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2) Operator's Well No. - XXXX XXXXXX WI-008
3) API Well No. 47 105 1011

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named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application t	the Department	pplication to the l	of this Permit Apr	ailing or delivery	the day of the	on or befo	lessee	, and coal	l owner(s)	perator, coal	named coal or
Mines at Charleston, West Virginia.	1	2/1/2	# 1	111					t Virginia	rleston, West	Mines at Char
Notary: Signed: Morllon Let vot	10	trolly	ullon ()	gned: Mar	enpileo: ship	38 1016	2 10	here ve	in the	evi lega	Notary:
My Commission Expires Its: Geologist	onw	vio has record	logist	Its: Geo	73 10 (*)	COUNTY S	State	92-25	north (Expires	My Commission
too falt tgioper for	days	days of receipt	Land Artig								A 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
OFFICE USE ONLY						applications and a second					
47-105-1011 DRILLING PERMIT November 16											

Permit number 47-105-1011 DRILLING PERMIT November 16
Date 01/12/2024

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal representation of the permit of

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	XX July	16, 1983	unless	drilling is commenced prior to that date and prosecuted with date diligence.
Bond: Blanket	Agent: CX	Plat:	Casing Fee 401	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 then 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.
 - 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 u	inder this well location in	4 as ex-
amined this proposed well location. If added to the mine map. The undersign	a mine map exists w	thich covers the are	a of the well locati	on, the well location has	been
operator has complied with all applica					
Courties of the most so dear are found to	The state of the s	1011	111 / 111	A 1000 1000 1000 1000 1000 1000 1000 10	Tool
Date:, 19	and the second	Ву		2- 10400	1 100
		The			

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP.

QUADRANGLE KANAUMA

IEGEND
Well Site ()
Access Road — —

WELL SITE PLAN

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

LEGEND	
Property boundary	Diversion ANNINNIN
Road = = = = =	Spring O→
Existing fence X	Wet spot 🖔
Planned fence —//	Building
Stream \	Drain pipe 0 > 0 >
Open ditch>>	Waterway ←⇒==

. 01/12/2024



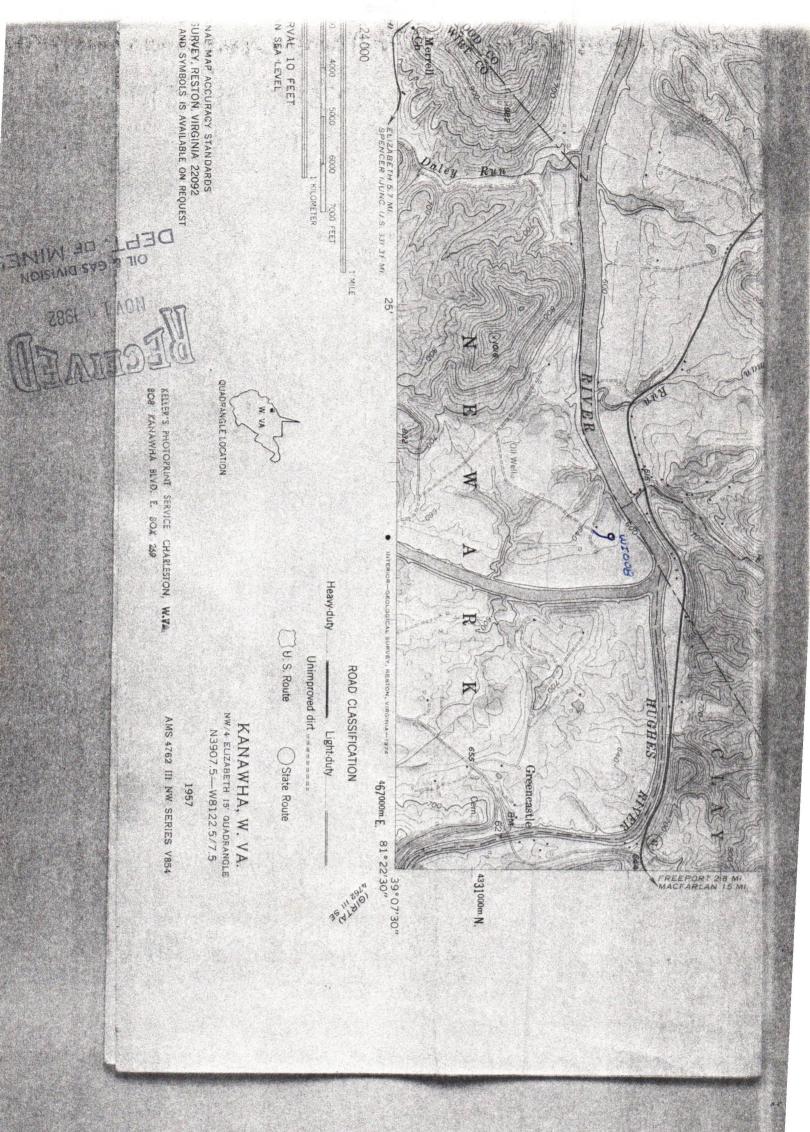
DATE <u>OCTOBER 25, 1982</u>
WELL NO. <u>WI 008</u>

API NO. 47-105

State of Mest Firginia Pepartment of Mines Gil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME BOW VALLEY PETROLEUM, IN	DES	IGNATED AGEN	T W.E. STOVER	,
Address CHARLESTON, WY		Address	BOX 235 CULLODEN, WV	
Telephone 304-344-8393		Telephone 30	4-562-3376	
				<i>V</i>
LANDOWER LITTLE KANAWIA COMPANY			ISTRICT LITTLE	(Agent)
Revegetation to be carried out by Bo	w VALLEY	PETROLEUM	INC.	(Agenc)
This plan has been reviewed by L, +	He Ka	nawha	SCD. All cor	rections
and additions become a part of this plan:	10	-29-82		
		(Date)	D	
	farr	(SCD Agent)	ston.	
:		(SCD Agent)		
ACCESS ROAD			LOCATION	
Structure See Topo map.	(A)	Structure_	see tops n	12p (1)
Spacing .		Material		
Page Pof Manual		Page Ref. Ma	anua1	
Page Ref. Manual		Page Rel. M	iluai.	
Structure	(B)	Structure		(2
Spacing		Material_		
Page Ref. Manual		Page Ref. M	anual	-
Structure	(C)	Structure	DECE	THEFT
Spacing		Material	1 D Com	avell.
Page Ref. Manual	The state of the s	Page Ref. M	anual HOVI	1982
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		· mod manaina	d if managemi	47.7
All structures should be inspected commercial timber is to be cut and st	regularly acked and	all brush a	nd small timber	to be
cut and removed from the site before	dirt work	begins.	PET I. FI	F M. 1
		, 4/2		
RE	VEGETATIO	N	Est	
Treatment Area I +II		Т	reatment Area II	
Lime Z Tons/acre		Lime		Tons/acre
or correct to pH 6.5		· Acceptable of the contract o	ect to pH	
Fertilizer · 600 lbs/acre		Fertilizer		lbs/acre
(10-20-20 or equivalent)			(10-20-20 or equi	valent)
Mulch Hay Z Tons/acre	9	Mulch		Tons/acre
Seed* KENTUCKY 31 FESCUE 45 lbs/acre		Seed*		lbs/acre
Lapino CLOVER 5- lbs/acre				lbs/acre
Rya 5-lbs/acre		-		lbs/acre
*Inoculate all legumes such as vetch	+mafai1	and aloners	with the proper	bacterium.
Inoculate with 3X recommended amount.	, crejocc	and coopers	01/	12/2024
	יייר זגע ארד	ו עמ חשקעמים	1 E 1/-	nouse m
	PLAN PR		ILLIAM F. HEN	*
NOTES: Please request landowners'		ADDRESS 60	O COMMERCE	56.
cooperation to protect new seedling for one growing season.		1	ARLESTON, WV	
Attach separate sheets as				
necessary for comments.	P	HONE NO. 30	4-344-8393	



Lease No. 1931

OIL AND GAS LEASE

day of DECEMBER NOVALD 19820 AGREEMENT, made and entered into this by and between LITTLE KANAWHA CO., CORPORATION OIL & GAS DIVISION DEPT OF MINES OF CHARLESTON, WEST VIRGINIA party of the first part, hereinafter called Lessor (whether one or more), and PAY RESOURCES, DIJ. OF ROW VALLEY PETROLEUM, INC. party of the second part, hereinafter called Lessee; 1. WITNESSETH: That the Lessor, in consideration of the sum of One Dollar, the receipt of which is hereby acknowledged, and the covenants and agreements hereinafter contained, does hereby grant unto the Lessee all of the oil and gas and all of the constituents of either in and under the land hereinafter described, together with the exclusive right to drill for, produce and market oil and gas and their constituents and of steering gas of any kind in any formation underlying the land, and also the right to enter thereon at all times for the purpose of drilling and operating for oil, gas and water, laying pipe lines, erecting tanks, machinery, powers and structures, and to possess, use, and occupy so much of said premises as is necessary and convenient for said purposes and to convey the above named products therefrom or thereto by pipe lines or otherwise; said land being situate in NEWARK County of WIRT , State of WEST VIRGINIA , and described as follows, to-wit: Bounded on the NORTH by lands of LITTLE KANAWHA RIVER EAST by lands of LITTLE KANAWHA RIVER SOUTH by lands of WESTJACO-STEED WEST by lands of F.W. WILLTOTH Containing Two HUNDECO EIGHTY-Six (286) acres, more or less and being the same land conveyed to lessor byby deed dated... recorded in said county records in... Book No. 2. It is agreed that this lease shall remain in force for a primary term of the premises, or oil or gas is found in paying quantities thereon, example for underlying the berein leased land is used for storage of gas as provided under paragraph whereof.

3. The Lessee shall deliver to the credit of the Lessor free of cost, in the pipe line to which he may connect his wells, the equal one-eighth (1/2) part of all oil produced and saved from the leased premises, and shall pay Lessor and electrical contents. PROCEEDS DERIVED BY LESSEE FROM THE SAIR OF GAS AT THE WELL for all gas and casing head gas produced and sold from the premises, payable monthly; provided, Lessee shall pay Lessor a royalty at the rate of Fifty Dollars per year on each gas well while, through lack of market, gas therefrom is not sold or used off the premises, and while said royalty is so paid said well shall be held to be a paying well under paragraph 2 hereof. for all 4. The Lessee shall commence operations for a well on the premises on or before MARCIA 10 1957, unless Lessee pays thereafter a rental of THREE HONDERD FIFTY—See AND STORED FOR EACH 155.7 1957, unless Lessee pays thereafter a rental of THREE HONDERD FIFTY—See AND STORED FOR EACH 155.7 1957, unless Lessee pays thereafter a rental of THREE HONDERD FIFTY—See AND STORED FOR THREE CO. 3. months that operations are delayed from the time above mentioned. The consideration first recited herein, the down payment, shall cover not only the privilege granted to the date when first said rental is payable as aforesaid, but also the Lessee's option of extending that period as aforesaid, and any and all other rights conferred. The drilling of a non-productive well shall be accepted by the Lessor in lieu of delay rental for a period of one year after its completion, and following the exhaustion or abandonment of all wells the Lessee shall have the right for a period of one year to resume the payment of delay rental or commence operations for another well. Upon the resumption of payment of rentals the provisions hereof governing such payment and the effect thereof shall continue in force as though they had 5. All moneys coming due hereunder shall be paid or tendered to LITTLE KANAWHA CD. direct, or by check payable to his (or her) order mailed to Pio. Box 304, PARKERSTURE W.VA. 2610/, and no default shall be declared against the Lessee by the Lessor for failure of the Lessee to make any payment or perform any conditions provided for herein unless the Lessee shall refuse or neglect to pay or perform the same for ten days after having received written notice by registered mail from the Lessor of his intention to declare such default. 6. Lessor reserves 200,000 cubic feet of gas per annum for domestic use, to be taken through his own appliances at any producing gas well, and agrees to pay Lessee a fair domestic rate for any gas used in excess thereof. Lessor further covenants and agrees that his taking and use of gas shall be wholly at his own risk, the Lessee not to be held liable for any accident or damage caused thereby, nor shall Lessee be liable for any shortage or failure in the supply of gas for said domestic use.

Lessee shall have the right to use any fermation underlying the lessed premises for the storage of gas and shall have the right to the Lessor at entry at the fate of the storage of gas and shall have shall provided to the Lessor at entry at the fate of the fate of

8. Lessor further grants to the Lessee, his heirs and assigns, the right to unitize this lease with other leases to form a drilling event this lease is so unitized, the Lessor agrees to accept, in lieu of the royalty hereinbefore recited, such proportion of the royalty above provided, as the acreage covered by this lease bears to the total acreage comprising the unit.

9. If said Lessor owns a less interest in the above described land than the undivided fee simple estate therein, then the royalties and rentals herein provided shall be paid the Lessor only in the proportion which his interest bears to the whole and undivided

10. No well may be drilled nearer than 200 feet to the house or barn now on said premises without the written consent of Lessor. Lessee shall have and enjoy all rights and privileges necessary and convenient for the proper use and development of this lease, and shall have the right to use, free of cost, gas, oil and water produced on said land for its operations thereon, except water from placed on said premises, including the right to draw and remove casing. Lessee shall pay for damages caused by its operations to growing crops on said lands, and, when requested by Lessor, shall bury its pipe lines below plow depth.

11. The interest or estate of either party hereto may be assigned, the privilege of assigning in whole or in part being expressly such part or parts shall fail or make default in the payment of the proportionate part of the rents due from him or them, such deany assignee thereof shall make due payment of said rental. No change of ownership in the land or in the rentals or royalties shall tified copy thereof.

12. At any time, Lessee, its successors or assigns, shall have the right to surrender this lesse that the said Lessee and it has been furnished with a written transfer or assignment or a cer-

12. At any time, Lessee, its successors or assigns, shall have the right to surrender this lease or any part thereof for cancelation, after which all payments and liabilities hereunder thereafter shall cease and determine, and if the whole is surrendered, then this of them, or to the heirs or assigns of any one of them by delivery of a duly executed surrender thereof in person or by main addressed to the post office address of such person, or by recording a duly executed surrender thereof in the Recorder's office of the county in which the land is located.

the County in which the land is located.

13. Lessor hereby warrants and agrees to defend the title to the land herein described and agrees that the Lessee at its option may pay, discharge or redeem any taxes, mortgages, or other liens existing, levied, or assessed on or against the above described lands, and in event it exercises such option, it shall be subrogated to the rights of any holder or holders thereof and may reimburse itself by applying any royalty or rentals accruing hereunder to the discharge of any such taxes, mortgages or other liens.

14. It is expressly agreed that if the Lessee shall commence drilling operations at any time while this lease is in force, it shall remain in force and its terms continue so long as such operations are prosecuted, and if production results therefrom, then as long as production continues. If after the expiration of the term of this lease production from the leased premises shall cease from any cause, this lease shall not terminate provided Lessee resumes operations within sixty days from such cessation, and this lease shall remain in force during the prosecution of such operations, and, if production results therefrom, then as long as oil or gas is produced in paying quantities. THE ROYALTY PAID UPDA CEMPLETION OF A PRODUCTION OF A PRODUCTION

DX 100 PAGE 129		(1	
15. This lease embodies the entire contract and agreement ises or inducements not herein expressed have been made or	between Lessor and Les	see, and no warranties, repres	sentations, pron
nereor shall extend to the respective heirs, executors, admini	strators, successors and as	signs of the parties hereto.	
TIS AGREED THAT ANY PRODUCING L			
Witness the hands and seals of the parties hereto the day as	NLY OF THE ACE	CEAGE HEREIN PRO	E FROM I
WITNESS:	id year first above writte	n.	
WIINESS.	LITTLE	KANAWHA CO.	/CTF LT
		1 11	(SEAL
	6. 19	MAVELLUSS EN	(SEAI
		The second of the	
	JOHN D.	AMOS PRESIDENT	(SEA)
		**************************************	(SEA)
	signed from the state of the st	***************************************	(SEA)
Control of the Contro			(SEA)
	1001111 12 122-001-001-001-001-001-001-001-001-001-		(DEAL
WEST VIRGINI	A ACKNOWLEDGMENT	THIS INSTRU	TENT
STATE OF WEST VIRGINIA		PREPARED BY	
COUNTY OF WIRT	To-wit:	THORN C. ROB	ERTS
	—)		
I, THORN C. ROBERTS		id County, do hereby certify t	
MOS WHO SIGNED THE NAME OF LITTL	E KANAWHA CO.	A CORPORATION, AS	ITS PRES
whose name signed to the within writing bearing da		day of DECEMB	CR, 198
this day acknowledged the same before me in my sa	id County.	C 0	
Given under my hand this 10 ⁷¹⁴ day	of DECEMBER	1980	0 +
(1) 전시 (1) 전 (1) 전시 (1) 전		hom C. Fot	a)
My Commission expires JUNE 23, 1982		Notary Public	
WEST VIDSINI	A ACKNOWI EDGMENT		
STATE OF WEST VIRGINIA	A ACKNOWLEDGMENT		
TATE OF WEST VIRGINIA	To-wit:		
COUNTY OF			
I,	- N-1 D. Lit f	120 - 11 1	
Given under my hand this day	of	, 19	
		Notary Public	
My Commission expires			
OHO A	CKNOWLEDGMENT		
STATE OF OHIO,)		
	ss.		
COUNTY OF			
Before me, a Notary Public in and for said county, persona	Ily anneared the above t	named	
before me, a Notary Fublic in and for said county, persona	ny appeared the above i		
	handage 149	. W	ho acknowled
hat he did sign the foregoing instrument, and the			
whereof I have hereunto subscribed my name at			
lay of, 19			
My Commission expires			
	-C	Notary Public	**************************************
In miss		RAY BOW 630 Cha	
Received for Management of Williams of Win Deed Boo	Location	7 4	(Sta
of d in the first of the first	Location Location County Term	CCORE	nda
for Re Mulla in the f Wirt of		SC	O 2
Recorded for Record Recorded in the Office mission of Wirt Count In Deed Book No. L PAID PAID		RESOURC VALLEY Commerc	(Standard Ohio Oil a
		RCE: 7 PI	5 0 °
		₩ ES 01/1	2/2024 =
cording the W. Va		D D	9:
With Clark		Va Va	31 € VE)
		EU	as
DATA: DATA: Sixt R of the At page County County	8	ION M INC	
3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2	I 3 HZ	1
20 00	8	OZ	1 (0
of the County Comm	State	NC.	as
DATA: Aday of Lock Am R of the County Com At page 23 County Commission County Commission	6	S DIVISION ETROLEUM INC. Square W. Va. 25301	ease

IV-35 (Rev 8-81)



Date December 21, 1982 Operator's Well No. WI-008
Farm Little Kanawha Co.
API No. 47 - 105 - 1011

// Shallow X /)

Gil und Gas Bivision

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

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

LOCATION: Elevation: 628.62 Watershed L	ittle Kana	wha River		
District: Newark County Wirt		Quadrangle	e Kanawh	a 7.5'
COMPANY Pour Valley Petroloum Inc				
COMPANY Bow Valley Petroleum Inc. ADDRESS 600 Commerce Sq. Charleston, WV 25301				<u> </u>
	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT W. E. Stover ADDRESS Culloden, WV.	Tubing	Drilling	in Well	Cu. ft.
	Size			of a s
SURFACE OWNER Little Kanawha Co. ADDRESS Box 304 Parkersburg, WV 26101	20-16 Cond.		. 8	
C	13-10"	80.65	80.65	70 sks
THICH ICCITS OWNER	9 5/8	260.30	260.30	125 sks.
ADDRESS	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Deo	7	1861.75	1861.75	125 sks.
Mace ADDRESS Sandridge, WV	5 1/2	1001.70	1001.70	1 3 3 8 3 .
PERMIT ISSUED 11-14-82	4 1/2	5162.80	5162.80	305 sks.
DRILLING COMMENCED 11-17-82	3			
Didthing Completed	2		•	
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED	used		***	
ON				L
GEOLOGICAL TARGET FORMATION Devonian Shale		Dept	:h	feet
Depth of completed well 5200 feet F	otary X	/ Cable	Tools	
Water strata depth: Fresh 89' feet;	Salt	feet		
Coal seam depths: N/A	Is coal	being mine	ed in the	area? No
OPEN FLOW DATA				
Producing formation Devonian Shale	Pav	zone dept	·h	foot
Gas: Initial open flow show Mcf/d				
Final open flow 120 Mcf/d	Fin	al open fl	ou show	Ph1 /4
Time of open flow between initi				
Static rock pressure 340 psig(surface				
(If applicable due to multiple completion-		arc, arcer	1.00	rs sinc m
		zone dept	01/	12/2024
Gas: Initial open flow Mcf/d		-		feet
				Bb1/d
Final open flow Mcf/d Time of open flow between initial				
Time of open flow between initi				
Static rock pressurepsig(surface	neasurene	nt) after_	hou	rs shut in
		(Contin	ue on rei	verse side)

FORM IV-35 (REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, EIC. Well fraced in two stages; each stage consisting of 750,000 sft 3 N2, with 500 gallons of acid for initial breakdown.

WELL TOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Soil & Clay Sand Red Rock & Shale Shale Sand Shale Sand Shale Lime	0 16 88 925 1269 1420 1500 1794	16 88 925 1269 1420 1500 1794 5170	Encounter H ₂ 0 @1520'

(Attach separate sheets as necessary)

Bow Valley Petroleum Inc.

Well Operator

By: 1/ arin Comb 01/12/2024

Date: December 21, 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 and, encountered in the drilling of a well."

IV-35 (Rev 8-81)

OCT - 4 1983

OCI-4 1903
State of Mest Mirginia
OIL & GAS DIVISION
DEPT. OF MINE Sil und Gas Division

Date December 21,1982
Operator's
Well No. WI-008
Farm Little Kanawha Co.
API No. 47 -105 - 1011

WELL OPERATOR'S REPORT

REVISED

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \times / Gas \times / Liquid Injection (If "Gas," Production \times / Underground	and Stora	ge/ Deep	Sha	llow/)
IOCATION: Elevation: 628.62 Watershed Li				
District: Newark County Wirt		Quadrangle	e Kanawha	a 7.5'
COMPANY Bow Valley Petroleum, Inc.				
ADDRESS 600 Commerce Sq.Charleston, WV.	Casing	Used in	Left	Cerrent
DESIGNATED AGENT Robert Long	Tubing	Drilling	The St. Co.	fill up Cu. ft.
ADDRESS Culloden, WV.	Size	122223	DI NOIL	Cu. It.
SURFACE OWNER Little Kanawha Co.	20-16			
ADDRESS Box 304 Parkersburg, WV. 26101	Cond.	00 (5)	00 (5)	70.1
MINERAL RIGHTS OWNER Same	13-10"	80.65'		70sks.
ADDRESS -	9 5/8	260.30	260.30	125sks.
OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace	8 5/8	1961 75	1861.75	125sks.
ADDRESS Sandridge, WV.	7	1001.75	1001.75	127585.
PERMIT ISSUED 11-14-82	5 1/2	-		
DRILLING COMMENCED 11-17-82	4 1/2	5162.80	5162.80	305sks.
DRILLING COMPLETED 12-1-82	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2			
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Devonian Shale	***************************************	Dep	th	feet
	Rotary	× / Cable		
Water strata depth: Fresh 89' feet;				
Coal seam depths: N/A	Champion	being min		area?
OPEN FLOW DATA	25 000	. Lettig har	ca III ule	area:
Producing formation Devonian Shale	. D-	w rone den	+h	Foot
Gas: Initial open flow Show Mcf/d				feet
Final open flow 120 Mcf/d				
			-	
Time of open flow between init				
Static rock pressure 340 psig(surface		ment, arte	rnou	rs shut ir
(If applicable due to multiple completion			01/	12/2024
		y zone dep		
Gas: Initial open flow Mcf/d				
Final open flow Mcf/d				
Time of open flow between init				
Static rock pressure psig(surface	measure	ent) after	hou	rs shut ir

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

1st Stage (N2 Frac)

Perforations Interval = 17 shots 4104'-5030' 1,400,000 5ft 3 of N2, 1000 gallons HCL A.I.R. 62,000 SCF/M. Breakdown 2710.

2nd Stage (N2 Frac)

Perforations Interval = 32 shots 3154'-3709'
900,000 5ft? of N₂, 1000 gallons HCL. Drop 20 perf balls
ARI 54,000 SCF/M. Breakdown 2670'.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
w			
Soil & Clay	0	16	
Sand	16	88	Water 89'
Red Rock & Shale	88	925	
Shale	925	1296	
Sand	1296	1420	
Shale.	1420	1500	
Sand White Hard	1500'	1794	
Shale Gray Soft	1794	4720	
Shale Black Soft	4720	5170	
Charles and the load			
Electric Log Tops			
Maxon	1376	1428	
Injun Sand	1428	1731	
Sunbury	2189	2207	
Chemung	2207	3449.	
Marcellus	5102	5188	
	100		
respects of their finish			
			ATAPA S

(Attach separate sheets as necessary)

BOW VALLEY PETROLEUM, INC.

Well Operator

By: Marvin Combs 01/12/2024

Date: December 21, 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 on the drilling of a well."

A'

0G.11 B-5

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

RECEIVED

NOV 2 3 1982

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 103-1011	. Li jura aveng Lasilara duku sa		Oil oi	Gas Well
Company Bow Valley	CASING AND TUBING	USED IN	LEFT IN	PACKERS
Address	Size		5 p	
Farm Sittle Kanowha Co	16			Kind of Packer
Well No_ W1 - 008	13			To Table of Alberta Mary
District Mewark County Wit	81/4		tog a min w th y i to	Size of
Drilling commenced	6%		, a september son i i ven	Depth set
Drilling completedTotal depth	5 3/16			
Date shotDepth of shot	2			Perf. top
nitial open flow/10ths Water inInch	Liners Used			Perf. top
pen flow after tubing/10ths Merc. inInch				Perf. bottom
olumeCu. Ft.	CASING CEMEN	TED	SIZE	No. FTDate
ock pressurelbshrs.	NAME OF SERV			No. FTDate
bbls., 1st 24 hrs.	COAL WAS ENC	OUNTERED A	TI	FEETINCHES
esh waterfeetfeet				EETINCHES
lt waterfeetfeet	FEET_			EETINCHES
rillers' Names Ray Resources # 5	3			
marks: In pascess of setting &	84 St of	13"		

11-18-82

Wso Mace 01/12/202

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

OMPANY			ADDRESS			
		ş a		JUNIT		
ner Lo	cation	Amount	Packer	Location		
PLUGS USED	ND DEPTH PLACED	BRIDGES		CASING AND TUBIN		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOST
				.io v		egi s
					- mar 1 - 12 - 12	
				e esta.	,	
						1 M 1 m 1
						V 8
			, , , , , , , , , , , , , , , , , , ,			
llers' Names						
						A 10 1
narks:		de la companya di salay ya sayanan				grad d

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

DATE

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

FINAL INSPECTION REQUEST

INSPECTOR'S COMPLIANCE REPORT



OIL & GAS DIVISION
DEPT. OF MINES

	105-1011	County_Wirt				
Company_Bow	Valley Petroleum, Inc.	DistrictNewark				
Inspector_	HOMER DOUGHERTY	Farm Little Kanawha Co.				
Date 0c	tober 16, 1983	Well No. WI-008	Issued11-16-82			
			IN COMPLIANCE			
RULE	DESCRIPTION		IN COMPLIANCE Yes No			
23.06	Notification prior to star	ting work				
25.04	Prepared before drilling t	o prevent waste				
25.03	High-pressure drilling					
16.01	Required permits at wellsi	.te				
15.03	Adequate fresh water casin	g				
15.02	Adequate coal casing					
15.01	Adequate production casing					
15.04	Adequate cement strength					
23.02	Maintained access roads		V			
25.01	Necessary equipment to pre	vent waste				
23.03	Reclaimed drilling site					
.04	Reclaimed drilling pits					
3.05	No surface or underground	pollution				
7.05	Identification markings		V			
COMMENTS:						
-						
		1000				
	(e)	<i>y</i> :				
nd regular	ected the above well and have to	found it to be in compli	ance with the rules			
irginia, an	ions of the Office of Oil and (nd the well can be released fro	om the permitted work.	of the State of West			
		01	7.0			

Dept. Mines-Office of Oil & Gas

01/12/2024

1.0 API well number: (If not available, leave blank. 14 digits.)	47-105-1011	10000
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	Section of NGPA Category	Code MAR 2 1985
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5/90 feet_	OIL & GAS DIVIS O
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)		040189 Seller Code 301
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Field Kame County County S	'VA.
(b) For OCS wells:	Area Name Date of Lease: Mo. Day Yr. OCS Lease No.	
(c) Name and identification number of this well: (35 letters and digits maximum.)	Little KANAWhA Co. WI	-008
(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	04030 Buyer Code
(b) Date of the contract:	Mo. Day Yr.	
(c) Estimated annual production:	MN	lcf.
	(a) Base Price (b) Tax (c) All Oth Prices [Ind (+) or (-).]	
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	5.396 .806	6202
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	5.396 _806	6202
9.0 Person responsible for this application: Agency Use Only Date Received by Juris. Agency MAR 2 1983 Date Received by FERC	Name Title Robert Hart Signature	-8393

EARTICIPANTS: DATE: JUN 201983	BUYER-SELLER CODE
WELL OPERATOR: Bow Valley Petroleum, Fra. FIRST PURCHASER: Columbia Gas Trans. Corp.	040189
OTHER:	004030
	0
W. Va. Department of Mines, Oil & Gas Division WELL DETERMINATION FILE NUMBER	Der
\$30302.107.105:1011 QUALIFIED	
Uso Above File Number on all Communications	
Relating to Determination of this Well	
CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING	
ITEM NO.	
1. FERC -121 Items not completed - Line No. 7.0 + 8.0	<u>_</u>
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? Aff	idavit Signed 🗸
18-28. Other: Survey Logs Geological Charts	
Gas Analyses 1: 4000 Map Well Tab	ulations
(5) Date commenced: 11-17-82 Date completed 12-1-82 Deepend	ed
(5) Production Depth:	
(5) Production Formation: Devonian Shale	
(5) Final Open Flow: 120 MCF	
(5) After Frac. R. P. 340 24 hrs.	
(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: PSI	G from Daily Report
(5) Oil Production: From Completion Report	
0-17. Does lease inventory indicate enhanced recovery being done 📈 🗸 🗸	
0-17. Is affidavit signed? Notarized?	
oes official well record with the Department confirm the submitted information	201/12/2024
dditional information Does computer program confirm?	
as Determination Objected to By Whom?	
	713

Operator's Well No.	WI-0	08
API Vell No. 47	- 105 -	1011

STATE APPLICATION FOR WELL CLASSIFICATION

revious File No.

WELL OPERATOR BOW Valley Petr	oleum Inc. DESIGNATED ACENT ROBERT N. Hart
ADDRESS 600 Conmerce Sq.	
Charleston, WV 2530	1 200 COMMETTEE SQ.
Cas Purchase Contract No.	Charleston, WW 25301.
Heter Chart Code	(Month, cay and year)
Name of First Purchaser Columb	ia Gas Transmission Corporation
_Box 12	
Charle	ston (Street or F. O. Eox) 25325
(City)	(State) (Zip Code)
	FERC Buyer Code 004030
TYPE OF DETERMINATION BEING SOUGHT (1) Initial determination (Se	
(2) Determination that increa	sed production is the result of enhanced
technology.	
(3) Determination of a season.	70.1
	Robert Hart Vice President-General Me
	Signature Land
	600 Commerce Sa.
	Charleston LL 25201
	Charleston, WV 25301 City State (Zip Code)
	(304 _ 344-8393
	Area Phone Number
(Certificate of Proof of Service to	Purchaser)
1.00	
Mailed copy to Columbia Gas	Transmission - Contract DEpartment c/o Jackie Sydnor
All of the above to be completed b	y the Operator/Applicant)
urchaser, if known).	Agency. Executed copy to be returned to Operator/Applicant and
The Department of Min	s has received a request, for certification of the above described
NUTAL: OT for determination at	
All interested	
he office of the Oil and Gas Divis: e heard there will be a public hear	e hereby notified that on theday of 19ar on in Charleston, West Virginia, or as soon thereafter as it may ring, if requested, or if objection is filed.
This Application is assign	ed File No.
Initial review of informa-	
nd any additional evidence will be	under the Natural Gas Policy Act (NGPA). A review of this evidence made at the time appointed for a public hearing or as soon thereafter
Unless objections are time ays, a hearing will not be held exc o to determination.	ly filed or a request for a hearing is made within fifteen (15) ept on ex parte motion of the department and the matter will
	WEST VIRGINIA DEFARTMENT OF MINES
MAR 2 1983	Director
ate received by	01/ 12/2 024
risdictional Agency	Title

Date 3-1-83

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's. Well No. WI-008

API Well No.

47 - 105 - 1011 State County Permit

WELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONIAN SHALE

NGPA Section 107 DESIGNATED AGENT R. N. Hart ADDRESS 600 Commerce Square Charleston, W.V. 25301 LOCATION Elevation 628.62 WELL OPERATOR Bow Valley Petroleum Watershed Little KANAWhA RIVER Dist. NEW ARK County WIRT Quad KANAWhA ADDRESS 600 Commerce Square Charleston, W.V. 25301 Gas Purchase Contract No. .GAS PURCHASER Columbia Gas Transmission Meter Chart Code ADDRESS Box 1273 Charleston W.V. 25325 Date of Contract Date surface drilling began: //-/7-82 Indicate the bottom hole pressure of the well and explain how this was calculated. (0.0000347 GL) $BHP_2 = PWH + PWH$ WHERE 0.0000247 IS A FACTOR TAKING INTO ACCOUNT TEMPERATURE AND SUPERCOMPRESSIBILITY. BHP2 = 390.1 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 AFFIDAVIT ombs, 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)(1) or (3)(i1)(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.

STATE OF WEST VIRGINIA

COUNTY OF & TO-WIT: Tussa Notary Public in and for the state and county bmls, whose name is signed to aforesaid, do certify that the writing above, bearing date the 15 day of March, 1983, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this /s/ day of My term of office expires on the 25 day of

Notary Public

(NOTARIAL SEAL)

1.0	API well number: (If not available, leave blank. 14 digits.)		47-	105-10	11	
2.0	Type of determination being sought: (Use the codes found on the front of this form.)	10.00	103 Section of NO	GPA	Category Code	
3.0	Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)		T. KO MARTAR	5190	feet	4
4.0	Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Name 600 Co	alley Petrol ommerce Squa			040189 Seller Code
5.0	Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Field Man	A IRT		W. VA	1.
	(b) For OCS wells:	Area Nam	Date of Lea		Block Number	
The same training	(c) Name and identification number of this well: (35 letters and digits maximum.)	Litt	LE KANA	wha Co.	WI-008	?
Committee and second	(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.)	Colu	mbia Gas Tra	nsmission Co	orp	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.)		2.698	403		3.101
8.0	Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)		2.698	_403		3.101
Dat	Person responsible for this application: Agency Use Only e Received by Juris. Agency MAR 2 1983 e Received by FERC	Robe Name Robe Signature	ert Hart	(3	General Title	MgrV.P
		Date App	olication is Complet	ed .	Phone Number	01/12/20

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:

Section of NGPA	Category Code	Description
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	<u>-</u>	New onshore production well
107		High cost natural gas
108		Stripper well

Other Purchasers/Contracts:

Contract Date (Mo. Day Yr.)			

Remarks:

PARTICIPANTS:	DATE: JUN 20	1983	BUVED_SELLED CONS
	Valley Pet		BUYER-SELLER CODE
FIRST PURCHASER: Colu	This Can T	Toreatty Phe	040189
OTHER:	mera oar	rans. Corp.	007630
		Andrew h	26/
W. Va. Department of Mines, Oil WELL DETERMINATION FILE		- Pelo Mai	
830302-103-105	- management of the second		
Use Above File Number on all C	1	or the property of	APPROVED
Relating to Determination of			
CHECK EACH	ITEM AS COMPLETE OR 1	NOTE WHAT IS MISSING	JUN -7 1984
ITEM NO.			
1. FERC -121	Items not comple	eted - Line No. 7.0 +	5 6,8
2. IV-1 Agent	Robert	N. Hart	
3. IV-2 Well Permit			
4. IV-6 Well Plat ✓			
		lling	
6. IV-36 Gas-Oil Test:	Gas Only	Was Oil Produced?	Ratio
		years	
8. IV-40 90 day Product		Days off line:	
9. IV-48 Application for	or certification. Co	mplete? _/	
10-17. IV Form 51 - 52 - 53	3 - 54 - 55 - 56 - 57	- 58 Complete?	Affidavit Signed /
18-28. Other: Survey	Logs	Geological Char	ts
Gas Analy	rses1:	4000 Map	Well Tabulations
(5) Date commenced: 11-	17-82 Date comp	pleted 12-1-82	Deepened
(5) Production Depth:			
(5) Production Formation	: Devonio	in Shale	
(5) Final Open Flow:	/2	OMCF	
(5) After Frac. R. P	348	# 24 hrs	:
(6) Other Gas Test:	Qualitati Mi		
(7) Avg. Daily Gas from A	Annual Production:		
(8) Avg. Daily Gas from (90-day ending w/1-120	days	
(8) Line Pressure:			PSIG from Daily Repor
(5) Oil Production:	From Compl	etion Report	
10-17. Does lease inventory	indicate enhanced re-	Course bains a	_
.0-17. Is affidavit signed?		Notarized?	/
33313 472	the Department Conf	firm the submitted in:	01/12/2024 formation? <u>y e s</u>
additional information	Does comput	ter program confirm?	
as Determination Objected to	By Whom?	?	
			76

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

Bate 3-/- 1983 Operator's WI-008 API Mell No. 47 - 105 - 1011 State - County - Vernit

WELL CLASSIFICATION FORM NEW ONSHORE PRODUCTION WELL

MCPA Section	on 103
•	DESIGNATED AGENT Robert Hart
	ADDRESS 600 Commerce Sq.
	Charleston, WV 25301
WELL OPERATOR BOW Valley Petroleum Inc	LOCATION: Elevation 628.62
ADDRESS 600 Commerce Sq.	Watershed Little KANAWha River
Charleston, WV 25201	Dist NEWARK County WIRT Quad KANAWha
CAS PURCHASER - Columbia Gas Trans Corp.	Gas Purchase
ADDRESS BOX 12/3	Contract No.
Charleston, WV 25325	Meter Chart Code
	Date of Contract
* . * * * * * * * *	
Date surface drilling was begun: 11-17-8	<i>2</i>
note pressure of	the well and explain how this was calculated.
(0,00003.4	
BHP2 = PWH + PWH 2.71828	-I WHERE
0.0000347 IS A FACTOR TANK	
0.0000247 IS A FACTOR TAKE TEMPERATURE AND SUPERCOM	NG INTO ACCOUNT
PWH - WELL HEAD PRESSURE	BHP ₂ = 390.1
- DEPTH TO MIDDLE OF PRODUCING FORM SPECIFIC GRAVITY OF THE GAS	2-010.1
TWH - TEMPERATURE AT WELL HEAD OF THE - TEMPERATURE BOTTOM HOLE OF	
	AFFIDAVIT
surface drilling of the well comes, having	ng been first sworn according to law stare that rmination is sought was begun on or efter Pehruary 19. eral well spacing requirements and the well
1977; the well satisfies applicable state or fed within a proration unit, in existence at the time reservoir from which say is a considerable.	rmination is sought was begun on or efter February 19
reservoir from which	e surlece drilling land
the best of producing gas in commercial quant	lling began on or after February 19, 1977, and which
is a new onshore production well and that I am no application which is inconsistent with this conc	ities. I state, further, that I have concluded, to that the well for which this determination is sought
application which is inconsistent with this conc	lusion.
	\mathcal{M}
	11 (arisa Combs)
	Marin Combs
smarr on Mest Verginia	
STATE OF West Verginia COUNTY OF Karawika TO WIT:	
TO WIT:	
I. Kelen I'ke Invidanta Hotary	Public in and for the state and county aforesaid, is signed to the writing above, because
do certify that Marvin Combo whose name the 1st day of Marvin 1983.	is signed to the writing above hearing de-
the 15 day of Much 1983, has ack	nowledged the same before
my mand and licial sea	I this /c/ day of ////
My term of office expires on the 2	5 day of Dela 1088
	1400 .
	01/12/2024
[NOTARIAL SHAL]	Welon May & I.
	Notary Public Shoth grass

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

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 ß 22-4-lk, 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 Comerce 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
X all wells owned or operated by the undersigned in West Virginia
the wells listed below (Una space below or reverse side or attach list)
[COMPLETE AS APPLICABLE]
X 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. M. Hand
ACCEPTED ALL 02
Its: Vice President-General Manager 01/12/2024
. (Signature of designated agent)
Taken, subscribed and sworn to before me this 15 day of Mixth. 1983
Notary Public Kelen Mar Anothers My commission expires 7/25/85, 19

Well owner or operator must be a responsible officer of the corporation, trustee, individual or legally qualified representative of owner of the well(s).

IV-35 (Pev 8-81)



State of Mest Airginia
Department of Alines
Gil und Vas Aivision

Date December 21, 1	982		
Operator's Well No. WI-008			
Well No. WI-008			
Farm Little Kanawha	Co.		
API No. 47 - 105	_ 1011		

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

WELL TYPE: Oil X / Gas X / Liquid Injection (If "Gas," Production X / Underground	/ Wast	e Disposal e/ Deep	/ Sha	1104 X /)
OCATION: Elevation: 628.62 Watershed Li	ttle Kanav	wha River		
District: Newark County Wirt			Kanawha	a 7.5'
			,	
COMPANY Bow Valley Petroleum Inc.				
ADDRESS 600 Commerce Sq. Charleston, WV 25301	Casing	Used in	Teft	Cerent
DESIGNATED AGENT W. E. Stover	Tubing	Drilling		fill up Cu. ft.
ADDRESS Culloden, WV.	Size		Jar Mell	7
SURFACE CAMER Little Kanawha Co.	20-16			
ADDRESS Box 304 Parkersburg, WV 26101	Cond.			
INERAL RIGHTS OWNER Same	13-10"	80.65	80.65	70 sks
ADDRESS	9 5/8	260.30	260.30	125 sks.
OIL AND GAS INSPECTOR FOR THIS WORK Deo	8 5/8			
Mace ADDRESS Sandridge, W	7	1861.75	1861.75	125 sks.
PERMIT ISSUED 11-14-82	5 1/2			:
DRILLING COMMENCED 11-17-82	4 1/2	5162.80	5162.80	305 sks.
DRILLING COMPLETED 12-1-82	3			
	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REPORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
				5
GEOLOGICAL TARGET FORMATION Devonian Shale	Zotowa X		th_	feet
Depth of completed well 5200 feet F				
Water strata depth: Fresh 89' feet;				
Coal seam depths: N/A	is coal	being min	ed in the	area! NO
OPEN FLOW DATA				x •
Producing formation Devonian Shale	Pay	zone dep	th	feet
Gas: Initial open flow show Mcf/d	Oil: Ini	tial open	flow	Bbl/d
Final open flow 120 Mcf/d	Fir	ial open f	low show	Ebl/d
Time of open flow between init	ial and fi	inal tests	24 ho	er's
Static rock pressure 340 psig(surface	e measurem	ment) after	r hou	rs shut in
(If applicable due to multiple completion-)		01/	12/2024
Second producing formation	Pay	zone dep		
Gas: Initial open flow Mcf/d				
Final open flow Mcf/d				
Time of open flow between init				
Static rock pressurepsig(surface				16 pg
		//		

DETATES OF PERFORATED INTERVALS, FRACTURING OR STIPULATING, PHYSICAL CHANGE, ETC. Well fraced in two stages; each stage consisting of 750,000 sft³ N₂, with 500 gallons of acid for initial breakdown.

WELL LOG

in the state of th		
FORMATION COLOR HARD OR SOFT TOP FE	BOTTOM FEET Including and salt w	REMARKS indication of all fresh vater, coal, oil and gas
Soil & Clay	16. 88 925 1269	H ₂ 0 01520'
Lime C		
7		

(Attach separate sheets as necessary)

Bow Valley Petroleum Inc.
Well Operator
By: Marin Combi.
Date: Necember 21, 1982

01/12/2024

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 well, encountered in the drilling of a well."

PLUG AND ABANDONCLEAN OUT AND REPLUG TARGET FORMATION	
WELL OPERATOR BOW VALLEY PETRO, INC. DESIGNATED AGENT W.E. STOVER	
ADDRESS GOO COMMERCE SQUARE ADDRESS BOX 235	
CHARLESTON WVA 25301 CULLODEN WVA 25510	

B-12



State of Mest Birginia

Bepartment of Mines Charleston 25305

WALTER N. MILLE Director

JOHN D. ROCKEFELLER, IV. Governor

November 18, 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:

PERMIT NUMBER	FARM AND WELL NUMBER	DISTRICT
WIRT-1011	Little Kanawha Company, #WI-008	Newark
WIRT-1013	W.Va. Pulp & Paper/Glen W. Roberts Estate, #WI-014	Newark

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

ery truly yours,

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

M1S/ r1

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.: 47-105-1011	Well Name: Little Konowho C
West Virginia Office of Oil and Gas References: SJA File No.	County: WIRT
Vol Page Line	
	marked with the (a) Shale Base ting 0.7 x (Shale Base Line), Ray units less than 0.7 x (Shale s included with this analysis.
II. Gamma Ray elevation indices:	
A. Shale Base Line (API	Units)
Title	Line = <u>/30</u> * API Units
1. GR Value = 130 * 2. Calculation: 0.7	API Units (GR Value at Base Line) (130 *) = 9/ API Units
II. Intervals with GR index less than	0.7 x (Value at Base Line):
Interval Thick of Int From** To*** Fee	ness Feet of less than* erval 0.7 (Shale Base Line) t Feet
3/72' 22/2' 2,9	60' 8'

Total Devonial Interval 2,960

Total Less Than 0.7 (Shale Base)

I

% Less Than 0.7 (Shale Base Line) = .002 x 100 = .270 %

*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.

