DRILLING CONTRACTOR:







1) Date: December 1

2) Operator's Well No. Van Devender Heirs W2 3) API Well No. 47 105 1033 State County Po

Permit

		STATE OF WEST VIRGINIA	
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Permit expires	August 7, 1983			unless drilling is commenced prior to that date and prosecuted with due di		
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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.
 - 24) The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

		WAIVER	State Property of the State College	
The undersigned coal operator amined this proposed well location. If added to the mine map. The undersign operator has complied with all applications.	ed has no objection	to the work propo	sed to be done at this location,	ll location has been provided, the well
medication of word property one and and street	un tropportunito el guilleto	estate	Magain 7, 1983	
Date: Modern Note and 19 n		By	A 12 11 2 21	1 26 17

Its

IV-9 (Rev 8-81)



DATE	DEC. 2, 1982	
	NO. W-2	

State of Mest Airginia Bepartment of Mines

ma API NO. 47 -

CONSTRUCTION AND RECLAMATION PLAN

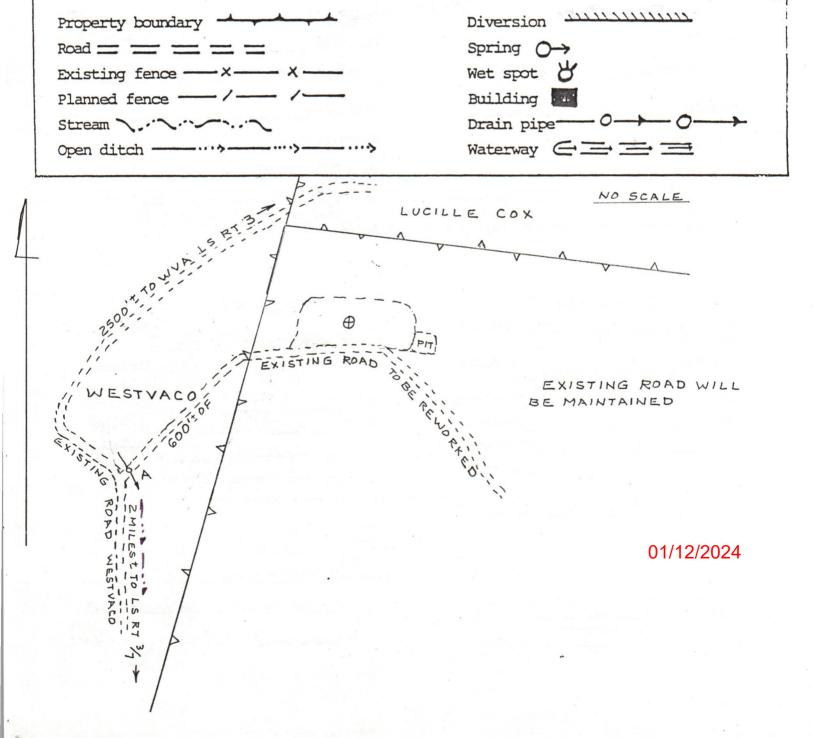
Gil and Gas Bivision

COMPANY NAME PARTHER SHIP TV	DESIGNATED AGENT VAN DAVIS
Address WASHINGTON DC 20036	Address GENERAL DELIVERY PAYNESVILLE WYA
Telephone 202 - 638 - 4485	Telephone 304-967-7112
LANDOWNER CE VANDEVENDER HEIRS ETA	
	HER CREEK LIMITED PARTNERSHIP TO (Agent)
and additions become a part of this plan:	He Kanawha SD. All corrections
and additions become a part of this plan:	12-2-82 Date)
	arrett Newson
0	(SCD Agent)
ACCESS ROAD	LOCATION
Structure DRAIN PIPE 12" MIN. (A)	Structure NEARLY FLAT TOP (1)
Spacing	Material OF WIDE RIDGE
Page Ref. Manual 2-7	Page Ref. Manual
Structure See Tapo DE (B)	Pro-Structure (2)
1. 1.	Structure (2)
Spacing	Material
Page Ref. Manual	3 1982 Page Ref. Manual_
Structure Oil & C	Structure (3) Material Page Ref. Manual
Spacing	MIN Material
Page Ref. Manual	Page Ref. Manual
All structures should be inspected regionmercial timber is to be cut and stack cut and removed from the site before dir	ed and all brush and small timber to be
Treatment Area I	Treatment Area II
Lime 2 Tons/acre	Lime 2 Tons/acre
or correct to pH G.S	or correct to pH 6.5
Fertilizer 600 lbs/acre (10-20-20 or equivalent)	Fertilizer 600 lbs/acre (10-20-20 or equivalent)
Mulch HAY 2 Tons/acre	Mulch HAY 2 Tons/acre
Seed* Ky 31 FESCUE 50 lbs/acre	Seed* KY 31 FESCUE 50 lbs/acre
CLOVER 5 lbs/acre	CLOVER 5 lbs/acre
RYE 5 lbs/acre	RYE 5 lbs/acre
*Inoculate all legumes such as vetch, tre Inoculate with 3% recommended amount.	sfoil and clovers with the proper bacterium.
	IN PREPARED BY C.T. TOLLEY JR01/12/2024
NOTES: Please request landowners!	APDRESS 7911 SISSONVILLE DR
seedling for one growing season.	SISSONVILLE WYA 25320
Attach separate sheets as necessary for comments.	PHONE NO. 304 - 988 - 9432

WELL SITE PLAN

LEGEND

ketch 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.



BCOK 1/6/ PAGE 58

OIL AND GAS LEASE

GREEMENT, made and en	atered into this	18th			A. D. 19	
and between Adria	Buckhannon Banl	Trust Depa	rtment, f	or J.S. Withe	rs Heirs	
and the second						-
		party of the	e first part, be	ereinafter called Les	sor (whether one or	more),
od Carl R. Mor i. WITNESSETH: That the covenants and agreementiuents of either in and uning as and their constituents tall times for the purpose cructures, and to possess, use	he Lessor, in considerations hereinafter contained, der the land hereinafter is and of storing gas of an of drilling and operating, and occupy so much o	on of the sum of does hereby gradescribed, togethe to know in any for oil, gas and if said premises a	t Que Dollar, it and unto the later with the ex- remation underlaying parties is necessary	he receipt of which essee all of the oil clusive right to drill ying the land, and a sipe lines, erecting t and convenient for	and gas and all of the for, produce and mails the right to enter anks, machinery, powsaid purposes and to	ed, and he con- rket oil thereon ers and convey
e above named products the	erefrom or theseto by pi	pe lines or other	wise; said land	being situate in Bu	rning Springer	MERCAX
county of Will	State of Wes	t virginia	-	, and described as fo	llows, to-wit: Bounded	i on the
AST by lands of	Westvaco Cor	poration &	Lester Par	sons		
COUTE by lands of	Westvaco Cor	poration				•
OUTH by lands of	Westvaco Cor	poration				-
Containing Two hundre	the state of the s	originate a particular constitution and the second	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED AND ADDRESS			
Scott & Thro	ckmorton	by	deed dated	April 12, 1	900	and
recorded in said county record		Ros	b Ma	38	Page 357	
ay formation underlying the 3. The Leases shall deliver one-eighth (%) part of all the actual for all gas and casing head grate of Fifty Dollars per year while said royalty is so paid	r to the cream to Le oil produced and saved mese ighth (1/8) as produced and said fro r on each gas well while,	from the leased in the promises, through lack of	in the pipe li premises, and payable monthly market, gus th	shall pay Lessor	connect his wells, the	y at the
4. The Lessee shall comm					19 81, unles	a Lessee
pays thereafter a rental of	\$441.67	C	3		at anomicon are dela	and from
to the date when first said any and all other rights co a period of one year after if for a period of one year to of payment of rentals the p not been interrupted. 5. All moneys coming du	inferred. The drilling of its completion, and follow resume the payment of revisions hereof governing	a non-productive wing the subjust delay restal or a g such payment	e well shall be for or abandor sometherson ope and the effect	accepted by the La ment of all wells the tations for another thereof shall continu	isor in lieu of delay received. Upon the receive in force as though t	the right samption hey had
direct, or by check payable and no detault shall be deconditions provided for here ceived written notice by reg	to his (or her) order maidared against the Lessee in unless the Lessee sha	by the Lemor f	or failure of t	be Lessee to make	any payment or perf	orin any
8. Lessor reserves 200,000 gas well, and agrees to pay his taking and use of gas sh nor shall Lessoe be liable from 7. Lessoe shall have the	cubic feet of gas per a Lessee a fair domestic re all be wholly at his own or any shortage or failure	nnum for domest ate for any gas t risk, the Lesses a in the supply o	ic use, to be be used in excess mot to be beld of gas for said	ken through his ow therrof. Lessor furth liable for any accid- domestic use.	ner covenants and ago ent or damage caused	thereby,
all rigina and rigina of way- shall pay to the Leaves a resi age payment to teader all pr	annously to store and a	magistap-modis-pieta	nd generalismin	o the presides are eq	a storage rights, the	Lasses
8. Lessor further grants to unit or units according to the event this lease is so unitized provided, as the acreage co. 9. If said Lessor owns a ties and rentals herein provi-	o the Lessee, his heirs a e rules and regulations wi d, the Lesser agrees to ac- vered by this lesse bears less interest in the above	and sasigns, the linch may be adopted to the total acres described land	right to unitim ted for the pro- ne royalty hereu- nage comprising than the und	per development and abelore recited, such the unit, avided fee simple e	conservation of the fiel proportion of the roya state therein then the	d. In the lty above
10. No well may be drilled Lessee shall have and cajor and shall have the right to wells of Lessor. Lessee she placed on said premises, inc growing crops on said land	y all rights and privileg use, free of cost, gas, oil ill also have the right luding the right to draw	es necessary and and water product at any time to and remove casi	convenient for ucec. on said l remove all or ng. Lesses shi	r the proper use a and for its operation any part of the mi ill pay for damage.	ad development of the sthereon, except was thereon, except was their open of the caused by its open open open open open open open open	iter from tructures
Il. The interest or estate allowed. In event this leas such part or parts shall fail fault shall not operate to de any assigned thereof shall n be binding on the Lessee u tified copy thereof.	of either party heroto ne shall be assigned as or make default in the effect this lesses aske the narmont of xi	nay be assigned, to any part or p payment of the insofar as a cov- d rental. No cha	the privilege parts of the abs proportionate ers a part or p	of assigning in who we described land a part of the rents du parts of said land u ain in the land or i	ile on in part being ad the assignee or is a from him or the, pon which the said I a the rentals or royal	such de- lessee or ties shall
12. At any time, Lessee, it after which all payments i lesse shall become absolutel of them, or to the heirs or dressed to the post office about the County is which the lar	and liabilities hereunder y null and void. This su assigns of any one of t address of such person,	thereniter shall trender may be there by delivery	cease and determined to the Li	essor, or if more than cuted surender the	n one Lessor, then to ecol in person or by	any one 2

full shall not operate to defeat or affect this lease involar as it covers a part or parts of said land upon which the said lasses or any assigned those of shall make due payment of said rental. No change of ownership in the land or in the rentals or resulties said to be binding on the Lessee until after notice to the Lessee and it has been furnished with a written transfer or assignment or a cerpfied cops thereof.

[5] 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 lease shall become absolutely null and void. This surrender may be made to the Lessor, or if more than one Lessor, then to any one 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 mail 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. 13. Lessor hereby warrants and agrees to defend the title to the land herein described and agree that the Lessoe at its option may pay, discharge or redeem any taxes, mortgages, or other heas existing, levied, or assessed on or against the above described lands, and in event it everties 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 Lesses 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 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. BOOK /6/ PAGE 59 15. This lease embodies the entire contract and agreement between Lessor and Lesson, and no warranties, representations, promises or inducements not herein expressed have been made or relied upon by either purty. The terms, conditions and stipulations bereof shall extend to the respective heirs, emounters, administrators, successors and assigns of the parties hereto. Witness the hands and seals of the parties betters the day and year first all we written. Adrian Buckhannon Bank Agentsmal) for the J. S. Withers Heirs (SEAL) Wice President and (SEAL) (SEAL) (SEAL) Trust Officer ISRAL) (SEAL) (SEAL) THIS INSTRUMENT PREPARELBY WEST VIRGINAL ACCOUNTABLE ON THE STATE OF WEST VIRGINIA CARL MORRIS COUNTY OF LESHUR a Notaty Public of said County, do hereby certily that.... day of Maseu elegand to the within writing bearing date the ... this they acknowledged the same before me in my said County. Given under my hand this____ WEST VIRGINIA ACIONOWLEDSMENT STATE OF WEST VIRGINIA COUNTY OF ____ . a Notary Public of said County, do hereby certify that signed to the within writing bearing date the ha this day acknowledged the same balore me is my said County. Given under my hand this. Notary Public CHIO ACKNOWLEDGMENT 01/12/2024 STATE OF OHIO,

IN

1 K

2014

COUNTY OF __

416600
BOOK 161 PAGE 324
OIL AND GAS LEASE
\A\ e \ \980 \\/
ACREENTEN : made and entered into this
by and between Richard Bingham, Agent & Attorney-in-fact for the Vandevender Roirs Richard C. Pingham & Elizabeth E. bingham, his wife,
Richard C. Hingham v Milzabeth S. Bingham, his wife,
Florido CILO
of 120 Lakeshore Dr. North Palm Seach, / part of the first part, hereinafter called Lessor (whether one or more),
and Carl R. Morris party of the second party hereinafter called Lessor (whether one or more),
the sovenants and agreements nereinanter contained, does nereby grant unto the Lessee all of the o's and gas and all of the con-
and gas and their constituents and of storing 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 Burning Springs Pressure,
County of Wirt , State of West Virginia , and described as follows, to-wit: Bounded on the
NORTH by lands of Paula McCue et 31 Westvace Corporation & Lester Parsons
EAST by lands of RESERVACO COMPONENTIAL STATES OF THE STAT
SOUTH by lands of Westvaco Corporation
WEST by "ds of Westvaco Corporation Containing fwo Hundred Sixty-five (265) acres, more or less and being the same land conveyed to lessor by
Scott & Titrockmorton by deed dated April 12, 1900 and
Scott & Titrockmorton by deed dated April 12, 1900 and recorded in said county seconds in Book No. 38 Page 357
2. It is agreed that this lease shall remain in force for a primary term of Two (2) years from this date and as long
thereufter as operations for oil or gas are being conducted on the premises, or oil or gas is found in paying quantities thereon, and the premises of the Lessor free of cost, in the pipe line to which he may connect his wells, the equal one-eighth (%) part of all oil produced and saved from the leased premises, and shall pay Lessor in cash or check
the equal one-eighth (1/8)
for all gis and casing head gas produced and sold from the premises, payable monthly; provided, Lessee shall pay Lessor a royalty at the sale 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 pand said well shall be held to be a puying well under paragraph 2 hereof.
4. The Lessee shall commence operations for a weil on the premises on or before October 18 , 10 81 will lessee their proportionate share of 131.25 or each month of the proportionate share of 131.25 for each month of 131.25 from Research to 151.25
any and all other rights conferred They and they were restricted the conferred they conferred they be an all of the conferred they are the conferred the conferred they are the conferred the conferred they are the conferred the conferred they are the conferred
Appendiction of the first constitution of a period of one year to resume the payment of delay rental as a constitution of abandonment of all wells the Lessee shall have the right for a period of one year to resume the payment of delay rental as a constitution of abandonment of rental as a constitution of payment of rental as a constitution of a constitution of a period of one year to resume the payment of rental as a constitution of a period of one year to resume the payment of rental as a constitution of a payment of rental as a constitution of a payment of rental as a constitution of a period of one year to resume the payment of rental as a constitution of a payment of rental as a constit
of payment of rentals the provisions hereof governing such payment and the effect thereof shall continue in force as though they had not been interrupted.
5. All moneys coming due hereunder shall be paid or tendered to Richard Bingham, Agent
direct, or by check payable to his (or her) order mailed to 120 Lakeshore Dr., Apt. 237, N. Palm Beach, Flat.
ANNUAL 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 and the Lessee to the Lessee to make any payment or perform any conditions provided for herein and the Lessee to the Lessee to make any payment or perform any conditions provided for herein and the Lessee to the Lessee to make any payment or perform any conditions provided for herein and the Lessee to the Lessee to the Lessee to make any payment or perform any conditions provided for herein and the Lessee to the Le
BOARD AND REAL OF AND REAL OF AND REAL AND
6. Lessor reserves 200,000 cubic feet of gas per annum amodamment to be taken through him the proposition of the company of th
nis taking and use of gas shall be wholly at his own risk, the iterate not to be held liable for any accident or damage caused thereby, and shall Lessee be liable for any shortage or failure in the supply of gas for said domestic use.
A ALCO MONTO CANCERNO CONTROLLO REPORTO CONTROLLO CONTROLLO CONTROLLO CANCERNO CONTROLLO CANCERNO CONTROLLO CANCERNO CAN
AND COUNTY OF THE PROPERTY OF
8. Lessor further grants to the Lessee, his heirs and assigns, the right to unitize this lease with other leaves to farm a deliting
unit or units according to the rules and regulation; which may be adopted for the proper development and conse, vation of the field. In the 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 royal- tics and tentals 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 content of Lossor.
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
wells of Lessor. Lessee shall also have the right at any time to remove all or any part of the machinery, fixtures or structures 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 allowed. In event this lease shall be assigned as to any part or parts of the above described land and the assignee or assignees of
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 default shall not operate to defeat or affect this lease insofar as it povers a part or parts of said land upon which the said Lease or
any assignee thereof shall make due payment of said rental. No change of ownership in the land or in the rentals or royalties shall be binding on the Lessee until after notice to the Lessee and it has been furnished with a written trailer or assignment or a cer-
tified copy thereof. 12. At any time, Lessee, its successors or assigns in all have the right to surrender this lesse or any part thereof for cancelation,
after which all payments and liabilities here under the right to surrender this lease or any part thereof for cancelation, after which all payments and liabilities here under thereafter shall cease and determine, and if the whole is surrendered, then this lease shall become absolutely null and void. This surrender may be made to the Leaser, or if more than one Lessor, then to any one of them, or to the heirs or assigns of any one of them by delivery of a duly executed surrender than one Lessor, then to any one

of them, or to the heirs of assigns of any one of them by delivery of a duly executed surrender thereof in person or by mail addressed to the post office address of such person, KK by recording a duly executed surrender thereof in the Recorder's office of ACO the County in which the land is located.

13. Lessor hereby warrants Extrapolar recordings the title to the land herein described and agrees that the Lesse Oal in 2/2024 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 dights of any holder or holders thereof and may reimburse tisself by applying any royalty or rentals accruing hereunder to the discharge of any such taxes, mortgages or other liens.

bressed to the post office address of such passes, at he cocounts a delv executed surrender thereof in the recorders the Councy in which the land is located. 13. Lessor hereby warrants and is located.

13. Lessor hereby warrants and consenses anotherest the title to the land berein described and agrees that the Lessee at its option & may pay, discharge or redeem any taxes, mortgages, or other lieus existing, levial, 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. Rieffely applying any royalty or rentals accruing hereunder to the discharge of any such taxes, mortgages or other tiens. 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 a "terminate provided Lessee resumes operations within sixty days from such ceasafion, 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 production and the prosecution of such operations, and, if production results therefrom, then as long as oil or gas is production and the prosecution of such operations. duced in paying quantities. ANNE 16 PAGE 325 15. This lease embodies the entire contract and agreement between Lessor and Lesses, and no warranties, representations, promises or inducements not herein expressed have been made or relied upon by either party. The terms, conditions and stipulations hereof shall extend to the respective heirs, executors, administrators, successors and assigns of the parties hereto. Witness the hands and seals of the parties herero the day and year first above peritten. EWITNESS, Myabell Agent & Attorney In Fact for ... (SEAL) Devender He _(SEA".) -- (SPAT) (SEAL) __(SKAL) WEST VIRGINIA ACKNOWLEDGMENT STATE OF WEST VIRGINIA To-wit: COUNTY OF ___ a Notary Public of said County, do hereby castily that whose name signed to the within writing bearing date the ha this day acknowledged the same before me in my said County. Given under my hand this ______day of ____ Notary Public My Commission expires. PROPIRED LY WEST YIRGINIA ACKNOWLEDGMENT STATE OF WEST VIRGINIA CZRL R. MURRISS COUNTY OF ____ a 'Notary Public of said County, do hereby certify that... whose name_____signed to the within writing bearing date the ____ ha _____ this day acknowledged the same before me in my said County. Civen under my hand this day of Notary Public My Commission expires... Florida ACKNOWLEDIMENT STATE OF FLORIDA COUNTY OF PAIN BEACH Before me, a Notary Public in and for said county, personally appeared the above named Richard C. Bingham, Agent & Attorney In Fact for the VanDevender Heirs and Richard C. Bingham and Elizabeth E. Bingham, his wife, that they did sign the foregoing instrument, and that the same is their free act and deed. In testimony

whereof I have hereunto subscribed my name at North Falm Reach

1.

---01/12/2024

__, this __5th

DEPT. DE MISSION

ASSIGNMENT

For good and valuable cash consideration, and other consideration set forth below, the undersigned, H. DELANO SMITH, hereby assigns all of his right, title and interest in and to the two oil and gas leases described below to PANTHER CREEK IV LIMITED PARTNERSHIP, a ______ limited partnership:

- 1. Lease made by Adrian Buckhannon Bank Trust Company, for the J. S. Withers heirs, to Carl R. Morris, dated March 18, 1981, recorded in the office of the Clerk of the County Commission of Wirt County, West Virginia, in Deed Book 161, at page 58; and
- 2. Lease from Richard Bingham, agent and attorney-in-fact for the Vandevender heirs, et al, to Carl R. Morris, dated May 5, 1981, and recorded in said Clerk's office in Deed Book 161, at page 324.

Carl R. Morris assigned his interest in both of these leases to H. Delano Smith by two instruments, the first dated July 11, 1981, recorded in said Clerk's office in Deed Book 162, at page 42, and the second dated July 6, 1982, and recorded in said Clerk's office in Deed Book 165, at page 333.

H. Delano Smith hereby reserves an overriding royalty of (1/32nd) of (8/8ths) of all oil and gas and/or their related products produced from the premises described in said leases.

In consideration of this assignment, Panther Creek IV

Limited Partnership, by accepting this assignment, hereby

covenants that it will commence drilling one well on or before

December 31, 1982, and, if the first well is successful, to drill

and complete a second well on or before December 31, 1983.

H. Delano Smith grants this assignment with covenants of special warranty and agrees that Panther Creek IV Limited Partnership may, at its option, pay and discharge any liens 2/2024 encumbrances in his name which are charged against the above described leases and, in the event such option is exercised, said partnership shall be subrogated to the rights of any holder or holders thereof and may be reimbursed by applying all or part of

the overriding royalty reserved herein to the discharge of any such lien or encumbrance. H. Delano Smith also covenants that Appalachian Petroleum, of Reno, Ohio, has not drilled any wells on the above described leases since July 11, 1981, the date of an assignment of these leases to it, recorded in said Clerk's office in Deed Book 161, at page 818. H. Delano Smith also covenants that the aforesaid leases are still in full force and effect.

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

WITNESS the following signature this _______ day of December, 1982.

H. Delan Smith

STATE OF WEST VIRGINIA,
COUNTY OF KANAWHA, to-wit:

The foregoing instrument was acknowledged before the undersigned authority this 3rd day of December, 1982, by H. DELANO SMITH, single.

My commission expires December 4, 1984.

Notary Public

This instrument was prepared by David C. Shepler, Attorney at Law, 1616 Charleston National Plaza, Charleston, West Virginia.

01/12/2024

ST VEST LINE

IV-35 (Rev 8-81)

Date December 28, 1982 Operator's

State of Mest Hirginia. Well No. W-2

Bepartment of Mines Gil and Gas Bivision Farm C. E. Vandevender Hrs.

API No. 47 - 105 - 1033

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil X / Gas X / Liquid Injection (If "Gas," Production / Undergrou	/ Wast	e Disposa ge/ Dee	l/ p/ Sha	ll <u>w_X_</u> /)
LOCATION: Elevation: 1088 Watershed Ser	cent Run			
District: Burning Spring County Wirt		Quadrangle	Girta	7.5'
· ·		-Quanturigi		
COMPANY Panther Creek Ltd. Partnership #4				
ADDRESS 1725 Desales St., NW, Washington, DC	Caşing	Used in	Left	Cement
DESIGNATED AGENT Van Davis	Tubing	Drilling		fill up Cu. ft.
ADDRESS	Size			04. 16.
SURFACE OWNER C. E. Vandevender Hrs., et al	20-16			
ADDRESS N. Palm Beach, Florida	Cond. 11 3/4"	050	.050	105.5
MINERAL RIGHTS OWNER C. E. Vandevender Hrs.		258	258	135 Sks.
ADDRESS N. Palm Beach, Florida	9 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK	8 5/8	2164	2164	390 Sks.
Deo Mace ADDRESS Sand Ridge, WV 25274	7			
PERMIT ISSUED December 7, 1982	5 1/2			
DRILLING COMMENCED 12-11-82	4 1/2		5105	428 Sks.
DRILLING COMPLETED 12-17-82	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2		5050 Es	t.
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED ON	used			
	<u> </u>			
GEOLOGICAL TARGET FORMATION Marcellus Shale				feet
	1250	_/ Cable	Tools_	
	Salt_1850	feet		
Coal seam depths:	Is coal	being mine	d in the	area?
OPEN FLOW DATA				
Producing formation Hampshire, Chemung, Brall	ier Pay	zone dept	h 2651 -	5028 feet
Gas: Initial open flow N.E.G. Mcf/d				Bbl/d
Final open flow Est. 500 Mcf/d				Bb1/d
Time of open flow between initia				
Static rock pressure Est. 800# psig (surface		_	01/12/	
(If applicable due to multiple completion-				יות שטוגב כי.
		zone dept	h	feet
Gas: Initial open flow Mcf/d		_		
Final open flow Mcf/d				
Time of open flow between initial				
Static rock pressure psig(surface r				

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

1st Stage - 4168 - 5028'; 30 Holes - Frac wi. 825 M $\rm N_2$ 2nd Stage - 3640 - 4110'; 30 Holes - Frac wi. 825 M $\rm N_2$ 3rd Stage - 2651 - 3240'; 30 Holes - Frac wi. 825 M $\rm N_2$

8-2

WELL LOG

			REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fres
10112121 00211 1112 011 1112			and salt water, coal, oil and ga
Formation Depths Taken From Drill	er's Log Boo	k —	
Clay	0	3	
Shale	3 10	10 15	
Red Rock Sandy Shale	15	30	
Shale	30	40	Hole Damp @ 36'
Sand	40	85	
Shale and Sand	85	104	
Red Rock	104	120	2, 121 Y 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Red Rock and Shale ·	120	150	
Sand	150	175	
Red Rock and Shale	175	210	
Sand and Shale	210	230	
Sand	230	270	
Sandy Shale	270	289	
Red Rock	289	335	
Shale	335 392	392 435	
Sandy Shale Shale	435	470	
Red Rock and Shale	470	1250	
Sand	1250	1290	Hole Damp @ 1250'
Sandy Shale	1290	1350	
Shale	1350	1380	
Sandy Shale	1380	1490	
Shale	1490	1505	
Sandy Shale	1505	1623	
Shale	1623	1654	
Sand	1654	1680	
Little Lime	1680	1715	Uolo dono 6 1050!
Dark Sand	1715	1869	Hole damp @ 1850'
Sand Sand Shala	1869 1930	1930 1940	
Sand and Shale	1940	2000	
Big Lime	2000	2070	
Injun Sandy Shale	2070	-	
balley bliaze			
			(Continued)
	•	•	

(Attach separate sheets as necessary)

Panther Creek Ltd. Rartnership #4 01/12/2024
Well Operator
Wall of Valina
By: All All All All All All All All All Al
Date: December 28, 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

WELL LOG

47	105 1055	WEL	L LOG	
	FORMATION	TOP FEET	BOTTOM FEET	RE ARKS
	Formation Depths Taken From C	Famma Ray Log - 2518	EKB 1097' 2518 2528	
	Coffee Shale Berea Sand and Shale - Hampshire Shale and Siltstone - Chemung Shale and Siltstone - Brallie	2528 2530	2530 3008 4650	
	TOTAL DEPTH	-	5140	
	Well Logged By Gearhart Owen			
	Initial Open Flow - Not Enoug	gh to Gauge		
		i		
			,	

01/12/2024

0G-11 B-4

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED

DEC 2 1 1982

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 105	-1033				Od or G.	, W. 1	
Company Pant	They Orees	6 TV	CARING AND	DOMEST N	VET	PACKEDS	
Address			Siza			a lead house	97.11
Farm Van W	lvender		16			Call of Parket	
Well No. 2		ing the second section of the second	13			3	, Toka dan
District Burning &			10				N.C
Drilling commenced			13 SA				
Drilling completed	Total d	epth					
Date shot	Depth of sh	ot	2			M. Service	
Initial open flow	/10ths W	ater inInvh	Liners Used			11	
Open flow after tubing	/10ths Me	erc. inInch			-		
Volume		Cu Ft.	CASING CEMP	are.	1 °F	T.	· · · · e
lock pre	lbs	hrs.		LB F COMPANI		***************************************	
)il		bbls., 1st 24 mrs.	COAL WAS Fin	United REPLACE		F	i Fish
Fresh water	feet		FF.E.T	aza tandikes		T. INC.	1
alt water	feet	frest.	FEET	inches.	- E	EI . INCH	II.S
Prillers' Names 5							
258	of 113	" De	ruell 1	135,545	cemes	12-12-	8-2
258' 2164'	of 83%	(1) De				12-14-	
	t 36 feet.						

12-15-82 DATE

De 01/12/2024

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

ermit No				Wa	II No		
MPANY			ADDRESS		and the second second second second		
RM	DISTRICTCOUNTY						
lling Material Used	torrelister eine Bettig William de aus gans es en enges gigt stad seine aus	#254-million reconstruction consequence constructions cons					
ner L	ocation	Amount	Packer	Location		Walter Committee Committee	
PLUGS USED	AND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING	
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST	
			9,20,320,0				
\\					2		
			<u> </u>				
				/38a			
			- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A series and	7.4.		
						2	
			-				
llers' Names							
iters ivames							
marks:					1 5		
	I hereby certify I v	visited the above					
DATE	- more of county 1 v	tile and vi	went on this date.				

01/12/2024



State of West Virginia

Department of Mines Oil and Gas Division Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT



OIL & GAS DIVISION DEPT. OF MINES

	Washington, D. C. 20036	DIST. & COL	UNTY Burning	Spring	s-Wi
DIT E			IN COMPLIA	ANCE	
RULE	DESCRIPTION		YES	NO	1
23.06	Notification Prior to Starting Work				
25.04	Prepared before Drilling to Prevent Wa	aste			
25.03	High-Pressure Drilling				
16.01	Required Permits at Wellsite				
15.03	Adequate Fresh Water Casing				
15.02	Adequate Coal Casing				
15.01	Adequate Production Casing			A Constitution of the Cons	
15.04	Adequate Cement Strenght				
15.05	Cement Type				
23.02	Maintained Access Roads				
25.01	Necessary Equipment to Prevent Waste				
23.04	Reclaimed Drilling Pits				
23.05	No Surface or Underground Pollution		V		
23.07	Requirements for Production & Gatherin	ng Pipelines	· ·		_
16.01	Well Records on Site				
16.02	Well Records Filed				
7.05	Identification Markings				
T HATTE	THE DECREE MILE ADOLE CARMIONED LINES AND D				
1 HAVE	INSPECTED THE ABOVE CAPTIONED WELL AND R	RECOMMEND THA	T IT BE REI	EASED:	1
		///	(11	(n)	1-

Your well record was received and reclamation requirements approved. In accordance

with Chapter 22, Article 4, Section 2, the above well will remain under bond

Administrator-Oil & Gas Division

January 4, 1985

DATE

coverage for the life of the well.

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

1.0 API well number:	E UNDER	THE NATURAL	GAS POLICY	ACT (NGPA)	102	
(If not assigned, leave blank. 14 digits.			- 17		17/7 L	Jr
2.0 Type of determination being sought:			4/	05 - 10	3375	(SUV)
(Use the codes found on the front	1		107	7 6	20	6
of this form.)	i		Section of NGPA	Category Code	- DFC	28 1982
3.0 Depth of the deepest completion				Category Code	-20	~ 0 1982
location: (Only needed if sections 103 or 107 in 2.0 above.)	1		5028		0	
				feet	OIL & GA	S DIVISION
4.0 Name, address and code number of	i				EPT. U	E NAIN
applicant: (35 letters per line	! Pa	inther Creek L	td. Partnersh	nip #4	J	LIMINE
maximum. If code number not available, leave blank.)	Nan	ne				
available, leave blank.)	c/	o Wyatt & Sal	tzstein, 1725	Desales St	E. NW	Seller Code
	1 Stre	et			,	
		shington,		D.C. 2	20036	
5.0 Location of this well: [Complete (a)	City			State	Zip Code	
or (b).]] D.,	mina Coni				
(a) For onshore wells	- DU	rning Springs	North			
(35 letters maximum for field		Name				
name.)	Wi			WV		
(b) For OCS wells:	Coun	ty		State		
	i					
	I Area	Name				
	1			Blo	ock Number	
	-					
	1	Da	te of Lease:			
	i	Mo.				
(c) Name and identification number	1	IVIO.	Day Yr.	OCS Lease Nu	mber	
of this well: (35 letters and digits	! C.	E. Vandevende	r et al W-	2		
maximum.)		The state of the s	z, ct ai, w			
(d) If code 4 or 5 in 2.0 above, name		Devoni	an			
of the reservoir: (35 letters	Han	npshire, Chemu	no Brallion			
maximum.)		direction of the state of the s	ig, Diailiei			
.0 (a) Name and code number of the						
purchaser: (35 letters and digits	i					
maximum. If code number not available, leave blank.)		umbia Gas Tra	nsmission Cor	poration		
(b) Date of the contract:	Name			Pozaczon		
to but of the contract:	i		Being Negotia	ted		Buyer Code
	!		LIII	l l ı		
(c) Estimated total annual production	-		Mo. Day	Yr.		
from the well:	i					
	1			Millio	n Cubic Feet	
(2) 100						
	1	(-) D		(c) All Other	1 (1)	
		(a) Base Price	(b) Tax	Prices [Indic	ate i	Total of (a),
Contract price:				(+) or (-).]	(b) a	and (c)
(As of filing date. Complete to 3	S/MMBTU	6 2 6 0				
decimal places.)	!	6 3 6 9				
Maximum lawful rate:	1					-
(As of filing date. Complete to 3	S/MMBTU	6 3 6 0				
decimal places.)		6.369				
Person responsible for this application:						
	_Robe	ert A. Saltzst	ein .			
Agency Use Only	Name /	IneATI I			eral Part	ner
DEC 28 1982	_ //		Mia	Title		
Becomed by 5555	Signature	11000	The			
Received by FERC	Decen	ber 28, 1982		202	620 //05	
00 121 (0.02)	Date App	lication is Completed			638-4485	
RC-121 (8-82)		7		Phone Nun	nber	

FIRST PURCHASER: Calumbia Gas Traas Corp. OO 4030 OTHER: W. Va. Department of Mines. Oil & Gas Division WILL DETERMINATION FILE NUMBER \$21228.101.105.1033 Use Above File Number en all Communications Relating to Determination of this Well CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING 1. FERC -121	PARTICIDANTC.	4FR 4 - 1983	
OC YOSO OTHER: W. VA. Department of Mines. Oil & Gast Division WILL DETERMINATION FILE NUMBER SALAS. 101-105. 1033 Use 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	WELL OPERATOR: Panther Creek Ltd. Par	doership #4 % Wyatt + Seltector	BUYER-SELLER COD
W. No. Department of Mines. Oil & Gas Division WELL DEFERMINATION FILE NUMBER \$2.12.3.8.101.10.5.10.33 Use 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	FIRST PURCHASER: Columbia Ga		
WELL DETERMINATION FILE NUMBER \$\frac{\text{N12.3.8}}{\text{N10.10.5}} \text{.103.7}\$ Use Above File Number on all Communications Relating to Determination of this Well CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING ITEM NO.		wip.	004030
Use 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	W. Va. Department of Mines, Oil & Gas Division WELL DETERMINATION FILE NUMBER		
CHECK EACH ITEM AS COMPLETE OR NOTE VHAT IS MISSING		QUALIFIED	
CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING 1. FERC -121	1		
1. FERC -121	Relating to Determination of this Well		
3. IV-2 Well Permit 4. IV-6 Well Plat 5. IV-35 Well Record 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	TIEM NO.		
3. IV-2 Well Permit \(\) 4. IV-6 Well Plat \(\) 5. IV-35 Well Record \(\) 6. IV-36 Gas-0il 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 \(\) 18-28. Other: Survey \(\) Logs \(\) Geological Charts \(\) Structure Map \(\) 11: 4000 Map \(\) Well Tabulations (5) Date commenced: \(\) 12-11. 32 Date completed \(\) 13. 17. 82 Deepened \(\) 15) Production Depth: \(\) 16) Production Formation: \(\) 17. 18 Ampshire \(\) Chemung \(\) 18-28. Other Frac. R. P. \(\) 19. After Frac. R. P. \(\) 10. Final Open Flow: \(\) 10. Atter Frac. R. P. \(\) 10. Avg. Daily Gas from Annual Production: 11. Avg. Daily Gas from Annual Production: 12. Avg. Daily Gas from Annual Production: 13. Avg. Daily Gas from Annual Production: 14. Open Flow: \(\) 15. From Completion Report 16. Oil Production: \(\) 17. Does lease inventory indicate enhanced recovery being done \(\) 18. Oil Production: \(\) 19. Other Gas inventory indicate enhanced recovery being done \(\) 19. Oil Production: \(\) 19. From Completion Report 110. Does computer program confirm? 111. Saffidavit signed? \(\) 112/12024 113 itional information \(\) 112/12024 115 Deetermination Objected to \(\) 115 By Whom?	1. FERC -121 Items no	ot completed - line No. 7 Add d	1
3. IV-2 Well Permit 4. IV-6 Well Plat 5. IV-35 Well Record 6. IV-36 Gas-Oil Test: Gas Only 7. IV-39 Annual Production 9. IV-40 90 day Production 9. IV-48 Application for certification. Complete? 10-17. IV Form 51 - 52 - 53 - 54 - 33 - 56 - 57 - 58 Complete? 18-28. Other: Survey 18-28. Other: Survey 19-25 Logs 11: 4000 Map 19-25 Well Tabulations Structure Map 11: 4000 Map 12: 4000 Map 13: 4000 Map 14: 4000 Map 15: 50	Van	$D \rightarrow C$	b,ca
5. IV-35 Well Record	3. IV-2 Well Permit ✓		:
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? Affidavit Signed 10-17. IV Form 51 - 52 - 53 - 54 - 33 - 56 - 57 - 58 Complete? Affidavit Signed 18-28. Other: Survey Logs Geological Charts Structure Map Gas Analyses 1: 4000 Map Well Tabulations (5) Date commenced: 2 - 11	4. IV-6 Well Plat _/		
7. IV-39 Annual Production	5. IV-35 Well Record ✓	Drilling /	
8. IV-40 90 day Production Days off line:	6. IV-36 Gas-Oil Test: Gas Only	Was Oil Produced?	_
8. IV-40 90 day Production Days off line: 9. IV-48 Application for certification. Complete? / 10-17. IV Form 51 - 52 - 53 - 54 - 39 - 56 - 57 - 58 Complete? / 18-28. Other: Survey Logs Geological Charts Structure Map Gas Analyses 1: 4000 Map Well Tabulations (5) Date commenced: 2-11. 82 Date completed 2. 17 . 82 Deepened (5) Production Depth: 2651 - 5028 (5) Production Formation: **Nampshire** Chemung Brallier** (6) Production Formation: **Est. 500 McF** (7) After Frac. R. P. Fst. 900 *** (8) 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 -17. Does lease inventory indicate enhanced recovery being done **Notarized?** S official well record with the Department confirm the submitted information? **Notarized?** Determination Objected to By Whom?	7. IV-39 Annual Production	vears	Ratio
10-17. IV Form 51 - 52 - 53 - 54 - 63 - 56 - 57 - 58 Complete? / Affidavit Signed / 18-28. Other: Survey Logs Geological Charts Structure Map Gas Analyses (5) Date commenced: 2 - 11 . 82 Date completed 2 . 17 . 82 Deepened (5) Production Depth: 2 6 51 - 5028 (5) Production Formation: Hampshire Chemung, Brallier (6) Production Formation: Est. 500 c F (7) After Frac. R. P. Fst. 900 + 60 (8) 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 17. Does lease inventory indicate enbanced recovery being done 17. Is affidavit signed? Notarized? Sofficial well record with the Department confirm the submitted information? 17. Does computer program confirm? Determination Objected to By Whom?	8. IV-40 90 day Production	Dave off 1:	
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Gas Analyses (5) Date commenced: \[\frac{12 \cdot 11 \cdot 82}{2 \cdot 1 \cdot 82} \] Date completed \[\frac{12 \cdot 17 \cdot 82}{2 \cdot 82} \] Deepened (5) Production Depth: \[\frac{2651 - 5028}{2 \cdot 82} \] (5) Production Formation: \[\frac{2651 - 5028}{2 \cdot 82} \] (5) Production Formation: \[\frac{2651 - 5028}{2 \cdot 82} \] (5) Final Open Flow: \[\frac{651 + 500 McF}{2 \cdot 82} \] (6) Other Gas Test: \[\frac{60 McF}{2 \cdot 82} \] (7) Avg. Daily Gas from Annual Production: \[\frac{60 McF}{2 \cdot 82} \] (8) Avg. Daily Gas from 90-day ending \(\frac{60 McF}{2 \cdot 82} \) (8) Line Pressure: \[\frac{60 McF}{2 \cdot 82} \] (5) Oil Production: \[\frac{60 McF}{2 \cdot 82} \] (5) Oil Production: \[\frac{60 McF}{2 \cdot 82} \] (6) Other Gas Test: \[\frac{70 McF}{2 \cdot 82} \] (7) Avg. Daily Gas from Annual Production: \[\frac{70 McF}{2 \cdot 82} \] (8) Line Pressure: \[\frac{70 McF}{2 \cdot 82} \] (9) Oil Production: \[\frac{70 McF}{2 \cdot 82} \] (17) Does lease inventory indicate enhanced recovery being done \[\frac{70 McF}{2 \cdot 82} \] (17) Saffidavit signed? \[\frac{70 McT}{2 \cdot 82} \] (18) Notarized? \[\frac{70 McT}{2 \cdot 82} \] (19) Oil Production: \[\frac{70 McT}{2 \cdot 82} \] (10) Does computer program confirm? \[\frac{70 McT}{2 \cdot 82} \] (11) Determination Objected to \[\frac{80 McT}{2 \cdot 82} \] (21) Determination Objected to \[\frac{80 McT}{2 \cdot 82} \] (22) Determination Objected to \[\frac{80 McT}{2 \cdot 82} \] (3) Date computer program confirm?	Logs	Geological CL	
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itional information Does computer program confirm? By Whom? By Whom?	is affidavit signed?	Notarianda	
Does computer program confirm? Determination Objected to By Whom?	with the Departmen	nt confirm the submitted	01/12/2024
By Whom?	Does	computer program confirm?	763
	Determination Objected to By	y Whom?	
7/3			73

APR 4 - 1983

FORM IV-48WC [12*78]	STATE OF WEST VIRGINIA	Dane Dane I of
•	DEPARTMENT OF MINES, OIL AND GAS DIVISION	Date <u>December 28</u> , 19
		Well No. W-2
		API Well No47 - 105 - 103
	STATE APPLICATION FOR WELL CLASSIFICATION	No. 47 - 105 - 1033
micar 👵 esti ya esti e		Previous File No.
WELL OPERATOR Panther Cree	k Ltd. Partnership #4DESIGNATED AGENT	(II Applicab
ADDRESS 1725 Desales St		
Washington, D C 20	0036 Reneral	
Gas Purchase Contract No. Be	eing Negotiatedad Paynesvi	lle, West Virginia
Mater Chart Code	(Month, day and ye	ar)
Name of First Purchaser (Columbia Gas Transmission Corporation	
1	2. U. Box 1273	
(0)	Charleston, West Virginia 25325	
FERC Seller Code		Code)
TYPE OF DETERMINATION BEING SO	FERC Buyer Code	• • • • • • • • • • • • • • • • • • • •
X (1) Initial determination	(See FEBC Formation 107	2
(2) Determination that in	creased production is the result of enhanced	Category Code
(3) Determination of a se	asonally affected well	
•	Robert H. Saltzstein	
	Name (Print)	General Partner
	Signature	and the second
	1725 Desales St., No. Street or P. O. Box	1
	-	
	Washington D.C. 200	(Zip Code)
	Area Phone Number	
(Certificate of Proof of Service	Code Code	en e
	to rutchaser)	
Delivered to Columbia	a Gas 12-28-82	
		*
(All of the above to be complete	d by the Champania	•,
(To be asset)	o by the Operator/Applicant)	
purchaser, if known).	al Agency. Executed copy to be returned to 0	767-1
The Department of M	fines has received a	perator/Applicant and
(NGPA): Lor for determination	fines has received a request. for certific of Section under the Natural that increased production is the result of erfor determination of a seasonally affected	Gas Police above described
TOO OI (NGPA);	or for determination is the result of a	phanaed Ver of taly.
the office of	are hereby norter	Section 108 of (CC)
This Appliance	ision in Charleston, West Virginia, or as sociating, if requested, or if objection is file	n thereafter as it may
Application is ass:	igned File No.	
entitled to certification as claim and any additional evidence will be as the matter may be heard.	mation submitted indicates the well is med under the Natural Gas Policy Act (NGPA). se made at the time appointed for a public he	is not A review of this evidence
	mely filed or a request for a hearing is made except on ex parte motion of the department ar	Soon Chereafter
		one macter will
	WEST VIRGINIA DEPARTMENT OF M	INES
DEC 28 1982		
•)ir	004040004
Date received by Jurisdictional Agency	Ву	OV/12/2024
	Title	
	Emergina Carrier	9° 100

(NOTARIAL SEAL)

Date DECEMBER 28, 1982

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's
Well No. U-2

API Well No.

47 - 105 - 1033 State County Permit

WELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONIAN SHALE

NGPA Sect	tion 107
	DESIGNATED AGENT VAN DAVIS
	ADDRESS GENERAL DELIVERY
	PAYNESVILLE, LU. VA.
PHNTHER CREEK LTD	LOCATION Elevation /088'
WELL OPERATOR PARTHERSHIP # 4	Watershed SERGENT RUN BURNING
ADDRESS 1725 DE SAIES ST. N.W.	Dist. SPRINGS County WIRT Quad. GIRTA 7.5
WASH. D.C. 20036	Gas Purchase
GAS PURCHASER COLUMBIA FAS TRANS. COPP	Contract No. BEING NEGOTIATED
ADDRESS P.O. BOX 1273	Meter Chart Code
CHARLESTON, W. VA. 25325	Date of Contract
* * * * Date surface drilling began: 12-11-8	* * * *
Indicate the bottom hole pressure of the w	ell and explain how this was calculated.
BHP = 903.14	
6=.68	$\left(\frac{G \times L}{53.34 \times T}\right) - 1 P_1 + P_1$
L= 4598 BHP	(53 34x T) - 1/P1 + P1
1	
P, = 800 psi	
AFF	IDAVIT
of potentially disqualifying non-shale foot percent of the gross Devonian age interval:	(A) has been filed, or as indicated by the
STATE OF WEST VIRGINIA	
COUNTY OF KAN MUHA, TO-WIT:	
I, join J. Simpliers, a Notary	Public in and for the state and county
aforesaid, do certify that D. GENE HANE	whose name is signed to
the writing above, bearing date the 25Th dacknowledged the same before me, in my coun	ay of DECEMBER . 19 87. has
acknowledged the same before me, in my coun	ty aforesaid. 01/12/2024
Given under my hand and official seal this My term of office expires on the day	28 Th day of DECEMBER, 1982.
my term of office expires on the day	of //area, 19 92.

Notary Public

DEVONIAN SHALE GAMMA RAY LOG ANALYSIS APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT

Opera	tor: Pan	ther Creek	Ltd. Partners	ship #4	Agent: _	Van Davis		
Type	Determin	nation b	eing sought	- 107	(Devonia	n Shale)		
API W	ell No.	: 47-10	05-1033	-	Well Name	e: C.	E. Vandevender	
West	Virginia	Office	of Oil and	Gas	County:	Wirt		
		SJA Fil						
Vo	1	Page	Line					
I.	NOTE:	Line, () (c) int	b) a line r ervals with	eprese Gamma	nting 0.7 Ray units	x (Shal less t	(a) Shale Ba e Base Line) han 0.7 x (S this analysi	hale
II.	Gamma F	Ray elev	ation indic	es:				
		A. Sha	le Base Lin	e (API	Units)			
		1.	GR Value as Remarks:	t Base	Line = _	160 *	API Units	
			•				• ;	
	,	D 0						
			na Ray Log V				Base Line	
		2.	GR Value = Calculation	n: 0.	7 (GR Valu	e at Bas	se Line) _ API Units	
III.	Interva	ls with	GR index 1	ess th	an 0.7 x (Value a	Base Line)	:
	I	nterval			ckness		of less than	
	From**		To***		nterval eet	0.7 (Shale Base L Feet	ine)
	2530		5140	. 2	610		52'	
	Tota	1 Dovoni	al Interval		(10)			
Total			al Interval		610		521	
	Less Th	an 0.7 ((Shale Base)			_ 1.00	52'	
	Less Th	an 0.7 (- 1.99	52 '	

*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.

IV-27 11/23/81



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Well No: WAN DEVENDER Lu2

API NO: 47 - 105 1033

State County Permit

Oil and Gas Division NOTICE OF VIOLATION

	TO THE OF THE PARTY OF
WELL TYPE:	Oil/ Gas Liquid Injection/ Waste Disposal/
	Of "Gas" - Production / Storage / Deep / Shallow /
LOCATION:	Elevation: 1088 Watershed: Sugents Quin
	District: BURNING SP. County: WIRT Quadrangle:
WELL OPERAT	OR PANTHER CREEK IV DESIGNATED AGENT Van Davis
Addre	
	Brookshaw wv 24823
violation o	The above well is being posted this 29 day of 300 , 1983 , for a f Code 22-4- $12B$ and/or Regulation, set forth in detail as follows: (USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)
Loca	Tim has not been mulohel or seeded and starting to evode.
LA	starting to evode.
А сору	of this notice has been posted at the well site and sent by certified or
	mail to the indicated well operator or his designated agent.
You ar	e hereby granted until Sept. 5, 1983, to abate this violation.
	e to abate the violation may result in action by the Department under
	7 or Code 22-4-18.
	Un mare
	Oil and Gas Inspector
	Address RT1 BOX 5
	Address RT1 BOX 5 Sand Rieko wv 23274
	Telephone: 655 - 701/42/2024

11/23/81



STATE OF WEST VIRONIA.

DEPARTMENT OF MINES

Date: [Luguet 29, 1983]
Well No: (JAN OKNEWER Lut
API NO: 47 / 105 NO33
State County Permit

Oil and Gas Division & NOTICE OF VIOLATION

10 E 100 V 1 P 10 V 1	
// WasLiquid injection / Waste Disposal //	WELL TYPE: 011
as" - Production / Storage / Deep / Shallow /	
tion: 1088 Watershed: Jungary bean	
ict: Bugg all 5/2 County: 1018 Guedrangle:	
WALER PROCESS OF STRINGS OF STRIN	
Address of Algebras Bullion	Address
Bandwhays No 24823	
above well is being posted this 29 day of 6446 . 1983 for a	
22-4-12Band/or Regulation , set forch in detail as follows:	
(USE REVERSE SIDE OF THIS NOTICE IN NECESSARY)	
has not have madohat or weeled and	I gradin
tiz, to scorle.	in wine
s notice has been posted at the well site and sent by certified of	
the indicated well operator or bis designated agent.	regustered mail to
y granted until Seas. 5 1983 to abate this violation.	
ate the violation may result in action by the Repertment under	
ide 22-4-18	
Exa Mora	
0il end Gas Inspector	
Padress P71 BOX 5	
Land steller we 232	
	0444646664
Telephyner 655 7398	01/12/2024

IV-27 11/23/81



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Date: August 29, 1983
Well No: YAN DEVENOER W
API NO: 47 - 105 1033
State County Permit

Oil and Gas Division NOTICE OF VIOLATION

WELL TYPE: 0il/ Gas Liquid Injection/ Waste	Disposal/
Of "Gas" - Production / Storage / Deep	/ Shallow/
LOCATION: Elevation: 1088 Watershed: Sugarts Q	un
District: BURNING SP. County: WIRT Que	adrangle:
WELL OPERATOR PANTHER EREEK IV DESIGNATED AGENT	Van Vavis
Address Address	General Oliver
	Bradshaw wo 24823
The above well is being posted this 29 day of	aug , 19 83, for a
violation of Code 22-4-12Band/or Regulation, set	forth in detail as follows:
(USE REVERSE SIDE OF THIS NOTICE IF NECES	SSARY)
	10 and
I ocation has not been mulched or	soldier and
I ocation has not been mulchel or -	MERCERWEI
to guing	
	SEP 1 - 1983
	92, 1
	OIL & GAS DIVISION
	DEPT. OF MINE
A copy of this notice has been posted at the well site	and and by antified a
A copy of this notice has been posted at the well site a registered mail to the indicated well operator or his designation.	
You are hereby granted until Syst. 5, 1983	
Failure to abate the violation may result in action by	
Code 22-4-17 or Code 22-4-18.	the bepartment under
300c 22 1 17 01 00de 22 4 10.	
	maro
Oil and (Gas Inspector
Address	TI BOX 5
S. S	and Rielso wv 23274
Telephone:	655 - 01/12/2024

FORM IV-31

Operator's Van Devende W 2

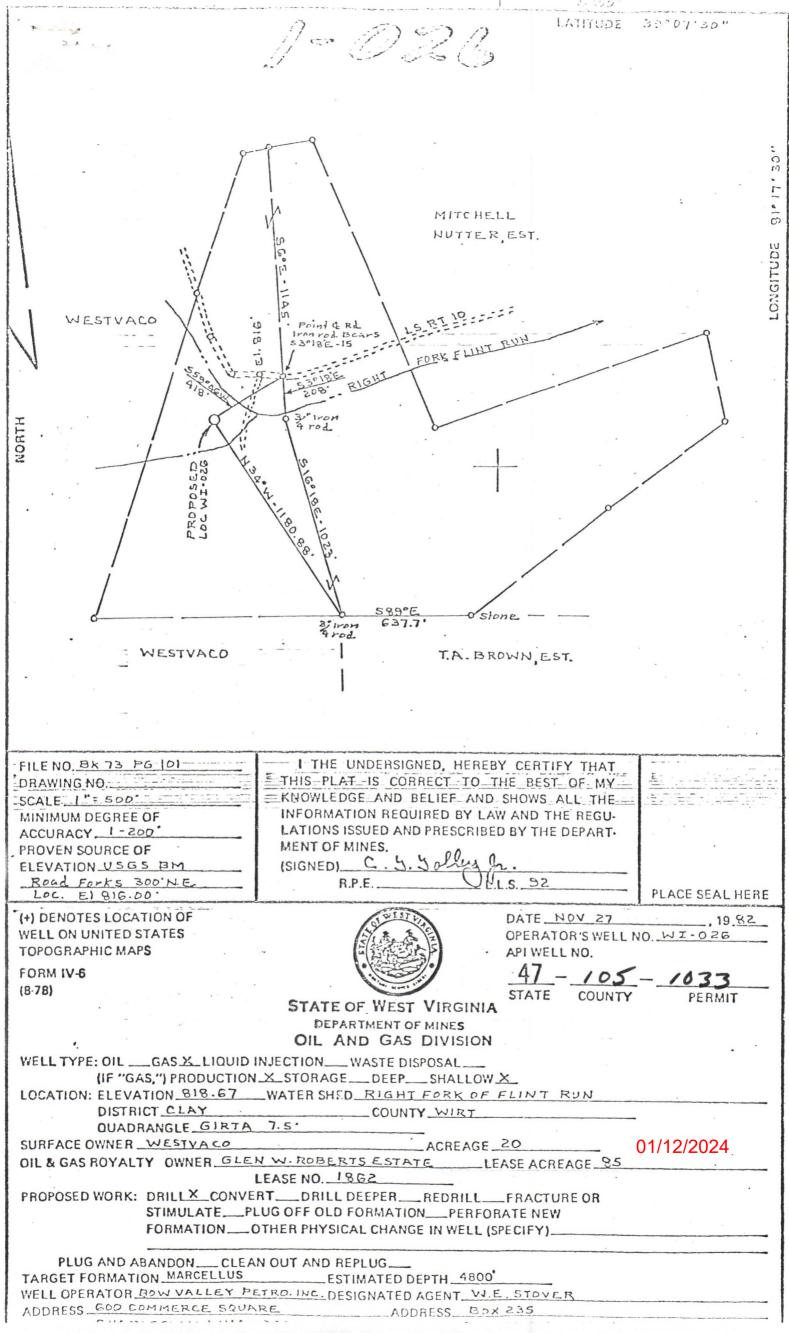
API Well No. 47 - 105 - 1033.

State County Permit

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION
NOTICE OF ABATEMENT
WEST TARRES OF A CORNEL OF THE STATE OF THE
WELL TYPE: Oil/ Gas/ Liquid Injection/ Waste Disposal/ (If "Gas", Production/ Underground Storage/ Deep/ Shallow/)
LOCATION: Elevation: Watershed:
District: Brendy &p. County: With Quadrangle:
WELL OPERATOR Ganther Creek IV DESIGNATED AGENT Wan Would
Address Address
Bradshew, WU2483
Notice is hereby given that the undersigned authorized oil and gas inspector made a special
inspection of the above named well on Sept 9, 1983,
Upon the expiration of a period of time originally fixed for abatement.
Upon the order of the Deputy Director for Oil and Gas at the request of the well operator.
Upon the request of the Deputy Director for Oil and Gas.
The violation of Code 22 - 4 - 128 heretofore found to exist on aug 29 , 1983, by
Form IV-27, "Notice of Violation"/ Form IV-28, "Imminent Danger Order"/ of that date has
been totally abated. If the abated violation was found by an Imminent Danger Order requiring operations
to cease, such requirement is hereby rescinded, and the well operator is hereby notified that he may
resume operations.
COMMENTS
DIE CERVED
SEP 14 1983
SEP 14 1303
OIL & GAS DIVISION
DEPT. OF MINES
A copy of this notice has been posted at the well site and sent by certified or registered

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

	011	and	Gas	Inspector	
ddress:					
	-				



IV-35 (Rev 8-81) State of Mest Pirginia Beparlment of Mines wie und Cas Bivision

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

WELL OPERATOR'S REPORT

OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas χ / Liquid Injection (If "Gas," Production χ / Underground				llow_x/)			
LOCATION: Elevation: 818.67 Watershed Rig	int fork o	of Flint Ro	ın				
District: Clay County Wirt	-			-			
				•			
COMPANY Bow Valley Petroleum Inc	7			1			
ADDRESS 600 Commerce Sq. Charleston, WV 25301	Casing	Used in	Left	Cement fill up			
DESIGNATED AGENT W. E. Stover	Tubing	Drilling	in Well	Cu. ft.			
ADDRESS Culloden, W	Size						
SURFACE OWNER Glen W. Roberts Estate	20-16 Cond.						
ADDRESS Elizabeth, WV	13-10"	24	24	15 sks			
MINERAL RIGHTS OWNER Westvaco	9 5/8	290.75	290.75	125 sks			
ADDRESS Parkersburg, W	8 5/8	-500.5					
OIL AND GAS INSPECTOR FOR THIS WORK Deo	7	1513.60	1513.60	160 sks			
Mace ADDRESS Sandridge, W	5 1/2	1313.00	1313.00	100 5/15			
PERMIT ISSUED 12-7-82	4 1/2		4650.90	280 sks			
DRILLING COMMENCED 12-13-82	3		4030.30	200 5/5			
DRIILING COMPLETED -12-21-82	2	Canadanani.	a i managana				
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used						
GEOLOGICAL TARGET FORMATION Devonian Shale - Ma				676' feet			
Depth of completed well 4676 feet R							
Water strata depth: Fresh 116 feet;							
Coal seam depths: N/A	Is coal	being mine	ed in the	area? No			
OPEN FLOW DATA							
Producing formation <u>Devonian Shale</u>	Pay	zone dept	h 1446'-4	676' feet			
Gas: Initial open flow show Mcf/d · Oil: Initial open flow Bbl/d							
Final open flow 400 Mcf/d							
Time of open flow between initi							
Static rock pressure testing psig(surface	measuren	ent) after	hou	rs shut in			
(If applicable due to multiple completion-	-)		01/	12/2024			
Second producing formation	Pay	zone dept	_h	feet			
Gas: Initial open flow Mcf/d							
Final open flow Mcf/d							
Time of open flow between initi							
Static rock pressurepsig(surface	measureme	ent) after	hou	rs shut in			
		(Contin	we on re	verse side)			

FORM IV-35 (REVERSE)

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

Well fraced in two stages; each stage consisting of 1,000,000 sft 3 of N $_2$ with 500 gallons of acid for initial breakdown.

WELL LOG

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

(Attach separate sheets as necessary)

Bow Valley Petroleum Inc.

Well Operator

By: / arin Combo

Date: December 30, 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 coal, encountered in the drilling of a well."