DRILLING CONTRACTOR:



NOUEMber 16,1982

2) Operator's Well No._

3) API Well No. 47 State County Permit

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

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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.) 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 royal 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 every earned and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the 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 Depart Mines at Charleston, West Virginia. Signed: OFFICE USE ONLY	Liners		Jog	100 10	ness!	SOATE T	pas to appleivo	an order order and the	professional Care	2.60.1
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Mines at Charleston, West Virginia. Notary: My Commission Expires OFFICE USE ONLY	Copies of this I	Permit Apr	olication a	ind the enc	losed r	lat and	reclamation plan h	ave been mailed by	registered mail or del	livered by hand to the t
Notary: Signed: Charlos & Roberto My Commission Expires OFFICE USE ONLY					lessee	on or be	efore the day of the	mailing or delivery	of this Permit Appli	cation to the Department
My Commission Expires Its: Sealogist OFFICE USE ONLY	Mines at Charle							-1	21 -	1 / Lepartinent
OFFICE USE ONLY	Notary:	idso, 10						Signed Ohn	ellon F/	Tober do
	My Commission	Expires	min pal	tacked of	iei ilo	wag a	22.4.20, 1611	Its: Seo	bgist	a sail bilw
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nit number	nit number	+/-105-	101/				TEN TEN		November 30	04/40/0000

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

Permit expires	July 30	, 1983			drilling is commenced prior to that date and prosecuted with due di	nogu
Bond:	1//	Plat:	Casing	Fee	Telled	iligence
Dlanke	020		, III	410	Administrator, Office of Oil and Gas	Date

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).
 - 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.

days of receipt thereof.	Y,1,403	গ্রহান স্থান পার্যন্ত		
		WAIVER		DIRECTATE AND AND AND A
The undersigned coal operator	mine map exists v	to the work propo	sed to be done at th	is location, provided, the well
Walter on the proposed sets of many	Treatment and an and area	6.3	10 1 170	A A
Date:, 19,	MA	By		

A.4

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.) Robinson tract is located in Clay District of Wirt County, West Virginia, containing 188 acres more or less and bounded on the

North by Clover Bell East by Glen Roberts South by Paul Valentine West by D. Dawson

 Lessor - Glen W. Roberts (deceased) Dorothy Parks Roberts (his wife)

Lessee - Flying Diamond Oil Corporation
Bow Valley Petroleum is successor in interest.

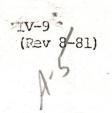
- Oil and Gas Lease is recorded in Wirt County Recorders office in Book 152 at Page 722.
- 4.) Landowners Royalty is 1/8 of all oil and/or gas produced. Overriding Royalty is 4% of 8/8ths of all oil and/or gas produced. Both are payable to Glen W. Roberts Estate.

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

DECENTED NOV 1 5 1982

OIL & GAS DIVISION DEPT. OF NUMBER





DATE	No	VEMBER	11,1982	
		#942		

State of Mest Airginia API NO. 47 - 105 - 1017 Bepartment of Mines mieinich eel bna lied

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME BOW VALLEY PETROLEUM	INC,	DESIGNATED AGENT W. F. S	TOVER
Address CHARLESTON, WV	The same of the sa	Address Cuccopen, W	
Telephone 304-344-8393	-	Telephone 304-562-33	376
LANDOWNER WESTVALO CORP.		SOIL CONS. DISTRICT 4	THE KANAWHA
Revegetation to be carried out by_	Bon Vac	LEY PETROLEUM, INC.	(Agent)
This plan has been reviewed by			ll corrections
and additions become a part of this pl		11-12-87	
		(Date)	
	far	rett Newton	
		(SCD Agent)	
ACCESS ROAD		LOCATION	
Structure LULVERT (18")	_ (A)	Structure Location	/evel (1)
Spacing		Material	
Page Ref. Manual 2-8		Page Ref. Manual	
ruge let. Finitell 2-8	-	rage her. Image	
Structure	(B)	Structure	(2)
Spacing	_	Material DITC	TERVED.
Page Ref. Manual_	-	Page Ref. Manual	11.0.1000
Structure	(C)	Structure	/ 1 6 1982 (3
Spacing	_	Material Oll &	GAS DIVISION
Page Ref. Manual		Page Ref. Manual	M. Seed & J. D. R. R. W. Lebert Verse.
All structures should be inspect commercial timber is to be cut and cut and removed from the site befo	stacked	and all brush and small ti oork begins.	ary. All mber to be
- 11T		Mroatmant Ar	
Treatment Area I #11		<u>Treatment Ar</u>	Tons/acre
or correct to pH 6.5	cre	or correct to pH	
Fertilizer . 600 lbs/ac (10-20-20 or equivalent)	ere	Fertilizer (10-20-20 or	lbs/acre equivalent)
Mulch Hay //z Tons/a	acre	Mulch	Tons/acre
Seed* Kenrucky 31 Fescue 45 lbs/ac		Seed*	lbs/acre
LADING CLOVER 3 lbs/ac			lbs/acre
Rys 3 lbs/ac	re		lbs/acre
*Inoculate all legumes such as vet Inoculate with 3X recommended amount.	ch, trefo	oil and clovers with the pr	roper bacterium. 01/12/2024
	PLAN	PREPARED BY WILLIAM F.	HENRICHS, TH
NOTES: Please request landowners'		ADDRESS 600 Commen	ece So.
cooperation to protect new seedling for one growing season. Attach separate sheets as		CHARLESTON,	WV
necessary for comments.		PHONE NO. 304-344-839	3

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE GIRTA

LEGEND

Well Site

Access Road ——

LOCATION IS ON A FLAT
RIDGE-TOP. ACCESS ROAD INICE
BE CONSTRUCTED ACCORDING TO
SKETCH. ALL TIMBER DISTURBED
WILL BE CUT AND STACKED.

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.

Property boundary

Road = = Spring O

Existing fence X X Wet spot V

Planned fence Drain pipe O

Open ditch Waterway C = =

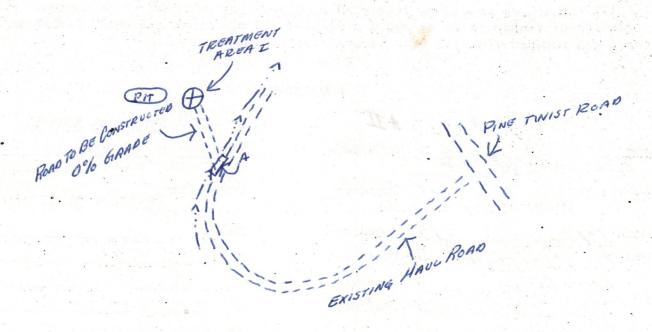
Wet Spot V

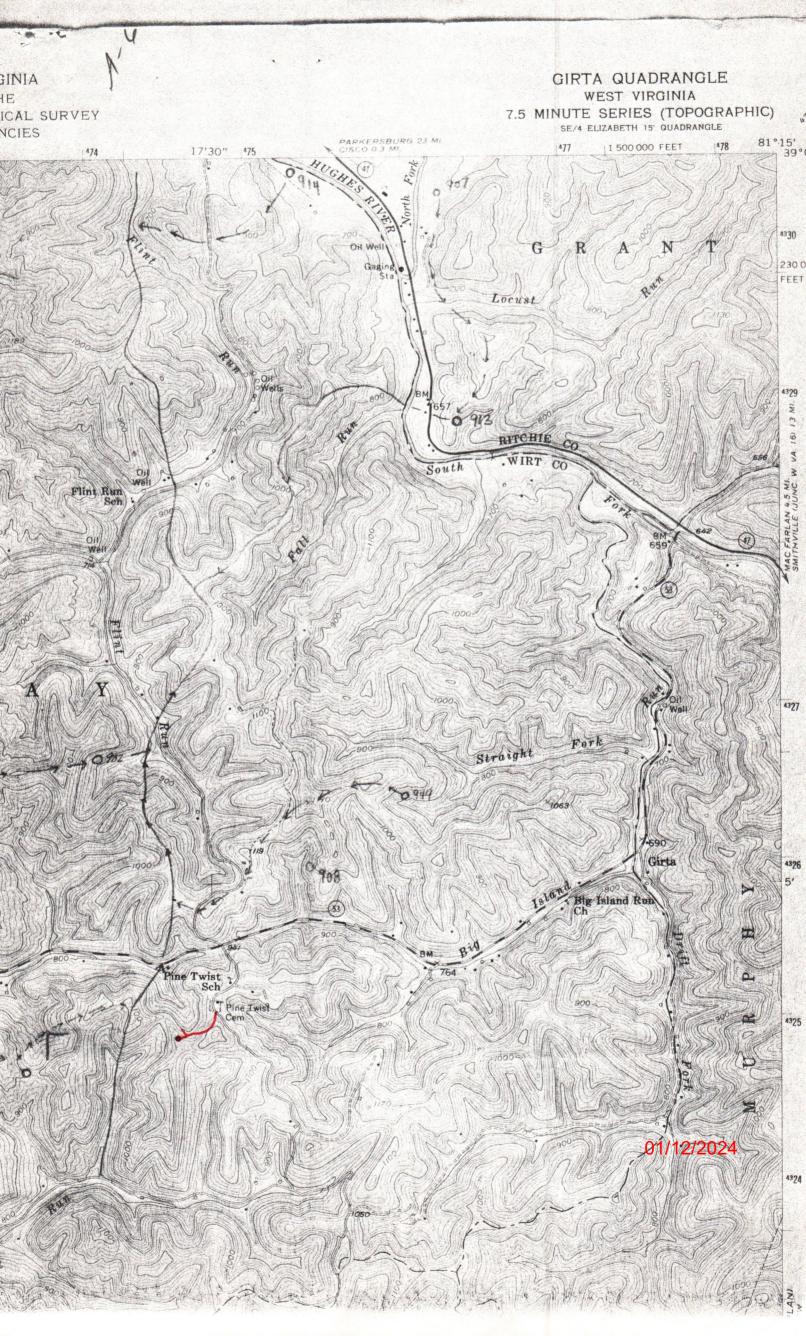
Waterway C = =

Waterway C = =

Waterway C = =

Waterway C = =







OIL & GAS DIVISION
DEPT. OF MINES

01/12/2024

No.

Walter Miller Director



State of Mest Airginia Pepartment of Mines Gil and Gas Pivision Charleston 25311

Thomas E. Huzzey
Administrator

MEMORANDUM

TO: Bow Valley Petroleum, Inc. - 600 Commerce Sq. Chas. W.VA. 25301

FROM: Mike Lewis, Draftsman - Office of Oil and Gas - Dept. Mines

SUBJECT: INCOMPLETE LINEN OR MYLAR LOCATION PLATS

DATE: Mylar Plat - Well # 942 - Clay of Wirt County

GENTLEMEN:

We have compiled a Check List for Plats received in this office made up of OMISSIONS that we usually find (Information that is required under the W.Va. Administrative Regulations) Refer to Pages: 54 through 58 (Forms and Contents of Plats)

YOUR PLAT OR PLATS HAVE BEEN RETURNED FOR THE FOLLOWING MARKED REASONS

	Distance of Topo Mark from Coordinates not Shown
	Registered Professional Engineer or Licensed Land Surveyor's Seal Required
	Not Certified or Signed by R.P.E. or L.L.S.
	Latitude Incorrect or Not Shown
	Longitude Incorrect or Not Shown
	Topo Mark Incorrect or Not Shown
	Minimum Degree of Accuracy Unacceptable
	Adjoining Property Owners Not Shown
	Proven Elevation Not Shown
	District Incorrect
	County Incorrect
	Quadrangle Incorrect
	Surface Owner Not Shown or Differs from OG-1 or IV-2
	Oil & Gas Royalty Owner Not Shown or Differs from OG-1 or IV-2
9	Target Formation Not Shown
P	Estimated Depth Not Shown
	Well Operator's Name and Address Not Shown
	Designated Agent's Name and Address Not Shown or Differs from OG-1 or IV-2
	Lease Acreage Not Shown
	Well Type/Proposed Work Not Shown
	Typed Information Not Acceptable
	Information in Pencil Not Acceptable
	Existing well location(s) within 1200' - 2400' not Shown

KIII

Walter Miller Director

State of Mest Birginia

Department of Mines Gil and Gas Division Charleston 25311

Thomas E. Huzzey
Administrator

MEMORANDUM

TO: Bow Valley Petroleum Co.

FROM: Charlotte Milam, Clerk - Office of Oil & Gas - Dept. Mines

SUBJECT: INCOMPLETE DRILLING APPLICATIONS (OG-1's or IV-2's)

DATE: November 18, 1982 (IV-2 Well # 942 - Clay of Wirt Co.

INFORMATION RETURNED:

GENTLEMEN:

We have compiled a Check List for Incomplete Drilling Applications received. Please complete the Deficient Part Checked below and return to our office. As per Memorandum dated April 28, 1981, we will not hold Incomplete applications in our office.

- ☐ Insufficient Number of OG-1's or IV-2's (Original and (4) Copies Required.
- ☐ Reclamation Plan (IV-9) Not Signed or Enclosed
- ☐ Well Type Not Shown
- ☐ Location Information Incomplete
- ☐ Surface or Royalty Owner Not Shown
- ☐ Coal Operator/Owner/Lessee Not Shown
- 011 & Gas Inspector to be Notified Not Shown
- Lease Information Incomplete
- ☐ Drilling Application Not Signed
- Geological Target Formation Not Shown
- Estimated Depth Not Shown
- Approximate Water Strata Depths or Coal Seam Depths Not Shown
- Casing & Tubing Program Incomplete
- ☐ Coal Waiver Not Signed
- Well Operator and Address Not Shown
- Designated Agent's Name and Address Not Shown
- Information given Not Legible (Poor Copies)

We ask your Cooperation in trying to reduce our delays in processing permits by completing all information required under the Administrative Regulations:

01/12/2024



RECEIVED

JAN 5 - 1983

IV-35 (Rev 8-81) OIL AND GAS DIVISION WYDEPARTMENT OF MINES



Operator's
Well No. 942

Farm Robinson

API No. 47 - 105 - 1017

(Continue on reverse side)

State of West Wirginia

Department of Mines Gil and Gas Division

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

WELL TYPE: Oil/ Gas \underline{x} / Liquid Injection (If "Gas," Production \underline{x} / Underground	/ Was and Stora	te Disposa ge/ Dee	l/ p/ Sha	llow_X_/)
LOCATION: Elevation: 1085.53 Watershed Oil	Rock Rur	n		
District: Clay County Wirt			e Girta 7.	5'
COMPANY_Bow Valley Petroleum Inc.				
ADDRESS 600 Commerce Sq. Charleston, WV 25301		T		Cement
DESIGNATED AGENT W. E. Stover	Casing	Used in	700	fill up
ADDRESS Culloden, WV	Tubing	Drilling	in Well	Cu. ft.
SURFACE OWNER Glen W. Roberts Estate	Size 20-16			
ADDRESS Elizabeth, WV	Cond.			
MINERAL RIGHTS OWNER West Virginia Pulp & Paper	13-10"	37	37	13 sks
ADDRESS Parkersburg, W	9 5/8	251.20	251.20	100 sks
OIL AND GAS INSPECTOR FOR THIS WORK Deo	8 5/8			
Mace ADDRESS Sandridge, W	7	2134.60	2134.60	150 sks
	5 1/2			
PERMIT ISSUED 11-16-82	4 1/2	5877.90	5877.90	280 sks
DRILLING COMMENCED 12-3-82	3			
DRILLING COMPLETED 12-13-82	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used		35.	
GEOLOGICAL TARGET FORMATION Devonian Shale Mar	aol lua	Dent	-h	feet
Depth of completed well 5867 feet R				
	Salt		10015	
Cool 11	-	being mine	d in the	axea2 No
TVA	is coar	being nune	a in the	area: NO
OPEN FLOW DATA				
Producing formation <u>Devonian Shale</u>				
Gas: Initial open flowMcf/d	Oil: Ini	tial open	flow	Bbl/d
Final open flow 289 Mcf/d	Fir	al open fl	.ow_show	Bbl/d
Time of open flow between initi	al and fi	nal tests_	hou	irs
Static rock pressure testing psig(surface	measuren	ent) after	24 hour	s shut in
(If applicable due to multiple completion-	-)		04	14010004
Second producing formation	Pay	zone dept	th_	/12/2024 feet
Gas: Initial open flow Mcf/d	Oil: Ini	tial open	flow	Bbl/d
Final open flow Mcf/d				Bbl/d
Time of open flow between initia				
Static rock pressurepsig(surface)				

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. Well fraced in two stages; each stage consisting of $750,000 \text{ sft}^3 \text{ N}_2$ with 500gallons 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 Alternating Sand & Shales Big Lime Injun Sand Weir Shale Sunbury Shale Dev. Shale	0 6 1870 2035 2100 2341 2386	6 1870 2035 2100 2341 2386 5750	

(Attach separate sheets as necessary)

Bow Valley Petroleum Inc. Well Operator

Date: December 30, 1982

Regulation 2.02(i) provides as follows: Note:

"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."

Bis

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION

RECEIVED

DEC 1 5 1982

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

			Oil o	r Gas Well
mpany Boes Valley	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
dress	Size		and the second second	
m G. Goberts	16			Kind of Packer
II No. 942	13	4.8		1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
rict Clay County With	81/4	e e e e e e e e e e e e e e e e e e e		Size of
ling commenced 12-4-82	65%		S S ADDRESS OF THE	Depth set
ing completedTotal depth	5 3/16		A	same en factoriste of electronic energy (Conference of Conference of Con
shotDepth of shot	3		To secure of the property	Perf. top
open flow/10ths Water inInch	Liners Used			Perf. bottom
flow after tubing/10ths Merc. inInch				Perf. bottom
pressurelbshrsbbls., 1st 24 hrs.	NAME OF SERV	VICE COMPAN	IY	No. FTDate
waterfeetfeet				FEETINCHES
aterfeetfeet				FEETINCHES
s' Names Roy Desauces 7	FEET_	INCHE	SF	FEETINCHES
y producty 1	74			
s: 37' of 1334" cash	·			
251' of 936" Casing 2092' 7" "	Can ante	lla 10		
1.00	11.	700	meet,	well 100 940

12-6-82 BATE

Wes Mace
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

ARM illing Material Used iner Locatio PLUGS USED AND E CEMENT-THICKNESS	n		ADDRESSC	401		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
illing Material Usediner Locatio			C	OUNTY		1
iner Locatio						
PLUGS USED AND		Amount				
			Packer	Location	-	and the same
CEMENT-THICKNESS	PEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
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11 10 10 10 10 10 10 10 10 10 10 10 10 1	Commence and annual section of the commence of					
llers' Names				-		
marks:						
					1	
				. *		

01/12/2024

DATE

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



DEC 1 5. 1982

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 105-1017			Oil o	r Gas Well
Company Bow Valley	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
Address	Size			
Farm Roberts	16			Kind of Packer
Well No. 942	13			
district Clay County With	81/4			Size of
rilling commenced	65%		Jary Irana	Depth set
rilling completedTotal depth	5 3/16		n standard na kana	engage was an agreement of the s
ate shotDepth of shot	2			Perf. top
itial open flow/10ths Water inInch	Liners Used			Perf. top
pen flow after tubing/10ths Merc. inInch				Perf. bottom
cu. Ft.	CASING CEMEN	TED	_SIZE	No. FTDat
ck pressurelbshrs.	NAME OF SERV			
bbls., 1st 24 hrs.		OUNTERED A	т	FEETINCHE
sh waterfeetfeet	FEET_	INCHE	S	FEETINCHE
waterfeetfeet	FEET_	INCHE	S	FEETINCHES
llers' Names Day Reg. 74	4			
Will T.D. at 5990'.				
5700' now at	5 21 P	11		

12-10-82 DATE

DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY					II He	
			ADDRESS		and the second	
TARM		DISTRICT		COUNTY	0.1	() L
illing Material Used						
iner Loc	eation	Amount	Packer	Location		
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOST
						Land to the
				Marketter -		A
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august 1			The state of the s	A CONTRACTOR	The State of the S	
and the second s				grander		8 72.5
		7				
	7 018	21.0 70140	2 25 12 25			
					place solver	
llers' Names						
						10 100
marks:						
	hereby certify I vis	24 - 3 - 13 - 1				

01/12/2024



State of Mest Airginia Department of Mines

Gil and Gas Livision Charleston 25305

DATE January 4, 1983

Deo Mace Rt. 1, Box 5 Sandridge, WV 25274

PERMIT NO	47-105-1017		
COMPANY _	Bow Valley Petrol	eum Inc.	
FARM:	Robinson		
WELL-NO.:	942		
DISTRICT:	Clay		
COUNTY	Wirt		

Dear Sir:

Please make a <u>FINAL INSPECTION</u> within thirty (30) days of the well described above, or submit a <u>STATUS REPORT</u> - saying why this well can not be released at this time.

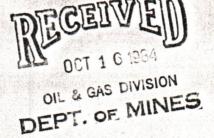
Very truly yours,



State of West Virginia

Department of Mines Oil and Gas Division Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT



COMPANY	Bow Valley Petroleum INC.	PERMIT NO	105-1015	7
	Charleston, WVA 25301	FARM & WELL	NO Robins	on 942
	600 Commerce Square		MTY Clay -	
			IN COMPLIANO	
RULE	DESCRIPTION		YES	NO
23.06 25.04 25.03 16.01 15.03 15.02 15.01 15.04 15.05 23.02 25.01 23.04 23.05 23.07 16.01 16.02 7.05	Notification Prior to Starting Work Prepared before Drilling to Prevent W High-Pressure Drilling Required Permits at Wellsite Adequate Fresh Water Casing Adequate Coal Casing Adequate Production Casing Adequate Cement Strenght Cement Type Maintained Access Roads Necessary Equipment to Prevent Waste Reclaimed Drilling Pits No Surface or Underground Pollution Requirements for Production & Gatheri Well Records on Site Well Records Filed Identification Markings			
I HAVE	INSPECTED THE ABOVE CAPTIONED WELL AND	SIGNED THAT	mes this	sed: Dougherty
with Ch	ll record was received and reclamation apter 22, Article 4, Section 2, the above for the life of the well.	ve well will r		bond
		January		527252011
		January	4, 170.	

DATE

1.0 API will number:	T				
(Il'not evsileble, larve blank, 14 digits.)	i		105	1017	41.36
 Type of determination being sought: (Use the codes found on the front of this form.) 	1	10	3		1250201
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)		Section o		Catebor* (FFROO
4.0 Name, address and code number of applicant: (35 letters per line	Во	w Valley Pet			OIL & CAS OF
maximum. If code number not evoluble, leave blank.)	Name 60	1 Commerce S			St . C
	21.00	arleston		WV 2530	:
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Field	Name INTIRT		State Zip Co	ode
(b) For OCS wells:	Count	Y		State	
	Area N	Date of L	1 1 1	Block Num	ber
(c) Name and identification number of this well: (35 letters and digits maximum.)	Ro	Mo. Day	,	OCS Lease Numb	
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)					
.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, feave blank.)	Co1	umbia Gas Tr	ansmission	Corporation	004030
(b) Date of the contract:	·				Buyer Corte
(c) Estimated annual production:			Mo. Day	Y	
		(a) Base Price (\$/MMBTU)	(b) Tax	MMc!	T to a
Contract price: (As of filing date. Complete to 3		(3/MMB [0]		Prices [Indicate (+) or (-).]	(d) Total of fal. (b) and ve
Maximum lawful rate:		2.710	405		3.115
(As of filing date. Complete to 3 decimal places.)		2.710	405		3.115
Person responsible for this application: Agency Use Only Person responsible for this application:	Robert Name	N. Hart			neral Mgr.
FEB 2 8 1983	Esbect N. Hart Signature				
	Date Appli	cation is Completed	39	14 -839	3

ARTICIPANTS:		
WELL OPERATO	R: Bow Valley Petroleum Inc.	046189
FIRST PURCHA	SER: Columbia Gas Trans. Corp.	004035
OTHER:		
[v 5 .	1500' Qual ASK	
	nent of Mines, Oil & Gas Division RMINATION FILE NUMBER	
	3-103-105: 1017 QUALIFIED	
	Number on all Communications	
	Determination of this Well	
	CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING	
ITEM NO.		
	-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 RecordDrilling Deepenin	g
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 Fo	rm 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? Af	fidavit Signed 🗸
	: Survey Logs Geological Charts	
	Structure Map 1: 4000 Map Well Ta	
(5) Date (commenced: 12-3-82 Date completed 12-13-82 Deepe	ned
	ction Depth: 2386 - 5750	
(5) Produc	ction Formation: Devonian Shale	
	Open Flow: 289 MCF	
(5) After	Frac. R. P. 600 # 24 hm.	
	Gas Test:	
	Daily Gas from Annual Production:	
	Daily Gas from 90-day ending w/1-120 days	
	Pressure:PS	
	roduction: From Completion Report	
	ease inventory indicate enhanced recovery being done NO	
	idavit signed? Notarized?	
	well record with the Department confirm the submitted informati	04/40/0004
	ormation Does computer program confirm?	•
las Determinat	ion Objected to By Whom?	
		78

DATE: MAY 311983

ARTICIPANTS:

BUYER-SELLER CODE

WEST VIRGINIA DEFARIMENT OF MINES

FEB 28 1983

Date received by Jurisdictional Agency Director

By

Tit1

Director

FORM	TV-	Sauce
[12-	781	

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

Dat	e JA	<u>U</u> 3	. 1983
Ope Wel	rator's	942	
API No.	Well 47 - State	105	. 1017

. WELL CLASSIF	ICATION FORM
NEW ONSHORE PR	
CPA Secti	
	DESIGNATED ACENT Robert Hart
•	ADDRESS 600 Commerce Sq.
WELL OPERATOR BOW Valley Petroleum Inc	Charleston, W 25301
ADDRESS 600 Commerce Sq.	LOCATION: Elevation 1085,53
Charleston, WV 25201	Watershed OIL ROCK RUW
CAS PURCHASER Columbia Cas Trans Corp.	Dist. Clay County AliRT Quad GIRTA
ADDRESS Box 1273	Gas Purchase Contract No.
Charleston, WV 25325	Meter Chart Code :
	Date of Contract
	* * * * * * *
Date surface drilling was begun: 2-3-	-27
T	
indicate the bottom hole pressure of	the well and explain how this was calculated.
BHP2 = PWH + PWH 2 71828	*** Carculated*
BHP2 = PWH + PWH 2.71828	
-	-I WHERE
0.0000247 IS A FACTOR TAKE	NG INTO ACCOUNT
THAT SHE AND SUPERCOM	PRESSIBILITY
-DEPTH TO MIDDLE OF PRODUCING FORM (1110-7)	BHP2 = 657,56
TWH-TEMPERATURE AT WELL HEAD OF	•
TEMPERATURE BOTTOM HOLE OF	APPTRATIO
1 Charles Plant	AFFIDAVIT ng been first sworn according to law store that rmination is sought was begun on or after Vebruary 14. e surface drills requirements and the well is not
urface drilling of the well for which this dere	ng been first sworn according to law store about
thin a proration unit, in existence at the time	rmination is sought was begun on or after lebruary 16, each well spacing requirements and the well is mor
commercial guestis or will be produced	and which are in began, which was applicable to the
e best of my informating gas in commercial quant	ities Taranton or after February 19, 1977, and which
a new onshore production well and that I am no plication which is inconsistent with this concl	ities. I state, further, that I have concluded, to that the well for which this determination is sought
. 22 Anconststent with this concl	lusion.
	01 16 000 1
	Challon BM berto.
111. I Warginia	
INTY OF Kanaw To WIT:	•
INTY OF anaw TO WIT:	
I. Welen Was Away rass a Hotary	Public in and for the state and county aforesaid.
certify that Charlton B. Roberts whose name	is signed to the writing above hearing to
3n/ day of January, 1983, has ack	mowledged the same before me, in my county aforesaid.
Civen under my hand and official sea	I this 2. I down as
My term of office expires on the 75	th day of July. 1983.
typites on the 2	_ usy or
	$m_{\rm c} = 0.01/12/2024$
TARIAL SEAL)	Allen 1014 Anoglarus

- Toyle	/		183	5 101	7
2.0 Type of determination being sought: (Use the codes found on the front of this form.)		10	7	2 11 1	
3.0 Depth of the deepest completion		Section		Cathoria C	ode (
location: (Only meded if sections 103 or 107 in 2.0 above.)	3		556	. 3	FEB 28 1983
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not	Вох	w Valley Pet		.88.	
evallable, leeve blank.)	Name			ZZP	040189C.
*			quare Bldg.		36.6.6.82
	City	arleston	-	State 2530	
5.0 Location of this well: [Complete (a) or (b).]				State Zip Co	de
(a) For ornhora wells (35 latters maximum for field	Field !				
name.)	County	IRT		WU	_
(b) For OCS wells:	1			State	
* **	Area N	ame			
	į.	Date of L		Block Numb	per :
	İ		1 1 1		
(c) Name and identification number	1	Mo. Day	,	UCS Lease Number	<u>-</u>
of this well: (35 letters and digits maximum.)	R	06/10501	94	(7)	
(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.)	Col.	umbia Gas Tr	ansmission	Corporation	004030
(b) Date of the contract:					Buyer Corre
	1	. /	-		
(c) Estimated annual production:			Mo. Day	Y+.	
	j				
	1	(a) Base Price	(b) Tax	Ic) All Other	
O Contract price:		(\$/MMBTU)		Prices [Indicate	(d) Total of (a). (b) and we
(As of filing date. Complete to 3 decimal places.)		5.421	_810		(22/)
O Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)		5.421	810		6.231
Person responsible for this application:			2.10		6.132
Agency Use Only	Robert	N. Hart		V.P. Ger	neral Mgr.
FEB 28 1983	Signature	+ n. Ha	A	Title	
e Riceived by FERC	Signatur e				_
	Date Applie	cation is Completed	3	44 8393	
				One Number	- 1

STATE OF WEST VIPGINIA

Date Jan 2, 1983

DEPARTMENT OF MINES OIL AND CAS DIVISION

Operator's Well No. 942

API Well No.

47 - 105 - 1017 State County Permit

WELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONIAN SHALE

NGPA Sect	ion 107
	DESIGNATED AGENT Robert HART
	ADDRESS coo Commerce Square
	Charleston asula
	LOCATION Elevation 1885.53
WELL OPERATOR Bow // Mey Pet. INC.	Watershed Oil Rock RUN
ADDRESS 600 Commerce Sg	Dist. C/Ay County NIKT Quad. GIRTA
Charleston Wha	Gas Purchase
GAS PURCHASER Columbia GAS TRANS	Contract No.
ADDRESS Box 1273	Meter Chart Code
Charleston, W/la	Date of Contract
* * * *	* * * *
Date surface drilling began: 12-5	-82
Indicate the bottom hole pressure of the	well and explain how this was calculated.
·	
BHP ₂ = PWH + PWH 2.71828	-I WHERE
0.0000347 IS A FACTOR TAKING I TEMPERATURE AND SUPERCOMPRE	NTO ACCOUNT SSIBILITY. BHP ₂ = 657.56
	FIDAVIT
described in subparagraph (3)(1) of (5)(1) report described in subparagraph (3)(ii) of potentially disqualifying non-shale for	ay index of less than 0.7 if a Gamma Ray log (ii) (A) has been filed, or as indicated by the (B); I have demonstrated that the percentage potage is equal to or less than five (5) al; and I have no knowledge of any informations inconsistent with a conclusion that the well
STATE OF WEST VIRGINIA	
COUNTY OF Kanawhe, TO-WIT:	in a server
11 0 M / January a Nota	whose name is signed to
the writing above, bearing date the	day of January, 1908/37/2024
acknowledged the same before me, in my	county aforesaid.
Given under my hand and official seal t	his 3 d day of anuary, 1915.
My term of office expires on the 25th	day of July , 19 00.
	Alen May Anodysus
(NOTARIAL SEAL)	Notary Public

DEPARTMENT OF MINES OIL AND CAS DIVISION Rell No. API Well No. 47 - /05 - 10/7 State County Permit WELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONIAN SHALE NGPA Section 107 DESIGNATED AGENT ROLER / HART ADDRESS 600 Conference Square Charleston LOCATION Elevation 13.85 WELL OPERATOR Bow / Alley Pet. INC. Watershed Oil Rock ADDRESS 600 COMMCRCO County Nixt Charlesto Contract No. GAS PURCHASER Columbia GAS TRANS Meter Chart Code ADDRESS Box 1273 Charleston, W/b Date of Contract Date surface drilling began: 12-5-52 Indicate the bottom hole pressure of the well and explain how this was calculated. (0.0000347 GL) BHP2 = PWH + PWH | 2.71828 0.0000347 IS A FACTOR TAKING INTO ACCOUNT TEMPERATURE AND SUPERCOMPRESSIBILITY. 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 BHP2 = 657,56 , Charlton B. Roberts , having been first sworn according to law, state that 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 escribed in subparagraph (3)(i) or (3)(ii)(A) has been filed, or as indicated by the eport described in subparagraph (3)(ii)(B); I have demonstrated that the percentage f potentially disqualifying non-shale footage is equal to or less than five (5) ercent of the gross Devonian age interval; and I have no knowledge of any information ot described in the application which is inconsistent with a conclusion that the wel TATE OF WEST VIRGINIA a Notary Public in and for the state and county oresaid, do certify that have for e writing above, bearing date the 3th day of January, 19 93, has , whose name is signed to knowledged the same before me, in my county aforesaid. ven under my hand and official seal this 3 nd day of anuany term of office expires on the 25th day of TARIAL SEAL)

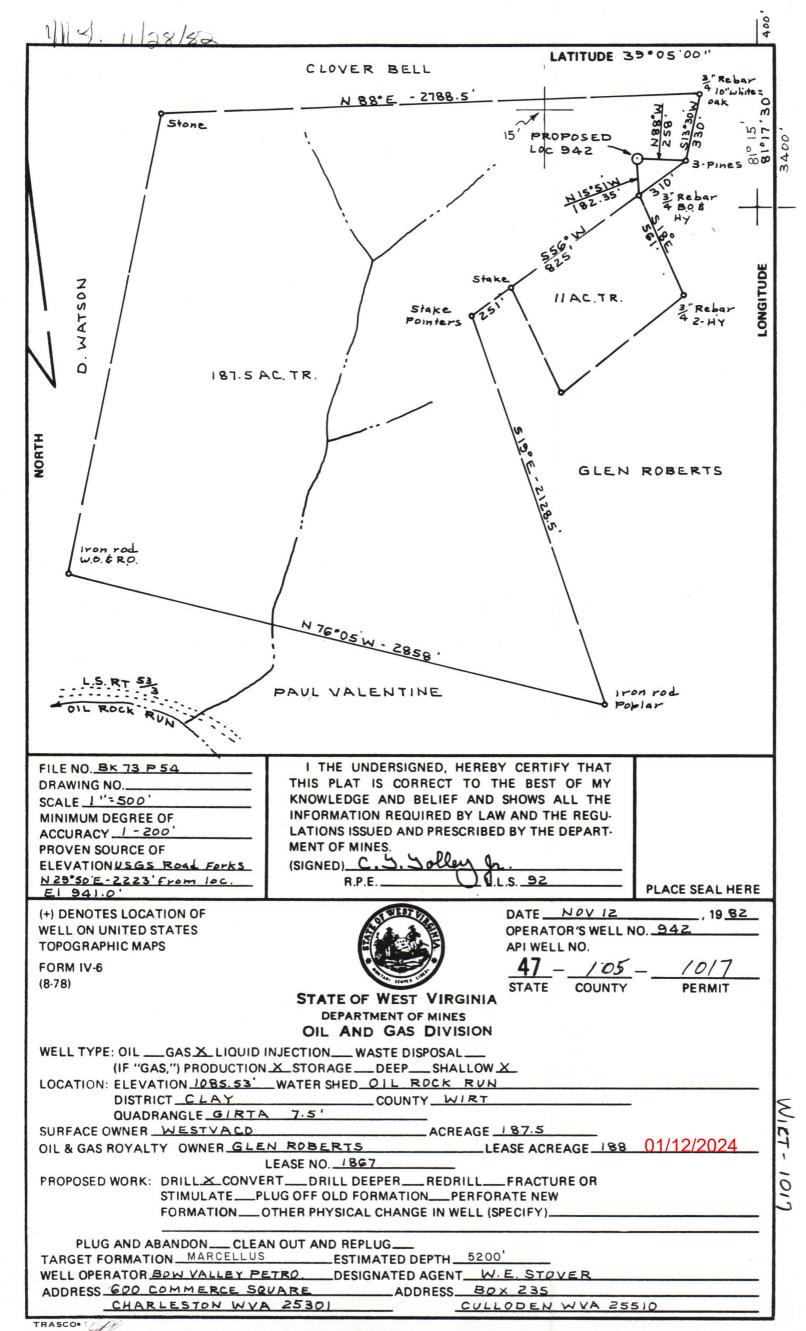
PRICE UNDER THE NATURAL GAS POLICY ACT

perator: Bow Valley Petroleum	Agent: Charlton B Roberts
ype Determination being sought - 107	(Devonian Shale)
PI Well No.: 47 105 1017,	Well Name: Robinson 942
Test Virginia Office of Oil and Gas References: SJA File No.	County: WIRT
Vol Page Line	
(c) intervals with Gamma	marked with the (a) Shale Base nting 0.7 x (Shale Base Line), Ray units less than 0.7 x (Shale is included with this analysis.
II. Gamma Ray elevation indices:	
A. Shale Base Line (API	Units)
1. GR Value at Base 2. Remarks:	Line = 156 * API Units
B. Gamma Ray Log Value	at 0.7 x Value at Base Line
0.	7 (GR Value at Base Line) 7 (150*) = 105 API Units
III. Intervals with GR index less th	an 0.7 x (Value at Base Line):
of I	ckness Feet of less than* nterval 0.7 (Shale Base Line) eet Feet
2396 . 5878	482
Total Devonial Interval 3	482
Total Less Than 0.7 (Shale Base)	60
% Less Than 0.7 (Shale Base Line) = C	$/70 \times 100 = /7239$
	1100 = /./X()/6

*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.



	API Vell No. 47 - 105 (2)
	STATE APPLICATION FOR WELL CLASSIFICATION State County Termit
	Previous File No.
	(I: Applicable
	WELL OPERATOR BOW Valley Petroleum Inc. DESIGNATED AGENT ROBERT N. Hart
	ADDRESS 600 Commerce Sq.
	Charleston WV 25301
	Cas Purchase Contract No.
	Heter Chart Code and Date Being negotiated (Honth, Cay and year)
	Name of First Purchaser Columbia Gas Transmission Corporation
	Box 1273 Charleston W 25325
	(CLLY)
•	FERC Seller Code 040189 (Zip Code) FERC Buyer Code 004030
	TYPE OF DETERMINATION BEING SOUGHT:
	(1) Initial determination (See FERC Form 121.) Section of MGPA Category (ode
	recovery technology. (3) Determination of a seasonally affected well.
	Robert Hart Vice President-General Mana
	X Signature
	600 Commerce Sq.
	Street or P. O. Box
	Charleston, WV 25301
:	(304 344-8393
•	Area Phone Number
	(Certificate of Proof of Service to Purchaser)
	Mailed copy to Columbia Gas Transmission - Contract DEpartment c/o Jackie Sydnor
	e, o decide by their
	(All of the above to be completed by the Operator/Applicant)
1	(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and
1	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): for 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 the content of the above described under Section 108 of (NGPA);
-1	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
1	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.
	Inject-1 of inferred
	entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence
2	the matter may be heard.
	Unless objections are timely filed or a request for a hearing is made within fifteen (15)
2	days, a hearing will not be held except on ex parte motion of the department and the matter vill
	WEST VIRGINIA DEFARTMENT OF MINES
	DIGATEST OF MINES
	FFR 0.01000
	FEB 28 1983
D	Pate received by
J	urisdictional Agency Title 01/12/2024

DEPARTMENT OF MINES, OIL AND CAS DIVISION

942

WELL OPERATOR: Bow Valley Petroleum Inc.	046189
FIRST PURCHASER: Columbia Gas Trans. Carp.	
OTHER:	004030
W. Va. Department of Mines, Oil & Gas Division WELL DETERMINATION FILE NUMBER \$30228-107-105=1017 Use Above File Number on all Communications Relating to Determination of this Well	D
CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING 1. FERC -121	
1. FERC -121 Items not completed - Line No. 7.0 + 8.0 C 2. IV-1 Agent Robert N. Hart	
- Well Telmit	
The state of the s	
Drilling /	
Was Oil Produced?	Ratio -
years years	
8. IV-40 90 day Production Days off line:	
9. IV-48 Application for certification. Complete?	
0-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? Aff:	idavit Signal /
Geological Channe	
Structure Map 1: 4000 Map Well Tabu	lations
(5) Date commenced: 12 - 3 -82 Date complete 1/2 /3	
(5) Date commenced: 12 - 3 -82 Date completed 12 - 13 -82 Deepene (5) Production Depth: 2386 - 17	d
(5) Production Depth: 2386 - 5750 (5) Production Formation:	
(5) Production Formation: Devonian Shale (5) Final Open Flow:	
(5) Final Open Flow: 289MCF (5) After Frac. R. P.	
(a(20) 741) a	
(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 Report
From Completion Report	
7. Does lease inventory indicate enhanced	
Notarized?	
The Submitted intornet:	-
Does computer program confirm?	YES
Determination Objected to By Whom?	
	78

DATE:____

BUYER-SELLER CODE

PARTICIPANTS: .