

FILE COPY
RECEIVED
MAY - 1 1985



1) Date: _____, 19____
2) Operator's Claude J. Ryan #1
Well No. _____
3) API Well No. 47 -033-3209
State County Permit

OIL & GAS DIVISION STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
DEPT. OF MINES
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: 1179' Watershed: PEDDLER RUN
District: SIMPSON County: HARRISON Quadrangle: ROSEMONT 7 1/2' 5-87
- 6) WELL OPERATOR: PETROLEUM DEVELOPMENT CORPORATION 7) DESIGNATED AGENT STEVEN R. WILLIAMS
Address PO BOX 26, 103 EAST MAIN STREET Address PO BOX 26, 103 EAST MAIN STREET
BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name STEPHEN CASEY
Address RT 2, BOX 232-D
JANE LEW, WV 26378
- 9) DRILLING CONTRACTOR: Name _____ Address _____
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper _____ / Redrill _____ / Stimulate X /
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, 40; 244 feet; salt, 1414 feet.
- 14) Approximate coal seam depths: 512 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			
Conductor	1 3/4	H-40	42#	x		30'			Kinds	
Fresh water										
Coal									Sizes	
Intermediate	8 5/8	J-55	20#	x		1050'	1050'	cement to surface	(neat cement)	
Production	4 1/2	J-55	10.5#	x		5000'	5000'	400 sks	Depths set	
Tubing									Perforations:	
Liners									Top Bottom	

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-033-3209

May 21 1985
Date

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 May 21, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>116</u>	Agent: <u>MH</u>	Plat: <u>MH</u>	Casing <u>MH</u>	Fee <u>837-239</u>
------------------	------------------	-----------------	------------------	--------------------

Margaret J. Hasse
Administrator, Office of Oil and Gas

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

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File
12/29/2023



RECEIVED
MAY 21 1987

DEPT. OF MINES, OIL & GAS DIVISION
STATE OF WEST VIRGINIA

OFFICE USE ONLY

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

1) LOCATION: Elevation 1175, Well No. 8, Harrison, Boone County, West Virginia

2) WELL OPERATOR: PETROLEUM DEVELOPMENT CORPORATION, 50 BOX 26, 103 EAST MAIN STREET, BRIDGEPORT, WV 26330

3) OIL & GAS INSPECTOR TO BE NOTIFIED: STEPHEN GASEY, RT. 2, BOX 232-D, JAMELW, WV 26376

4) DRILLING CONTRACTOR: [Name and Address]

5) PROPOSED WELL WORK: Perform new formation, Drill old formation, Other physical change in well (specify)

6) GEOLOGICAL TARGET FORMATION: BERSON, 5000'

7) APPROXIMATE DATE DEPTH: 1000', 2000', 3000'

8) APPROXIMATE COST ESTIMATE: \$10,000

9) CASING AND LUBING PROGRAM: [Details]

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: Proposed 2 holes

Reason: Proposed 2 holes

DATE April 9, 1985
 WELL NO. Ryan No. 1
 API NO. 47-033-3209

State of West Virginia
 Department of Mines
 Oil and Gas Division



DEPT. OF MINES CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Petroleum Development Corp.
 Address P.O. Box 26, Bridgeport, WV 26330
 Telephone 842-6256
 LANDOWNER Joseph Garrett
 Telephone 842-6256
 SOIL CONS. DISTRICT West Fork
 Seeding Contractor
 West Fork
 SCD. All corrections
 Date 4/25/85
 (SCD Agent)

LOCATION

- (1) Structure Culvert (accord. to OTC Manual) (at natural drains) Spacing .18" diameter with riprapped outlet Page Ref. Manual 2.7
- (B) Structure Drainage ditch Spacing ~~na~~ Inside road cuts Page Ref. Manual 2.12
- (C) Structure Cross Drains Spacing as noted on back section of plan with riprapped outlet Page Ref. Manual 2.1
- (2) Structure Rip - rap Material stone Page Ref. Manual 2.14
- (3) Structure Sediment Barrier Material Hay bales (staked) 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.

REVEGETATION

Field	Treatment Area I	Treatment Area II
** Lime	3 Tons/acre or correct to pH 6.5	3 Tons/acre or correct to pH 6.5
Fertilizer	600 lbs/acre (10-20-20 or equivalent)	600 lbs/acre (10-20-20 or equivalent)
Mulch Hay	2 Tons/acre	2 Tons/acre
Seed* Orchard grass	12 lbs/acre	12 lbs/acre
Landino clover	3 lbs/acre	3 lbs/acre
Alsike clover	4 lbs/acre	4 lbs/acre
Timothy	3 lbs/acre	3 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 David L. Jackson

ADDRESS P.O. Box 969
 Buckhannon, WV 26201
 PHONE NO. 472-9369

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


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.

12/29/2023

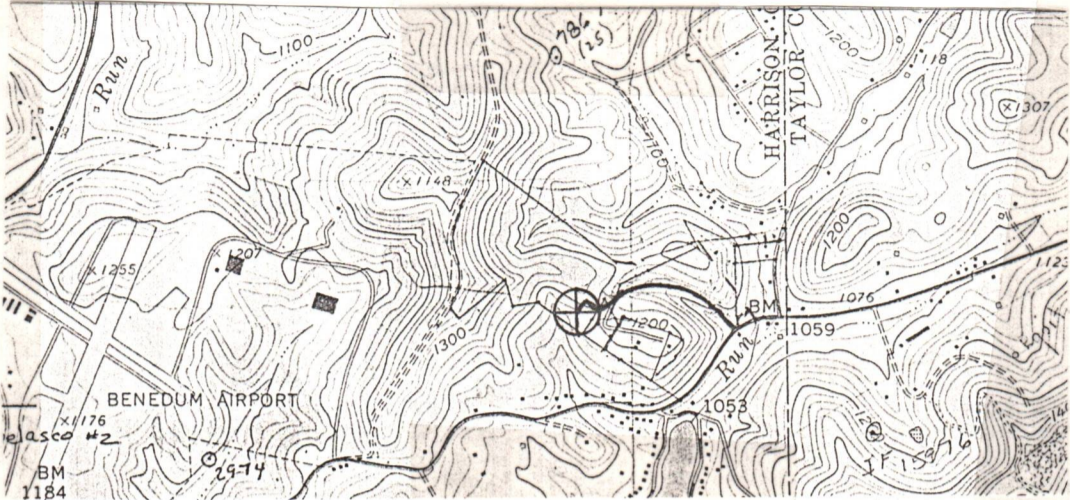
IV-9 (Rev. 8-81)
 RECEIVED
 MAY - 1 1985

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

LEGEND

Well Site 











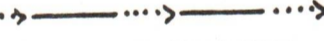
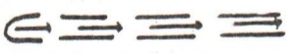
Access Road 



WELL SITE PLAN

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

LEGEND

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

Length: 75'
Slope: 11%
Cross Drain Spacing: 75'

Length: 200'
Slope: 7%
Cross Drain Spacing: 100'

Length: 1490'
Slope: 5% to 9%
Cross Drain Spacing: 80' to 135'

pit liner will be used

Well Site

Exist. gravel road.

pond

existing 12" culvert

5 pipe line

EXISTING GRAVEL ROAD w/ culverts & DRAINS INSTALLED. Will install add. ditches etc. if necessary.

existing 18" culvert

US 50

To Bridgeport

To Grafton

12/29/2023

3) Place staked hay bales in ditch line for sediment control.

2) Operator's Well No. Ryan #1
3) API Well No. 47, 033-3209
State County Permit

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

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

1) SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name Joseph R. & Ruth Garrett
Address Rt. #3, Box 137
Bridgeport, West Virginia 26330

(ii) Name
Address

(iii) Name
Address

5(i) COAL OPERATOR
Address

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Claude J. Ryan and Mary L. Ryan
Address Rt. #3, Box 255
Bridgeport, West Virginia 26330

Name
Address

6) COAL LESSEE WITH DECLARATION ON RECORD:
Name
Address

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

TO THE P (1) U.S.G.P.O. 1983-403-517

Sent to Joseph R. & Ruth Garrett
Street and No. Rt #3, Box 137
P.O. State and ZIP Code Bridgeport, WV 26330

Postage	\$ 56
Certified Fee	75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	70
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	2.01
Postmark or Date	

BRIDGEPORT, W. VA 26330
P.O. BOX 26
PETROLEUM DEVELOPMENT CORP.

THE WHICH ACTION

Ta erator for a W Department and dep Constru by hand before

6) EXTR
Chec
 I
 H
PS Form 3800, Feb. 1982

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

this Form and the following documents:
IV-2(B) (or Form IV-4 if the well is
ved in the drilling or other work,
applicable, the proposed casing and

tion on Form IV-6; and
7-9) unless the well work is only to
on and sediment control and for

HAVE RIGHTS REGARDING THE APPLICATION
SIDE OF THE COPY OF THE APPLICATION
YOU ARE NOT REQUIRED TO TAKE ANY

ia Code, the undersigned well op-
ication and accompanying documents
ce of Oil and Gas, West Virginia
on described on attached Application
e, the Application, the plat, and the
istered or certified mail or delivered
n certain circumstances) on or

contract or contracts by which
(See reverse side for specifics.)



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
Steven A. Williams
this 21 day of April, 1985.
My commission expires August 6, 1992.

Notary Public, Harmon County,
State of West Virginia

WELL OPERATOR Petroleum Development Corporation
By [Signature]
Its President
Address P.O. Box 26,
Bridgeport, West Virginia 26330
Telephone 304/842-6256

OIL & GAS DIVISION
DEPT. OF MINES

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MAY - 1 1985

INSTRUCTIONS TO APPLICANT

CONCERNING THE LINE ITEMS.

- 1) Date of Notice
- 2) Your well name
- 3) To be filled o
- 4) & 5) Use separate s
- 4) Surface owner (see also Code co-owners of in such lands"
- 5(i) "Coal Operator corporation t
- 5(ii, iii) See Code § 22-
- 6) See Code § 22-tinuing. contra provided below.
- 7) See Code § § 2:

P 682 692 210

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse) *M. GRAY*

Sent to *C. J. Ryan & Mary L. Ryan*

Street and No. *Rt 3, Box 255*

P.O. State and ZIP Code *Bridgetown, WV 26330*

Postage *56 2.01*

Certified Fee *75 75*

Special Delivery Fee

Restricted Delivery Fee

Return Receipt Showing to whom and Date Delivered *70 70*

Return receipt showing to whom, Date, and Address of Delivery

TOTAL Postage and Fees *2013 46*

Postmark or Date

BRIDGETOWN, WV

Application. However, common or other section hold interests

nership association or

ase(s) or other com-
mation in the space

CONCERNING THE REQUIRED

Filing. Code § 22-4 copies of the Notice accompanied by (i) a plat the forms prescribed by Code § 22-4-1k(d) 23, (iv) unless prev and 22-3-12a, and (v) owner of any water w

Service. In addition with an interest in t

original and required Administrator, accom- (ii) a bond in one of other security allowed 22-4-12b and Regulation required by Code § 22-4-1a(c) Code § 22-4-8a from the used well.

r(s) and the person(s) 2-4-2a, and 22-4-2b.

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

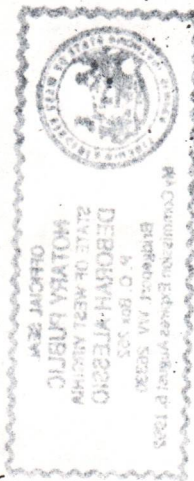
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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

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

Grantor, lessor, etc. Grantee, lessee, etc. Royalty Book Page

Claude J. Ryan & Mary L. Ryan *Petroleum Development* *.125* *1095/716*



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DEPARTMENT OF ENERGY
OIL AND GAS

WR-35



Date _____
Operator's _____
Well No. #1 _____
Farm CLAUDE RYAN _____
API No. 47 - 033 - 3209 _____

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

JAN 24 1986

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: 1179' Watershed PEDDLER RUN
District: SIMPSON County HARRISON Quadrangle ROSEMONT 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 JOSEPH R. & RUTH GARRETT
ADDRESS RT 3, BOX 137, BRIDGEPORT, WV 26330
MINERAL RIGHTS OWNER CLAUDE J. & MARY L. RYAN
ADDRESS RT 3, BOX 255, BRIDGEPORT, WV 26330
OIL AND GAS INSPECTOR FOR THIS WORK STEPHEN
CASEY ADDRESS RT 2, BOX 232-D
JANE LEW, WV 26378
PERMIT ISSUED 05/21/85
DRILLING COMMENCED 12/19/85
DRILLING COMPLETED 12/23/85
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.			
13-10"	30'		
9 5/8			
8 5/8	1042'	1042'	250 sks.
7			
5 1/2			
4 1/2	4241'	4241'	500 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION BENSON Depth 5000 feet
Depth of completed well 4451 feet Rotary xx / Cable Tools _____
Water strata depth: Fresh 56; 925 feet; Salt _____ feet
Coal seam depths: _____ Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation RILEY Pay zone depth 4068-72 feet
Gas: Initial open flow not taken Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 84 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1000 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth 12/29/2023 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)

HARK 2602

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

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

RILES PERFS ACID 80/100 SAND 20/40 SAND NITROGEN SLF-BBL
 4068-72 500 gal. 15,000 lb. 44,000 lb. 71,000 scf 589

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	1169	3 1/2" stream fresh H2O @ 56'
Little Lime			1169	1184	3/4" stream H2O @ 925'
sand, shale			1184	1221	
Big Lime			1221	1282	
sand, shale			1282	1286	
Big Injun			1286	1375	gas check @ 1698 no show
sand, shale			1375	1780	
Gantz			1780	1758	
sand, shale			1758	1762	
50 ft			1762	1802	
sand, shale			1802	1836	
30 ft			1836	1882	
sand, shale			1882	1920	
Gordon			1920	1948	
sand, shale			1948	2016	
3rd			2016	2032	gas check @ 2323 no show
sand, shale			2032	2078	
4th			2078	2119	
sand, shale			2119	2136	
4th-A			2136	2168	
sand, shale			2168	2276	
5th			2276	2314	
sand, shale			2314	2674	gas check @ 2604' 6/10 - 1" H2O
Upper Speechley			2674	2899	
sand, shale			2899	2921	gas check @ 3197' 10/10 - 1" H2O
Speechley			2921	3052	
sand, shale			3052	3109	
Balltown			3109	3426	gas check @ 3507' 10/10 - 1" H2O
sand, shale			3426	3482	
Bradford			3482	3600	
sand, shale			3600	4027	gas check @ 4037' 8/10 - 1" H2O
Riley			4027	4106	gas check @ 4445' 4/10 - 2" H2O
sand, shale			4106	4292	
Benson			4292	4366	gas check @ 4600' 4/10 - 2" H2O
sand, shale			4366	4451	Driller TD 4/10 - 2" H2O
				4476	Logger TD 4/10 - 2" H2O

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION

Well Operator

By:

Date:

[Signature] 12/29/2023

1/22/86

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."

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

JUN 1 1 1986

FINAL INSPECTION REQUEST

INSPECTOR'S COMPLIANCE REPORT

5-21-85

Permit No. 33-3209
Company Petrol. Devel. Co.
Inspector _____
Date _____

County Haw.
Farm C. Ryan
Well No. 1

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	_____	_____
16.01	Required Permits at wellsite	_____	_____
15.03	Adequate Fresh Water Casing	_____	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	_____	_____
15.04	Adequate Cement Strength	_____	_____
23.02	Maintained Access Roads	_____	_____
25.01	Necessary Equipment to prevent Waste	_____	_____
23.03	Reclaimed Drilling Site	_____	_____
23.04	Reclaimed Drilling Pits	_____	_____
23.05	No surface or underground Pollution	_____	_____
7.03	Identification Markings	_____	_____

COMMENTS: _____

I have inspected the above well and (HAVE/HAVE NOT) found it to be in compliance with all of the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia.

SIGNED: Steve Casey
DATE: 6-6-86

12/29/2023

**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)**

1.0 API well number: (If not assigned, leave blank. 14 digits.)	47-033-3209															
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA		<div style="border: 2px solid black; padding: 5px; display: inline-block; transform: rotate(-5deg); font-weight: bold; font-size: 1.2em;">RECEIVED</div> JAN 24 1986 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY													
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4072															
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Petroleum Development Corporation Name P.O. Box 26, 103 East Main Street Street Bridgeport WV 26330 City State Zip Code															
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.) (b) For OCS wells:	UNNAMED Field Name HARRISON WV Country State Area Name Block Number Date of Lease: <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="border: 1px solid black; width: 15px; height: 15px;"></td> <td style="border: 1px solid black; width: 15px; height: 15px;"></td> <td style="border: 1px solid black; width: 15px; height: 15px;"></td> <td style="border: 1px solid black; width: 15px; height: 15px;"></td> <td style="border: 1px solid black; width: 15px; height: 15px;"></td> <td style="border: 1px solid black; width: 15px; height: 15px;"></td> </tr> <tr> <td align="center">Mo.</td> <td align="center">Day</td> <td align="center">Yr.</td> <td colspan="3"></td> </tr> </table> OCS Lease Number										Mo.	Day	Yr.			
Mo.	Day	Yr.														
(c) Name and identification number of this well: (35 letters and digits maximum.)	CLAUDE RYAN #1															
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	RILEY															
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.) (b) Date of the contract:	HOPE GAS INC / UNION CARBIDE Name Buyer PENDING Date of Contract: <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="border: 1px solid black; width: 15px; height: 15px;"></td> <td style="border: 1px solid black; width: 15px; height: 15px;"></td> <td style="border: 1px solid black; width: 15px; height: 15px;"></td> <td style="border: 1px solid black; width: 15px; height: 15px;"></td> <td style="border: 1px solid black; width: 15px; height: 15px;"></td> <td style="border: 1px solid black; width: 15px; height: 15px;"></td> </tr> <tr> <td align="center">Mo.</td> <td align="center">Day</td> <td align="center">Yr.</td> <td colspan="3"></td> </tr> </table>										Mo.	Day	Yr.			
Mo.	Day	Yr.														
(c) Estimated total annual production from the well:	10 Million Cubic Feet															
	(a) Base Price	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (b) and (c)												
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	PENDING	---	---												
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	Section	104 + Taxes	---												
9.0 Person responsible for this application:	Steven R. Williams Name President Signature 1/23/86 Date Application is Completed (304) 842-6256 Phone Number															

FERC-123 (8-82)

Agency Use Only
Date Received by Juris. Agency JAN 24 1986
Date Received by FERC

12/29/2023

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

FEB 15 1986

Date: 1/23, 1986

38200

AGENCY USE ONLY

Applicant's Name: Petroleum Development Corporation

WELL DETERMINATION FILE NUMBER

Address: P.O. Box 26
Bridgeport, WV 26330

860124 1030 033 3209

Gas Purchaser Contract No. PENDING

Use Above File Number on all Communications Relating to This Application

Date of Contract (Month, day and year)

P637

Designated Agent: Steven R. Williams

First Purchaser: HOPE GAS INC / UNION CARBIDE

Address: P.O. Box 26

Address: 445 W MAIN P.O. Box 2170
(Street or P.O. Box)
GRAMSBURG, WV 26301 GRAMSBUAG, WV 26301
(City) (State) (Zip Code)

Bridgeport, WV

FERC Seller Code 014902

FERC Buyer Code

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL BE ADDRESSED:

Name: Steven R. Williams President
(Print) (Title)

Signature: [Handwritten Signature]

Address: P.O. Box 26
(Street or P.O. Box)
Bridgeport, WV 26330
(City) (State) (Zip Code)

Telephone: (304) 842-3597
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

- 102 1 102 New Natural Gas
 - 102-2 2.5 Mile Test
 - 102-3 1000 Foot Deeper Test
 - 102-4 New Onshore Reservoir
- 103 1 103 New Onshore Production Well
 - X 103 New Onshore Production Well
- 107 1 107 High Cost Natural Gas
 - 107-0 Deep (more than 15,000 feet)
 - 107-1 Geopressured Brine
 - 107-2 Coal Seams
 - 107-3 Devonian Shale
 - 107-5 Production enhancement
 - 107-6 New Tight Formation
 - 107-7 Recompletion Tight Formation

- 108 Stripper Well Natural Gas
 - 108- Stripper Well
 - 108-1 Seasonally Affect
 - 108-2 Enhanced Recovery
 - 108-3 Temporary Pressur

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12/29/2023
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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

Date 1/23 1986

Operator's Well No. RYAN #1

API Well No. 47 - 033 - 3209
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
NGPA Section 103

DESIGNATED AGENT Petroleum Development Corporation
ADDRESS 103 East Main Street
Bridgeport, WV 26301

WELL OPERATOR Petroleum Development Corp.
ADDRESS 103 East Main Street
Bridgeport, WV 26301

LOCATION: Elevation 1179
Watershed PEDDLEAS RUN
Dist. SIMPSON County HARRISON Quad. ROSEMONT

GAS PURCHASER HOPE GAS INC/UNION CARBIDE
ADDRESS 445 W MAIN P.O. BOX 2170
CLARKSBURG, WV CLARKSBURG, WV
26301 26301

Gas Purchase Contract No. PENDING
Meter Chart Code _____
Date of Contract _____

* * * * *

Date surface drilling was begun: 12/19/85

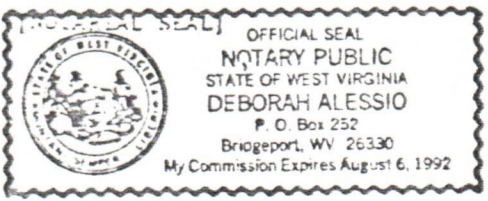
Indicate the bottom hole pressure of the well and explain how this was calculated:

$P_{ws} = P_{ts} (e) \frac{0.01875 GH}{2T}$
 P_{ws} = Static Bottom Hole Pressure = 1107 psia
 P_{ts} = Static Wellhead Pressure = 1000 psia
Bottom Hole Temperature = 95 °F
G = Specific Gravity of Gas = .61
H = Well Depth to Center Perfs. = 4070
E = Compressibility Factor at Arithmetic Mean Temperature & Pressure = .855
T = Arithmetic Mean Temperature 535

I, STEVE WILLIAMS, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

STATE OF WEST VIRGINIA,
COUNTY OF Harrison TO WIT:

I, Deborah Alessio, a Notary Public in and for the state and county aforesaid, do certify that Steven R. Williams whose name is signed to the writing above, bearing date the 23rd day of January, 1986, has acknowledged the same before me, in my county aforesaid. Given under my hand and official seal this 23rd day of January, 1986. My term of office expires on the 6th day of August, 1992.



Deborah Alessio
Notary Public

12/29/2023

PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)

1.0 API well number: (If not assigned, leave blank. 14 digits.)	<u>47-033-3209 -</u>			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	<u>107</u> Section of NGPA		<u>6</u> Category Code	
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	<u>4072</u>			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Petroleum Development Corporation Name P.O. Box 26, 103 East Main Street Street Bridgeport City WV State 26330 Zip Code			
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.) (b) For OCS wells:	UNNAMED Field Name HARRISON County WV State Area Name Block Number Date of Lease: [][][][][][] Mo. Day Yr. OCS Lease Number			
(c) Name and identification number of this well: (35 letters and digits maximum)	CLAUDE RYAN # 1			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum)	RILEY			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.) (b) Date of the contract:	HOPE GAS INC / UNION CARBIDE Name BUYER CO PENDING [][][][][][] Mo. Day Yr.			
(c) Estimated total annual production from the well:	10 Million Cubic Feet			
	(a) Base Price	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	PENDING	---	---
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	Section	104 + Taxes	---
9.0 Person responsible for this application:	Steven R. Williams Name President Title [Signature] Signature 1/23/86 Date Application is Completed (304) 842-6256 Phone Number			

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 0149

FERC-121 (8-82)

12/29/2023

DEPARTMENT OF MINES, OIL AND GAS DIVISION

FEB 15 1986

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: 1/23, 1986

38200

AGENCY USE ONLY

Applicant's Name: Petroleum Development Corporation

WELL DETERMINATION FILE NUMBER

Address: P.O. Box 26
Bridgeport, WV 26330

860124 -1076-033-3209

Purchaser Contract No. PENDING

Use Above File Number on all Communications Relating to This Well

Date of Contract (Month, day and year)

P637

Designated Agent: Steven R. Williams

First Purchaser: HOPE GAS INC / UNION CARBIDE

Address: P.O. Box 26

Address: 445 W. MAIN P.O. Box 2170
(Street or P.O. Box) CLARKSBURG, WV CLARKSBURG, WV 26301
(City) 26301 (State) (Zip Code)

Bridgeport, WV 26330

FERC Seller Code 014902

FERC Buyer Code

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL BE ADDRESSED:

Name: Steven R. Williams President
(Print) (Title)

Signature: [Handwritten Signature]

Address: P.O. Box 26
(Street or P.O. Box) Bridgeport, WV 26330
(City) (State) (Zip Code)

Telephone: (304) 842-3597
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

- 102 New Natural Gas
 - 102-2 2.5 Mile Test
 - 102-3 1000 Foot Deeper Test
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 - X 107-6 New Tight Formation
 - 107-7 Recompletion Tight Formation

- 108 Stripper Well Natural Gas
 - 108- Stripper Well
 - 108-1 Seasonally Affected
 - 108-2 Enhanced Recovery
 - 108-3 Temporary Pressure Buildup

AGENCY USE ONLY

Resonant

QUALIFIED 12/29/2023

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

55-T

DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

WELL NO. RYAN # 1

API NO. 47-033-3209
State _____ County _____

WELL CLASSIFICATION FORM

HIGH-COST GAS - NEW TIGHT FORMATION

NPA SECTION 107

WELL OPERATOR Petroleum Development Corp.
Address 103 East Main St., P.O. Box 26
Bridgeport, WV 26330

Designated Agent Petroleum Development
Address 103 East Main St., P.O. Box 26
Bridgeport, WV 26330

Gas Purchaser HOPE GAS INC / UNION CARBIDE
Address 445 W. MAIN P.O. Box 2170
CHARMSBURG, WV / CHARMSBURG, WV 26301
26301

Location: Elevation 1179
Watershed PEDDLER RUN QUAD. ROSEMONT
District SIMPSON County HARRISON

Gas Purchase Contract No. PENDING

Meter Chart Code _____

Date of Contract _____

* * * * *

Date surface drilling began 12/19/85

Indicate the bottom hole pressure of well and explain how this was calculated:

$$\frac{0.01875 \text{ GH}}{ZT} P_{ws} = P_{ts(e)}$$

- P_{ws} = Static Bottom Hole Pressure = 1107 psia
- P_{ts} = Static Wellhead Pressure = 1000 psia
- Bottom Hole Temperature = 95 °F
- G = Specific Gravity of Gas = .61
- H = Well Depth to Center Perfs = 4070
- ZT = Compressibility Factor at Arithmetic Mean Temperature & Pressure = .855
- T = Arithmetic Mean Temperature = 535

I, STEVE WILLIAMS, having been first sworn according to law, state that surface drilling the the well for which this determination is sought was begun on 12/19/85 after July 16, 1979, the gas is being produced from a designated tight formation and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

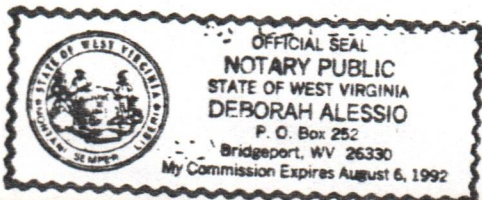
[Signature]

STATE OF WEST VIRGINIA
COUNTY OF HARRISON, COUNTY:

I, DEBORAH ALESSIO, a Notary Public in and for the state and county aforesaid, do certify that Steven A. Williams whose name is signed 12/29/2023 with above, has acknowledged the same before me, in the county aforesaid.

Given under my hand this 23rd day of January, 1986.

Notary Public Expires: AUGUST 6, 1992

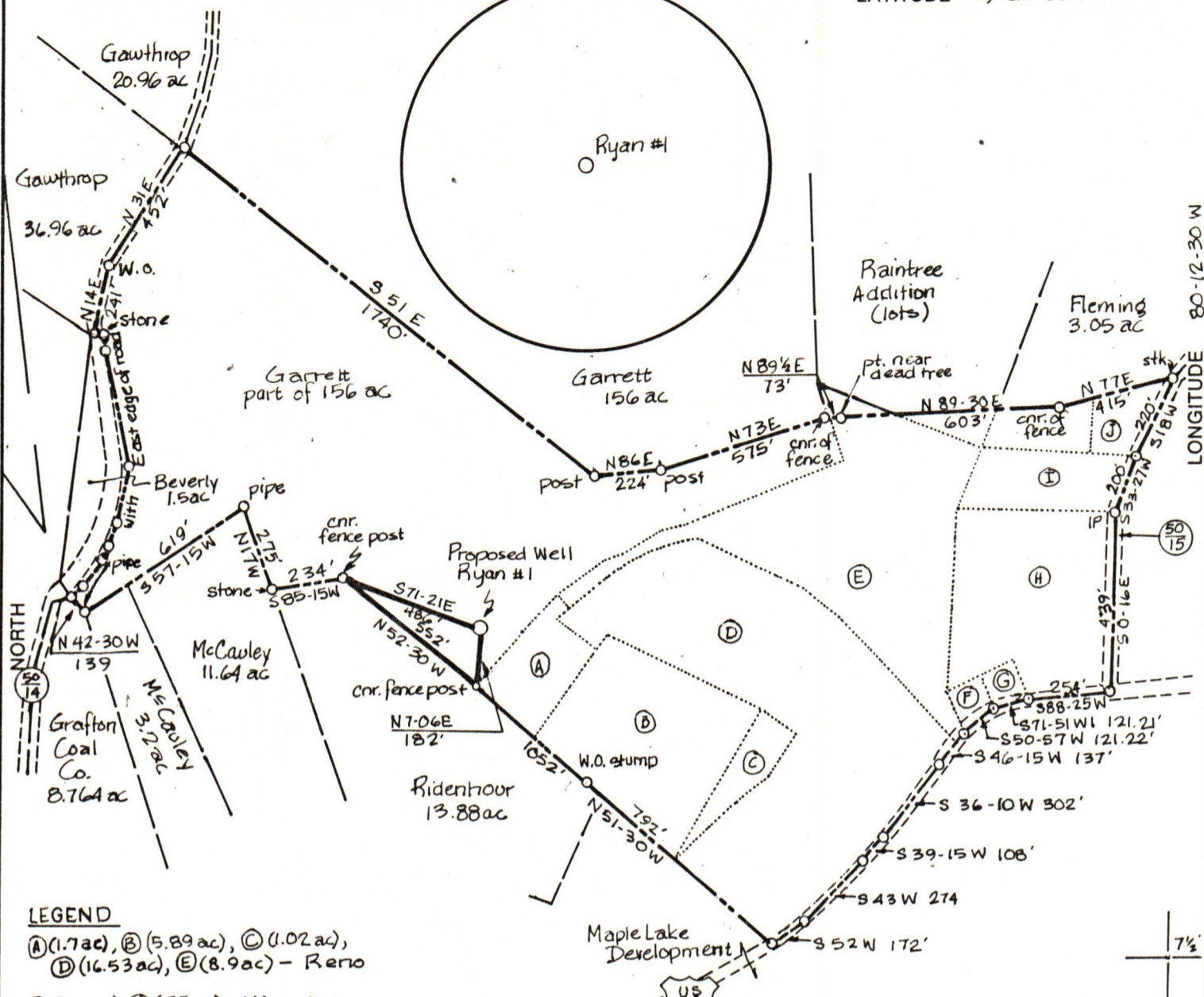


[Signature]
Notary Public

MU 5-2085

550'

LATITUDE 39-20-00 N



LONGITUDE 80-12-30'

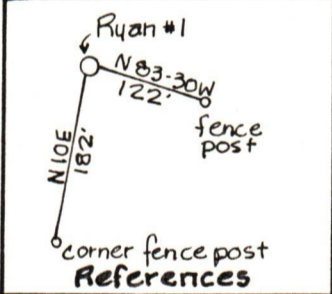
LEGEND

- (A) (1.7 ac), (B) (5.89 ac), (C) (1.02 ac), (D) (16.53 ac), (E) (8.9 ac) - Reno
- (F) (.35 ac), (G) (.35 ac) - Mitchell
- (H) (1.825 ac) - Gawthrop
- (I) (6.67 ac) - Talago
- (J) - Morgan (.47 ac)

Note: There are no other wells within 2400' of this location.

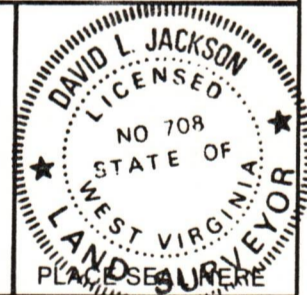
--- lease lines
 surface boundaries within the lease

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



FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Spot elevation 2240' NW of location; elev. 1448' (shown as 1148 on topo.)

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. _____ L.S. 708



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



DATE April 10, 1985
 OPERATOR'S WELL NO. Ryan #1
 API WELL NO. _____

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

LOCATION: ELEVATION 1179' WATERSHED Peddler Run
 DISTRICT Simpson COUNTY Harrison

QUADRANGLE Rosemont 7 1/2'
 SURFACE OWNER Joseph Garrett ACREAGE 18/29/2023

OIL & GAS ROYALTY OWNER C.J. Ryan, Jr., et ux LEASE ACREAGE 86
 LEASE NO. 127100

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