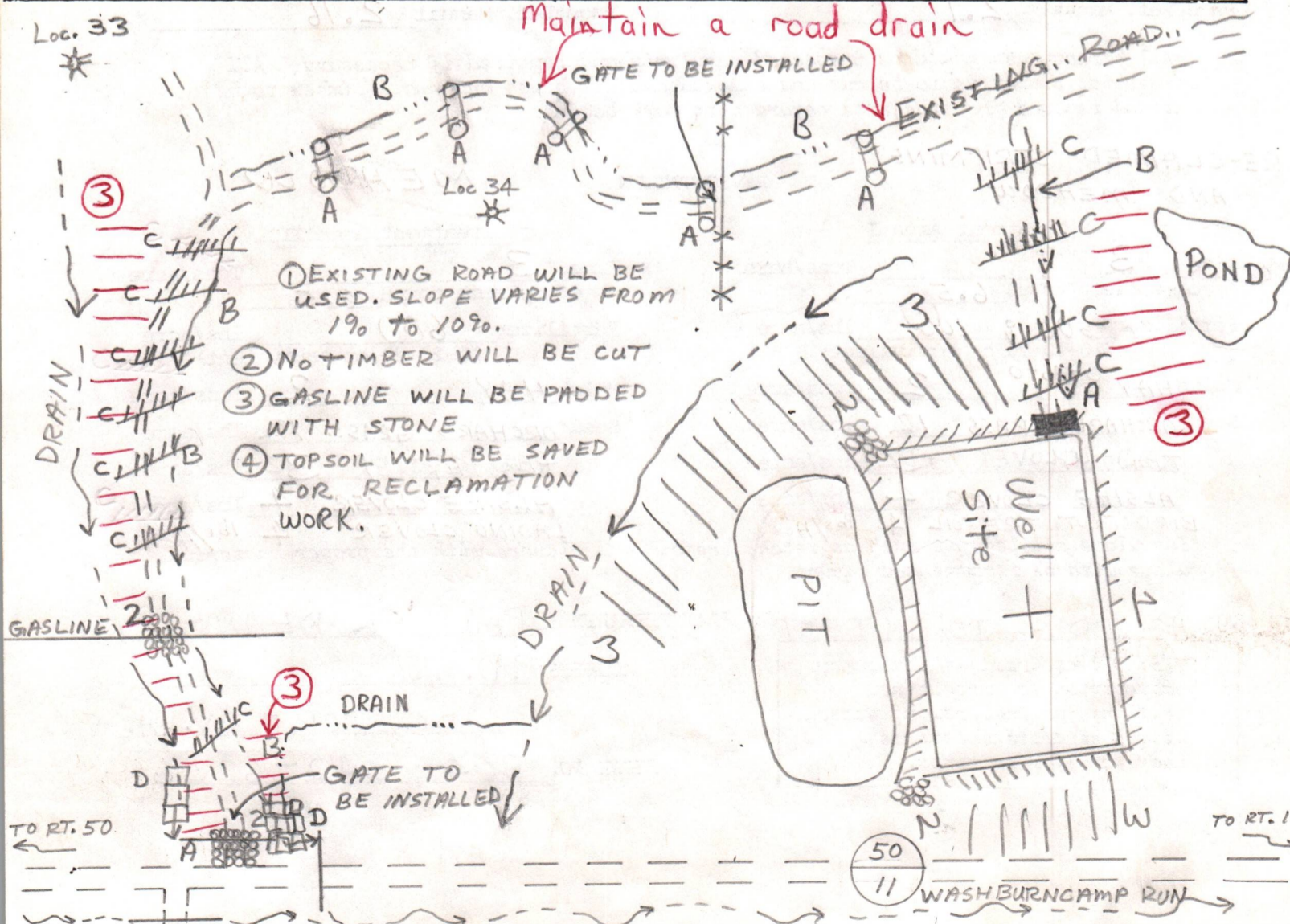


WELL SITE PLAN

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 < = = = = >





IV-9
(Rev 8-81)

DATE MARCH 14, 1984
WELL NO. 39
API NO. 47 - 033 - 3018

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
Address P.O. 26 BRIDGEPORT W.VA.
Telephone 304-842-6256

DESIGNATED AGENT MIKE EDWARDS
Address P.O. 26 BRIDGEPORT W.VA.
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 (D)
MATL: HAY BALES
PG. 2.16
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.

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

Structure RIP-RAP APR 4 - 1984 (2)
Material STONE OIL & GAS DIVISION
Page Ref. Manual 2. 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

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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 AND MEADOW

REVEGETATION

MEADOW

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 0-45-0 2 Tons/acre
Seed * ORCHARD GRASS 10 lbs/acre
RED CLOVER 12 lbs/acre
ALSIKE CLOVER 4 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 10 lbs/acre
RED CLOVER 12 lbs/acre
ALSIKE CLOVER 4 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.VA.
PHONE NO. 304-842-6256

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

Perforated Benson with 13 shots (4413'-18'). Performed gelled H2O frac job with N2 assist using 15,000# of 80/100 sand, 44,000# 20/40 sand and 57,000 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 to GL			0	10	1" stream H2O @ 37'; coal @ 138'
sand, shale, redrock			10	1387	1 3/4" stream H2O @ 190'
big lime			1387	1437	
keener			1437	1463	
big injun			1463	1542	
sand, shale			1542	1922	
50 foot			1922	1960	
sand, shale			1960	1973	
30 foot			1973	2009	
sand, shale			2009	2022	
gordon			2022	2043	
sand, shale			2043	2188	gas @ 2046'; no show
4th sand			2188	2212	
sand, shale			2212	2226	
5th sand			2226	2256	
sand, shale			2256	2282	
lower 5th			2282	2297	
sand, shale			2297	2350	gas @ 2329'; 2/10=1" w/H2O
bayard			2350	2384	
sand, shale			2384	2938	gas @ 2423'; 108/10=1" w/H2O
speechley			2938	3072	gas @ 2922'; 20/10=1" w/H2O
sand, shale			3072	3191	
balltown			3191	3406	gas @ 3327'; 40/10=1" w/H2O
sand, shale			3406	3702	
bradford			3702	3842	
sand, shale			3842	4215	gas @ 4192'; 20/10=1" w/H2O
riley			4215	4322	
sand, shale			4322	4408	
benson			4408	4446	
sand, shale			4446	4562	logger TD
				4565	driller TD
					gas @ 4471'; 60/10=1" w/H2O
					gas after drill collars; 50/10=1" w/H2O

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION

Well Operator

By:

Date:

[Signature]
3/15/85

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

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MAR 18 1985



IV-35
(Rev 8-81)

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date 3/4/85
Operator's #39
Well No. _____
Farm Nathan Goff
API No. 47 - 033 - 3018

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: 1133' 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
ADDRESS Laura Goff Davis
PO Box 707, Clarksburg, WV 26301
MINERAL RIGHTS OWNER same as surface
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Stephen
Casey ADDRESS Rt 2, Box 232-D
Jane Lew, WV 26378
PERMIT ISSUED April 17, 1984
DRILLING COMMENCED 2/15/85
DRILLING COMPLETED 2/19/85
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.	30'	30'	cement to surface
13-10"			
9 5/8			
8 5/8	958'	958'	230 sks
7			
5 1/2			
4 1/2	4502'	4502'	500 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 5000 feet
Depth of completed well 4565' feet Rotary xx / Cable Tools _____
Water strata depth: Fresh 37; 190' feet; Salt n/a feet
Coal seam depths: 138' Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4413-18 feet
Gas: Initial open flow not taken Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 875 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1720 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

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

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FEB 25 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 33-3018

Oil or Gas Well _____
(KIND)

Company Petroleum Devel. Co.
 Address _____
 Farm Off Cather
 Well No. 39
 District Clark County Har.
 Drilling commenced 2-15-85
 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 37 feet 190 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 8 5/8 SIZE 957' 2305KSI No. FT. _____ Date _____
 NAME OF SERVICE COMPANY B. J. Hughes
 COAL WAS ENCOUNTERED AT 138 FEET 24 INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names API 6

Remarks:

2-19-85
DATE

Steve Casey
DISTRICT WELL INSPECTOR

Form 26
2/16/82

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner		Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

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

DISTRICT WELL INSPECTOR

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

RECEIVED
FEB 25 1985

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 33-3018

Oil or Gas Well _____
(KIND)

Company Petroleum Development Co.

Address _____

Farm Jeff Cather

Well No. 39

District Clark County Harco

Drilling commenced 2-15-85

Drilling completed 2-20-85 Total depth 4565

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 1/2			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 C/DI 6

Remarks: 4 1/2 4502' 500 SKS. BJA

2-20-85
DATE

Steve Casady
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: _____

DATE

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

DISTRICT WELL INSPECTOR

IV-20
Obverse
1-84

26-Mar-85

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

RECEIVED
JUL 16 1985
OIL & GAS DIVISION
DEPT. OF MINES

Company: PETROLEUM DEVE CORP
Farm: GOFF, NATHAN, ESTATE Well: GOFF 39

Permit No. 47- 33-3018 (4-17-84)
County: HARRISON

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

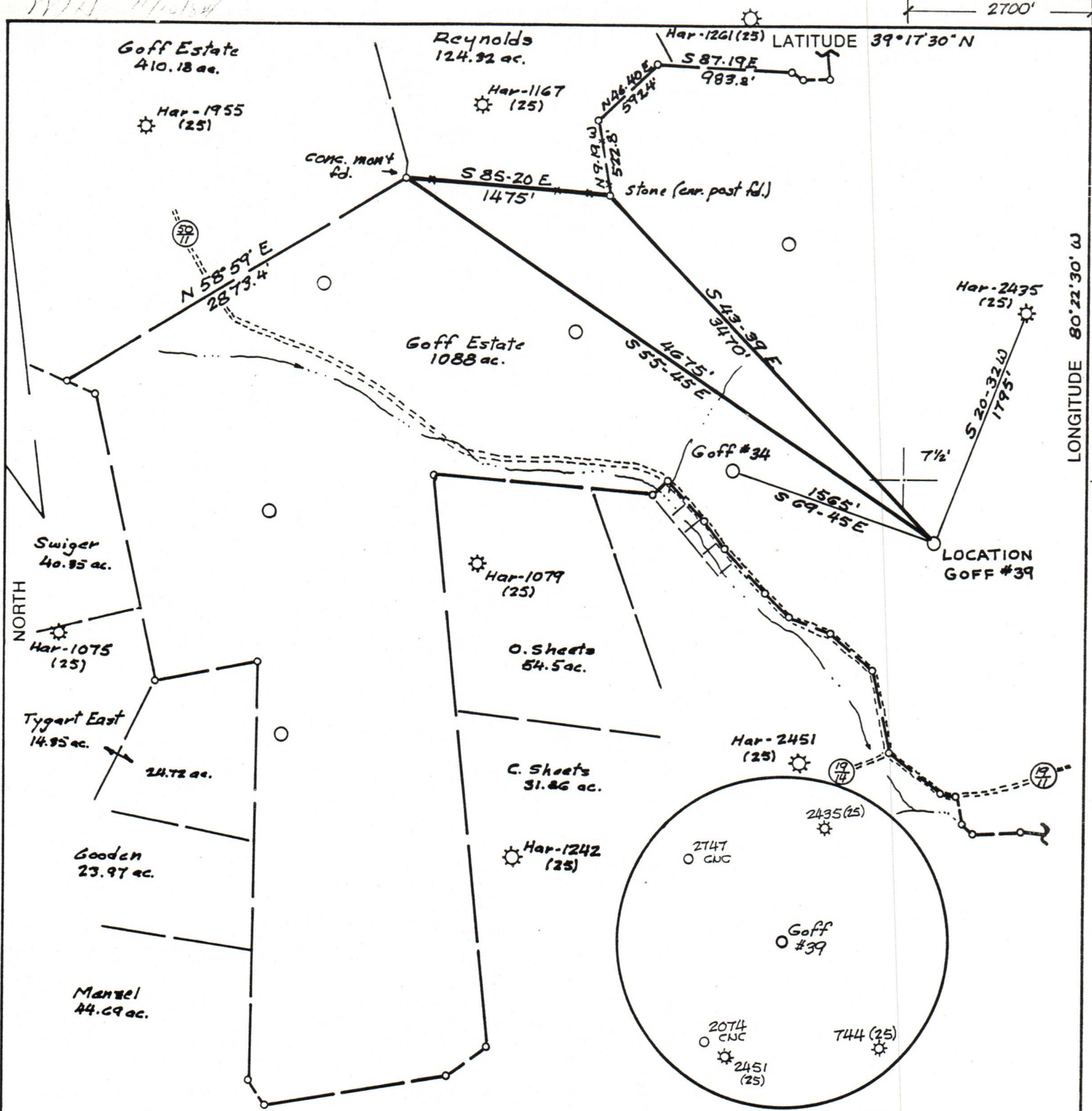
I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Steve Casey
DATE 7-15-85

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

T. H. ...
Administrator

August 1, 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 elev. @ top of knob at 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) Chomal Rain
 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 #39
 API WELL NO. 47-033-3018

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

LOCATION: ELEVATION 1133 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 77° 06' 22" 08

COUNTY NAME

PERMIT