



1) Date: December 6, 1982
 2) Operator's Well No. WI-023
 3) API Well No. 47 State 105 County 1035 Permit

DRILLING CONTRACTOR:
 Ray Resources
 Charleston, WV

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: 1174.68' Watershed: Burning Springs Run
 District: Burning Springs County: Wirt Quadrangle: Burning Springs
- 6) WELL OPERATOR Bow Valley Petroleum Inc. 11) DESIGNATED AGENT W. E. Stover
 Address 600 Commerce Sq. Address Culloden, WV
 Charleston, WV
- 7) OIL & GAS ROYALTY OWNER Glen W. Roberts Estate 12) COAL OPERATOR N/A
 Address Box 92 Address
 Elizabeth, WV 26143
- 8) SURFACE OWNER Stam Curtis 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address 29575 Dorchester Dr. Name
 North Olmsted, Ohio 44070 Address
 Acreage 36.49
- 9) FIELD SALE (IF MADE) TO:
 Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name Deo Mace Name
 Address Sandridge, WV Address
- 15) PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Marcellus-Devonian Shale
- 17) Estimated depth of completed well, 5500 feet
 18) Approximate water strata depths: Fresh, 73 feet; salt, feet.
 19) Approximate coal seam depths: N/A Is coal being mined in the area? Yes / No

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'	20 sks.	Kinds
Fresh water	9 5/8"			X		275'	275'	to surface	
Coal									Sizes
Intermediate	7"			X		2050'	2050'	to surface	
Production	4 1/2"	K-55	10.5	X		5500'	5500'	275 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: Martin Combs
 Its: Geologist

OFFICE USE ONLY

Permit number 47-105-1035 DRILLING PERMIT Date December 9 01/12/2024 1982

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 9, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: Blauket	Agent: OK LS	Plat: [Signature]	Casing: [Signature]	Fee: 425
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[Signature]
 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 _____

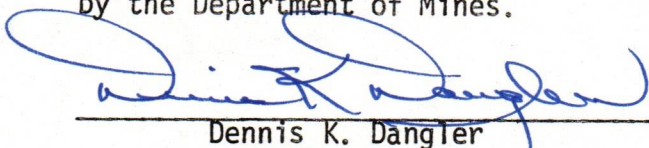
Am

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.) Smith Tract is located in Burning Springs District of Wirt County, West Virginia, containing 165 acres more or less, and bounded on the
North by Charles Reynolds
East by Willard White
South by Fred Kirby
West by Clarence Scott
- 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 06 1982
OIL & GAS DIVISION
DEPT. OF MINES

01/12/2024



DATE DECEMBER 2, 1982

WELL NO. # W1023

State of West Virginia API NO. 47 - 105 - 1035

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME BOW VALLEY PETROLEUM, INC.
Address 600 COMMERCIAL SQ.
CHARLESTON, WV
Telephone 304-344-8393

DESIGNATED AGENT W.E. STOVER
Address BOX 235
CULLODEN, WV
Telephone 304-562-3376

LANDOWNER STAM C. CURTIS

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: 12-4-82 (Date)

Jarrett Newton
(SCD Agent)

ACCESS ROAD

LOCATION

Structure see comment (A)

Structure see sketch (1)

Spacing _____

Material _____

Page Ref. Manual _____

Page Ref. Manual _____

Structure _____ (B)

Structure _____ (2)

Spacing _____

Material _____

Page Ref. Manual _____

Page Ref. Manual _____

Structure _____ (C)

Structure _____ (3)

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 5 lbs/acre

_____ lbs/acre

RYE 5 lbs/acre

_____ lbs/acre

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

01/12/2024

PLAN PREPARED BY WILLIAM F. HENRICHS, III

ADDRESS 600 COMMERCIAL 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.

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE BURNING SPRINGS

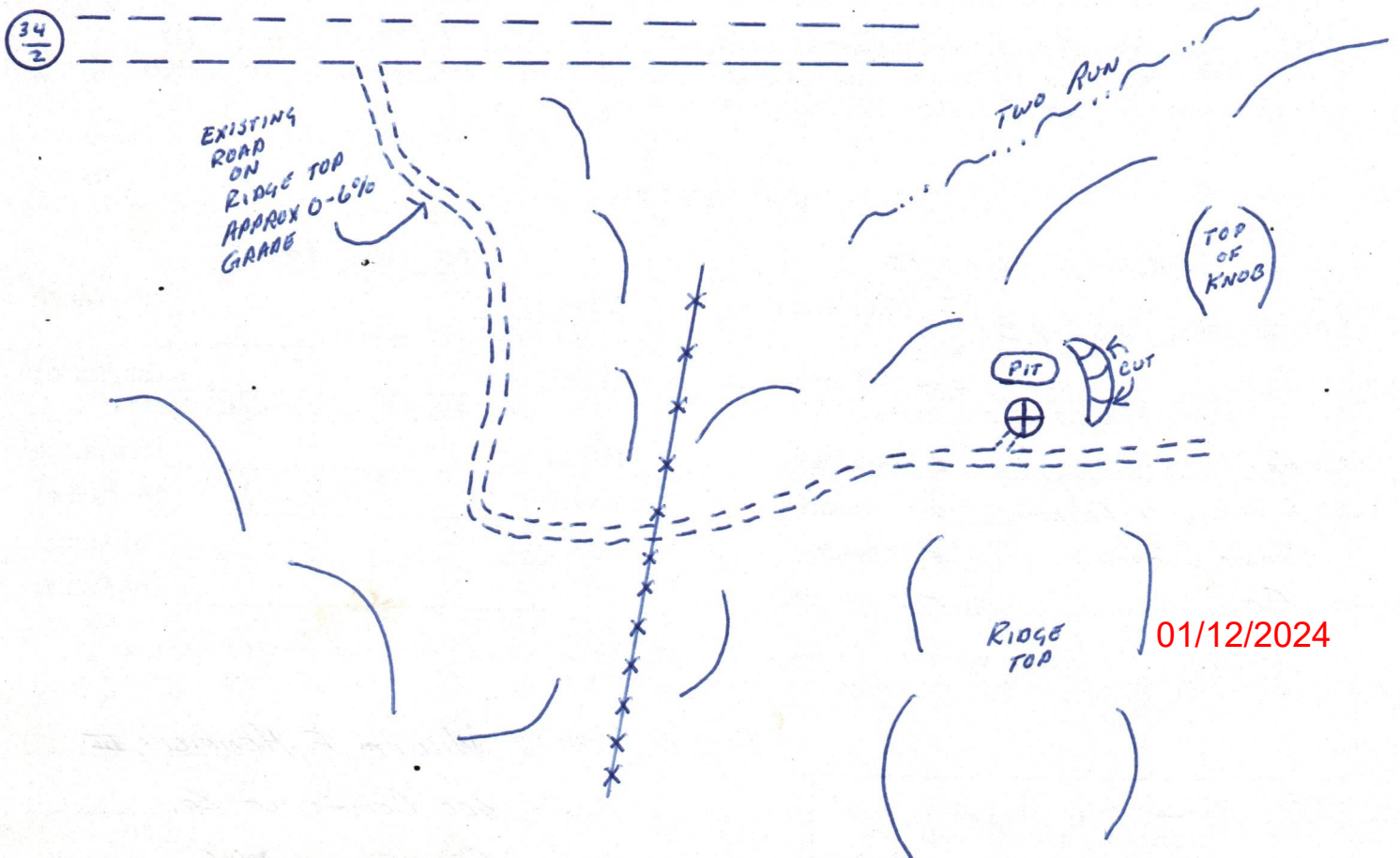
LEGEND	
Well Site	⊕
Access Road	—

LOCATION IS SLIGHTLY BELOW THE TOP OF THE KNOB. ACCESS ROAD WILL FOLLOW AN EXISTING ROAD ALONG THE RIDGE TOP. ALL TIMBER DISTURBED WILL BE CUT AND STALKED.

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	←≡≡≡≡



13-1



IV-35
(Rev 8-81)

Date January 13, 1984
Operator's
Well No. WI023
Farm Smith (Roberts)
API No. 47 - 105 - 103

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 X / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production X / Underground Storage / Deep / Shallow X /

LOCATION: Elevation: 1174 Watershed Burning Springs Run
District: Burning Springs County Wirt Quadrangle Burning Springs

COMPANY Bow Valley Petroleum, Inc.
ADDRESS 600 Commerce Sq. Charleston, WV.
DESIGNATED AGENT Robert Long
ADDRESS P.O. Box 235, Culloden, WV.
SURFACE OWNER Stan Curtis
ADDRESS 19575 Dorchester Dr., Olmsted, Ohio
MINERAL RIGHTS OWNER Geln Roberts Estate
ADDRESS Box 92, Elizabeth, West Virginia
OIL AND GAS INSPECTOR FOR THIS WORK Deo
Mace ADDRESS Sandridge, WV.

ISSUED 1/9/83
DRILLING COMMENCED 1/11/83
DRILLING COMPLETED 3/24/83

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	18	18	20sk
13-10"			
9 5/8	298	298	100sk
8 5/8			
7	2054	2054	150sk
5 1/2			
4 1/2	5383	5383	250sk foam ceme
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Shale Depth 5380' feet
Depth of completed well 5444' feet Rotary X / Cable Tools
Water strata depth: Fresh feet; Salt 1740 feet
Coal seam depths: 1330 Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Devonian Shale 400 Pay zone depth 5256-3182 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 231 Mcf/d Final open flow 14 Bbl/d
Time of open flow between initial and final tests hours

Static rock pressure 310 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)

01/12/2024

DRILLING OR STIMULATING, PHYSICAL CHANGE, ETC.

1.5 drop acid. Frac with 1,080,000 SCFN²
1000'.

1.5 drop acid, frac with 1,100,000 SCF N²
1400.

WELL LOG

DEPTH	BOTTOM FEET	REMARKS
		Including indication of all fresh and salt water, coal, oil and gas
	20	
	100	
	1330	
	1340	Water @ 1740' <i>salt</i>
	1675	
	1778	
	1786	
	1830	
	1880	
	1950	
	5380	
	5444	<u>Electric Log</u>
		Lime Base 1827' <i>345</i>
		Injun 1970' <i>365</i>
		<u>Sunbury Base 2366'</u>
		Garden Zone 2686-2748 <i>419</i>
		<u>Marcellus 5382'</u> <i>455</i>

(on separate sheets as necessary)

Valley Petroleum, Inc.

Well Operator

Bart Roberts

Date: January 13, 1984

as follows:
"log" shall mean a systematic
of all formations, including
logging of a well."

B-12



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

RECEIVED
OCT 16 1984
OIL & GAS DIVISION
DEPT. OF MINES

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
July 13, 1984

COMPANY Bow Valley Petroleum, Inc.
600 Commerce Square
Charleston, West Virginia 25301

PERMIT NO 105-1035
FARM & WELL NO Smith WI023
DIST. & COUNTY Burning Springs/Wirt

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work		
25.04	Prepared before Drilling to Prevent Waste		
25.03	High-Pressure Drilling		
16.01	Required Permits at Wellsite		
15.03	Adequate Fresh Water Casing		
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing		
15.04	Adequate Cement Strenght		
15.05	Cement Type		
23.02	Maintained Access Roads	✓	
25.01	Necessary Equipment to Prevent Waste	✓	
23.04	Reclaimed Drilling Pits	✓	
23.05	No Surface or Underground Pollution	✓	
23.07	Requirements for Production & Gathering Pipelines	✓	
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings	✓	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Homer H. Dougherty
DATE 10/9/84

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

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

January 4, 1985

DATE

1.0 API well number: (If not available, leave blank. 14 digits.)	<u>47 105 1035</u>																		
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	<u>107</u> Section of NGPA	<div style="border: 2px solid black; padding: 5px; display: inline-block; font-weight: bold; font-size: 1.2em;">RECEIVED</div> Category Code																	
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	<u>5256</u> 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. Name 600 Commerce Square Street Charleston, WV 25301 City State Zip Code		OIL & GAS DIVISION DEPT. OF MINES Seller Code 04030																
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	<u>BURNING SPRINGS</u> Field Name <u>WIRT</u> <u>WV</u> 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.)	<u>Smith-Roberts WI-023</u>																		
(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 Corp Name		04030 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>5.718</u>	---	---	---														
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)		<u>5.718</u>	---	---	---														
9.0 Person responsible for this application:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; padding: 5px; text-align: center;">Agency Use Only</td> <td colspan="3" style="padding: 5px;"> Robert Hart Name _____ Signature </td> <td style="padding: 5px;"> General Mgr.-V.P. Title </td> </tr> <tr> <td style="padding: 5px;">Date Received by Juris. Agency</td> <td colspan="4" style="padding: 5px;"> _____ Date Application is Completed </td> </tr> <tr> <td style="padding: 5px;">Date Received by FERC</td> <td colspan="4" style="padding: 5px; text-align: right;"> (304) 344-8393 Phone Number </td> </tr> </table>				Agency Use Only	Robert Hart Name _____ Signature			General Mgr.-V.P. Title	Date Received by Juris. Agency	_____ Date Application is Completed				Date Received by FERC	(304) 344-8393 Phone Number			
Agency Use Only	Robert Hart Name _____ Signature			General Mgr.-V.P. Title															
Date Received by Juris. Agency	_____ Date Application is Completed																		
Date Received by FERC	(304) 344-8393 Phone Number																		

01/12/2024

PARTICIPANTS:

DATE: _____

BUYER-SELLER CODE

WELL OPERATOR:

Bow Valley Petroleum, Inc. APR 25 1984

040189

FIRST PURCHASER:

Columbia Gas Trans.

004030

OTHER: _____

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

840305-107-105-1035

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

OK

APPROVED

APR 27 1984

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

1. FERC -121 _____ Items not completed - Line No. _____

2. IV-1 Agent _____

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: _____ Date completed _____ Deepened _____

(5) Production Depth: _____

(5) Production Formation: _____

(5) Final Open Flow: _____

(5) After Frac. R. P. _____

(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 Re

(5) Oil Production: _____ From Completion Report _____

10-17. Does lease inventory indicate enhanced recovery being done _____

10-17. Is affidavit signed? _____ Notarized? _____

Does official well record with the Department confirm the submitted information? 01/12/2024

Additional information _____ Does computer program confirm? _____

Was Determination Objected to _____ By Whom? _____

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

Date 2/21/ 1984
Operator's Well No. WI-023
API Well No. 47 - 105 - 1035
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 _____ FERC Buyer Code _____

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) Section of 107 NGPA 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 5 1984

Date received by Jurisdictional Agency

By [Signature]
Title _____

01/12/2024

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 _____
Watershed _____

WELL OPERATOR Row Valley Petroleum Inc.

ADDRESS 600 Commerce Square
Charleston, WV 25301

Dist. _____ County _____ Quad. _____

Gas Purchase
Contract No. _____

GAS PURCHASER Columbia Gas Trans. Corp.

ADDRESS Box 1273
Charleston, WV 25325

Meter Chart Code _____

Date of Contract _____

* * * * *
Date surface drilling began: 1/11/83

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

$$BHP_1 = PWH + PWH \left[\frac{.6 \cdot 3100 \cdot G \cdot L}{2 \cdot [TWH + TBH] + 460} \right] - 1$$

310 310
BHP₁ = PWH + PWH 2.71828

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

BHP₁ = 336

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 Snodgrass, 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 21 day of February, 19 84 01/12/2024 acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 29th day of February, 19 84.
My term of office expires on the 25th day of July, 19 88.

(NOTARIAL SEAL)

Helen Mae Snodgrass
Notary Public

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.: 47-105-1035

Well Name: Smith-Roberts WI-023

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

County: WIRT

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 = 140 * API Units
2. Remarks:

@ 200 API SCALE

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

1. GR Value = 140 * API Units
2. Calculation: $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (140*)}} = \underline{99}$ 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>5444'</u>	<u>2366'</u>	<u>3078'</u>	<u>22'</u>

Total Devonian Interval 3078'

Total Less Than 0.7 (Shale Base)

% Less Than 0.7 (Shale Base Line) = $\frac{22}{3078} \times 100 = \underline{7.147\%}$

*Marked on log included with analysis.

**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.

01/12/2024

Plat 12/8/82

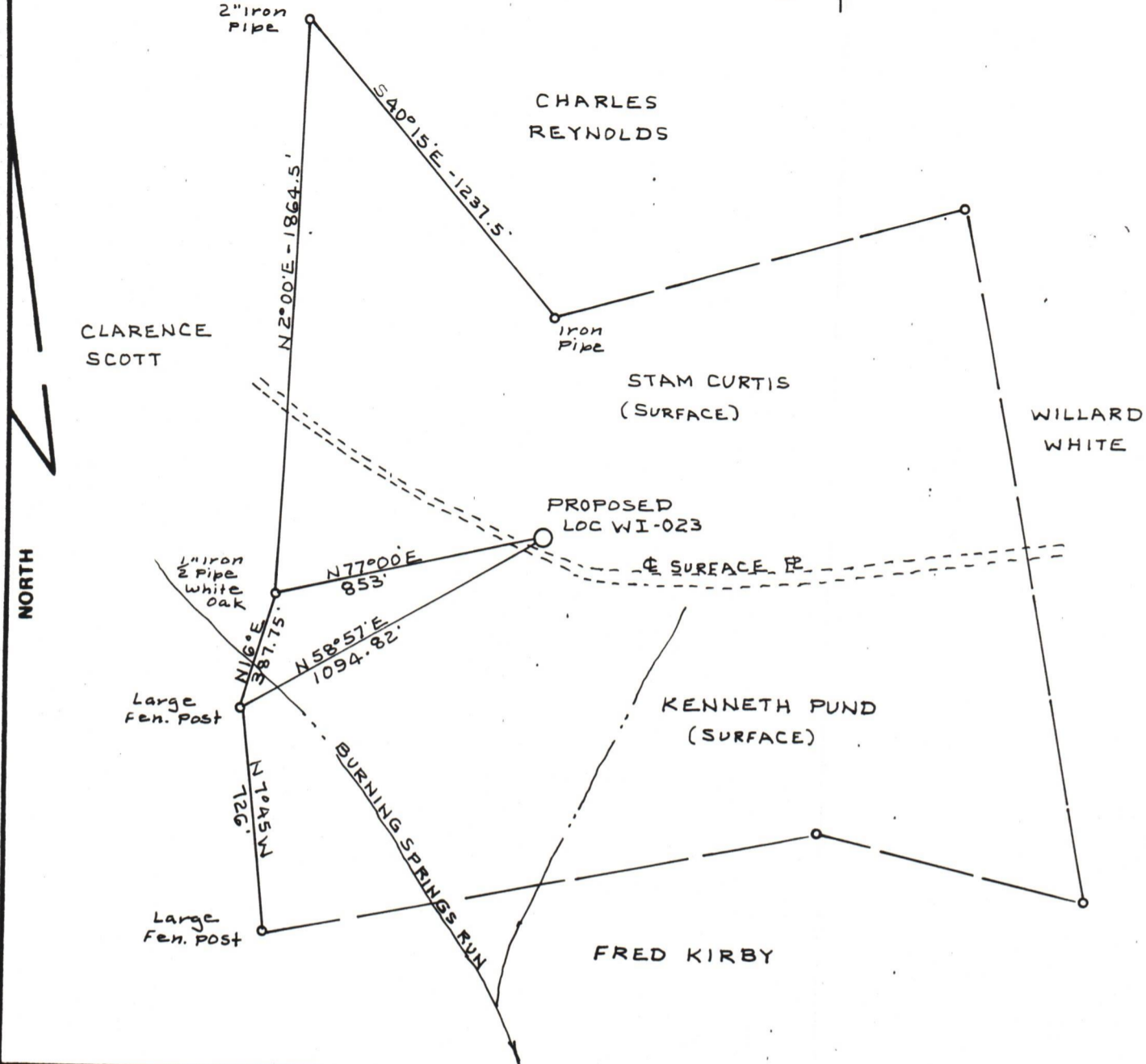
700'
200'

LATITUDE 39°00'00"

15'

LONGITUDE 81°17'30"

NORTH



FILE NO. BK 74 PG 18
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1-200'
 PROVEN SOURCE OF ELEVATION USGS B.M. 52 WSM at Ruble Church E. 11045.0

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. Y. Volney Jr.
 R.P.E. _____ U.S. 92

PLACE SEAL HERE

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



DATE DEC 3, 19 82
 OPERATOR'S WELL NO. WI-023
 API WELL NO. _____
47 - 105 - 1035
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1174.68' WATER SHED BURNING SPRING RUN
 DISTRICT BURNING SPRINGS COUNTY WIRT
 QUADRANGLE BURNING SPRINGS 7.5'
 SURFACE OWNER STAM CURTIS ACREAGE 36.49
 OIL & GAS ROYALTY OWNER GLEN W ROBERTS, ESTATE LEASE ACREAGE 165 LEASE NO. 1849 01/12/2024
 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 DEVONIAN SHALE ESTIMATED DEPTH 5500'
 WELL OPERATOR BOW VALLEY PETRO. INC DESIGNATED AGENT W.E. STOVER
 ADDRESS 600 COMMERCE SQUARE ADDRESS BOX 235
CHARLESTON, WVA. 25301 CULLODEN, WVA 25510

B-4

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

RECEIVED

MAR 22 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 105-1035

Oil or Gas Well _____
(KIND)

Company Bow Valley

Address _____

Farm B. Roberts

Well No. W1 023

District Burnin' Sp. County Wirt

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			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 Des. #14

Remarks:

295' of 9 5/8" casing, cemented with 100 SWS by Powell

3-17-83

Cement circulated 2:30 PM

3-17-83

DATE

Des 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 _____

DISTRICT WELL INSPECTOR

01/12/2024