



1) Date: March 13, 19 84
 2) Operator's Well No. #32
 3) API Well No. 47 - 033 - 3017
 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: 1265 Watershed: West Fork River
 District: Clark County: Harrison Quadrangle: Clarksburg, WV 7 1/2
- 6) WELL OPERATOR Petroleum Development Corp. 7) DESIGNATED AGENT Michael L. Edwards
 Address P. O. Box 26, 103 East Main St. Address P. O. Box 26, 103 East Main St.
Bridgeport, WV 26330 Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Stephen Casey Name _____
 Address Rt. 2, Box 232-D Address _____
Jane Lew, WV 26378
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate /
 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Benson
- 12) Estimated depth of completed well, 5000 feet
- 13) Approximate strata depths: Fresh, 65;965 feet; salt, 1030 feet.
- 14) Approximate coal seam depths: 280;800 Is coal being mined in the area? Yes / No /

RECEIVED
 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	11-3/4	H-40	42	X		30'	30'	Cement to surface	
Fresh water									
Coal									Sizes
Intermediate	8-5/8	J-55	20/23	X		950'	950'	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 47-033-3017

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>Lo</u>	Plat: <u>MH</u>	Casing: <u>MH</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: _____ County: _____ Township: _____ Elevation: _____

2) WELL OPERATOR: Name: _____ Address: _____

3) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: _____ Address: _____

4) PROPOSED WELL WORK: Plug off old formation _____ Perforate new formation _____

5) GEOLOGICAL TARGET FORMATION: _____

6) ESTIMATED DEPTH OF COMPLETED WELL: _____

7) APPROXIMATE TRAIL DEPTH: _____

8) APPROXIMATE COAL SEAM DEPTH: _____

9) CASING AND TUBING PROGRAM: _____

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APR 17 1985
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DEPT. OF MINES

CASING OR TUBING TYPE	SPECIFICATIONS	FOOTAGE INTERVALS		COST TO SURFACE
		Start in well	End in well	
11-3/4" B-40	42'	30'	30'	Cost to surface
8-5/8" J-55	2012'	350'	350'	Cost to surface
4-1/2" J-55	10.5'	3000'	3000'	Cost 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		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____

Reason: _____

Board	Agent	Print	Charge	File
AMAND	AMAND	AMAND	AMAND	AMAND



1) Date: March 13, 19 84
 2) Operator's Well No. #32
 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: 1265 Watershed: West Fork River
 District: Clark County: Harrison Quadrangle: Clarksburg, WV 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.
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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 _____ /
 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 tratra depths: Fresh, 65,965 feet; salt, 1030 feet.
- 14) Approximate coal seam depths: 280,800 Is coal being mined in the area? Yes _____ / No X /
- 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>20/23</u>	<u>X</u>		<u>950'</u>	<u>950'</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>	Perforations:
Tubing									Top
Liners									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.

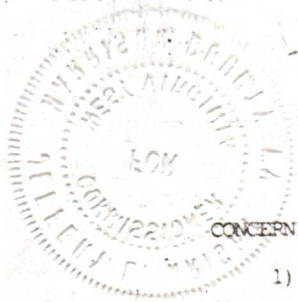
WAIVER

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 Laura Goff Davis
Diane Goff Cather

Its _____



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

CONCERNING THE LINE ITEMS:

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

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

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

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

I N F O R M A T I O N S U P P L I E D U N D E R C O D E § 22-4-11(d)
I N L I E U O F F I L I N G L E A S E (S) A N D O T H E R C O N T I N U I N G C O N T R A C T (S)

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

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

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
OFFICE OF MINES
AND GEOLOGICAL SURVEY
STATE OF OKLAHOMA

8-833-3015

1) Date: March 13, 1984
 2) Operator's Well No. #32
 3) API Well No. 47-033-3017 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
- (1) Name Laura Goff Davis Address P.O. Box 707
- (11) Name Clarkburg, West Virginia 26301
- (11) Name Clarkburg, West Virginia 26301 Address

5(11) COAL OWNER(S) WITH DECLARATION ON RECORD

- Name Diana Goff Cather Address 163 East Main Street
- Name Clarkburg, West Virginia 26301 Address 163 East Main Street
- Name Laura Goff Davis Address P.O. Box 707
- Name Clarkburg, West Virginia 26301 Address Clarkburg, West Virginia 26301

TO THE PERSON(S) NAMED ABOVE: You should have received this form and the following documents:

- (1) The application for a well work permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

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

6) EXTRACTION RIGHTS

Check and provide one of the following:

- 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.)

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 that 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.T. Edwards
 My commission expires 4-7, 1992, 1984

Notar Public, Mountain County, State of West Virginia
Jeffrey J. Nichols
 My commission expires 4-7, 1992, 1984

WELL OPERATOR M. Edwards
 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

APR 4 - 1984

RECEIVED



1) Date: March 13, 19 84
 2) Operator's Well No. #32
 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: 1265 Watershed: Near Fork River
 District: Clark County: Harrison Quadrangle: Clarksburg, WV 74
- 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.
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 Name Stephen Casay Name _____
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Jane Lew, WV 26378
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15) CASING AND TUBING PROGRAM

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Intermediate	<u>8-5/8</u>	<u>J-55</u>	<u>20/23</u>	<u>X</u>		<u>950'</u>	<u>950'</u>	<u>Cement to surface</u>	Depths set
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Tubing									Perforations:
Liners									Top Bottom

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

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)

NAME: _____
 By _____
 Its March 24 1984 Date 84

(For execution by natural persons)

Laura Luff Davis Date: 3/24/84
 (Signature)
Deane Luff 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.

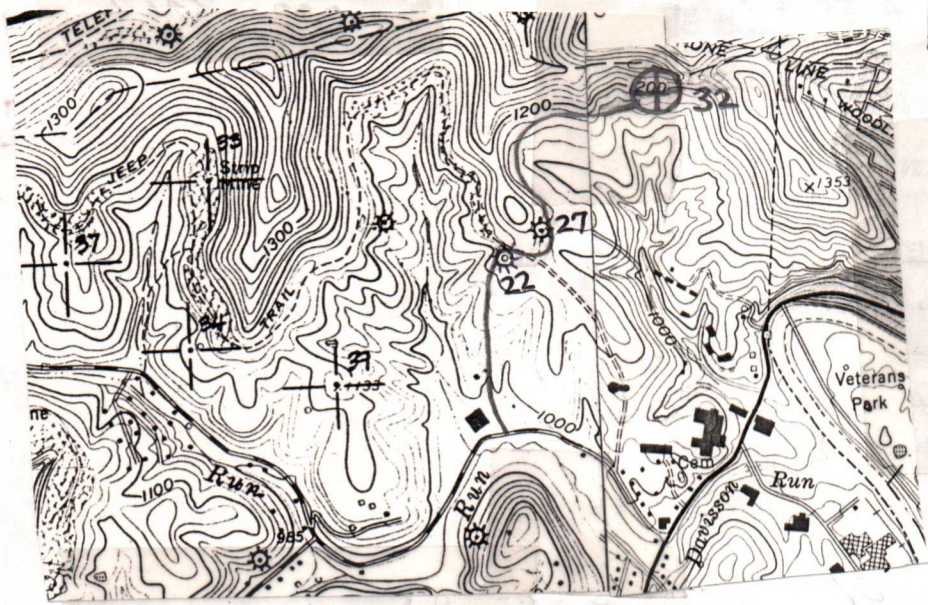
List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

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

LEGEND

Well Site 


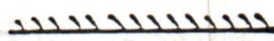


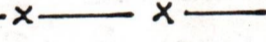



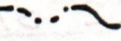

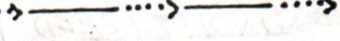

Access Road 

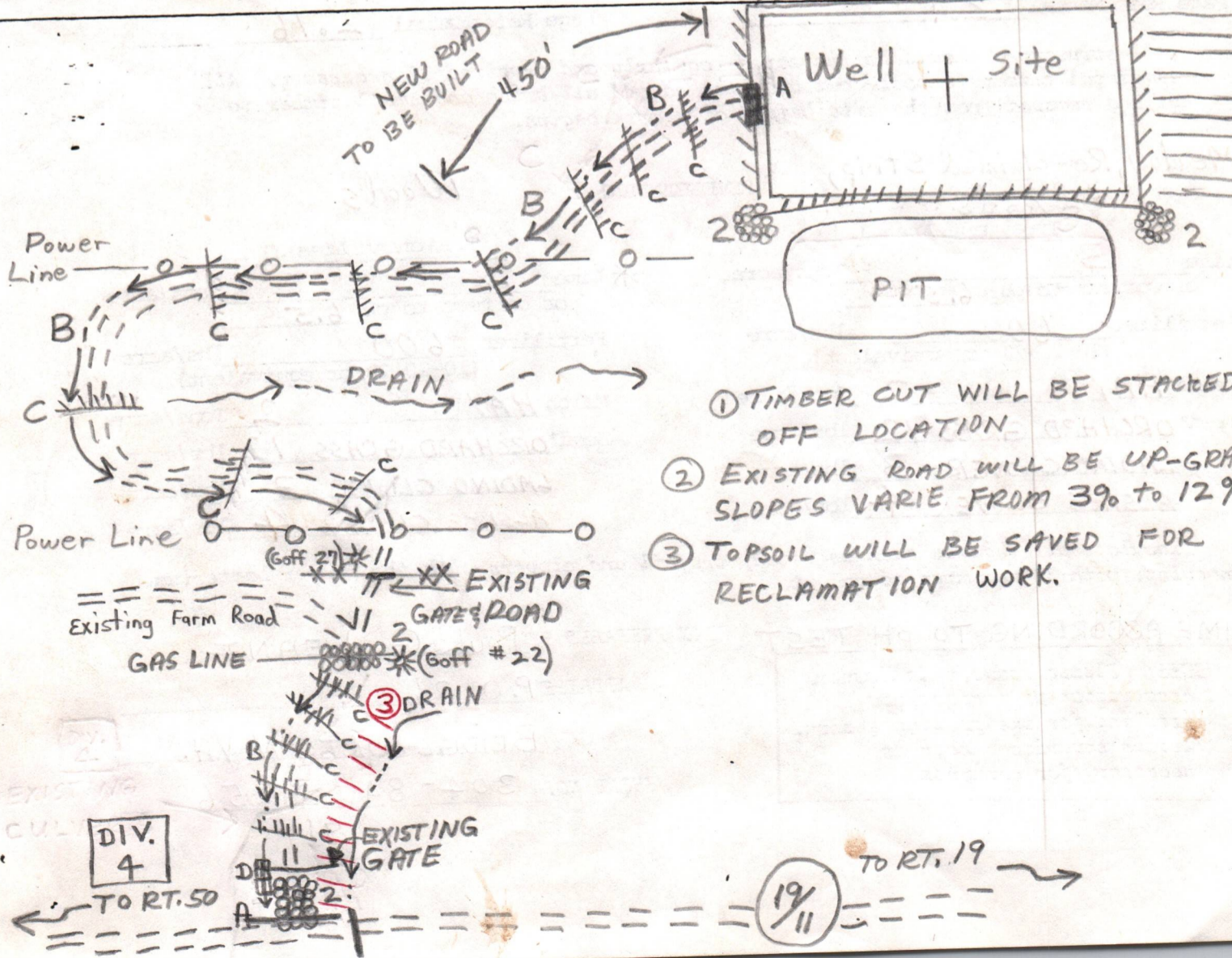


WELL SITE PLAN

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 	Wet spot 
Planned fence 	Building 
Stream 	Drain pipe 
Open ditch 	Waterway 



- ① TIMBER CUT WILL BE STACKED OFF LOCATION
- ② EXISTING ROAD WILL BE UP-GRAD. SLOPES VARIOUS FROM 39% TO 12%
- ③ TOPSOIL WILL BE SAVED FOR RECLAMATION WORK.



DATE MARCH 15, 1984

WELL NO. 32

State of West Virginia API NO. 47 - 033 - 3017

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: 4/2/84 (Date)

Struc: Sediment Barrier
Matl: Hay Bales
PG: 2.16 ACCESS ROAD

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

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 2.12 RECEIVED
APR 4 - 1984

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 NATURAL 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.

Meadow, Re-claimed Strip,
& Woods
Treatment Area I

REVEGETATION

Woods
Treatment Area II

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
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 12 lbs/acre
LADINO CLOVER 3 lbs/acre
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. DEANE 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.

Gelled water Frac
13 perfs (4482-4490)
578 bbl sand laden fluid; 15,000# 80/100; 40,000# 20/40; 75,000 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	1" stream fresh water @ 141'
sand, shale, red rock			10	451	
coal			451	455	
sand, shale			455	555	
coal			555	557	
sand, shale			557	581	
coal			581	584	
sand, shale			584	1483	
big lime			1483	1535	
big injun			1535	1634	
sand, shale			1634	2024	gas check @ 1665' - no show
50 foot sand			2024	2046	
sand, shale			2046	2081	gas check @ 2071' - no show
30 foot sand			2081	2100	
sand, shale			2100	2125	
gordon stray/gordon			2125	2146	
sand, shale			2146	2327	
4th sand			2327	2361	
shale			2361	2390	gas check @ 2381' - 8/10-2"w/H2O
5th sand			2390	2404	
shale			2404	2457	
bayard			2457	2497	
sand, shale			2497	3068	
speechly			3068	3180	gas check @ 3097' - 45/10-2"w/H2O
sand, shale			3180	3292	
balltown			3292	3396	
sand, shale			3396	3757	gas check @ 3474' - 22/10-2"w/H2O
bradford			3757	3886	
shale			3886	4026	
riley			4026	4343	gas check @ 4251' - 24/10-2"w/H2O
sand, shale			4343	4493	
benison			4493	4514	gas check @ 4562' - 30/10-2"w/H2O
sand, shale			4514	4625TD	gas check @ TD - 24/10-2"w/H2O
				4635TD	logger

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION

Well Operator

By:

Date:

10/11/84

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 ..., encountered in the drilling of a well."



RECEIVED

IV-35 (Rev 8-81) OCT 15 1984

OIL & GAS DIVISION DEPT. OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date 10/10/84 Operator's Well No. #32 Farm Nathan Goff API No. 47-033-3017

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas_x / Liquid Injection / Waste Disposal / (If "Gas," Production_x / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 1265 Watershed West Fork River District: Clark County Harrison Quadrangle Clarksburg

COMPANY Petroleum Development Corp.

ADDRESS Box 26, Bridgeport, WV 26330

DESIGNATED AGENT Steven R. Williams

ADDRESS P.O. Box 26, Bridgeport, WV 26330

SURFACE OWNER Lana Goff Cather, 163 E. Main St. Laura Goff Davis P.O. Box 707,

ADDRESS Clarksburg, WV

MINERAL RIGHTS OWNER Same as surface

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Stephen Casey Rt. 2, Box 232, Jane Lew, WV 26378

ADDRESS

PERMIT ISSUED April 17, 1984

DRILLING COMMENCED 9/10/84

DRILLING COMPLETED 9/15/84

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

Table with 4 columns: Casing & Tubing Size, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 11 3/4", 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Benson Depth 5000 feet

Depth of completed well 4265 feet Rotary_x / Cable Tools

Water strata depth: Fresh 141 feet; Salt feet

Coal seam depths: 451, 555, 581 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4482-4490 feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow 730 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 1580 psig (surface measurement) after 48 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 3017

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

RECEIVED
SEP 13 1984

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

Permit No. 033-3017

Oil or Gas Well _____
(KIND)

		CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Company <u>Petroleum Development</u>					
Address <u>BRIDGEPORT</u>		Size			
Farm <u>GOFF</u>		16			Kind of Packer
Well No. <u># 32</u>		13			Size of
District _____ County <u>HARRISON</u>		10			
Drilling commenced <u>9-10-84</u>		8 1/4			Depth set
Drilling completed _____ Total depth _____		6 5/8			
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 _____ bbla., 1st 24 hrs.		NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet		COAL WAS ENCOUNTERED AT <u>169</u> FEET _____ INCHES			
Salt water _____ feet _____ feet		_____ FEET _____ INCHES FEET _____ INCHES			
		_____ FEET _____ INCHES FEET _____ INCHES			

Drillers' Names Union DRIG RIG 5

Remarks:

move RIG SPUD
HIT OPEN mine @ 169 FT RUN
RUN 221 FT 1 1/4 CS6.

9-11-84

DATE

Robert Stewart

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



RECEIVED

JUL 16 1985

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

OIL & GAS DIVISION
DEPT. OF MINES

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
November 8, 1984

COMPANY Petroleum Development Corp.

PERMIT NO 033-3017 (4-17-84)

P. O. Box 26

FARM & WELL NO Nathan Goff #32

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:

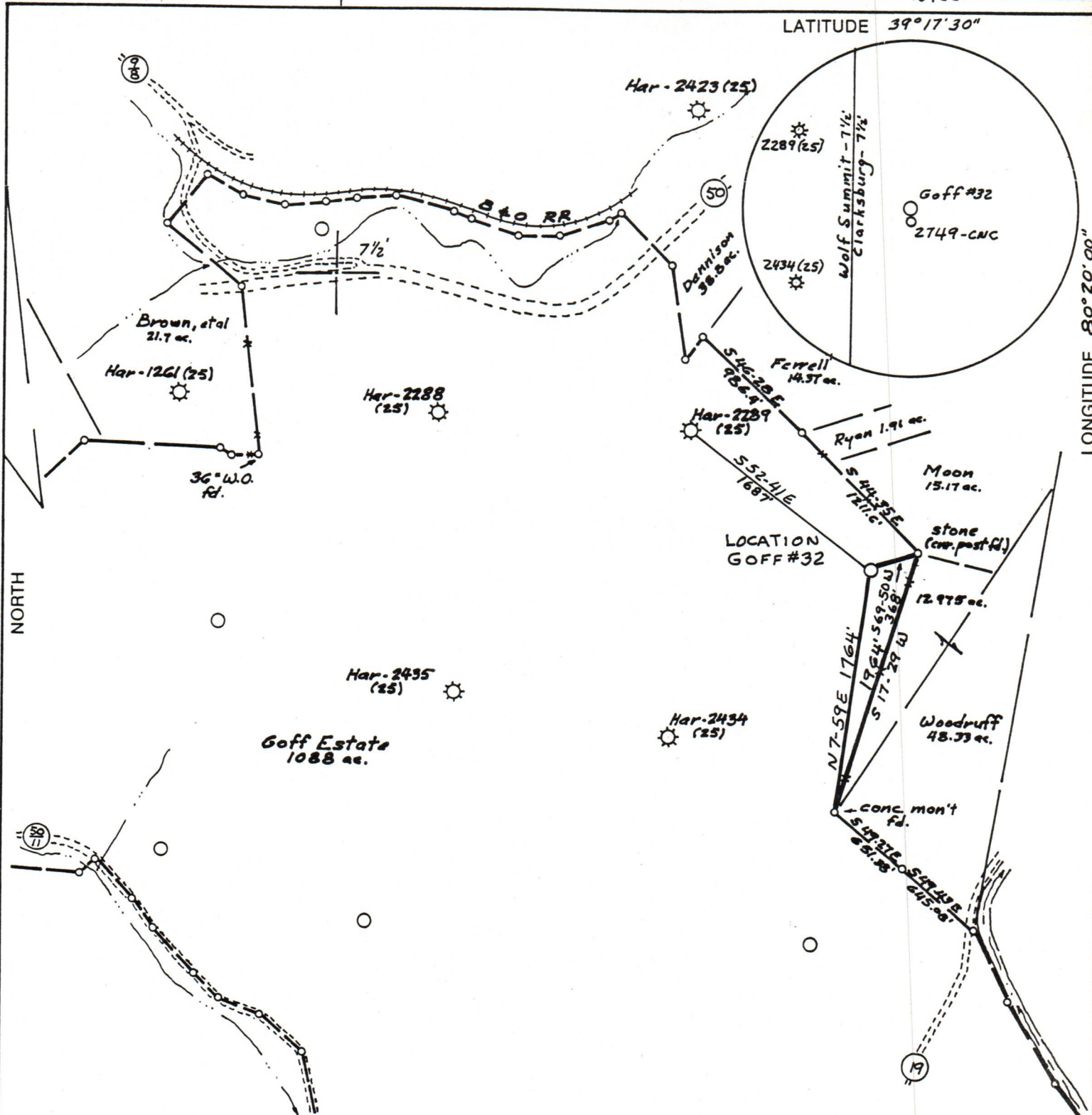
SIGNED Steve Casey

DATE 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. L. ...
Administrator-Oil & Gas Division

August 1, 1985
DATE



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

FILE NO. _____
 DRAWING NO. 2
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Spot elev. @ road jtn. 5650' NW of location; elev. 995

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) Nomal Louie
 R.P.E. _____ L.L.S. 669

THOMAS J. CROWIN
 REGISTERED PROFESSIONAL SURVEYOR
 PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE March 31, 1984
 OPERATOR'S WELL NO. Goff #32
 API WELL NO. 47-033-3017

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

LOCATION: ELEVATION 1180 WATER SHED West Fork River
 DISTRICT Clark COUNTY Harrison
 QUADRANGLE Clarksburg-7 1/2

SURFACE OWNER Nathan Goff III Estate ACREAGE 418.635
 OIL & GAS ROYALTY OWNER Diana Goff Cather & Laum 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

COUNTY NAME
 PERMIT