



1) Date: November 17, 19 82
 2) Operator's Well No. #2
 3) API Well No. 47 085- 6024
 State County Permit

DRILLING CONTRACTOR:

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas _____
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow _____)
- 5) LOCATION: Elevation: 930 Watershed: Hushers Run
 District: Grant County: Ritchie Quadrangle: Ellenboro 7 1/2'
- 6) WELL OPERATOR PETROLEUM DEVELOPMENT CORPORATION 1) DESIGNATED AGENT JOHN R. MITCHELL
 Address PO Box 26, 103 East Main Street Address PO Box 26, 103 East Main Street
Bridgeport, WV 26330 Bridgeport, WV 26330
- 7) OIL & GAS ROYALTY OWNER Maxine & Foster Smith
 Address 2-G Cape Shores Drive North
Cape Canaveral, Florida 23920
 Acreage 91
- 8) SURFACE OWNER Alfred Blizzard et al
 Address 735 Westview Drive
Belpre, Ohio 45714
 Acreage 91
- 9) FIELD SALE (IF MADE) TO:
 Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Samuel N. Hersman
 Address PO Box 66
Smithville, WV 26178
- 11) COAL OPERATOR _____
 Address _____
- 12) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Name none
 Address _____
- 13) COAL LESSEE WITH DECLARATION ON RECORD:
 Name _____
 Address _____
- 14) PROPOSED WORK: Drill / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 15) GEOLOGICAL TARGET FORMATION, Marcellus Shale
- 16) Estimated depth of completed well, 5900 feet
- 17) Approximate water strata depths: Fresh, 260 feet; salt, 1660 feet.
- 18) Approximate coal seam depths: none Is coal being mined in the area? Yes _____ / No
- 19) CASING AND TUBING PROGRAM

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DEPT. OF MINES

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11 3/4	H-40	42#	x		30'	30'	cement to surface	
Fresh water									
Coal									Sizes
Intermediate	7 7/8	H-40	23#	x		1080'	1080'	cement to surface	
Production	4 1/2	J-55	10.5#	x		5900'	5900'	400 sks	Depths set
Tubing									Perforations:
Liners									Top Bottom

- 21) EXTRACTION RIGHTS
 Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No
- If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
- 24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.
- Notary: [Signature]
 My Commission Expires 9-4-89
- Signed: John R. Mitchell
 Its: Area Manager of Operations

OFFICE USE ONLY
DRILLING PERMIT
 Permit number 47-085-6024 Date November 22, 1982
04/05/2024

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. 10) 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.)

Permit expires July 22, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>Blanket</u>	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>824865</u>
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[Signature]
Administrator, Office of Oil and Gas

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

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, 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 §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) **The above 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 receipt thereof.

WAIVER

04/05/2024

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: _____, 19 _____

By _____

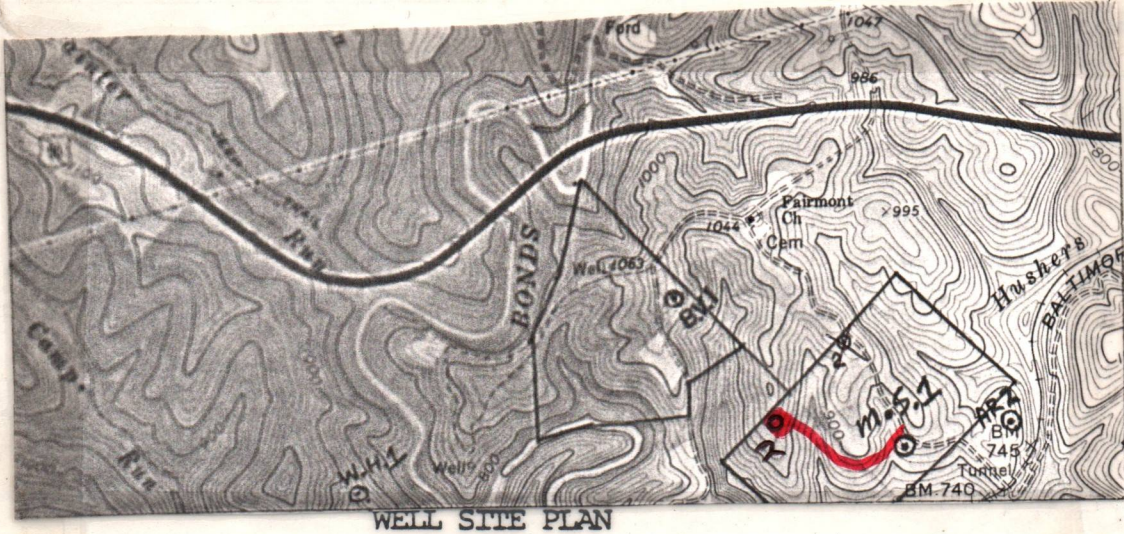
Its _____

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Ellenboro 7.5

LEGEND

Well Site 













Access Road 

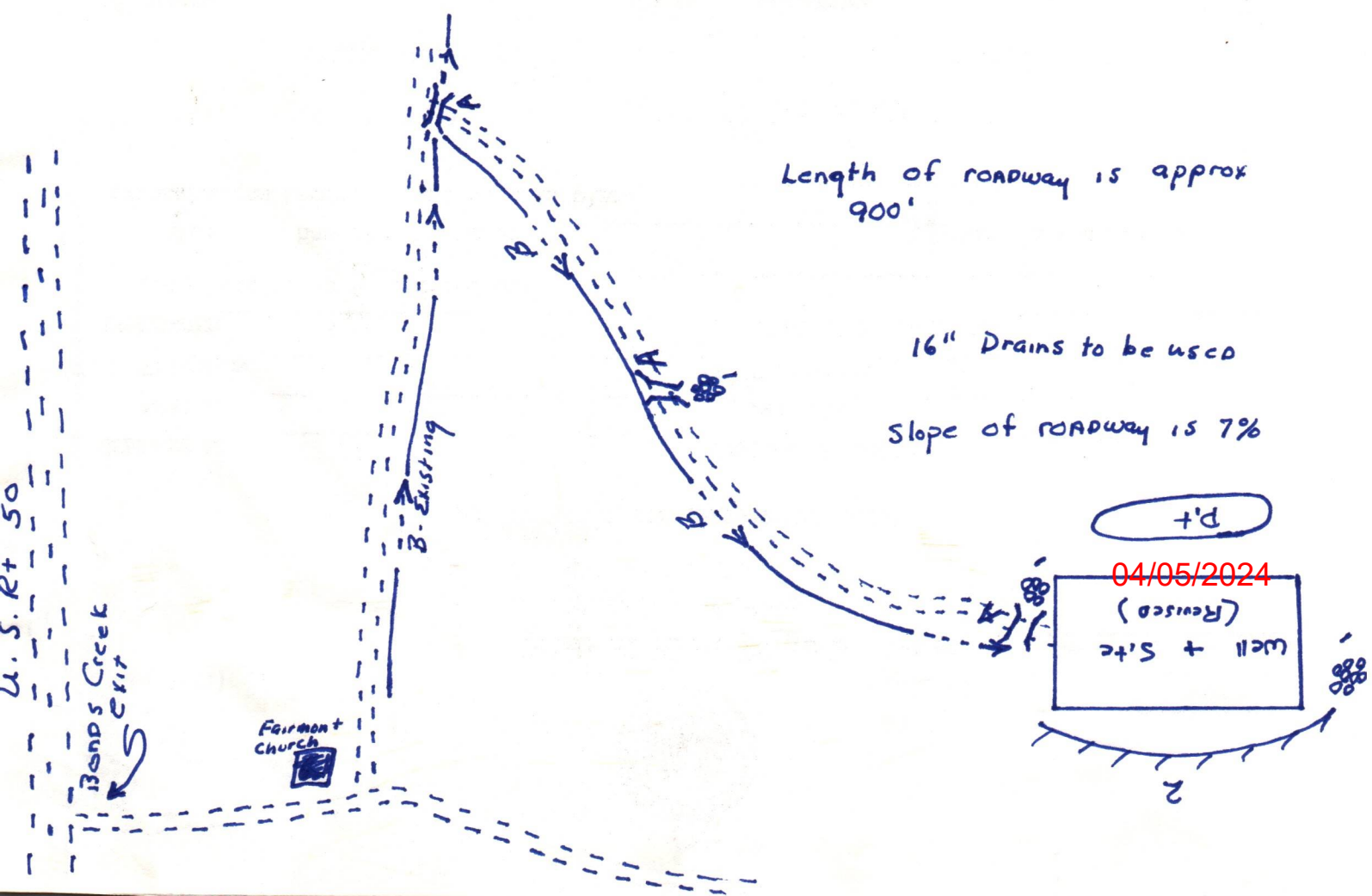


WELL SITE PLAN

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 



04/05/2024



DATE 11-12-82
WELL NO. 2 - Revoce Rec plan
API NO. 47-085-6024
State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME: Petroleum Development Corp. Designated Agent John Mitchell

Address: P.O. 26, Bridgeport, W.Va. 26330

Telephone: 842-6256

LANDOWNER: Alfred Blizzard

SOIL CONS. DISTRICT: Little Kanawha

Telephone: same

Address: same

Revegetation to be carried out by Seeding Contractor (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan:

11-12-82 (Date)

Jarrett Newton (SCD Agent)

ACCESS ROAD

LOCATION

(A) Structure Drain Pipe

(1) Structure Rip-Rap

Spacing (m.v. 12" I.D.)

Material Stone

Page Ref. Manual 2:7

Page Ref. Manual 2:9

(B) Structure Drainage Ditch

(2) Structure Division Ditch

Spacing n/a

Material Earth

Page Ref. Manual 2:12

Page Ref. Manual 2:12

(C) Structure

(3) Structure

Spacing

Material

Page Ref. Manual

Page Ref. Manual

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

Lime 3 Tons/acre or correct to pH 6.5

Lime 3 Tons/acre or correct to pH 6.5

Fertilizer 600 lbs/acre (10-20-20 or equivalent)

Fertilizer 600 lbs/acre (10-20-20 or equivalent)

Mulch Hay - 2 Tons/acre

Mulch Hay - 2 Tons/acre

Seed* Orchard Grass - 12 lbs/acre

Seed* Orchard Grass - 12 lbs/acre

Ladina Clover - 3 lbs/acre

Ladina Clover - 3 lbs/acre

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

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

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

PLAN PREPARED BY John R. Stant

ADDRESS P.O. 26

PHONE NO. (304) 842-6256

Bridgeport, W.Va. 26330

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

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INSPECTOR'S WELL REPORT

Permit No. 085-6024

OIL & GAS DIVISION
DEPT. OF MINES

Company DET. DEV. CORP.

Address _____

Farm ALFRED BLIZZARD

Well No. TWO

District GRANT County RITCHIE

Drilling commenced _____

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			
Liners Used			Perf. bottom _____
			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: _____

FINAL INSPECTION
O.K. TO RELEASE

8-25-83
DATE

Mike Anderson
04/05/2024
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.

04/05/2024
DISTRICT WELL INSPECTOR



State of West Virginia

Department of Mines

Oil and Gas Division

Charleston 25305

WALTER N. MILLER
DIRECTOR

THEODORE M. STREIT
ADMINISTRATOR

September 2, 1983

Petroleum Development Corp.
P. O. Box 26
Bridgeport, W. Va. 26330

Gentlemen:

The required records and reports have been received in this office and the District Inspectors have submitted FINAL INSPECTIONS for the following wells listed below:

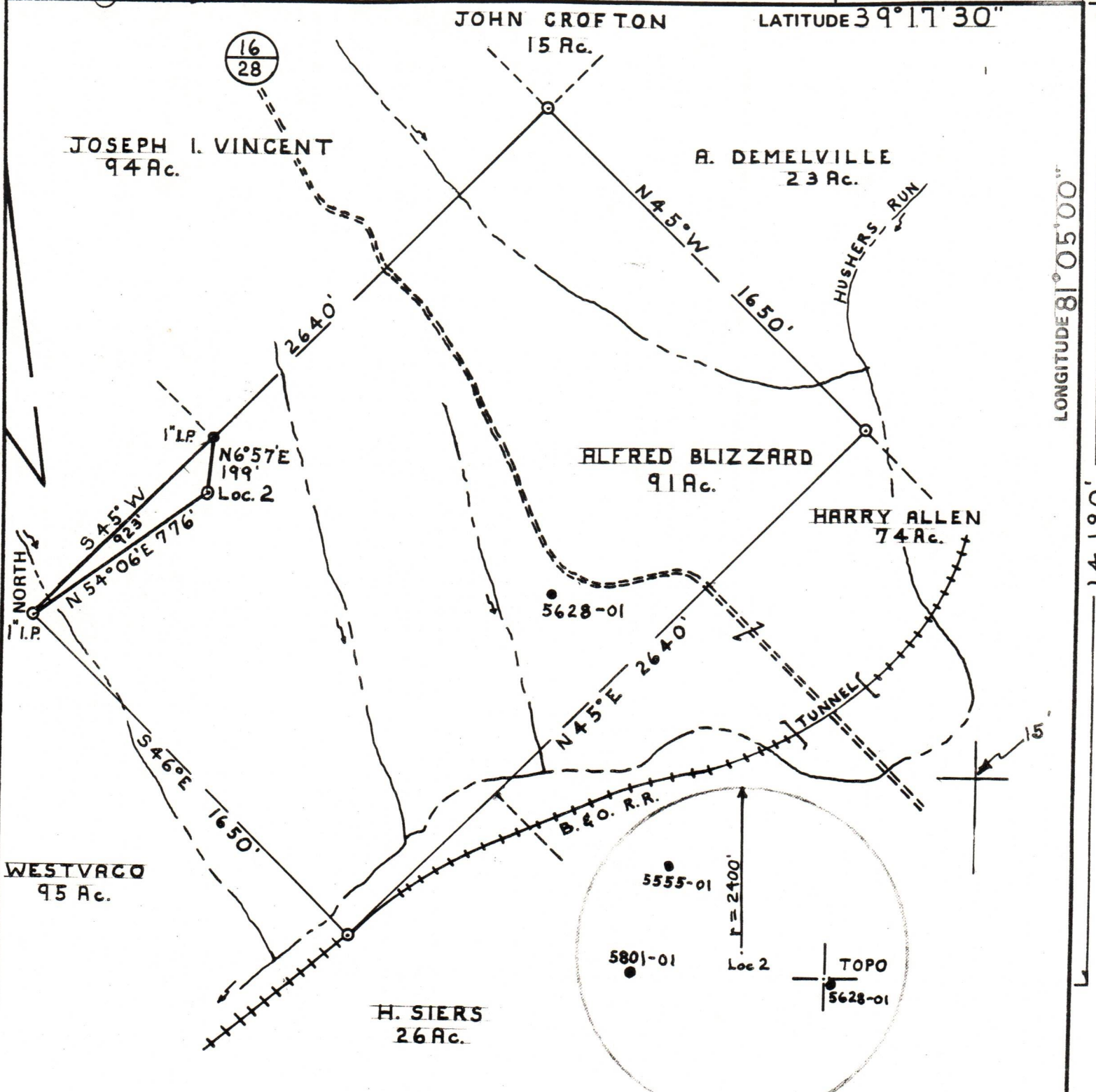
<u>PERMIT NUMBER</u>	<u>FARM AND WELL NUMBER</u>	<u>DISTRICT</u>
RiT-5628-REV.	Maxine & Foster Smith, #1	Grant
RIT-5771	Jennings Ross, #34-2535-5	Grant
RIT-5863	Westvaco Corporation, #A-2	Grant
RIT-5899	Brian G. & Diane Whalin, #1	Grant
RIT-6024	Alfred Blizzard et al, #2	Grant
RIT-6129	Daniel Donnelly etux, #1	Grant

In accordance with Chapter 22, Article 4, Section 2, the above captioned wells will remain under bond coverage for "life of wells." Reclamation requirements have been approved.....

Very truly yours,

Theodore M. Streit, Administrator
Office of Oil & Gas-Dept. Mines

04/05/2024



FILE NO. P.D.C. # 4 - P. 9.57
 DRAWING NO. 1
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION ROAD INT. RT. 1928 & RT. 8 = 1044'

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) Paul G. Dean, Jr.
 R.P.E. 1856 L.L.S. _____

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE NOV. 17, 1982
 OPERATOR'S WELL NO. 2
 API WELL NO. 47-085-6024
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 930' WATER SHED HUSHERS RUN
 DISTRICT GRANT COUNTY RITCHIE
 QUADRANGLE ELLENBORO 7 1/2'

SURFACE OWNER ALFRED BLIZZARD ET AL. ACREAGE 91
 OIL & GAS ROYALTY OWNER MAXINE E FOSTER SMITH LEASE ACREAGE 91
 LEASE NO. 364000

04/05/2024

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 MARCELLUS SHALE ESTIMATED DEPTH 5900'
 WELL OPERATOR PETROLEUM DEVELOPMENT DESIGNATED AGENT JOHN R. MITCHELL
 ADDRESS P.O. BOX 26 ADDRESS P.O. BOX 26
BRIDGEPORT W.V. BRIDGEPORT W.V.

A S S I G N M E N T

431

9.7

47-085-6024

THIS ASSIGNMENT, Made this 7 th. day of June 1982, by and between WARREN R. HAUGHT, having a place of business at Parkersburg, West Virginia as party of the first part (hereinafter referred to as "Assignor"), and PETROLEUM DEVELOPMENT CORPORATION, having a place of buisness at 103 East Main Street, P.O. Box 26, Bridgeport, West Virginia 26330, as party of the second part (hereinafter referred to as "Assignee").

WITNESSETH: That for and in consideration of the sum of Ten (\$10.00) Dollars cash in hand paid, and other good and valuable considerations, the receipt and sufficiency of which is hereby confessed and acknowledged, the Assignor does hereby grant, convey and assign unto the Assignee, subject to the conditions and reservations herein contained, without Warranty, except as hereinafter provided all of its right, title and interest in and to the following referenced oil and gas leases, together with the leasehold estates created and existing, which said leases are situate in Ritchie County, West Virginia, as listed on EXHIBIT "A".

Faint yellow handwritten notes, possibly "7/12-82" and "Ritchie County".

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OIL & 04/05/2024
DEPT. OF MINES

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47-085-6024 a-8

WITNESS the following signature's and seal:

(SEAL) Warren R. Haught
WARREN R. HAUGHT

(SEAL) Petroleum Development Corporation
PETROLEUM DEVELOPMENT CORPORATION

STATE OF WEST VIRGINIA

COUNTY OF RITCHIE

BEFORE ME, the undersigned authority in and for the State & County aforesaid,
on this day personally appeared Warren R. Haught

Known to me to be the person whose name is subscribed to the foregoing instrument,
and acknowledged to me that he executed the same for the purpose and consideration
therein expressed.

Given under my hand and seal of office this 10th day of June 1982

Evel E. Morgan
Notary Public

My Commission Expires September 4 19 90

STATE OF WEST VIRGINIA

COUNTY OF HARRISON

BEFORE ME, the undersigned authority in and for the state and county aforesaid,
on this day personally appeared James N. Ryan

known to me to be the person whose name is subscribed to the foregoing instrument, a
acknowledged to me that he executed the same for the purpose and consideration there
expressed.

Given under my hand and seal of office this 30th day of June 1982

Robert G. Allen
Notary Public

My Commission Expires on October 1 19 82

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OIL & GAS DIVISION
DEPT. OF MINES

A-9

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THIS AGREEMENT, made and entered into the 2nd day of June, 1981
by and between Maxine Smith, and Foster L. Smith her husband

of the first part, hereinafter called the Lessor, and Warren R. Haught
party of the second part, hereinafter called the Lessee.

COPY

Witnesseth, That the Lessor in consideration of One Dollar in hand paid by the Lessee, receipt of which is hereby acknowledged, and of the covenants and agreements hereinafter contained, hereby grants and warrants generally the title to all the oil and gas in and under, and grants, demises and leases with covenants of quiet possession, and of sole right to convey, all that certain tract of land hereinafter described, for the sole and only purpose of operating for and producing oil and gas, together with the rights of way and servitudes for pipe lines, structures, plants, drips, tanks, stations, telephone, telegraph, and electric power lines, houses for gates, meters and regulators, and all other rights and privileges necessary, incident to, and convenient for the economic operation, including the drilling of wells, of this land for oil and gas, with the right to use free oil, gas and water for such purposes and with the right of removing either during or after the term hereof all and any property and improvements placed or erected on the premises, ~~the right to lay service and sale lines and roadways without additional consideration across the premises from adjoining leases, and the right to place any meter or other mineral sales measuring device on the premises for the purpose of measuring sales to a third party from adjoining leases, by Lessee, also with the right of operating as one entire tract, or subdividing the premises~~ situate in Grant District, Ritchie County, and State of West Virginia, on the waters of N. F. H. R. bounded and described as follows:

On the North by lands of Joseph I. Vincent; John M. Crofton; Anna DeMelville et al
On the East by lands of Anna DeMelville et al; Harry Allen et al
On the South by lands of West Virginia Pulp and Pap. ; Harry Allen et al
On the West by lands of Joseph I. Vincent; West Virginia Pulp and Paper
Containing ninety one (91) acres, more or less, reserving, however, 200 feet from the _____ building _____ now on the premises, on which no well shall be drilled by either party except by mutual consent.

To have and to hold unto and for the use of the Lessee for the term of 1 year, from this date, and as long thereafter as the said land is operated by the Lessee in the search for or production of oil or gas, with the extension of term by payment of rentals as hereinafter set forth.

IN CONSIDERATION OF THE PREMISES the said Lessee covenants and agrees: 1st — To deliver to the credit of the Lessor, their heirs or assigns, free of cost, in the pipe line to which said Lessee may connect its wells, a royalty of the equal of one-eighth (1/8) part, or their proportional share of 1/8, of all oil produced and saved from the leased premises; 2nd — To pay the equal of one-eighth (1/8), or their proportional share of 1/8, of all money received from sale of gas from each and every gas well drilled on said premises, the product from which is marketed and used off the premises, said payment to be made within sixty days after commencing to market the gas therefrom as aforesaid and to be paid each three months thereafter while the gas from said well or wells is so marketed and used.

Said Lessee shall not be required in any event to increase the rate of said gas well payment or said royalty of oil or the delay rental payments hereinafter provided by reason of any royalty or interest in said oil or gas that may have been heretofore sold, reserved or conveyed by said Lessor or their predecessors in title or otherwise; and if the Lessor does not have title to all the oil and gas in the leased premises, there shall be refunded such part of all delay rental and gas well payments made by the Lessee under this lease, as shall be proportionate to the outstanding title, and payments thereafter to be made for such purposes shall be reduced in the same proportion.

The leased premises may be fully and freely used by the Lessor for farming purposes, excepting such 04/05/2024 as are used by Lessee in operating hereunder.

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OIL & GAS DIVISION
DEPT. OF MINES

a-10

The said Lessee covenants and agrees to pay a rental at the rate of five dollars per acre per year dollars (\$ _____) quarterly in advance, beginning immediately months from this date, until a well is completed, or this lease surrendered; any rental paid for time beyond the date of completion of a gas well shall be credited upon the first royalty due upon the same.

All payments hereunder may be directed to the Lessor, or deposited to _____ credit or the credit of _____ respective heirs or assigns in _____, or by check payable and mail to Maxine Smith at 2 G Cape Shores Dr. Post Office, Cape Canaveral, Brevard County, State of Florida 32920, or in any of said methods to _____, who is hereby appointed agent to receive and receipt for the same.

Lessor may lay a line to any well producing gas only on said land or to second party's pipe line leading from said well to market, to take gas produced from said well for their own use for heat and light in one dwelling house on said land at Lessor's own risk, subject to the use, operation, pumping and right of abandonment of the well and pipe line by the Lessee; the first two hundred thousand cubic feet of gas so taken in each year shall be free, but all gas in excess of two hundred thousand cubic feet taken in each year shall be paid for by the Lessor at the current published local rates of the Lessee, and measurement and regulation shall be by meter and regulators set at the tap on the well or line. This privilege is upon condition that the Lessor shall use said gas with economy, in safe and proper pipes and appliances, and shall subscribe to and be bound by reasonable rules and regulations of the Lessee published at such time relating to such use of gas. For the above-mentioned consideration Lessor hereby grants all rights necessary for the proper disposal of produced salt in accord with state and federal regulations and all rights of unitization necessary to secure state drilling permits.

It is further agreed that the Lessee shall have the right at any time to surrender this lease, or from time to time any part or parts of the leased land upon the payment of One Dollar (\$1.00) and all amounts due hereunder as to the land so surrendered, and thereafter the Lessee shall be released and discharged from all payments, obligations, covenants and conditions herein contained as to the land so surrendered, and this lease shall thereupon become null and void as to land in respect to which a surrender is made.

The Lessor agrees that the recordation of deed of surrender in the proper County, and deposit in the post office of a check payable as above provided for said last mentioned sum and all amounts then due hereunder, shall be and be accepted as full and legal surrender of Lessee's rights under this lease.

All terms, conditions, limitations and covenants between the parties hereto shall extend to their respective heirs, successors, personal representatives and assigns.

IN WITNESS WHEREOF the parties to this agreement have hereunto set their hands and seals the day and year first above written.

Witness:

Maxine Smith X (Seal)
James H. Smith X (Seal)

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Signed: _____ NOV 10 1992 04/05/2024

OIL & GAS DIVISION
DEPT. OF MINES

a-11

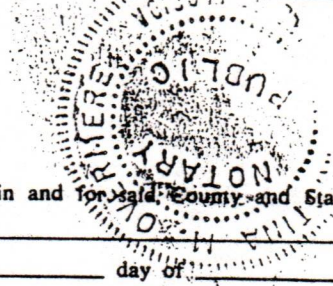
instrument was prepared by Rodney K. Bumgarner.

STATE OF Florida

COUNTY OF Franklin

TO-WIT: I, Christina M. Bumgarner, a Notary Public in and for said County and State, do certify that Margaret Smith and Foster L. Smith his wife, whose name ACE signed to the writing above, bearing date the 10th day of July 1981, have this day acknowledged the same before me in my said County.

Given under my hand this 10 day of July 1981.
My Commission expires Notary Public, State of Florida
Christina M. Bumgarner, Notary Public
My Commission Expires Aug. 21, 1984
Bonded by American Fire & Casualty Company.



STATE OF WEST VIRGINIA

COUNTY OF _____

TO-WIT: I, _____, a Notary Public in and for said County and State, do certify that _____ and _____ his wife, whose name _____ signed to the writing above, bearing date the _____ day of _____ 19____, ha_____ this day acknowledged the same before me in my said County.

Given under my hand this _____ day of _____, 19____.
My Commission expires _____, Notary Public

STATE OF WEST VIRGINIA

COUNTY OF _____

TO-WIT: I, _____, a Notary Public in and for said County and State, do certify that _____ and _____ his wife, whose name _____ signed to the writing above, bearing date the _____ day of _____ 19____, ha_____ this day acknowledged the same before me in my said County.

Given under my hand this _____ day of _____, 19____.
My Commission expires _____, Notary Public

STATE OF WEST VIRGINIA

COUNTY OF _____

TO-WIT: I, _____, a Notary Public in and for said County and State, do certify that _____ and _____ his wife, whose name _____ signed to the writing above, bearing date the _____ day of _____ 19____, ha_____ this day acknowledged the same before me in my said County.

Given under my hand this _____ day of _____, 19____.
My Commission expires _____, Notary Public

STATE OF WEST VIRGINIA

COUNTY OF _____

TO-WIT: I, _____, a Notary Public in and for said County and State, do certify that _____ and _____ his wife, whose name _____ signed to the writing above, bearing date the _____ day of _____ 19____, ha_____ this day acknowledged the same before me in my said County.

Given under my hand this _____ day of _____, 19____.
My Commission expires _____, Notary Public

04/05/2024

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NOV 10 1982

OIL & GAS DIVISION
DEPT. OF MINES

9-12

PLAS 1 FAVOR

(Form CC No. 1)

WEST VIRGINIA,

County Commission Clerk's Office, ----- July 9th, 19 81 at 3:10 o'clock P. M.

being, with the certificate of acknowledgment thereto, was this day admitted to record in said office.
Teste: Spida B. May Clerk

Date _____, 19__

TERM _____

No. Acres _____

LOCATION

DISTRICT _____

COUNTY _____

Filed and admitted to record in the office of the Clerk of the County Commission of Ritchie County, W. Va. JUL 9 1981

19__ at 3:10 o'clock P M

Recorded in HESS RITCHIE GAZETTE PRINTING ----- HARRISVILLE, WV

Book No. 137 Page 216

Teste: Spida B. May Clerk

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OIL & GAS DIVISION
DEPT. OF MINES

04/05/2024

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

	Perforations	CO ₂	N ₂	acid
1ST STAGE	40(4039-4962)		610,000scf	11bbls
2ND STAGE	25(3473-4017)	19tons	500,000scf	8bbls
3RD STAGE	18(2499-2935)	18.5 tons	500,000scf	17bbls

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, Red Rock			10	1808	
Big Lime			1808	1893	
Big Injun			1893	1975	
Squaw			1975	2024	
Sand, shale			2024	2118	
Weir			2118	2192	
sand, shale			2192	2350	
Sunbury Shale			2350	2377	gas check @ 3000' 14/10 thru
Berea			2377	2398	1" H ₂ O
Sand, shale			2398	2482	
Gantz			2482	2528	
Sand, shale			2528	2741	
Gordon			2802	3412	gas check @ 4500' 14/10 thru
Huron			3412	4532	H ₂ O
Java			4532	4926	
Angola			4926	5059 TD	

(Attach separate sheets as necessary)

Petroleum Development Corporation
Well Operator

By:

John R. Mitchell

04/05/2024

Date:

February 18, 1983

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

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FEB 23 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date January 10, 1983
Operator's _____
Well No. #2
Farm Smith
API No. 47 - 085 - 6024

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

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

LOCATION: Elevation: 930' Watershed Hushers Run
District: Grant County Ritchie Quadrangle Ellenboro

COMPANY Petroleum Development Corporation
ADDRESS P.O. Box 26, Bridgeport, WV 26330
DESIGNATED AGENT John R. Mitchell
ADDRESS P.O. Box 26, Bridgeport, WV 26330
SURFACE OWNER Alfred Blizzard et al
ADDRESS 735 Westview Dr., Belpre, OH 45714
MINERAL RIGHTS OWNER Maxim & Foster Smith
ADDRESS 2-G Cape Shore Dr. N., Cape Canaveral, FL 32920
OIL AND GAS INSPECTOR FOR THIS WORK Samuel Hersman
ADDRESS P.O. Box 66, Smithville, WV 26178
PERMIT ISSUED 11/18/82
DRILLING COMMENCED November 26, 1982
DRILLING COMPLETED December 3, 1982

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	30	30	Cement to surface
9 5/8			
8 5/8			
7-5/8	1104	1104	400 sks.
5 1/2			
4 1/2	4992	4992	315 sks.
3			
2			
Liners used			

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

GEOLOGICAL TARGET FORMATION Marcellus Shale Depth 5900 feet
Depth of completed well 5060 feet Rotary XX / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Devonian Shale Pay zone depth 2499-4962 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 39 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 665 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

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

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DEC - 3 1982

INSPECTOR'S WELL REPORT

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Permit No. 85-6024

Oil or Gas Well _____
(KIND)

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

Drillers' Names Kirby Eskew - Eddie Hammer - Robert Heater - Mason Freeman

Remarks: Union Drilling #6 Tool Pusher - Bill Heater

on 11-29-82 Ran 1104 foot of 7 5/8 casing
Hallidurston ran 400 sacks cement
Plug Down at 1:00 AM.
2541' foot deep at time of visit

11-30-82
DATE

Samuel M. Hergeman
DISTRICT WELL INSPECTOR

04/05/2024

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:

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

DISTRICT WELL INSPECTOR
04/05/2024

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

INSPECTOR'S WELL REPORT

Permit No. 85-6024

Oil or Gas Well _____
(KIND)

Company PDC
 Address _____
 Farm G. Blyppard
 Well No. 2
 District Grant County Retchie
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Paacker _____
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names _____

Remarks: Inspect - cannot release road bad

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JUL 11 1983

OIL & GAS DIVISION
DEPT. OF MINES

7-6-83
DATE

Steve Casey 04/05/2024

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: _____

Faint handwritten notes and stamps, including a date stamp that appears to be 04/05/2024.

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

04/05/2024

DISTRICT WELL INSPECTOR