

A-1



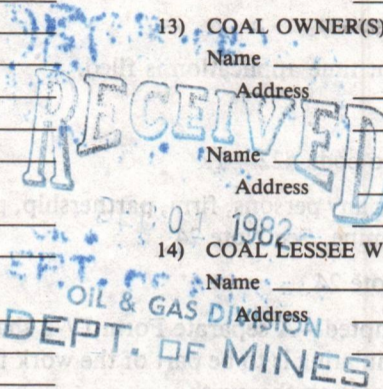
1) Date: December 1, 19 82  
 2) Operator's Well No. WI026  
 3) API Well No. 47 105 1032  
 State County Permit

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 X /  
 B (If "Gas", Production X / Underground storage      / Deep      / Shallow X /)
- 5) LOCATION: Elevation: 818.67 Watershed: Right fork of Flint Run  
 District: Clay County: Wirt Quadrangle: Girta
- 6) WELL OPERATOR Bow Valley Petroleum Inc. 11) DESIGNATED AGENT W.E. Stover  
 Address 600 Commerce Square Address Box 235  
Charleston, WV 25301 Culloden, WV 25510
- 7) OIL & GAS ROYALTY OWNER Glen W. Roberts Estate 12) COAL OPERATOR N/A  
 Address Elizabeth, WV Address
- 8) SURFACE OWNER Westvaco 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Address Parkersburg, WV Name       
 Address      Address
- 9) FIELD SALE (IF MADE) TO:  
 Address      Name       
 Address      Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Mr. Deo Mace 14) COAL LESSEE WITH DECLARATION ON RECORD:  
 Address Rt. 1, Box 5 Name       
Sandridge, WV Address
- 15) PROPOSED WORK: Drill X / Drill deeper      / Redrill      / Fracture or stimulate       
 Plug off old formation      / Perforate new formation       
 Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Marcellus shale
- 17) Estimated depth of completed well, 4800 feet
- 18) Approximate water strata depths: Fresh, 65 feet; salt,      feet.
- 19) Approximate coal seam depths: N/A Is coal being mined in the area? Yes      / No XXXX



20) 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	13			X		30	30	To surface	Kinds	
Fresh water	9 5/8			X		250	250	To surface		
Coal									Sizes	
Intermediate	7		23	X		1250	1250	To surface	100 sks.	
Production	4 1/2		10.5	X		4750	4750	250 sks.	Depths set	
Tubing										
Liners									Perforations:	
									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:       
 My Commission Expires     

Signed: Shannon J. Roberts  
 Its: Geologist

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-105-1032 Date December 6 01/12/2024 82

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 August 6, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>Blanket</u>	Agent: <u>OR</u>	Plat: <u>MJ</u>	Casing: <u>MJ</u>	Fee: <u>419</u>
----------------------	------------------	-----------------	-------------------	-----------------

      
 Administrator, Office of Oil and Gas

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

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.

01/12/2024

Date: \_\_\_\_\_, 19\_\_\_\_

By \_\_\_\_\_


Its \_\_\_\_\_

A-2

Line Item 21) - Pursuant to Code 22-4-11(c) the applicant, Bow Valley Petroleum, in lieu of filing the lease with the permit application, does hereby provide the following information:

- 1.) Gillespie Tract is located in Clay District of Wirt County, West Virginia, containing 85 acres more or less and bounded on the  
North by Vernon and Whiteman  
East by Rex Lands  
South by Floyd Joy  
West by Vernon
  
- 2.) Lessor - Glen W. Roberts (deceased)  
Dorothy Parks Roberts (his wife)  
  
Lessee - Flying Diamond Oil Corporation  
Bow Valley Petroleum is successor in interest.
  
- 3.) Oil and Gas Lease is recorded in Wirt County Recorders office in Book 152 at Page 722.
  
- 4.) Landowners Royalty is 1/8 of all oil and/or gas produced.  
Overriding Royalty is 4% of 8/8ths of all oil and/or gas produced.  
Both are payable to Glen W. Roberts Estate.

I, Dennis K. Dangler, the undersigned, do hereby certify that the above provided information is correct and accurate to the best of my knowledge and belief and shows all the information required by law and regulations issued and prescribed by the Department of Mines.

  
Dennis K. Dangler  
Land Manager

RECEIVED  
DEC 01 1982  
OIL & GAS DIVISION  
DEPT. OF MINES

01/12/2024

RECEIVED  
DEC 01 1985  
DEPT. OF MINES  
OIL & GAS DIVISION

01/12/2024

DATE November 27, 1982  
WELL NO. # W1026  
API NO. 47 - 105 - 1032

State of West Virginia  
Department of Mines  
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME BOW VALLEY PETROLEUM, INC.  
Address 600 COMMERCE SQUARE  
CHARLESTON, WEST VIRGINIA  
Telephone 304-344-8393

DESIGNATED AGENT W. E. STOVER  
Address Box 235  
CULLOGEN, WV  
Telephone 304-562-3376

LANDOWNER WESTUACO CORP.

SOIL CONS. DISTRICT LITTLE KANAWHA

Revegetation to be carried out by BOW VALLEY PETROLEUM, INC. (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 11-29-82 (Date)

Janett Newlon  
(SCD Agent)

ACCESS ROAD

LOCATION

Structure DRAINAGE DITCH (A)

Structure see sketch (1)

Spacing \_\_\_\_\_

Material \_\_\_\_\_

Page Ref. Manual 2-15

Page Ref. Manual \_\_\_\_\_

Structure CULVERT (18") (B)

Structure \_\_\_\_\_ (2)

Spacing \_\_\_\_\_

Material \_\_\_\_\_

Page Ref. Manual 2-8

Page Ref. Manual \_\_\_\_\_

Structure \_\_\_\_\_ (C)

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

Treatment Area I+II

Treatment Area II

Lime 2 Tons/acre  
or correct to pH 6.5

Lime \_\_\_\_\_ Tons/acre  
or correct to pH \_\_\_\_\_

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

Fertilizer \_\_\_\_\_ lbs/acre  
(10-20-20 or equivalent)

Mulch Hay 2 Tons/acre

Mulch \_\_\_\_\_ Tons/acre

Seed\* KENTUCKY 31 FESCUE 45 lbs/acre

Seed\* \_\_\_\_\_ lbs/acre

LADINO CLOVER 3 lbs/acre

\_\_\_\_\_ lbs/acre

RYE 3 lbs/acre

\_\_\_\_\_ lbs/acre

01/12/2024

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

PLAN PREPARED BY WILLIAM F. HENRICHS, III

ADDRESS 600 COMMERCE SQ.  
CHARLESTON, WV

PHONE NO. 304-344-8393

NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

WFO 12/13/82  
(REV 6-81)

ATTACH OR PHOTOCOPY SECTION OF  
INVOLVED TOPOGRAPHIC MAP.  
QUADRANGLE GIRTA

LEGEND

Well Site ⊕

Access Road ———

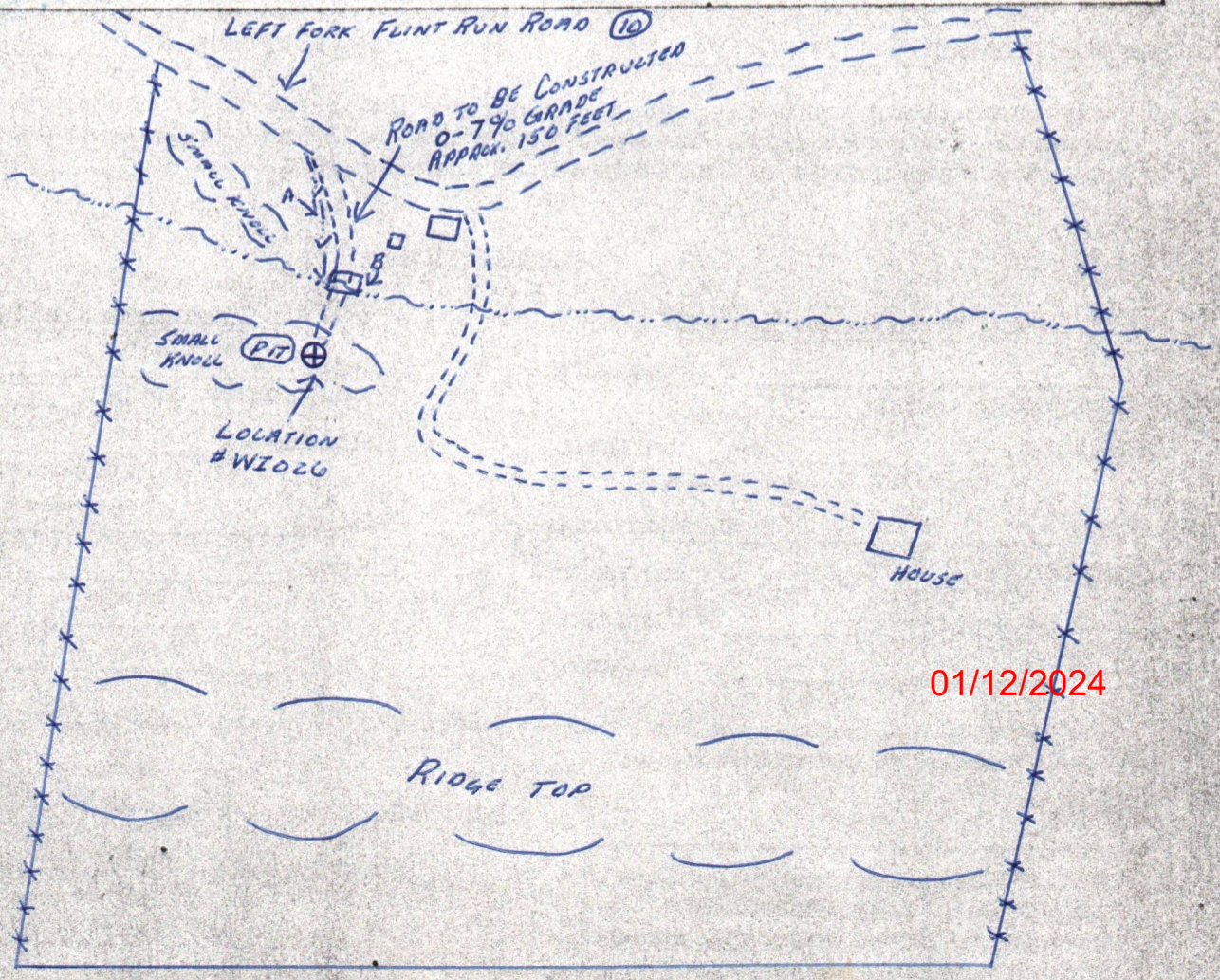
LOCATION IS LOCATED ON TOP  
OF A SMALL BRUSHY KNOW.  
CONSTRUCTION OF LOCATION AND  
ACCESS ROAD WILL REQUIRE VERY  
LITTLE TIMBER TO BE CUT AND A  
MINIMUM OF GRADING

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 ———x———x———	Wet spot Ⓢ
Planned fence ———/———/———/———	Building □
Stream ~~~~~	Drain pipe —○→—○→—○→—
Open ditch ———>———>———>———>———	Waterway ←= = = =





01/12/2024

**RECEIVED**  
DEC 01 1982  
OIL & GAS DIVISION  
DEPT. OF MINES

01/12/2024



RECEIVED

JAN 3 - 1983



IV-35 (Rev 8-81)

OIL AND GAS DIVISION WV DEPARTMENT OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date December 30, 1982 Operator's Well No. WI-026 Farm Gillespie API No. 47 - 105 - 1032

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

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

LOCATION: Elevation: 818.67 Watershed Right fork of Flint Run District: Clay County Wirt Quadrangle Girta

COMPANY Bow Valley Petroleum Inc ADDRESS 600 Commerce Sq. Charleston, WV 25301 DESIGNATED AGENT W. E. Stover ADDRESS Culloden, WV SURFACE OWNER Glen W. Roberts Estate ADDRESS Elizabeth, WV MINERAL RIGHTS OWNER Westvaco ADDRESS Parkersburg, WV OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace ADDRESS Sandridge, WV PERMIT ISSUED 12-7-82 DRILLING COMMENCED 12-13-82 DRILLING COMPLETED 12-21-82

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

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

GEOLOGICAL TARGET FORMATION Devonian Shale - Marcellus Depth 1446'-4676' feet Depth of completed well 4676 feet Rotary x / Cable Tools Water strata depth: Fresh 116 feet; Salt feet Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 1446'-4676' feet Gas: Initial open flow show Mcf/d Oil: Initial open flow Bbl/d Final open flow 400 Mcf/d Final open flow Bbl/d Time of open flow between initial and final tests hours Static rock pressure testing psig(surface measurement) after hours shut in (If applicable due to multiple completion--)

01/12/2024

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)

WIRT - 1032

B-2

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

Well fraced in two stages; each stage consisting of 1,000,000 sft<sup>3</sup> of N<sub>2</sub> with 500 gallons of acid for initial breakdown.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Soil			0	3	
Sand			3	40	
Shale			40	2225	
Sand & Shale			2225	3311	
Shale			3311	4676 TD	
					Electric log tops
					Sunbury Shale 1400'-1446' Dev. Shale 1448'

(Attach separate sheets as necessary)

Bow Valley Petroleum Inc.

Well Operator

By: Marvin Combs 01/12/2024

Date: December 30, 1982

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."

B-3

RECEIVED  
OCT - 4 1983



IV-35  
(Rev 8-81)

OIL & GAS DIVISION  
DEPT. OF MINES

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date December 30, 1982  
Operator's  
Well No. WI-026  
Farm Gillispie  
API No. 47 - 105 - 1032

**REVISED**

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

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

LOCATION: Elevation: 818.67 Watershed Right Fork of Flint Run  
District: Clay County Wirt Quadrangle Girta 75'

COMPANY Bow Valley Petroleum  
ADDRESS 600 Commerce Sq. Charleston, WV  
DESIGNATED AGENT Robert Long  
ADDRESS Culloden, WV  
SURFACE OWNER Glen W. Roberts  
ADDRESS Elizabeth, WV  
MINERAL RIGHTS OWNER West Vaco  
ADDRESS Parkersburg, WV  
OIL AND GAS INSPECTOR FOR THIS WORK Deo  
Mace ADDRESS Sandridge, WV  
PERMIT ISSUED 12-7-82  
DRILLING COMMENCED 12-13-82  
DRILLING COMPLETED 12-21-82  
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"	24	24	15 sks
9 5/8	290.75	290.75	125 sks
8 5/8			
7	1513.60	1513.60	160 sks
5 1/2			
4 1/2		4650.90	280 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale - Marcellus Depth 1446-4676 feet  
Depth of completed well 4676 feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 116 feet; Salt \_\_\_\_\_ feet  
Coal seam depths: N/A Is coal being mined in the area? \_\_\_\_\_

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 1446-4676 feet  
Gas: Initial open flow Show Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 400 Mcf/d 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  
(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

01/12/2024

(Continue on reverse side)

B-4

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

1st. Stage (N<sub>2</sub> Frac)

Perforation Intervals = 30 holes from 3490' - 4523'  
1,080,000 S Ft.<sup>3</sup> of N<sub>2</sub>, 1,200 gallons HCL. (Partial  
ballout) N<sub>2</sub> Injection Rate: 47,000 S Ft.<sup>3</sup>/min.  
Breakdown = 2625#

2nd Stage (N<sub>2</sub> Frac)

Perforation Interval = 26 holes from 1402' - 2912'  
1,000,000 S Ft.<sup>3</sup> of N<sub>2</sub>, 1,100 gallons HCL. (Partial  
ballout) N<sub>2</sub> Injection Rate: 60,000 S Ft.<sup>3</sup>/min.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
<u>Drillers Log</u>					
Soil			0	3	
Sand			3	40	
Shale			40	2225	
Sand & Shale			2225	3311	
Shale			3311	4676 TD	
 <u>Electric Log Tops</u>					
Elev. 819					
K. B. 829					
Salt Sands			460	510	
Maxon Sand			710	824	
Big Lime			835	980	
Injun Sand			980	1012	
Weir Shale (Pocono)			1012	1404	
Sunbury Shale			1404	1446	
Upper Devonian Shales			1446	2836	
Huron Shale			2836	4142	
Rhinestreet			4142	4676 TD	

(Attach separate sheets as necessary)

BOW VALLEY PETROLEUM, INC.

Well Operator

By: Marrin Combs 01/12/2024

Date: December 30, 1982

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

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

DEC 21 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 105-1032

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company Bow Valley

Address \_\_\_\_\_

Farm Roberts

Well No. W1 026

District Clay County Wirt

Drilling commenced 12-14-82

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 3/4			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 Ray Brochus #4

Remarks:  
290' of 9 5/8" To be cemented by Dowell  
Cementing not done & left at 7:30 PM

12-14-82  
DATE

Wes Mace 01/12/2024  
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: \_\_\_\_\_

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

01/12/2024  
DISTRICT WELL INSPECTOR

B-6

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

RECEIVED

DEC 21 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 105-1032

Oil or Gas Well

Company <u>Bow Valley</u>	CASING AND TUBING	LEFT IN WELL	PACKERS
Address _____	Size _____		
Farm <u>Roberts</u>	16 _____		
Well No. <u>W1 026</u>	13 _____		
District <u>Clay</u> County <u>Wirt</u>	10 _____		
Drilling commenced _____	8 1/4 _____		
Drilling completed _____ Total depth _____	6 3/4 _____		
Date shot _____ Depth of shot _____	5 3/16 _____		
Initial open flow _____ /10ths Water in _____ Inch	3 _____		
Open flow after tubing _____ /10ths Merc. in _____ Inch	2 _____		
Volume _____ Cu Ft.	Lanera Used _____		
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____		
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____		
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES		
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES		

Drillers' Names Roy Riss #4

Remarks:  
290' of 9 5/8" 125 SKS Danell 12-14-82  
1513' 7" 125 SKS Danell 12-16-82

12-16-82  
DATE

W. Mace 01/12/2024  
DISTRICT WELL INSPECTOR

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

01/12/2024

DISTRICT WELL INSPECTOR



B-1

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

RECEIVED

DEC 29 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 105-1032

Oil or Gas Well \_\_\_\_\_

Company <u>Bow Valley</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Roberts</u>	16			Kind of Packer _____
Well No. <u>w1 - 026</u>	13			
District <u>clay</u> County <u>mint</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed <u>12-21-82</u> Total depth <u>4696</u>	6 3/4			Top of _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Part top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Part bottom _____
Volume _____ Cu. Ft.	Liners Used			Part top _____
Rock pressure _____ lbs. _____ hrs.				Part bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ FEET _____ No. FT. _____ Date _____			
Fresh water _____ 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 Ray Resources #4

Remarks: Dowell cements 2nd Stage of 4 1/2"  
Dig moving to 105-1042.

12-21-82  
DATE

D. W. Mace  
01/12/2024  
DISTRICT WELL INSPECTOR

**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.

01/12/2024

DISTRICT WELL INSPECTOR

B-11

OG-11

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

INSPECTOR'S WELL REPORT

Permit No. 105-1032

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>Bow Valley</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm <u>Gillespie</u>	16			
Well No. <u>wi 026</u>	13			Size of _____
District <u>Clay</u> County <u>Wirt</u>	10			
Drilling commenced _____	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 5/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used _____			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names \_\_\_\_\_

Remarks:

Release

RECEIVED

JUL 20 1983

OIL & GAS DIVISION  
DEPT. OF MINES

7-14-83

DATE

W. S. Mace  
01/12/2024

DISTRICT WELL INSPECTOR

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

01/12/2024  
 \_\_\_\_\_  
 DISTRICT WELL INSPECTOR

B-12



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

WALTER N. MILLER  
DIRECTOR

THEODORE M. STREIT  
ADMINISTRATOR

August 8, 1983

Bow Valley Petroleum, Inc.  
600 Commerce Square  
Charleston, W. Va. 25301

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>
WIRT-0938	Westvaco, Rex Tract #950	Clay
WIRT-0946	Dennis McGee, #969	Burning Springs
WIRT-0977	Ada Perrin, #979	Clay
WIRT-1032	Westvaco, #W1026	Clay

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

01/12/2024

1.0 Well number: 47-105-1032  
(If not available, leave blank. 14 digits.)

2.0 Type of determination being sought: 107  
(Use the codes found on the front of this form.)  
Section of NGPA

3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.) 4676  
OIL & GAS DIVISION  
DEPT. OF MINES

4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)  
Bow Valley Petroleum Inc. 040189  
Name  
600 Commerce Square Bldg.  
Street  
Charleston WV 25301  
City State Zip Code

5.0 Location of this well: [Complete (a) or (b).]  
(a) For onshore wells (35 letters maximum for field name.)  
BURNING SPRINGS  
Field Name  
WIRT W.VA.  
County State

(b) For OCS wells:  
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.)  
Gillispie WI-026

(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)

6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)  
Columbia Gas Transmission Corporation 004030  
Name Buyer Code

(b) Date of the contract:  
Mo. Day Yr. \_\_\_\_\_

(c) Estimated annual production: \_\_\_\_\_ MMcf

	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	<u>5.420</u>	<u>-.806</u>	<u>-----</u>	<u>6.226</u>
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	<u>5.420</u>	<u>-.806</u>	<u>-----</u>	<u>6.226</u>

9.0 Person responsible for this application:  
Agency Use Only  
Date Received by Juris. Agency  
MAR 1 1983  
Date Received by FERC

Robert N. Hart V.P. General Mgr.  
Name Title  
Robert N. Hart  
Signature  
Date Application is Completed \_\_\_\_\_  
Phone Number \_\_\_\_\_

01/12/2024

PARTICIPANTS:

DATE: JUN 20 1982

BUYER-SELLER CODE

WELL OPERATOR:

Bow Valley Petroleum Inc

040189

FIRST PURCHASER:

Columbia Gas Trans.

004030

OTHER:

Dev.

W. Va. Department of Mines, Oil & Gas Division

WELL DETERMINATION FILE NUMBER

83 03 01 .107.105 : 1032

Use Above File Number on all Communications Relating to Determination of this Well

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121  Items not completed - Line No. 7.0, 8.0 C
- 2. IV-1 Agent  Robert N. Hart
- 3. IV-2 Well Permit
- 4. IV-6 Well Plat
- 5. IV-35 Well Record  Drilling  Deepening
- 6. IV-36 Gas-Oil Test: Gas Only \_\_\_\_\_ Was Oil Produced? \_\_\_\_\_ Ratio \_\_\_\_\_
- 7. IV-39 Annual Production \_\_\_\_\_ years
- 8. IV-40 90 day Production \_\_\_\_\_ Days off line: \_\_\_\_\_
- 9. IV-48 Application for certification. Complete?
- 10-17. IV Form 51 - 52 - 53 - 54 - (55) - 56 - 57 - 58 Complete?  Affidavit Signed
- 18-28. Other: Survey \_\_\_\_\_ Logs \_\_\_\_\_ Geological Charts \_\_\_\_\_  
 Structure Map \_\_\_\_\_ 1: 4000 Map \_\_\_\_\_ Well Tabulations \_\_\_\_\_  
 Gas Analyses \_\_\_\_\_
- (5) Date commenced: 12-13-82 Date completed 12-21-82 Deepened
- (5) Production Depth: 1446 - 4676
- (5) Production Formation: Devonian
- (5) Final Open Flow: 400 mcf
- (5) After Frac. R. P. testing
- (6) Other Gas Test:
- (7) Avg. Daily Gas from Annual Production: \_\_\_\_\_
- (8) Avg. Daily Gas from 90-day ending w/1-120 days \_\_\_\_\_
- (8) Line Pressure: \_\_\_\_\_ PSIG from Daily Repo
- (5) Oil Production: \_\_\_\_\_ From Completion Report \_\_\_\_\_
- 10-17. Does lease inventory indicate enhanced recovery being done No
- 10-17. Is affidavit signed?  Notarized?  01/12/2024
- Does official well record with the Department confirm the submitted information? yes
- Additional information \_\_\_\_\_ Does computer program confirm? \_\_\_\_\_
- Was Determination Objected to \_\_\_\_\_ By Whom? \_\_\_\_\_

Operator's Well No. WI-026

API Well No. 47 - 105 - 1032  
State            County            Permit           

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No.            (If applicable)

WELL OPERATOR Bow Valley Petroleum Inc.

DESIGNATED AGENT Robert N. Hart

ADDRESS 600 Commerce Sq.  
Charleston, WV 25301

ADDRESS 600 Commerce Sq.  
Charleston, WV 25301

Gas Purchase Contract No.            and Date Being negotiated  
(Month, day and year)

Water Chart Code           

Name of First Purchaser Columbia Gas Transmission Corporation

Box 1273  
Charleston (Street or P. O. Box) 25325  
(City) WV (State) (Zip Code)

FERC Seller Code 040189

FERC Buyer Code 004030

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) 107 Section of NGPA 3 Category Code
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Robert Hart Vice President-General Manager  
Name (Print)            title

Robert Hart  
Signature

600 Commerce Sq.  
Street or P. O. Box

Charleston, WV 25301  
City State (Zip Code)

304 344-8393  
Area Code Phone Number

(Certificate of Proof of Service to Purchaser)

Mailed copy to Columbia Gas Transmission - Contract DEpartment c/o Jackie Sydnor

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request,  for certification of the above described well as meeting the requirements of Section            under the Natural Gas Policy Act of 1976 (NGPA);  or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA);  or for determination of a seasonally affected well under Section 108 of (NGPA).

All interested parties are hereby notified that on the            day of           , 19          , at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No.           

Initial review of information submitted indicates the well  is.  is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

MAR 1 1983

Date received by  
Jurisdictional Agency

Director  
By [Signature]  
Title            01/12/2024



Date 1-7-83  
Operator's Well No. WI-026  
API Well No.  
47 - 105 - 1032  
State County Permit

WELL CLASSIFICATION FORM  
HIGH COST GAS WELL - DEVONIAN SHALE  
NGPA Section 107

DESIGNATED AGENT Robert Hart

ADDRESS 600 Commerce Square  
Charleston, WV 25301

LOCATION Elevation 818.67  
Watershed RT. FK. OF FLINT RUN

Dist. CLAY County WIRT Quad. GIRTA

Gas Purchase Contract No. \_\_\_\_\_

Meter Chart Code \_\_\_\_\_

Date of Contract \_\_\_\_\_

WELL OPERATOR Bow Valley Petroleum Inc.

ADDRESS 600 Commerce Square  
Charleston, WV 25301

GAS PURCHASER Columbia Gas Trans. Corp.

ADDRESS Box 1273  
Charleston, WV 25325

\* \* \* \* \*

Date surface drilling began: 12-13-82

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

$$BHP_1 = PWH + PWH \left[ 2.71828 \left( 53.34 \left[ \frac{GL}{2} \frac{TWH + TBH}{2} + 460 \right] \right) - 1 \right]$$

PWH - WELL HEAD PRESSURE  
L - DEPTH TO MIDDLE OF PRODUCING FORM.  
G - SPECIFIC GRAVITY OF THE GAS  
TWH - TEMPERATURE AT WELL HEAD °F  
TBH - TEMPERATURE BOTTOM HOLE °F

BHP<sub>1</sub> = 450.1

AFFIDAVIT

I, MARVIN COMBS, having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in subparagraph (3)(i) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; 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.

Marvin Combs

STATE OF WEST VIRGINIA

COUNTY OF Kanawha, TO-WIT:

I, Helen Mae Brodgrass, a Notary Public in and for the state and county aforesaid, do certify that Marvin Combs, whose name is signed to the writing above, bearing date the 4th day of January, 1983, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 4th day of January, 1983.  
My term of office expires on the 25th day of July, 1988.

(NOTARIAL SEAL)

Helen Mae Brodgrass  
Notary Public

01/12/2024

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
PRICE UNDER THE NATURAL GAS POLICY ACT

Operator: Bow Valley Petroleum Agent: MARVIN COMBS

Type Determination being sought - 107 (Devonian Shale)

API Well No.: 47-105-1032 Well Name: Gillispie WI-026

West Virginia Office of Oil and Gas County: WIRT  
References: SJA File No.

Vol.      Page      Line     

I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 130 \* API Units
2. Remarks:

B. Gamma Ray Log Value at 0.7 x Value at Base Line

1. GR Value = 130 \* API Units
2. Calculation:  $0.7 \text{ (GR Value at Base Line)}$   
 $0.7 \text{ (130 *)} = \underline{91}$  API Units

III. Intervals with GR index less than 0.7 x (Value at Base Line):

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From**	To***		
<u>4676</u>	<u>1448</u>	<u>3228'</u>	<u>22</u>

Total Devonian Interval 3228

Total Less Than 0.7 (Shale Base) 22

% Less Than 0.7 (Shale Base Line) =  $\underline{.006} \times 100 = \underline{.68} \%$

\*Marked on log included with analysis.

01/12/2024

\*\*Top of Devonian Section Recorded on First Interval in this Column.

\*\*\*Lesser of TD or Bottom of Devonian Section Recorded as last Interval in this Column.

1.0 API well number: (If not available, leave blank. 14 digits.) 47-105-1032

2.0 Type of determination being sought: (Use the codes found on the front of this form.) 103  
Section of NGPA \_\_\_\_\_ Category Code \_\_\_\_\_

3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.) 4676 feet

4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)  
Bow Valley Petroleum Inc. 040189  
 Name \_\_\_\_\_ Series Code \_\_\_\_\_  
600 Commerce Square Bldg.  
 Street \_\_\_\_\_  
Charleston WV 25301  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

5.0 Location of this well: [Complete (a) or (b).]  
 (a) For onshore wells (35 letters maximum for field name.)  
BURNING SPRINGS  
 Field Name \_\_\_\_\_  
WIRT W.VA.  
 County \_\_\_\_\_ State \_\_\_\_\_

(b) For OCS wells:  
 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.)  
Gillispie WI-026

(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.) \_\_\_\_\_

6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)  
Columbia Gas Transmission Corporation 004030  
 Name \_\_\_\_\_ Buyer Code \_\_\_\_\_

(b) Date of the contract: \_\_\_\_\_  
 Mo. Day Yr. \_\_\_\_\_

(c) Estimated annual production: \_\_\_\_\_ MMcf

	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	<u>2.710</u>	<u>.403</u>	<u>---</u>	<u>3.113</u>
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	<u>2.710</u>	<u>.403</u>	<u>---</u>	<u>3.113</u>

9.0 Person responsible for this application:  
Robert N. Hart V.P. General Mgr.  
 Name \_\_\_\_\_ Title \_\_\_\_\_  
Robert N. Hart  
 Signature \_\_\_\_\_  
 Date Application is Completed \_\_\_\_\_  
 Phone Number \_\_\_\_\_

Agency Use Only  
 Date Received by Juris. Agency  
**MAR 1 1983**  
 Date Received by FERC

U.S. DEPARTMENT OF ENERGY  
Federal Energy Regulatory Commission  
Washington, D.C. 20426

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)  
(Sections 102, 103, 107 and 108)

PLEASE READ BEFORE COMPLETING THIS FORM:

General Instructions:

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA. A separate application is required for each well. If any reservoir qualifies for a category which differs from the category applicable to the producing well, separate applications must be made for the producing well and the reservoir. Complete each appropriate item on the reverse side of this page. The code numbers used in items 4.0 and 6.0 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Enter any additional remarks in the space below.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 270.103. If there are any questions, call (202) 275-4539.

Specific Instructions for Item 2.0, Type of Determination:

<u>Section of NGPA</u>	<u>Category Code</u>	<u>Description</u>
102	1	New OCS Lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1,000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS Lease
103	-	New onshore production well
107	-	High cost natural gas
108	-	Stripper well

Other Purchasers/Contracts:

<u>Contract Date</u> (Mo. Day Yr.)	<u>Purchaser</u>	<u>Buyer Code</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Remarks:

DATE: JUN 20 1983

BUYER-SELLER CODE

PARTICIPANTS:

WELL OPERATOR:

Bow Valley Petroleum

040189

FIRST PURCHASER:

Columbia Gas Trans.

004030

OTHER:

1500'

~~1500'~~

W. Va. Department of Mines, Oil & Gas Division  
WELL DETERMINATION FILE NUMBER

830301-103-105 = 1032

Use Above File Number on all Communications  
Relating to Determination of this Well

~~\*22 1/2 ft formation not listed by me~~  
~~\*The best record available~~

APPROVED

JUN -7 1984

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

1. FERC -121  Items not completed - Line No. 20, 800

2. IV-1 Agent Robert Hart

3. IV-2 Well Permit

4. IV-6 Well Plat

5. IV-35 Well Record  Drilling  Deepening

6. IV-36 Gas-Oil Test: Gas Only \_\_\_\_\_ Was Oil Produced? \_\_\_\_\_ Ratio \_\_\_\_\_

7. IV-39 Annual Production \_\_\_\_\_ years

8. IV-40 90 day Production \_\_\_\_\_ Days off line: \_\_\_\_\_

9. IV-48 Application for certification. Complete?

10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? \_\_\_\_\_ Affidavit Signed \_\_\_\_\_

13-28. Other: Survey \_\_\_\_\_ Logs \_\_\_\_\_ Geological Charts \_\_\_\_\_

Structure Map \_\_\_\_\_ 1: 4000 Map \_\_\_\_\_ Well Tabulations \_\_\_\_\_

Gas Analyses \_\_\_\_\_

(5) Date commenced: 12-13-82, Date completed 12-21-82 Deepened \_\_\_\_\_

(5) Production Depth: 1446 - 4676

(5) Production Formation: Devonian

(5) Final Open Flow: 400 mcf

(5) After Frac. R. P. testing

(6) Other Gas Test:

(7) Avg. Daily Gas from Annual Production:

(8) Avg. Daily Gas from 90-day ending w/1-120 days \_\_\_\_\_

(8) Line Pressure: \_\_\_\_\_ PSIG from Daily Rep \_\_\_\_\_

(5) Oil Production: \_\_\_\_\_ From Completion Report \_\_\_\_\_

10-17. Does lease inventory indicate enhanced recovery being done No

10-17. Is affidavit signed?  Notarized?

01/12/2024

Does official well record with the Department confirm the submitted information? yes

Additional information \_\_\_\_\_ Does computer program confirm? \_\_\_\_\_

Was Determination Objected to \_\_\_\_\_ By Whom? \_\_\_\_\_

Date 1-4- 1983  
Operator's Well No. WI-026  
API Well No. 47 - 105 - 1032  
State County Permit  
Previous File No. \_\_\_\_\_ (If Applicable)

STATE APPLICATION FOR WELL CLASSIFICATION

WELL OPERATOR Bow Valley Petroleum Inc.  
ADDRESS 600 Commerce Sq.  
Charleston, WV 25301

DESIGNATED AGENT Robert N. Hart  
ADDRESS 600 Commerce Sq.  
Charleston, WV 25301

Gas Purchase Contract No. \_\_\_\_\_ and Date Being negotiated  
(Month, day and year)

Meter Chart Code \_\_\_\_\_  
Name of First Purchaser Columbia Gas Transmission Corporation  
Box 1273  
Charleston (Street or P. O. Box) WV 25325  
(City) (State) (Zip Code)

FERC Seller Code 040189 FERC Buyer Code 004030

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) Section of NGPA 103 Category Code \_\_\_\_\_
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Robert Hart Vice President-General Manager  
Name (Print) Title  
Robert Hart Signature  
600 Commerce Sq.  
Street or P. O. Box  
Charleston, WV 25301  
City State (Zip Code)  
304 344-8393  
Area Code Phone Number

(Certificate of Proof of Service to Purchaser)

Mailed copy to Columbia Gas Transmission - Contract Department c/o Jackie Sydnor

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request,  for certification of the above described well as meeting the requirements of Section \_\_\_\_\_ under the Natural Gas Policy Act of 1976. (NGPA);  or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA);  or for determination of a seasonally affected well under Section 108 of (NGPA).

All interested parties are hereby notified that on the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. \_\_\_\_\_

Initial review of information submitted indicates the well  is,  is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

MAR 1 1983

ate received by  
Jurisdictional Agency

By [Signature] Director  
Title \_\_\_\_\_  
01/12/2024

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

Date 1-4 1983

Operator's Well No. WI-026

API Well No. 47 - 105 - 1032  
State County Permit

WELL CLASSIFICATION FORM  
NEW ONSHORE PRODUCTION WELL  
MCPA Section 103

DESIGNATED AGENT Robert Hart  
ADDRESS 600 Commerce Sq.  
Charleston, WV 25301

WELL OPERATOR Box Valley Petroleum Inc  
ADDRESS 600 Commerce Sq.  
Charleston, WV 25201

LOCATION: Elevation 818.67  
Watershed RT. FK. OF FLINT RUN  
Dist. CLAY County WIET Quad GIRTA

GAS PURCHASER Columbia Gas Trans. Corp.  
ADDRESS Box 1273  
Charleston, WV 25325

Gas Purchase Contract No. \_\_\_\_\_  
Meter Chart Code \_\_\_\_\_  
Date of Contract \_\_\_\_\_

\* \* \* \* \*

Date surface drilling was begun: 12-13-82

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

$BHP_2 = PWH + PWH \left[ \frac{(0.0000347 \text{ G L})}{2.71828} - 1 \right]$  WHERE

0.0000347 IS A FACTOR TAKING INTO ACCOUNT TEMPERATURE AND SUPERCOMPRESSIBILITY.

$BHP_2 = 450.1$

- PWH - WELL HEAD PRESSURE
- L - DEPTH TO MIDDLE OF PRODUCING FORM.
- G - SPECIFIC GRAVITY OF THE GAS
- TWH - TEMPERATURE AT WELL HEAD OF
- TBH - TEMPERATURE BOTTOM HOLE OF

AFFIDAVIT

I, MARVIN COMBS

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.

Marvin Combs

STATE OF West Virginia  
COUNTY OF Kanawha TO WIT:

I, Kelen MacBrodgras a Notary Public in and for the state and county aforesaid, do certify that Marvin Combs whose name is signed to the writing above, bearing date the 4th day of January, 1983, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 4th day of January, 1983.

My term of office expires on the 25th day of July, 1985.

01/12/2024

Kelen MacBrodgras  
Notary Public.

[NOTARIAL SEAL]

FORM IV-1

DESIGNATION OF AGENT BY WELL OWNER OR OPERATOR

Well Operator \_\_\_ / Owner X / Bow Valley Petroleum Inc.  
Address 600 Commerce Square  
Charleston, West Va. 25301

Pursuant to the provisions of Code § 22-4-1k, and subject to the requirements of Regulation 7.01, the undersigned hereby designates the following person to be the agent of the undersigned for the purpose of receiving process, notices, orders and other communications which may be issued under Chapter 22 of the Code of West Virginia:

Designated Agent Robert Hart  
Address 600 Commerce Square  
Charleston, West Virginia 25301  
Telephone 304 344-8393

The undersigned represents that said designated agent is a bona fide resident of the State of West Virginia, and has agreed to accept the designation. This designation applies to the following wells

- all wells owned or operated by the undersigned in West Virginia
- the wells listed below (Use space below or reverse side or attach list)

[COMPLETE AS APPLICABLE]

The undersigned is hereby recording an existing designation of agent made prior to the initial adoption of Form IV-1.

The undersigned is proposing to own or operate wells in West Virginia for the first time, so that this designation should also be considered the registration by the undersigned with the Deputy Director.

The undersigned has owned and operated a well or wells in West Virginia since the year 19\_\_\_, but has not heretofore appointed a designated agent.

This designation substitutes a new designated agent for the undersigned, who has owned or operated a well or wells in West Virginia since the year 19\_\_\_. The present designated agent of the undersigned, who will continue as such, if he is able, until this new designation has been approved, is--

Agent being replaced \_\_\_\_\_  
Address \_\_\_\_\_

Bow Valley Petroleum Inc.  
Well Owner or Operator  
By: R. N. Hart  
Its: Vice President-General 01/12/2024

ACCEPTED this January 4, 1983

R. N. Hart  
(Signature of designated agent)

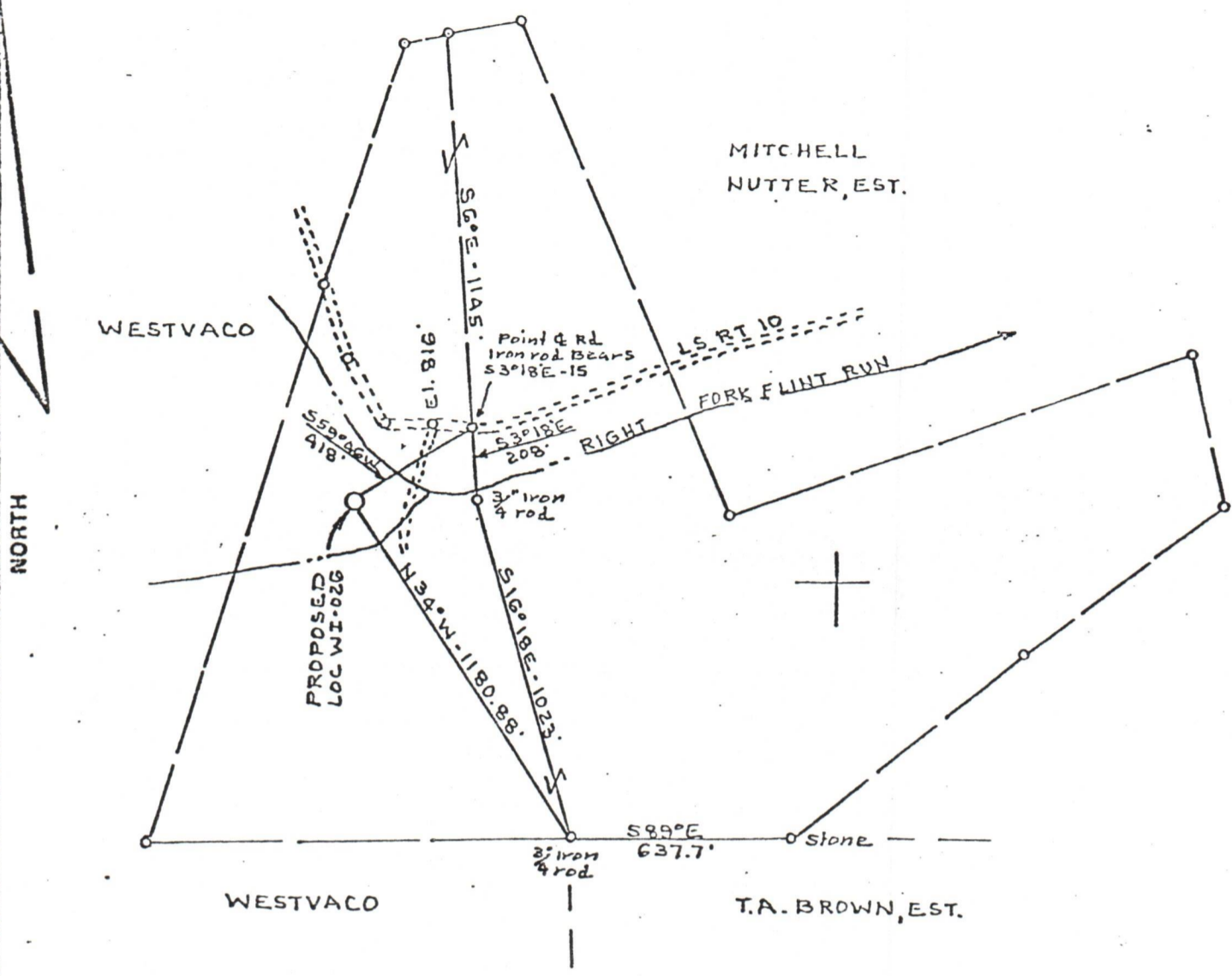
Witnessed, subscribed and sworn to before me this 4<sup>th</sup> day of January, 1983.  
Notary Public Helen Mae Snodgrass My commission expires July 25, 1988



1-026

LATITUDE 39°07'30"

LONGITUDE 91°17'30"



FILE NO. Bx 73 PG 101  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1-200'  
 PROVEN SOURCE OF ELEVATION USGS BM  
Road Forks 300' N.E.  
Loc. E1 816.00'

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) C. S. Valley Jr.  
 R.P.E. \_\_\_\_\_ E.L.S. 92

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78)



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE NOV 27, 1982  
 OPERATOR'S WELL NO. WI-026  
 API WELL NO. \_\_\_\_\_  
47 - 105 - 1032  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 818.67 WATER SHED RIGHT FORK OF FLINT RUN  
 DISTRICT CLAY COUNTY WIRT  
 QUADRANGLE GIRTA 7.5'  
 SURFACE OWNER WESTVACO ACREAGE 20  
 OIL & GAS ROYALTY OWNER GLEN W. ROBERTS ESTATE LEASE ACREAGE 85  
 LEASE NO. 1862  
 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 MARCELLUS ESTIMATED DEPTH 4800'  
 WELL OPERATOR RDW VALLEY PETRO. INC. DESIGNATED AGENT W.E. STOVER  
 ADDRESS 600 COMMERCE SQUARE ADDRESS BOX 235

01/12/2024



IV-35  
(Rev 8-81)

Date December 30, 1982  
Operator's  
Well No. WI-026  
Farm Gillispie  
API No. 47 - 105 - 1032

State of West Virginia  
Department of Mines  
Oil and Gas Division

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

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

LOCATION: Elevation: 818.67 Watershed Right Fork of Flint Run  
District: Clay County Wirt Quadrangle Girta 75'

COMPANY Bow Valley Petroleum  
ADDRESS 600 Commerce Sq. Charleston, WV  
DESIGNATED AGENT Robert Long  
ADDRESS Culloden, WV  
SURFACE OWNER Glen W. Roberts  
ADDRESS Elizabeth, WV  
MINERAL RIGHTS OWNER West Vaco  
ADDRESS Parkersburg, WV  
OIL AND GAS INSPECTOR FOR THIS WORK Deo  
Mace ADDRESS Sandridge, WV  
PERMIT ISSUED 12-7-82  
DRILLING COMMENCED 12-13-82  
DRILLING COMPLETED 12-21-82  
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"	24	24	15 sks
9 5/8	290.75	290.75	125 sks
8 5/8			
7	1513.60	1513.60	160 sks
5 1/2			
4 1/2		4650.90	280 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale - Marcellus Depth 1446-4676 feet  
Depth of completed well 4676 feet Rotary X / Cable Tools     
Water strata depth: Fresh 116 feet; Salt    feet  
Coal seam depths: N/A Is coal being mined in the area?   

OPEN FLOW DATA  
Producing formation Devonian Shale Pay zone depth 1446-4676 feet  
Gas: Initial open flow Show Mcf/d Oil: Initial open flow    Bbl/d  
Final open flow 400 Mcf/d 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  
(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

01/12/2024

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

1st. Stage (N<sub>2</sub> Frac)

Perforation Intervals = 30 holes from 3490' - 4523'  
 1,080,000 S Ft.<sup>3</sup> of N<sub>2</sub>, 1,200 gallons HCL. (Partial  
 ballout) N<sub>2</sub> Injection Rate: 47,000 S Ft.<sup>3</sup>/min.  
 Breakdown = 2625#

2nd Stage (N<sub>2</sub> Frac)

Perforation Interval = 26 holes from 1402' - 2912'  
 1,000,000 S Ft.<sup>3</sup> of N<sub>2</sub>, 1,100 gallons HCL. (Partial  
 ballout) N<sub>2</sub> Injection Rate: 60,000 S Ft.<sup>3</sup>/min.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
<u>Drillers Log</u>					
Soil			0	3	
Sand			3	40	
Shale			40	2225	
Sand & Shale			2225	3311	
Shale			3311	4676 TD	
 <u>Electric Log Tops</u>					
Elev. 819					
K. B. 829					
Salt Sands			460	510	
Maxon Sand			710	824	
Big Lime			835	980	
Injun Sand			980	1012	
Weir Shale (Pocono)			1012	1404	
Sunbury Shale			1404	1446	
Upper Devonian Shales			1446	2836	
Huron Shale			2836	4142	
Rhinestreet			4142	4676 TD	

(Attach separate sheets as necessary)

BOW VALLEY PETROLEUM, INC.

Well Operator

By: Maria Combs 01/12/2024

Date: December 30, 1982

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  
 all, encountered in the drilling of a well."