



1) Date: _____, 19____
 2) Operator's Well No. Ray Harron #3 (revised)
 3) API Well No. 47 -033-3217
 State _____ County _____ Permit _____

RECEIVED
 MAY 30 1985

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

- 4) WELL TYPE: Oil & Gas Division Gas XX /
 B (If "Gas" Production XX / Underground storage _____ / Deep _____ / Shallow XX /)
- 5) LOCATION: Elevation: 1182' Watershed: Ann Moore Run
 District: Simpson 8 County: Harrison Quadrangle: Clarksburg 7 1/2' 297
- 6) WELL OPERATOR: PETROLEUM DEVELOPMENT CORPORATION 7) DESIGNATED AGENT STEVEN R. WILLIAMS
 Address PO BOX 26, 103 EAST MAIN STREET BRIDGEPORT, WV 26330 Address PO BOX 26, 103 EAST MAIN STREET BRIDGEPORT, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 38200 9) DRILLING CONTRACTOR:
 Name STEPHEN CASEY Name _____
 Address RT 2, BOX 232-D JANE LEW, WV 26378 Address _____
- 10) PROPOSED WELL WORK: Drill XX / 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, 143; 300; 840 feet; salt, 1350 feet.
- 14) Approximate coal seam depths: 131; 475 Is coal being mined in the area? Yes _____ / No XX /

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		Kinds	Sizes
Conductor	11 3/4	H-40	42#	X		30				
Fresh water										
Coal										
Intermediate	8 5/8	J-55	20/23#	X		1050	1050	cement to surface (neat cement)		
Production	4 1/2	J-55	10.5#	X		5000	5000		400 sks.	
Tubing										
Liners										
									Perforations:	
									Top	Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-033-3217

Date June 14 19 85

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 June 14, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	✓ Agent:	Plat:	Casing	Fee
<u>116</u>	<u>AIB</u>	<u>MN</u>	<u>MH</u>	<u>837757</u>

Margaret J. Hesse
 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) WELL LOCATION: [Blank]
 2) WELL OPERATOR: [Blank]
 3) QU & GAS INSPECTOR TO BE NOTIFIED: [Blank]
 4) PROPOSED WELL WORK: [Blank]
 5) APPROXIMATE DEPTH OF PROPOSED WELL: [Blank]
 6) APPROXIMATE NEARBY DEPTHS: [Blank]
 7) APPROXIMATE COOL SAMPLING DEPTHS: [Blank]
 8) CASING AND LUBING PROGRAM: [Blank]

OFFICE USE ONLY

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

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

OTHER INSPECTIONS

Reason: _____
 Reason: _____



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

- 4) WELL TYPE: A Oil _____ / Gas XX /
 B (If "Gas", Production XX / Underground storage _____ / Deep _____ / Shallow XX /)
- 5) LOCATION: Elevation: 1182' Watershed: Ann Moore Run
 District: Simpson County: Harrison Quadrangle: Clarksburg 7 1/2'
- 6) WELL OPERATOR Petroleum Development Corp. 7) DESIGNATED AGENT Steven R. Williams
 Address P.O. Box 26, 103 E. Main Street Address P.O. Box 26, 103 E. 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, 232 - D Address _____
Jane Lew, WV 26378
- 10) PROPOSED WELL WORK: Drill XX / 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
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- 14) Approximate coal seam depths: 131; 475 Is coal being mined in the area? Yes _____ / No _____

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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			Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	J-55	20/23	X		1050	1050	cement to surface (neat cemen	
Production	4 1/2	J-55	10.5#	X		5000	5000	400 sks	Depths set
Tubing									
Liners									Perforations:
									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.)

(For execution by natural persons)

NAME: _____
 By _____
 Its _____ Date _____

Ray H. Harron
 (Signature) Date: 6-14-85

 (Signature) Date: _____

**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.



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 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 XX /
 B (If "Gas", Production XX / Underground storage _____ / Deep _____ / Shallow XX /)
- 5) LOCATION: Elevation: 1182' Watershed: Ann Moore Run
 District: Simpson County: Harrison Quadrangle: Clarksburg 7½'
- 6) WELL OPERATOR Petroleum Development Corp. 7) DESIGNATED AGENT: Steven R. Williams
 Address P.O. Box 26, 103 E. Main Street Address P.O. Box 26, 103 E. Main St.
Bridgeport, WV 26330 Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Stephen Casey
 Address Rt. 2, 232 - D
Jane Lew, WV 26378
- 9) DRILLING CONTRACTOR:
 Name _____
 Address _____
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper _____ / Redrill _____ / Stimulate _____
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	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	113/4	H-40	42#	X		30			Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	J-55	20/23	X		1050	1050	cement to surface (neat cement)	
Production	4½	J-55	10.5#	X		5000	5000		400 sks
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.

Ray A. Harron
 By _____
 Its _____

Date: 6-14-85, 19____

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>
Ray A & Carolyn Harron	Petroleum Development Corp.	.125	1143/387

- 1) Date: _____
- 2) Operator's Well No. _____
- 3) API Well No. 47-033-3217

State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

SURFACE OWNER(S) OF RECORD TO BE SERVED

5 (1) COAL OPERATOR

(1) Name Ray A. Harron
 Address P.O. Box 400
Bridgeport, West Virginia 26330

5 (1) COAL OWNER(S) WITH DECLARATION ON RECORD
 Name Ray A. Harron
 Address P.O. Box 400
Bridgeport, West Virginia 26330

(1) Name _____
 Address _____

(1) Name _____
 Address _____

5 (1) COAL LESSEE WITH DECLARATION ON RECORD:
 Name _____
 Address _____

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 connecting program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SET FORTH 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 underground well operator proposes to file or has filed this notice and application and accompanying documents for a well 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.

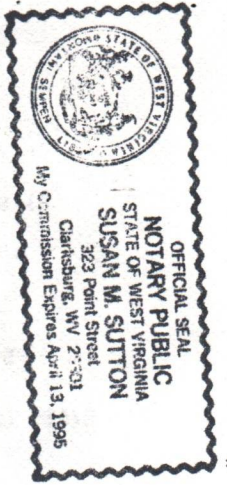
- 6) RESTRICTIONS:
 - Included in the lease or lease or other continuing contract or contract by which I hold the right to extract oil or gas.
 - The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

- 7) ROYALTY PROVISIONS:
 - In 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 cooperation 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 Addendum 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 Steve Williams



OIL & GAS DIVISION
DEPT. OF MINES

MAY 30 1985

RECEIVED

WELL OPERATOR
Petroleum Development Corporation
 By St. R. W. Its President
 Address P.O. Box 26
Bridgeport, W.V. 26330
 Telephone 304/842-6256

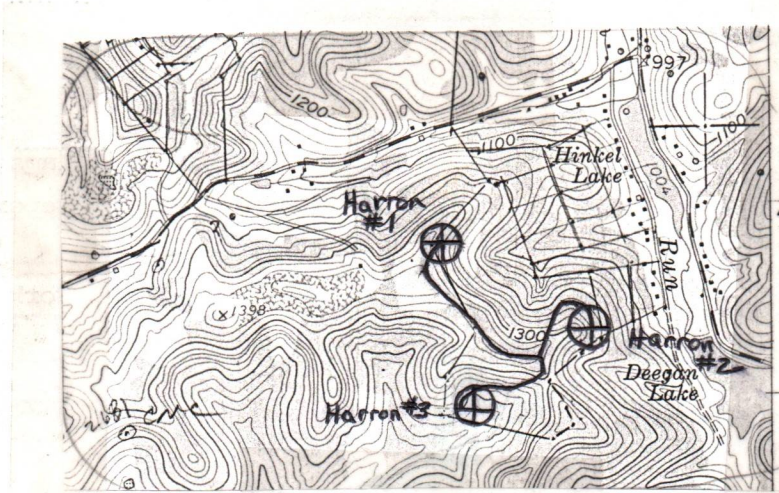
This day of _____, 19____
 My commission expires _____, 19____

ATTACH OR PHOTOCOOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Clarksburg 7 1/2'

LEGEND

Well Site

Access Road



WELL SITE PLAN

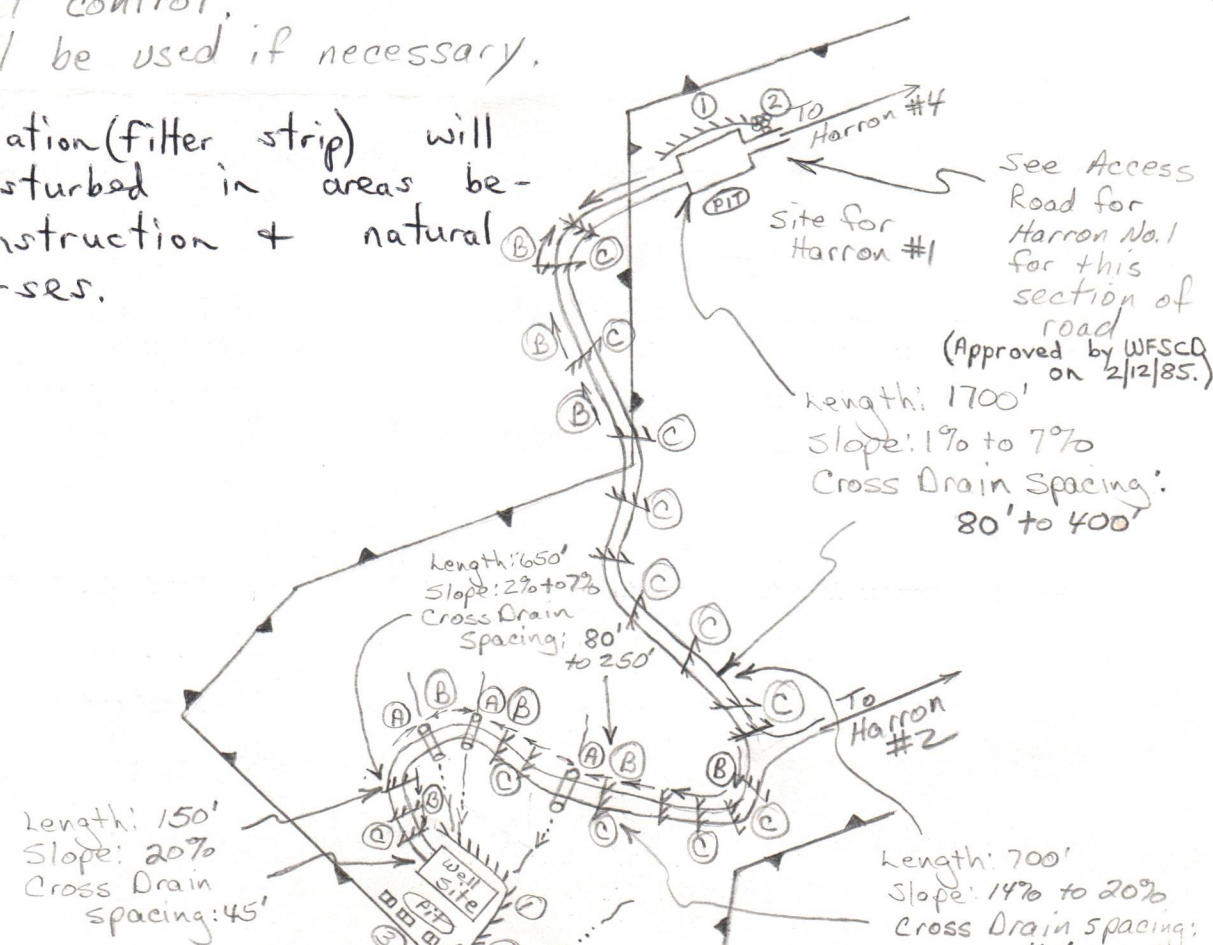
Sketch to include well location, existing access road, roads to be constructed, well site, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

Property boundary	Diversion
Road	Spring
Existing fence	Wet spot
Planned fence	Building
Stream	Drain pipe
Open ditch	Waterway

- ① Topsoil will be saved for reclamation work.
- ② Timber will be cut and stacked for easy access.
- ③ Staked hay bales will be placed in ditch line for sediment control.
- ④ Pit liner will be used if necessary.

⑤ Natural vegetation (filter strip) will remain undisturbed in areas between construction & natural water courses.





DATE May 16, 1985
WELL NO. Harron No. 3 (Revised)
API NO. 47-033-3217
Rev Rec Plan

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

Rec'd. (WFSO)
May 17, 1985

DESIGNATED AGENT Steven Williams
Address P.O. Box 26, Bridgeport, WV 26330
Telephone 842-6256
LANDOWNER Ray A. Harron
Telephone 842-6256
Revegetation to be carried out by
Seeding Contractor (Agent)

This plan has been reviewed by West Fork
SD. All corrections
and additions become a part of this plan:
5/28/85 (Date)
J. E. [Signature] (SCD Agent) MAY 30 1985

LOCATION (Oil & Gas Division)
DEPT. OF MINES

Structure Culvert with rip-rapped outlets (A)
Spacing Gas Manual; at natural drains
Page Ref. Manual 2.7
Structure Drainage ditch (B)
Spacing Inside road cuts
Page Ref. Manual 2.12

Structure Cross Drains with rip-rapped outlets
Spacing as noted on back section of this plan
Page Ref. Manual 2.1

Structure Sediment barrier (3)
Material Staked hay bales
Page Ref. Manual 2.16

Structure Rip - rap (2)
Material earth
Page Ref. Manual 2.12

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.

REVEGETATION

Woods
Treatment Area I
** Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
2 Tons/acre
Mulch Hay 2 Tons/acre
Seed* Orchard grass 12 lbs/acre
Landing clover 3 lbs/acre

Woods
Treatment Area II
** Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
2 Tons/acre
Mulch Hay 2 Tons/acre
Seed* Orchard grass 12 lbs/acre
Landing clover 3 lbs/acre

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

** Lime according to pH test

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

PLAN PREPARED BY David L. Jackson

ADDRESS P.O. Box 969

Buckhannon, WV 26201

PHONE NO. 472-9369

Petroleum Development Corp. PO Box 46
PS Form 3800, Feb. 1982 * U.S.G.P.O. 1983-403-517

WV 26330
P 682 692 299
M. Gray

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Ray A. Harron	
Street and No. PO Box 400	
P.O., State and ZIP Code Bridgeport, WV 26330	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date MAY 28 1985 BRIDGEPORT, WV	

RECEIVED
MAY 30 1985

RECEIVED

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
Perforated Benson with 12 shots (4427'-45'). Stimulated the zone using 15,000# of 80/100 sand, 50,000# of 20/40 sand and 70,000 SCF of N₂.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
KB - GL			0	10	
sand, shale, RR			10	1262	hole damp @ 44'
Little Lime			1262	1278	1 1/2" stream H2O @ 58'
sand, shale			1278	1321	3/4" stream H2O @ 156'
Big Lime			1321	1387	total H2O @ 165' 2 1/4" stream
Big Injun			1387	1479	coal @ 264,799, and 810
sand, shale			1479	1819	gas check @ 1554' slight odor
50 ft			1819	1883	gas check @ 1800' no show
sand, shale			1883	1893	
30 ft			1893	1936	
sand, shale			1936	1978	
Gordon Stray			1978	1990	
sand, shale			1990	1998	
Gordon			1998	2013	
sand, shale			2013	2070	
3rd			2070	2100	gas check @ 2076' 5/10 - 1" H2O
sand, shale			2100	2144	
4th			2144	2176	
sand, shale			2176	2205	
4th A			2205	2239	gas check @ 2230' 7/10 - 1" H2O
sand, shale			2239	2342	
5th			2342	2380	
sand, shale			2380	2958	gas check @ 2413' 12/10 - 1" H2O
Upper Speechley			2958	2965	gas check @ 2724' 4/10 - 1" H2O
sand, shale			2965	3044	gas check @ 3037' 4/10 - 1" H2O
Speechley			3044	3054	
sand, shale			3054	3178	
Balltown			3178	3254	gas check @ 3254' 8/10 - 1" H2O
sand, shale			3254	3566	
Bradford			3566	3643	
sand, shale			3643	4162	gas check @ 4023' 6/10 - 1" H2O
Riley			4162	4298	gas check @ 4205' 6/10 - 1" H2O
sand, shale			4298	4421	gas check @ 4360' 4/10 - 1" H2O
Benson			4421	4448	
sand, shale			4448	4496	gas check @ 4482' 8/10 - 2" H2O
sand, shale			4496	4603	Driller TD 16/10 - 2" H2O Logger TD

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION
Well Operator

By: *[Signature]*
Date: 7/18/85

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

RECEIVED

JUL 22 1985



IV-35 (Rev 8-81)

OIL & GAS DIVISION DEPT. OF MINES State of West Virginia Department of Mines Oil and Gas Division

Date 7/10/85 Operator's Well No. #3 Farm Ray Harron API No. 47-033-3217

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

WELL TYPE: Oil / Gasxx / Liquid Injection / Waste Disposal / (If "Gas," Productionxx / Underground Storage / Deep / Shallowxx /)

LOCATION: Elevation: 1182' Watershed Ann Moore Run District: Simpson County Harrison Quadrangle Clarksburg 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 RAY A. HARRON ADDRESS PO BOX 400, BRIDGEPORT, WV 26330 MINERAL RIGHTS OWNER RAY A. HARRON ADDRESS PO BOX 400, BRIDGEPORT, WV 26330 OIL AND GAS INSPECTOR FOR THIS WORK STEPHEN CASEY RT 2, BOX 232-D ADDRESS JANE LEW, WV 26378 PERMIT ISSUED JUNE 14, 1985 DRILLING COMMENCED JUNE 22, 1985 DRILLING COMPLETED JUNE 27, 1985 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cond., 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 4600 feet Rotary xx / Cable Tools Water strata depth: Fresh 58;156;165 feet; Salt n/a feet Coal seam depths: 264;799;810 Is coal being mined in the area? no

OPEN FLOW DATA Producing formation BENSON Pay zone depth feet Gas: Initial open flow not taken Mcf/d Oil: Initial open flow Bbl/d Final open flow 1185 Mcf/d Oil: Final open flow Bbl/d Time of open flow between initial and final tests 4 hours Static rock pressure 2000 psig (surface measurement) after 72 hours shut in (If applicable due to multiple completion--)

Second producing formation Pay zone depth 4427-45 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 3217

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

RECEIVED
JUN 27 1985

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

Permit No. 33-3217

Oil or Gas Well _____
(KIND)

Company <u>Petroleum Dev. Co.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>R. Harrow</u>	16			Kind of Packer _____
Well No. <u>3</u>	13			
District <u>Simpson</u> County <u>Harr.</u>	10			Size of _____
Drilling commenced <u>6-22-85</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>44 58 156 165</u> feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet	COAL WAS ENCOUNTERED AT <u>264</u> FEET <u>60</u> INCHES			
	<u>799</u> FEET <u>72</u> INCHES <u>810</u> FEET <u>60</u> INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names UDI 11

Remarks: 8 5/8 1044' 2105K3. BJH.

6-24-85
DATE

Steve Casey
DISTRICT WELL INSPECTOR

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

RECEIVED
DISTRICT

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

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

Drillers' Names _____

Remarks: _____

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

DISTRICT WELL INSPECTOR



State of West Virginia

Department of Energy

Oil and Gas Division

Charleston 25311

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
August 2, 1985

COMPANY Petroleum Development Corp.
P. O. Box 26
Bridgeport, West Virginia 26330

PERMIT NO 033-3217 (6-14-85)
FARM & WELL NO Ray Harron #3
DIST. & COUNTY Simpson/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 Strength	<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. ...
Director, Division of Oil & Gas
September 9, 1985
DATE

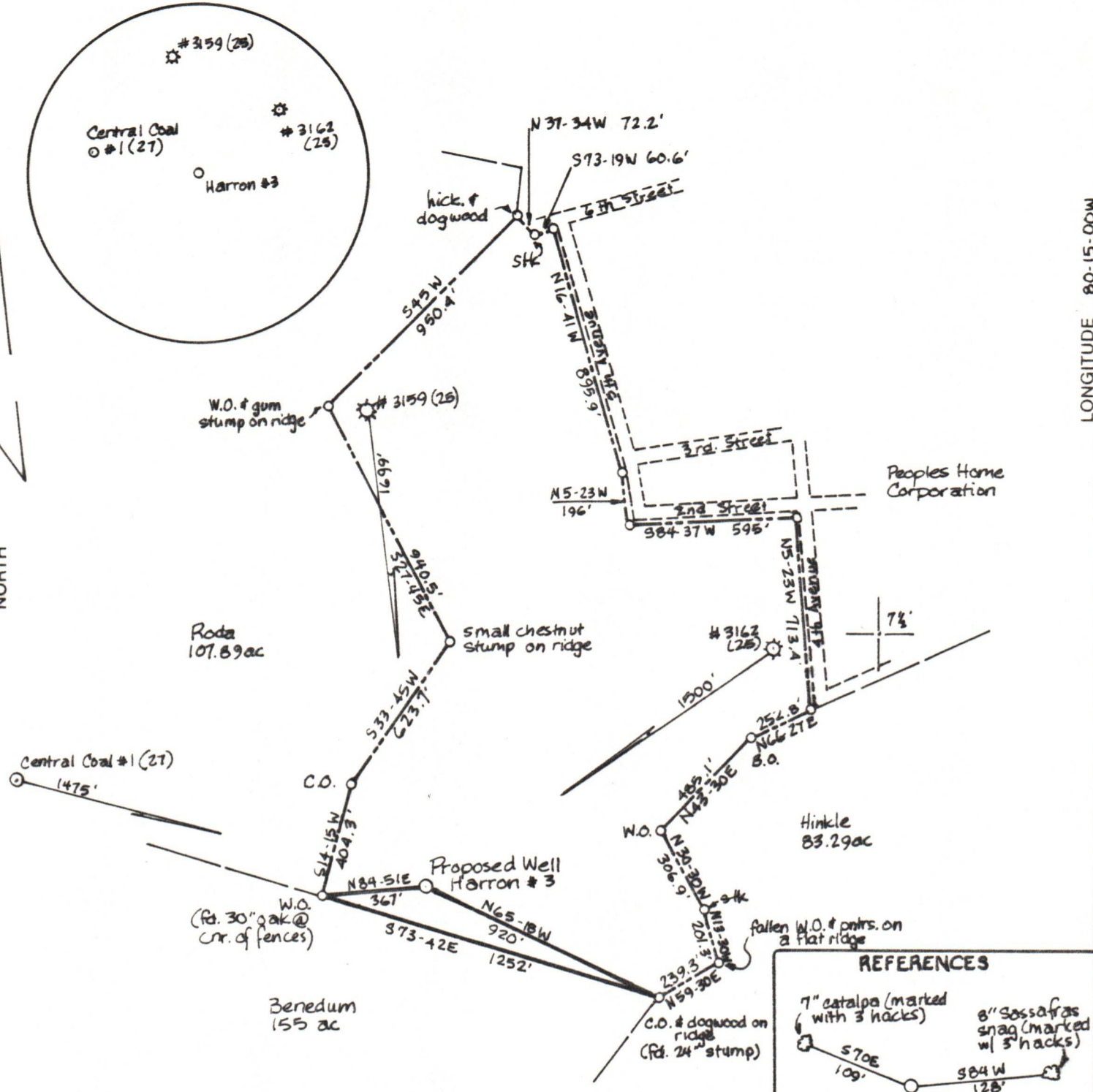
MU 6 3-85

LATITUDE 39-17-30 N

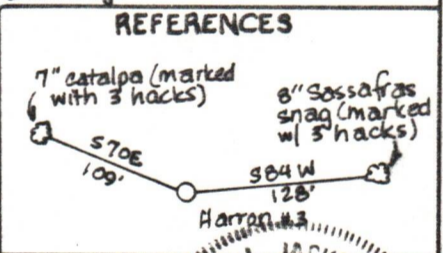
3125'

LONGITUDE 80-15-08 9325'

NORTH

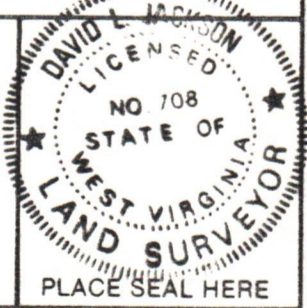


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS



FILE NO. _____
 DRAWING NO. 2
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION BM 4000' NE of location, elev. 997

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) David L. Jackson
 R.P.E. _____ I.L.S. 708



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE January 25, 1985
 OPERATOR'S WELL NO. Harron #3 revised
 API WELL NO.

47 - 033 - 3217
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1182' WATERSHED Ann Moore Run
 DISTRICT Simpson COUNTY Harrison
 QUADRANGLE Clarksburg 7 1/2'

SURFACE OWNER Ray A. Harron ACREAGE 60
 OIL & GAS ROYALTY OWNER Ray A. Harron LEASE ACREAGE 60
 LEASE NO. 37900

PROPOSED WORK: DRILL X 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 Steven Williams
 ADDRESS P.O. Box 26; Bridgeport, WV 26330 ADDRESS P.O. Box 26; Bridgeport, WV 26330

FORM IV-6 (8-78) H.T. HALL

COUNTY NAME PERMIT