

1108

VIRGINIA:

BEFORE THE VIRGINIA GAS AND OIL BOARD

APPLICANT: CNX GAS COMPANY LLC) VIRGINIA GAS
) AND OIL BOARD
 RELIEF SOUGHT: POOLING OF INTERESTS IN)
 DRILLING UNIT NO. AW-147 LOCATED) DOCKET NO.
 IN THE MIDDLE RIDGE I COALBED) 16-1115-4101-01
 METHANE GAS FIELD PURSUANT TO VA.)
 CODE §§ 45.1-361.21 AND 45.1-361.22,)
 FOR THE PRODUCTION OF OCCLUDED)
 NATURAL GAS PRODUCED FROM COALBEDS)
 AND ROCK STRATA ASSOCIATED THEREWITH)
 (herein collectively referred to as)
 "Coalbed Methane Gas" or "Gas")

TAX Map
 IDENTIFICATION
 NUMBERS FOR
 ALL
 PARCELS
 AFFECTED BY
 THIS ORDER ARE
 SHOWN ON THE
 TRACT
 IDENTIFICATION
 PAGE
 FOLLOWING
 EXHIBIT A
 WHICH
 IS ATTACHED TO
 AND A PART OF

LEGAL DESCRIPTION:

DRILLING UNIT NUMBER AW-147)
 (herein "Subject Drilling Unit") IN THE)
 MIDDLE RIDGE I COALBED METHANE GAS FIELD)
 MAIDEN SPRINGS MAGISTERIAL DISTRICT)
 RICHLANDS QUADRANGLE)
 TAZEWELL COUNTY, VIRGINIA)
 (the "Subject Lands" are more)
 particularly described on Exhibit)
 "A", attached hereto and made a)
 part hereof))

REPORT OF THE BOARD

FINDINGS AND ORDER

1. Hearing Date and Place: This came for final hearing before the Virginia Gas and Oil board (hereafter "Board") at 9:00 a.m. on **March 21, 2017** at the at the Russell County Conference Center, Lebanon, Virginia.

2. Appearances: Mark Swartz, Esquire, of the firm Mark A. Swartz, Hilliard & Swartz, LLP, appeared for the Applicant; and Paul Kugelman, Jr., Senior Assistant Attorney General, was present to advise the Board.

3. Jurisdiction and Notice: Pursuant to Va. Code §§ 45.1-361.1 et seq., the Board finds that it has jurisdiction over the subject matter. Based upon the evidence presented by Applicant, the Board also finds that the Applicant has (1) exercised due diligence in conducting a search of the reasonably available sources to determine the identity and whereabouts of gas and oil owners, coal owners, mineral owners and/or potential owners, i.e., persons identified by Applicant as having ("Owner") or claiming ("Claimant") the rights to Coalbed Methane Gas in all coal seams below the Jawbone 1, including Tiller, Upper Horsepen, Middle Horsepen, War Creek, Beckley, Lower Horsepen, Pocahontas No. 8, Pocahontas No. 6, Pocahontas No. 5, Pocahontas No. 4, Pocahontas No. 3, Pocahontas No. 1 and various unnamed coal seams, coalbeds and rock strata associated therewith

(hereafter "Subject Formation") in Subject Drilling Unit underlying and comprised of Subject Lands; (2) represented it has given notice to those parties (hereafter sometimes "person(s)" whether referring to individuals, corporations, partnerships, associations, companies, businesses, trusts, joint ventures or other legal entities) entitled by Va. Code §§ 45.1-361.19 and 45.1-361.22, to notice of the Application filed herein; and (3) that the persons set forth in their Application and Notice of Hearing are persons identified by Applicant through its due diligence who may be Owners or Claimants of Coalbed Methane Gas interests underlying Subject Drilling Unit and that the persons identified in **Exhibit B-3** attached hereto are persons identified by Applicant who may be Owners or Claimants of Coalbed Methane Gas interests in Subject Formation who have not heretofore agreed to lease or sell to the Applicant and/or voluntarily pool their Gas interests. Conflicting Gas Owners/Claimants in Subject Drilling Unit are listed on **Exhibit E**. Further, the Board has caused notice of this hearing to be published as required by Va. Code § 45.1-361.19.B. Whereupon, the Board hereby finds that the notices given herein satisfy all statutory requirements, Board rule requirements and the minimum standards of due process.

4. Amendments: **None**

5. Dismissals: **None**

6. Relief Requested: Applicant requests (1) that pursuant to Va. Code § 45.1-361.22, including the applicable portions of Va. Code § 45.1-361.21, the Board pool all the rights, interests and estates in and to the Gas in Subject Drilling Unit, including the pooling of the interests of the Applicant and of the known and unknown persons named in **Exhibit B-3** hereto and that of their known and unknown heirs, executors, administrators, devisees, trustees, assigns and successors, both immediate and remote, for the drilling and operation, including production, of Coalbed Methane Gas, produced from or allocated to the Subject Drilling Unit established for the Subject Formation underlying and comprised of the Subject Lands, (hereafter sometimes collectively identified and referred to as "Well Development and/or Operation in the Subject Drilling Unit"), and (2) that the Board designate **CNX Gas Company LLC** as Unit Operator.

7. Relief Granted: The Applicant's requested relief in this cause be and hereby is granted: (1) Pursuant to Va. Code § 45.1-361.21.C.3, **CNX Gas Company LLC** (hereafter "Unit Operator") is designated as the Unit Operator authorized to drill and operate the Coalbed Methane Gas well in the Subject Drilling Unit at the location depicted on the plat attached hereto as **Exhibit A**, subject to the permit provisions contained in Va. Code §§ 45.1-361.27 et seq.; to the Middle Ridge I Coalbed Methane Gas Field Order VGOB 00-1017-0835, effective October 17, 2000; to §§ 4 VAC 25-150 et seq., Gas and Oil Regulations; and to §§ 4 VAC 25-160 et seq., Virginia Gas and Oil Board Regulations, all as amended from time to time, and (2) all the interests and estates in and to the Gas in Subject Drilling Unit, including that of the Applicant and of the known and unknown persons listed on **Exhibit B-3**, attached hereto and made a part hereof, and their known and unknown heirs, executors, administrators, devisees, trustees, assigns and successors, both immediate and remote, be and

hereby are pooled in the Subject Formation in the Subject Drilling Unit underlying and comprised of the Subject Lands.

Pursuant to the Middle Ridge I Field Rules, the Board has adopted the following method for the calculation of production and revenue and allocation of allowable costs for the production of Coalbed Methane Gas.

For Frac Well Gas. - Gas shall be produced from and allocated to only the **58.74**-acre drilling unit in which the well is located according to the undivided interests of each Owner/Claimant within the unit, which undivided interest shall be the ratio (expressed as a percentage) that the amount of mineral acreage within each separate tract that is within the Subject Drilling Unit, when platted on the surface, bears to the total mineral acreage, when platted on the surface, contained within the entire **58.74**-acre drilling unit in the manner set forth in the Middle Ridge I Field Rules.

8. Election and Election Period: In the event any Owner or Claimant named in **Exhibit B-3** hereto does not reach a voluntary agreement to share in the operation of the well located in the Subject Drilling Unit, at a rate of payment mutually agreed to by said Gas Owner or Claimant and the Unit Operator, then such person named may elect one of the options set forth in Paragraph 9 below and must give written notice of his election of the option selected under Paragraph 9 to the designated Unit Operator at the address shown below within thirty (30) days from the date of receipt of a copy of this Order. A timely election shall be deemed to have been made if, on or before the last day of said 30-day period, such electing person has delivered his written election to the designated Unit Operator at the address shown below or has duly postmarked and placed its written election in first class United States mail, postage prepaid, addressed to the Unit Operator at the address shown below.

9. Election Options:

9.1 Option 1 - To Participate In The Well Development and Operation of the Drilling Unit: Any Gas Owner or Claimant named in **Exhibit B-3** who does not reach a voluntary agreement with the Unit Operator may elect to participate in the Well Development and Operation in the Subject Drilling Unit (hereafter "Participating Operator") by agreeing to pay the estimate of such Participating Operator's proportionate part of the actual and reasonable costs of the Well Development contemplated by this Order for Gas produced pursuant to the Middle Ridge I Field Rules, including a reasonable supervision fee, as more particularly set forth in Virginia Gas and Oil Board Regulation 4 VAC 25-160-100 (herein "Completed-for-Production Costs"). Further, a Participating Operator agrees to pay the estimate of such Participating Operator's proportionate part of the Completed-for-Production Cost as set forth below to the Unit Operator within forty-five (45) days from the later of the date of mailing or the date of recording of this Order. The Completed-for-Production Cost for the Subject Drilling Unit is as follows:

Completed-for-Production Cost:	AW147	\$337,015.00
	AW147A	\$337,015.00
	<u>Total</u>	<u>\$674,030.00</u>

Any gas owner and/or claimants named in Exhibit B-3, who elect this option (Option 1) understand and agree that their initial payment under this option is for their proportionate share of the Applicant's estimate of actual costs and expenses. It is also understood by all persons electing this option that they are agreeing to pay their proportionate share of the actual costs and expenses as determined by the Operator named in this Board Order.

A Participating Operator's proportionate cost hereunder shall be the result obtained by multiplying the Participating Operators' "Interest in Unit" times the Completed-for-Production Cost set forth above. Provided, however, that in the event a Participating Operator elects to participate and fails or refuses to pay the estimate of his proportionate part of the Completed-for-Production Cost as set forth above, all within the time set forth herein and in the manner prescribed in Paragraph 8 of this Order, then such Participating Operator shall be deemed to have elected not to participate and to have elected compensation in lieu of participation pursuant to Paragraph 9.2 herein.

9.2 Option 2 - To Receive A Cash Bonus Consideration: In lieu of participating in the Well Development and Operation in Subject Drilling Unit under Paragraph 9.1 above, any Gas Owner or Claimant named in Exhibit B-3 hereto who does not reach a voluntary agreement with the Unit Operator may elect to accept a cash bonus consideration of **\$5.00** per net mineral acre owned by such person, commencing upon entry of this Order and continuing annually until commencement of production from Subject Drilling Unit, and thereafter a royalty of 1/8th of 8/8ths [twelve and one-half percent (12.5%)] of the net proceeds received by the Unit Operator for the sale of the Coalbed Methane Gas produced from any Well Development and Operation covered by this Order multiplied by that person's Interest in Unit or proportional share of said production [for purposes of this Order, net proceeds shall be actual proceeds received less post-production costs incurred downstream of the wellhead, including, but not limited to, gathering, compression, treating, transportation and marketing costs, whether performed by Unit Operator or a third person] as fair, reasonable and equitable compensation to be paid to said Gas Owner or Claimant. The initial cash bonus shall become due and owing when so elected and shall be tendered, paid or escrowed within one hundred twenty (120) days of recording of this Order. Thereafter, annual cash bonuses, if any, shall become due and owing on each anniversary of the date of recording of this order in the event production from Subject Drilling Unit has not theretofore commenced,

and once due, shall be tendered, paid or escrowed within sixty (60) days of said anniversary date. Once the initial cash bonus and the annual cash bonuses, if any, are so paid or escrowed, subject to a final legal determination of ownership, said payment(s) shall be satisfaction in full for the right, interests, and claims of such electing person in and to the Gas produced from Subject Formation in the Subject Lands, except, however, for the 1/8th royalties due hereunder.

Subject to a final legal determination of ownership, the election made under this Paragraph 9.2, when so made, shall be satisfaction in full for the right, interests, and claims of such electing person in any Well Development and Operation covered hereby and such electing person shall be deemed to and hereby does lease and assign, its right, interests, and claims in and to the Gas produced from Subject Formation in the Subject Drilling Unit to the Applicant.

- 9.3. Option 3 - To Share In The Well Development And Operation As A Non-Participating Person On A Carried Basis And To Receive Consideration In Lieu Of Cash: In lieu of participating in the Well Development and Operation in Subject Drilling Unit under Paragraph 9.1 above and in lieu of receiving a Cash Bonus Consideration under Paragraph 9.2 above, any Gas Owner or Claimant named in **Exhibit B-3** hereto who does not reach a voluntary agreement with the Unit Operator may elect to share in the Well Development and Operation of Subject Drilling Unit on a carried basis (as a "Carried Well Operator") so that the proportionate part of the Completed-for-Production Cost hereby allocable to such Carried Well Operator's interest is charged against such Carried Well Operator's share of production from Subject Drilling Unit. Such Carried Well Operator's rights, interests, and claims in and to the Gas in Subject Drilling Unit shall be deemed and hereby are assigned to the Applicant until the proceeds from the sale of such Carried Well Operator's share of production from Subject Drilling Unit (exclusive of any royalty, excess or overriding royalty, or other non-operating or non cost-bearing burden reserved in any lease, assignment thereof or agreement relating thereto covering such interest) equals three hundred percent (300%) for a leased interest or two hundred percent (200%) for an unleased interest (whichever is applicable) of such Carried Well Operator's share of the Completed-for-Production Cost allocable to the interest of such Carried Well Operator. When the Applicant recoups and recovers from such Carried Well Operator's assigned interest the amounts provided for above, then, the assigned interest of such Carried Well Operator shall automatically revert back to such Carried Well Operator, and from and after such reversion, such Carried Well Operator shall be treated as if it had participated initially under Paragraph 9.1 above; and thereafter, such participating person shall be charged with and shall pay his proportionate part of all further costs of such Well Development and Operation.

Subject to a final legal determination of ownership, the election made under this Paragraph 9.3, when so made, shall be satisfaction in full for the rights, interests, and claims of such electing person in any Well Development and Operation covered hereby and such electing person shall be deemed to have and hereby does assign its rights, interests, and claims in and to the Gas produced from Subject Formation in the Subject Drilling Unit to the Applicant for the period of time during which its interest is carried as above provided prior to its reversion back to such electing person.

10. Failure to Properly Elect: In the event a person named in **Exhibit B-3** hereto does not reach a voluntary agreement with the Unit Operator and fails to elect within the time, in the manner and in accordance with the terms of this Order, one of the alternatives set forth in Paragraph 9 above for which his interest qualifies, then such person shall be deemed to have elected not to participate in the proposed Well Development and Operation in Subject Drilling Unit and shall be deemed, subject to a final legal determination of ownership, to have elected to accept as satisfaction in full for such person's right, interests, and claims in and to the Gas the consideration provided in Paragraph 9.2 above for which its interest qualifies and shall be deemed to have leased and/or assigned his right, interests, and claims in and to the Gas produced from Subject Formation in the Subject Drilling Unit to the Applicant. Persons who fail to properly elect shall be deemed, subject to a final legal determination of ownership, to have accepted the compensation and terms set forth herein at Paragraph 9.2 in satisfaction in full for the right, interests, and claims of such person in and to the Gas produced from the Subject Formation underlying Subject Lands.

11. Default By Participating Person: In the event a person named in **Exhibit B-3** elects to participate under Paragraph 9.1, but fails or refuses to pay, to secure the payment or to make an arrangement with the Unit Operator for the payment of such person's proportionate part of the Completed-for-Production Cost as set forth herein, all within the time and in the manner as prescribed in this Order, then such person shall be deemed to have withdrawn his election to participate and shall be deemed to have elected to accept as satisfaction in full for such person's right, interest, and claims in and to the Gas the consideration provided in Paragraph 9.2 above for which his interest qualifies depending on the excess burdens attached to such interest. Whereupon, any cash bonus consideration due as a result of such deemed election shall be tendered, paid or escrowed by Unit Operator within one hundred twenty (120) days after the last day on which such defaulting person under this Order should have paid his proportionate part of such cost or should have made satisfactory arrangements for the payment thereof. When such cash bonus consideration is paid or escrowed, it shall be satisfaction in full for the right, interests, and claims of such person in and to the Gas underlying Subject Drilling Unit in the Subject Lands covered hereby, except, however, for any royalties which would become due pursuant to Paragraph 9.2 hereof.

12. Assignment of Interest: In the event a person named in

Exhibit B-3 is unable to reach a voluntary agreement to share in the Well Development and Operation contemplated by this Order at a rate of payment agreed to mutually by said Owner or Claimant and the Unit Operator, or fails to make an election under Paragraph 9.1 above, then subject to a final legal determination of ownership, such person shall be deemed to have and shall have assigned unto Applicant such person's right, interests, and claims in and to said well, and other share in production to which such person may be entitled by reason of any election or deemed election hereunder in accordance with the provisions of this Order governing said election.

13. Unit Operator (or Operator): **CNX Gas Company LLC** shall be and hereby is designated as Unit Operator authorized to drill and operate the Coalbed Methane Well in Subject Formation in Subject Drilling Unit, all subject to the permit provisions contained in Va. Code §§ 45.1-361.27 et seq.; §§ 4 VAC 25-150 et seq., Gas and Oil Regulations; §§ 4 VAC 25-160 et seq., Virginia Gas and Oil Board Regulations; the Middle Ridge I Coalbed Gas Field Order VGOB 00-1017-0835, all as amended from time to time, and all elections required by this Order shall be communicated to Unit Operator in writing at the address shown below:

**CNX Gas Company LLC
P.O. Box 570
Pounding Mill, VA 24637
Attn: Anita D. Duty**

14. Commencement of Operations: Unit Operator shall commence or cause to commence operations for the drilling of the well(s) within the Subject Drilling Unit and/or the well(s) outside the Subject Drilling Unit but from which production is allocated to the Subject Drilling Unit within Seven Hundred and Thirty (730) days from the date of the Order and shall prosecute same with due diligence. If Unit Operator shall not have so commenced and/or prosecuted, then this Order shall terminate, except for any cash sums then payable hereunder; otherwise, unless sooner terminated by Order of the Board, this Order shall expire at 12:00 P.M. on the date on which all wells covered by the Order and/or all wells from which production is allocated to the Subject Drilling Unit are permanently abandoned and plugged. However, in the event an appeal is taken from this Order, then the time between the filing of the petition for appeal and the final Order of the Circuit Court shall be excluded in calculating the two-year period referred to herein.

15. Operator's Lien: Unit Operator, in addition to the other rights afforded hereunder, shall have a lien and a right of set off on the Gas estates, rights, and interests owned by any person subject hereto who elects to participate under Paragraph 9.1 in the Subject Drilling Unit to the extent that costs incurred in the drilling or operation on the Subject Drilling Unit are chargeable against such person's interest. Such liens and right of set off shall be separable as to each separate person and shall remain liens until the Unit Operator drilling or operating any well covered hereby has been paid the full amounts due under the terms of this Order.

16. Escrow Provisions:

The Applicant represented to the Board that there **are**

unknown or unlocatable claimants in **Tract(s) 1C** of the Subject Drilling Unit whose payments are subject to the provisions of Paragraph 16.1 and the Unit Operator has represented to the Board that there **are no** conflicting claimants in the Subject Drilling Unit whose payments are subject to the provisions of Paragraph 16.2 hereof. Therefore, by this Order, the Escrow Agent named herein or any successor named by the Board, **is** required to establish an interest-bearing escrow account for **Tract(s) 1C** of Subject Drilling Unit (herein "Escrow Account"), and to receive and account to the Board pursuant to its agreement for the escrowed funds hereafter described in Paragraphs 16.1 and 16.2:

**First Bank & Trust Company
38 E. Valley Drive
Bristol, VA 24201
Attn: Escrow Agent**

16.1. Escrow Provisions For Unknown or Unlocatable Persons: If any payment of bonus, royalty payment or other payment due and owing under this Order cannot be made because the person entitled thereto cannot be located or is unknown, then such cash bonus, royalty payment, or other payment shall not be commingled with any funds of the Unit Operator and, pursuant to Va. Code § 45.1-361.21.D, said sums shall be deposited by the Unit Operator into the Escrow Account, commencing within one hundred twenty (120) days of recording of this Order, and continuing thereafter on a monthly basis with each deposit to be made, by use of a report format approved by the Inspector, by a date which is no later than sixty (60) days after the last day of the month being reported and/or for which funds are being deposited. Such funds shall be held for the exclusive use of, and sole benefit of the person entitled thereto until such funds can be paid to such person(s) or until the Escrow Agent relinquishes such funds as required by law or pursuant to Order of the Board in accordance with Va. Code § 45.1-361.21.D.

16.2 Escrow Provisions For Conflicting Claimants: If any payment of bonus, royalty payment, proceeds in excess of ongoing operational expenses, or other payment due and owing under this Order cannot be made because the person entitled thereto cannot be made certain due to conflicting claims of ownership and/or a defect or cloud on the title, then such cash bonus, royalty payment, proceeds in excess of ongoing operational expenses, or other payment, together with Participating Operator's Proportionate Costs paid to Unit Operator pursuant to Paragraph 9.1 hereof, if any, (1) shall not be commingled with any funds of the Unit Operator; and (2) shall, pursuant to Va. Code §§ 45.1-361.22.A.2, 45.1-361.22.A.3 and 45.1-361.22.A.4, be deposited by the Operator into the Escrow Account within one hundred twenty (120) days of recording of this Order, and continuing thereafter on a monthly basis with each deposit to be made by a date which is no later than sixty (60) days after the last day of the month being reported and/or for which funds are subject to deposit.

Such funds shall be held for the exclusive use of, and sole benefit of, the person entitled thereto until such funds can be paid to such person(s) or until the Escrow Agent relinquishes such funds as required by law or pursuant to Order of the Board.

17. Special Findings: The Board specifically and specially finds:
- 17.1. **CNX Gas Company LLC**, a Virginia limited liability company is duly authorized and qualified to transact business in the Commonwealth of Virginia;
- 17.2. **CNX Gas Company LLC** has the authority to explore, develop and maintain the properties and assets now owned or hereafter acquired, consented to serve as Coalbed Methane Gas Unit Operator for Subject Drilling Unit and to faithfully discharge the duties imposed upon it as Unit Operator by statute and regulations;
- 17.3. **CNX Gas Company LLC** is an operator in the Commonwealth of Virginia, and has satisfied the Board's requirements for operations in Virginia;
- 17.4. **CNX Gas Company LLC** claims ownership of gas leases, Coalbed Methane Gas leases, and/or coal leases representing **95.8972** percent of the oil and gas interest/claims in and to Coalbed Methane Gas and **100.0000** percent of the coal interest/claims in and to Coalbed Methane Gas in Subject Drilling Unit; and, Applicant claims the right to explore for, develop and produce Coalbed Methane Gas from Subject Formations in Subject Drilling Unit in **Tazewell** County, Virginia, which Subject Lands are more particularly described in **Exhibit A**;
- 17.5. The estimated total production from Subject Drilling Unit is **125 MMCF to 550 MMCF**. The estimated amount of reserves from the Subject Drilling Unit is **125 MMCF to 550 MMCF**;
- 17.6. Set forth in **Exhibit B-3**, is the name and last known address of each Owner or Claimant identified by the Applicant as having or claiming an interest in the Coalbed Methane Gas in Subject Formation in Subject Drilling Unit underlying and comprised of Subject Lands, who has not, in writing, leased to the Applicant or the Unit Operator or agreed to voluntarily pool his interests in Subject Drilling Unit for its development. The interests of the Respondents listed in **Exhibit B-3** comprise **4.1028** percent of the oil and gas interests/claims in and to Coalbed Methane Gas and **0.0000** percent of the coal interests/claims in and to Coalbed Methane Gas in Subject Drilling Unit;
- 17.7. Applicant's evidence established that the fair, reasonable and equitable compensation to be paid to any person in lieu of the right to participate in the Wells are those options provided in Paragraph 9 above;
- 17.8. The relief requested and granted is just and reasonable, is

supported by substantial evidence and will afford each person listed and named in **Exhibit B-3** hereto the opportunity to recover or receive, without unnecessary expense, such person's just and fair share of the production from Subject Drilling Unit. The granting of the Application and relief requested therein will ensure to the extent possible the greatest ultimate recovery of Coalbed Methane Gas, prevent or assist in preventing the various types of waste prohibited by statute and protect or assist in protecting the correlative rights of all persons in the subject common sources of supply in the Subject Lands. Therefore, the Board is entering an Order granting the relief herein set forth.

18. Mailing Of Order And Filing Of Affidavit: Applicant or its Attorney shall file an affidavit with the Secretary of the Board within sixty (60) days after the date of recording of this Order stating that a true and correct copy of said Order was mailed within seven (7) days from the date of its receipt by Unit Operator to each Respondent named in Exhibit B-3 pooled by this Order and whose address is known.

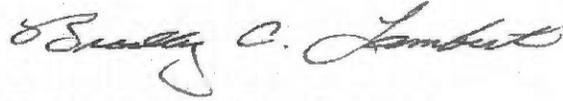
19. Availability of Unit Records: The Director shall provide all persons not subject to a lease with reasonable access to all records for Subject Drilling Unit which are submitted by the Unit Operator to said Director and/or his Inspector(s).

20. Conclusion: Therefore, the requested relief and all terms and provisions set forth above be and hereby are granted and IT IS SO ORDERED.

21. Appeals: Appeals of this Order are governed by the provisions of Va. Code Ann. § 45.1-361.9 which provides that any order or decision of the Board may be appealed to the appropriate circuit court.

22. Effective Date: This Order shall be effective as of the date of the Board's approval of this Application, which is set forth at Paragraph 1 above.

DONE AND EXECUTED this 28 day of March, 2017 by a majority of the Virginia Gas and Oil Board.



Chairman, Bradley C. Lambert

DONE AND PERFORMED this 28 day of March, 2017 by Order of the Virginia Gas and Oil Board.



Rick Cooper
Principal Executive to the
staff, Virginia Gas and Oil Board

COMMONWEALTH OF VIRGINIA
COUNTY OF RUSSELL

Acknowledged on this 28 day of March, 2017, personally before me a notary public in and for the Commonwealth of Virginia, appeared Bradley C. Lambert, being duly sworn did depose and say that he is the Chairman of the Virginia Gas and Oil Board and appeared Rick Cooper, being duly sworn did depose and say that he is Principal Executive to the staff of the Virginia Gas and Oil Board, that they executed the same and was authorized to do so.

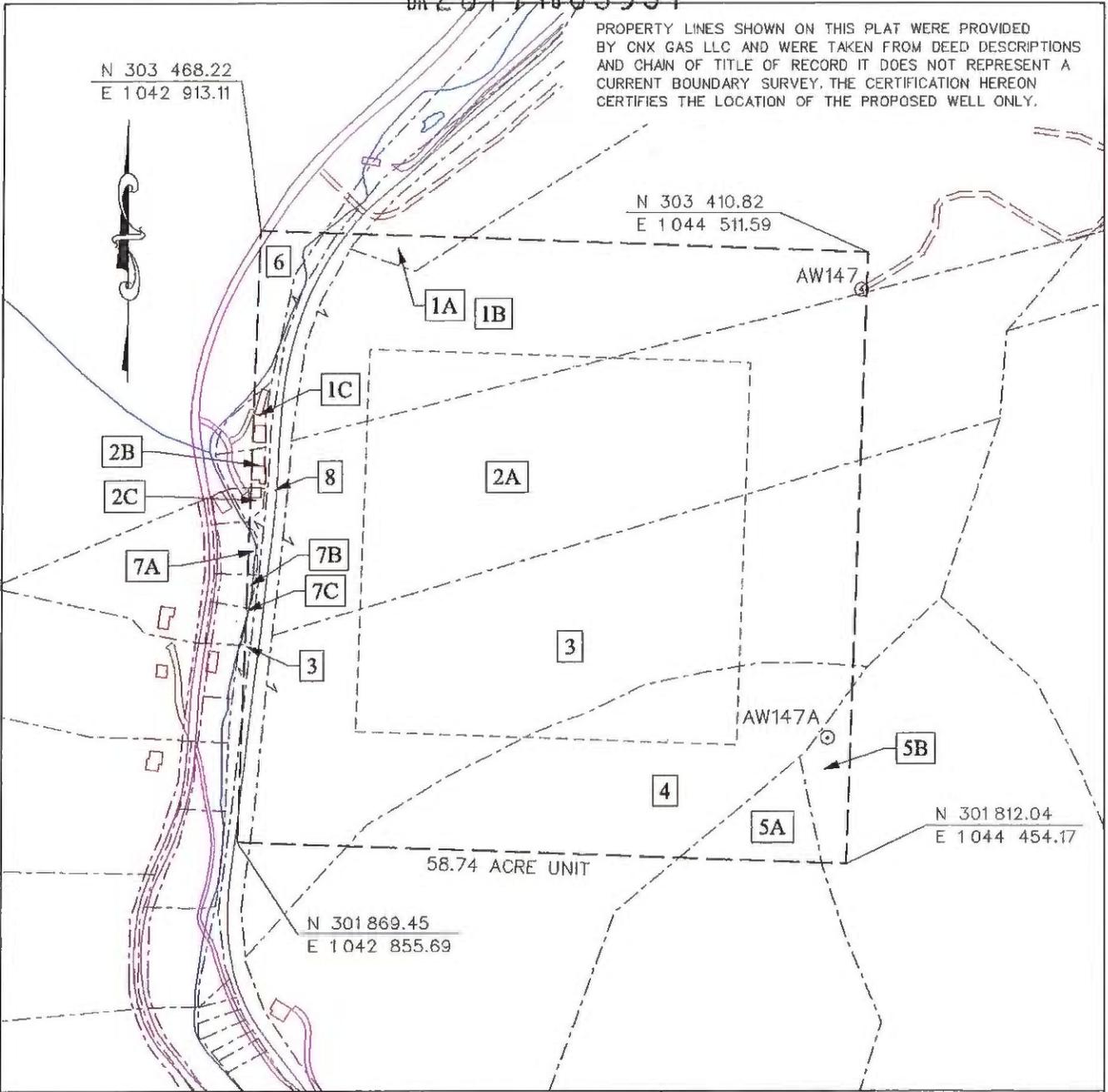


Sally Settle Ketron, Notary Public
7623162

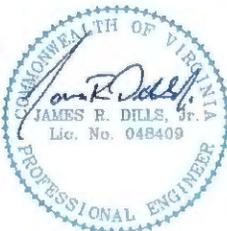
My Commission expires: January 31, 2019



PROPERTY LINES SHOWN ON THIS PLAT WERE PROVIDED BY CNX GAS LLC AND WERE TAKEN FROM DEED DESCRIPTIONS AND CHAIN OF TITLE OF RECORD IT DOES NOT REPRESENT A CURRENT BOUNDARY SURVEY. THE CERTIFICATION HEREON CERTIFIES THE LOCATION OF THE PROPOSED WELL ONLY.



⊙ CBM WELL
⊙ PROPOSED CBM



Digitally signed by James R Dills Jr.
DN: c=US, o=IdenTrust ACES
Business Representative, ou=D. R.
PRICE ENGINEERING AND LAND
SURVEYING INC PC, cn=James R
Dills Jr.,
0.9.2342.19200300.100.1.1=A01096
90000012E01701153000027EA
Date: 2017.02.08 10:28:42 -05'00'

EXHIBIT A
MIDDLE RIDGE FIELD
UNIT AW147
FORCE POOLING
VGOB-16-1115-4101-01

Company CNX Gas Company LLC Well Name and Number UNIT AW147
 Tract No. _____ Elevation _____ Quadrangle RICHLANDS
 County TAZEWELL District MAIDEN SPRINGS Scale: 1" = 400' Date 2/3/17
 This plat is a new plat X ; an updated plat _____ ; or a final plat _____

Form DGO-GO-7 _____ (Affix Seal)
 Rev. 9/91 Licensed Professional Engineer or Licensed Land Surveyor

CNX Gas Company LLC

BK 2017 PG 05932

UNIT AW147**Tract Identifications**

- 1A. Coronado IV LLC (Faraday Tract 260) 84.35 Acre Tract – All Coal
Lauren Land Company – Lower Seaboard and Above Coal Leased
CNX Gas Company LLC – CBM
Cabot Oil and Gas Corporation – Oil and Gas
Norton Coal Company LLC – Surface
Tax Map 87A Parcel 34
0.39 Acres 0.6639%
- 1B. Coronado IV LLC (Faraday Tract 260) 84.35 Acre Tract – All Coal
Lauren Land Company – Lower Seaboard and Above Coal Leased
CNX Gas Company LLC – CBM
Cabot Oil and Gas Corporation – Oil and Gas
Dominion Woodlands, LLC – Surface
Tax Map 87A Parcel 34
10.41 Acres 17.7222%
- 1C. Coronado IV LLC (Faraday Tract 260) 84.35 Acre Tract – All Coal
Lauren Land Company – Lower Seaboard and Above Coal Leased
CNX Gas Company LLC – CBM
Lawrence Stinson Heirs, et al – Surface, Oil and Gas
Tax Map 87A-A Parcel 1 & 2
0.12 Acres 0.2043%
- 2A. Coronado IV LLC (Faraday Tract 154) 21.85 Acre Tract – All Coal
Lauren Land Company – Lower Seaboard and Above Coal Leased
CNX Gas Company LLC – CBM
Cabot Oil and Gas Corporation – Oil and Gas
Dominion Woodlands, LLC – Surface
Tax Map 87A Parcel 35
16.45 Acres 28.0048%
- 2B. Coronado IV LLC (Faraday Tract 154) 21.85 Acre Tract – All Coal
Lauren Land Company – Lower Seaboard and Above Coal Leased
CNX Gas Company LLC – CBM
Wiley and Marie Blankenship Heirs – Surface, Oil and Gas
Tax Map 87A Parcel 3
0.08 Acres 0.1362%
- 2C. Coronado IV LLC (Faraday Tract 154) 21.85 Acre Tract – All Coal
Lauren Land Company – Lower Seaboard and Above Coal Leased
CNX Gas Company LLC – CBM
Thomas A. Blankenship, et al – Surface, Oil and Gas
Tax Map 87A Parcel 4
0.05 Acres 0.0851%

This title block is for general informational purposes only and does not reflect an analysis of the severance deed and its effect upon coalbed methane ownership and should not be relied upon for such purpose.

CNX Gas Company LLC**UNIT AW147****Tract Identifications**

3. Sydney L. Asbury, et al (21.57 Acre Tract) – Minerals
 CNX Gas Company LLC – Oil, Gas and CBM Leased
 Sydney L. Asbury, et al – Surface
 Tax Map NM0098
 17.68 Acres 30.0987%
4. Andy Lee Brown, et ux (20.00 Acre Tract) – Fee
 Tax Map 87A Parcel 17
 8.57 Acres 14.5897%
5. Estate of Mary L. Spratt, et al (39.00 Acre Tract) – Minerals
 Simmons Land and Properties, Inc. – Greasy Creek Coal Seam Leased
 Tax Map 87A Parcel 16
 2.10 Acres 3.5751%
- 5A. Unknown Surface Owner
 5B. Unknown Surface Owner
6. Southern Region Industrial Realty Corp., Tr.1 (4430 Acre Tract) – All Coal except P-3 Seam
 Buchanan Mining Company LLC – Coal in P-3 Seam
 CNX Gas Company LLC – CBM in P-3 Seam
 White Wolf Energy, Inc - All Coal Leased except P-3, Raven, Tiller and Lower Seaboard Seams
 Pardee Royalty LLC and Pardee Minerals LLC – Oil, Gas and CBM except CBM in P-3 Seam
 CNX Gas Company LLC – CBM Leased (Deemed Leased via JOA)
 Southern Region Industrial Realty Corporation – Surface
 Appalachian Forests A., LLC – Timber
 Tax Map 105 Parcel 30
 0.80 Acres 1.3619%
- 7A. Southern Region Industrial Realty Corp., Tr. 12 (153.17 Acre Tract) - All Coal Except P-3 Seam
 Buchanan Mining Company LLC – Coal in P-3 Seam
 CNX Gas Company LLC – CBM in P-3 Seam
 White Wolf Energy, Inc - All Coal Leased except P-3, Raven, Tiller and Lower Seaboard Seams
 Pardee Royalty LLC and Pardee Minerals LLC – Oil, Gas and CBM except CBM in P-3 Seam
 CNX Gas Company LLC – CBM Leased (Deemed Leased via JOA)
 James Russell Estep Heirs - Surface, Oil and Gas
 Tax Map 87A Parcel 5A
 0.06 Acres 0.1021%
- 7B. Southern Region Industrial Realty Corp., Tr. 12 (153.17 Acre Tract) - All Coal Except P-3 Seam
 Buchanan Mining Company LLC – Coal in P-3 Seam
 CNX Gas Company LLC – CBM in P-3 Seam
 White Wolf Energy, Inc - All Coal Leased except P-3, Raven, Tiller and Lower Seaboard Seams
 Pardee Royalty LLC and Pardee Minerals LLC – Oil, Gas and CBM except CBM in P-3 Seam
 CNX Gas Company LLC – CBM Leased (Deemed Leased via JOA)
 Bobby Wayne Hale, Sr. – Surface, Oil and Gas
 CNX Gas Company LLC – Oil, Gas and CBM Leased
 Tax Map 87A Parcel 6
 0.03 Acres 0.0511%

This title block is for general informational purposes only and does not reflect an analysis of the severance deed and its effect upon coalbed methane ownership and should not be relied upon for such purpose.

CNX Gas Company LLC
UNIT AW147
Tract Identifications

BK 2017 PG 05934

- 7C. Southern Region Industrial Realty Corp., Tr. 12 (153.17 Acre Tract) - All Coal Except P-3 Seam
Buchanan Mining Company LLC -- Coal in P-3 Seam
CNX Gas Company LLC -- CBM in P-3 Seam
White Wolf Energy, Inc - All Coal Leased except P-3, Raven, Tiller and Lower Seaboard Seams
Pardee Royalty LLC and Pardee Minerals LLC -- Oil, Gas and CBM except CBM in P-3 Seam
CNX Gas Company LLC -- CBM Leased (Deemed Leased via JOA)
Bobby Wayne Hale, Sr. -- Surface, Oil and Gas
CNX Gas Company LLC -- Oil, Gas and CBM Leased
Tax Map 87A Parcel 7
0.01 Acres 0.0170%
8. Norfolk Southern Railway Company (1.26 Acre Tract) -- Fee
CNX Gas Company LLC -- CBM Leased
Tax Map 087 Parcel 0000
1.99 Acres 3.3878%

This title block is for general informational purposes only and does not reflect an analysis of the severance deed and its effect upon coalbed methane ownership and should not be relied upon for such purpose.

Exhibit B
Unit AW-147
Docket #VGOB 16-1115-4101-01
List of all Owners/Claimants
(58.74 Acre Unit)

	Net Acres in Unit	Interest in Unit
I. COAL OWNERSHIP		
<u>Tract #1A- 0.39 acres</u>		
(1) Coronado IV LLC <i>Faraday Tract 260 (84.35 acres)</i> Attn: Jason Bragg 100 Bill Baker Way Beckley, WV 25801	0.39 acres	0.6639%
<u>Tract #1B- 10.41 acres</u>		
(1) Coronado IV LLC <i>Faraday Tract 260 (84.35 acres)</i> Attn: Jason Bragg 100 Bill Baker Way Beckley, WV 25801	10.41 acres	17.7222%
<u>Tract #1C- 0.12 acres</u>		
(1) Coronado IV LLC <i>Faraday Tract 260 (84.35 acres)</i> Attn: Jason Bragg 100 Bill Baker Way Beckley, WV 25801	0.12 acres	0.2043%
<u>Tract #2A- 16.45 acres</u>		
(1) Coronado IV LLC <i>Faraday Tract 154 (21.85 acres)</i> Attn: Jason Bragg 100 Bill Baker Way Beckley, WV 25801	16.45 acres	28.0048%
<u>Tract #2B- 0.08 acres</u>		
(1) Coronado IV LLC <i>Faraday Tract 154 (21.85 acres)</i> Attn: Jason Bragg 100 Bill Baker Way Beckley, WV 25801	0.08 acres	0.1362%
<u>Tract #2C- 0.05 acres</u>		
(1) Coronado IV LLC <i>Faraday Tract 154 (21.85 acres)</i> Attn: Jason Bragg 100 Bill Baker Way Beckley, WV 25801	0.05 acres	0.0851%
<u>Tract #3 - 17.68 acres</u>		
(1) Sydney L. Asbury, et al. <i>(21.57 acre tract)</i>	17.68 acres	30.0987%
(a) Sydney L. Asbury 4561 Scenic View Drive Pegram, TN 37143	7.86 acres 4/9 of 17.68 acres	13.3772%
(b) Rose A. Matthews Heirs, Deviseses, Successors or Assigns		
(b.1) Rosalind M. Black 1268 Springdale Rd. Gainesville, GA 30501	9.82 acres 5/9 of 17.68 acres	16.7215%
<u>Tract #4 - 8.57 acres</u>		
(1) Andy Lee & Charlene Brown, et ux <i>(21.57 acre tract)</i> PO Box 26 Richlands, VA 24641	8.57 acres	14.5897%
<u>Tract #5 - 2.10 acres</u>		
(1) Estate of Mary Spratt, et al <i>(39.00 acre tract)</i> <i>(aka A.S. Richardson Heirs, et al)</i>	2.10 acres	3.5751%
(a) Dr. A. S (Alexander Stuart) Richardson Heirs, Deviseses, Successors or Assigns		
(a.1) Dr. James Stuart Richardson Heirs, Deviseses, Successors or Assigns		

**Exhibit B
Unit AW-147
Docket #VGOB 16-1115-4101-01
List of all Owners/Claimants
(58.74 Acre Unit)**

	Net Acres in Unit	Interest in Unit
(a.1.1) Nancy Elizabeth Richardson Raybold 10206 Carol St. Great Falls, VA 22066	0.18 acres 1/12 of 2.10 acres	0.2979%
(a.1.2) James Stuart (aka Jimmy) Richardson, Jr. 9128 Huron Ave Henrico, VA 23294	0.18 acres 1/12 of 2.10 acres	0.2979%
(a.1.3) Thomas Moore Richardson 201 Wharton St SE Blacksburg, VA 24060	0.18 acres 1/12 of 2.10 acres	0.2979%
(a.2) W. Miller Richardson Heirs, Deviseses,		
(a.2.1) W. Miller Richardson Trust c/o Wayne T. Horne, Trustee PO Box 935 Grundy, VA 24614	0.53 acres 1/4 of 2.10 acres	0.8938%
(b) Estate of Mary E. Spratt c/o Mary Spratt Graybeal, Trustee 5813 Willow Oaks Dr, Apt D Richmond, VA 23225	1.05 acres 1/2 of 2.10 acres	1.7875%

Tract #6 - 0.80 acres

- (1) Southern Region Industrial Realty Corp. *(Coal except P*
Tr. 1 (4430 acre tract)
Pocahontas Land Corporation, Agent
P. O. Box 1517
Bluefield, WV 24701

Southern Region Industrial Realty Corp. conveyed all rights, title and interest by Special Warranty Oil & Gas Deed to Penn Virginia Oil & Gas Corporation on April 1, 2000, recorded in Buchanan County under DB508 / PG99

Penn Virginia Oil & Gas Corporation

Effective January 1, 2012, Penn Virginia Oil & Gas Corporation by Assignment and Bill of Sale transferred all of its rights, title and interest to "certain" properties to EverVest Energy Funds

EnerVest Energy Funds

With an effective date of January 1, 2013, Enervest Energy Funds conveyed by Special Warranty Deed all its rights, title and interest to "certain" properties to Pardee Royalty LLC and Pardee Minerals LLC

Pardee Royalty LLC and Pardee Minerals LLC
P. O. Box 102904
Atlanta, GA 30368-2904

White Wolf Energy, Inc.
300 Corporate Centre Drive
Scott Depot, WV 25860
(previously Anker Virginia Mining Company, Inc.)

- (2) Buchanan Mining Company *(Coal in P3 Seam only)* 0.80 acres
PO Drawer L
Oakwood, VA 24631

Tract #7A - 0.06 acres

- (1) Southern Region Industrial Realty Corp. *(Coal except P*
Tr. 12 (153.17 acre tract)
Pocahontas Land Corporation, Agent
P. O. Box 1517
Bluefield, WV 24701

Southern Region Industrial Realty Corp. conveyed all rights, title and interest by Special Warranty Oil & Gas Deed to Penn Virginia Oil & Gas Corporation on April 1, 2000, recorded in Buchanan County under DB508 / PG99

Penn Virginia Oil & Gas Corporation

Effective January 1, 2012, Penn Virginia Oil & Gas Corporation by Assignment and Bill of Sale transferred all of its rights, title and interest to "certain" properties to EverVest Energy Funds

EnerVest Energy Funds

With an effective date of January 1, 2013, Enervest Energy Funds conveyed by Special Warranty Deed all its rights, title and interest to "certain" properties to Pardee Royalty LLC and Pardee Minerals LLC

Pardee Royalty LLC and Pardee Minerals LLC
P. O. Box 102904
Atlanta, GA 30368-2904

Exhibit B
Unit AW-147
Docket #VGOB 16-1115-4101-01
List of all Owners/Claimants
(58.74 Acre Unit)

	Net Acres in Unit	Interest in Unit
White Wolf Energy, Inc. 300 Corporate Centre Drive Scott Depot, WV 25660 <i>(previously Anker Virginia Mining Company, Inc.)</i>		
(2) Buchanan Mining Company <i>(Coal in P3 Seam only)</i> PO Drawer L Oakwood, VA 24631	0.06 acres	
Tract #7B - 0.03 acres		
(1) Southern Region Industrial Realty Corp. <i>(Coal except P Tr. 12 (153.17 acre tract))</i> Pocahontas Land Corporation, Agent P. O. Box 1517 Bluefield, WV 24701	0.03 acres	0.0511%
<p style="text-align: center;"><i>Southern Region Industrial Realty Corp. conveyed all rights, title and interest by Special Warranty Oil & Gas Deed to Penn Virginia Oil & Gas Corporation on April 1, 2000, recorded in Buchanan County under DB508 / PG99</i></p> <p>Penn Virginia Oil & Gas Corporation</p> <p style="text-align: center;"><i>Effective January 1, 2012, Penn Virginia Oil & Gas Corporation by Assignment and Bill of Sale transferred all of its rights, title and interest to "certain" properties to EverVest Energy Funds</i></p> <p>EnerVest Energy Funds</p> <p style="text-align: center;"><i>With an effective date of January 1, 2013, EnerVest Energy Funds conveyed by Special Warranty Deed all its rights, title and interest to "certain" properties to Pardee Royalty LLC and Pardee Minerals LLC</i></p> <p>Pardee Royalty LLC and Pardee Minerals LLC P. O. Box 102904 Allanta, GA 30368-2904</p> <p>White Wolf Energy, Inc. 300 Corporate Centre Drive Scott Depot, WV 25660 <i>(previously Anker Virginia Mining Company, Inc.)</i></p>		
(2) Buchanan Mining Company <i>(Coal in P3 Seam only)</i> PO Drawer L Oakwood, VA 24631	0.03 acres	
Tract #7C - 0.01 acres		
(1) Southern Region Industrial Realty Corp. <i>(Coal except P Tr. 12 (153.17 acre tract))</i> Pocahontas Land Corporation, Agent P. O. Box 1517 Bluefield, WV 24701	0.01 acres	0.0170%
<p style="text-align: center;"><i>Southern Region Industrial Realty Corp. conveyed all rights, title and interest by Special Warranty Oil & Gas Deed to Penn Virginia Oil & Gas Corporation on April 1, 2000, recorded in Buchanan County under DB508 / PG99</i></p> <p>Penn Virginia Oil & Gas Corporation</p> <p style="text-align: center;"><i>Effective January 1, 2012, Penn Virginia Oil & Gas Corporation by Assignment and Bill of Sale transferred all of its rights, title and interest to "certain" properties to EverVest Energy Funds</i></p> <p>EnerVest Energy Funds</p> <p style="text-align: center;"><i>With an effective date of January 1, 2013, EnerVest Energy Funds conveyed by Special Warranty Deed all its rights, title and interest to "certain" properties to Pardee Royalty LLC and Pardee Minerals LLC</i></p> <p>Pardee Royalty LLC and Pardee Minerals LLC P. O. Box 102904 Allanta, GA 30368-2904</p> <p>White Wolf Energy, Inc. 300 Corporate Centre Drive Scott Depot, WV 25660 <i>(previously Anker Virginia Mining Company, Inc.)</i></p>		
(2) Buchanan Mining Company <i>(Coal in P3 Seam only)</i> PO Drawer L Oakwood, VA 24631	0.01 acres	
Tract #8 - 1.99 acres		
(1) Norfolk Southern Railway Company <i>(1.26 Acre Tract)</i> Pocahontas Land Corporation P. O. Box 1517 Bluefield, WV 24701	1.99 acres	3.3878%

Exhibit B
 Unit AW-147
 Docket #VGOB 16-1115-4101-01
 List of all Owners/Claimants
 (58.74 Acre Unit)

	Net Acres in Unit	Interest in Unit
II. OIL & GAS OWNERSHIP		
<u>Tract #1A, 0.39 acres</u>		
(1) Cabot Oil & Gas Corporation ** 15375 Memorial Drive P.O. Box 4544 Houston, TX 77210-4544	0.39 acres	100.0000%
(2) CNX Gas Company LLC (CBM only) ** 1000 Consol Energy Drive Canonsburg, PA 15317	0.39 acres	0.8639%
<i>** Note: CBM ownership is separate from Oil & Gas Ownership. There is no conflict between the Oil & Gas Owner and the CBM Owner.</i>		
<u>Tract #1B, 10.41 acres</u>		
(1) Cabot Oil & Gas Corporation ** 15375 Memorial Drive P.O. Box 4544 Houston, TX 77210-4544	10.41 acres	
(2) CNX Gas Company LLC (CBM only) ** 1000 Consol Energy Drive Canonsburg, PA 15317	10.41 acres	17.7222%
<i>** Note: CBM ownership is separate from Oil & Gas Ownership. There is no conflict between the Oil & Gas Owner and the CBM Owner.</i>		
<u>Tract #1C - 0.12 acres</u>		
(1) Lawrence Stinson Heirs, et al	0.12 acres	0.2043%
(a) Wiley Blankenship Heirs, Deviseses, Successors or Assigns		
(b) Marie Blankenship Heirs, Deviseses, Successors or Assigns		
(b.1) Lawrence Stinson Heirs, Deviseses, Successors or Assigns (Heirs Unknown)	0.06 acres 1/2 of 0.12 acres	0.1021%
(b.1.1) Lena Stinson PO Box 59 Richlands, VA 24641	0.06 acres 1/2 of 0.12 acres	0.1021%
<u>Tract #2A, 16.45 acres</u>		
(1) Cabot Oil & Gas Corporation ** 15375 Memorial Drive P.O. Box 4544 Houston, TX 77210-4544	16.45 acres	
(2) CNX Gas Company LLC (CBM only) ** 1000 Consol Energy Drive Canonsburg, PA 15317	16.45 acres	28.0048%
<i>** Note: CBM ownership is separate from Oil & Gas Ownership. There is no conflict between the Oil & Gas Owner and the CBM Owner.</i>		
<u>Tract #2B, 0.08 acres</u>		
(1) Wiley & Marie Blankenship Heirs	0.08 acres	0.1362%
(a) Eulis Clifford Blankenship Heirs, Deviseses, Successors or Assigns		
(a.1) Thelma Short Blankenship Heirs, Deviseses, Successors or Assigns		
(a.1.1) Thomas Allen Blankenship 144 Lookout Rd. Richlands, VA 24641	0.01 acres 1/8 of 0.08 acres	0.0170%
(a.1.2) Tamle Reedy PO Box 1274 Cedar Bluff, VA 24609	0.01 acres 1/8 of 0.08 acres	0.0170%
(b) Lena Stinson PO Box 59 Richlands, VA 24641	0.02 acres 1/4 of 0.08 acres	0.0340%
(c) Carlis Blankenship Heirs, Deviseses, Successors or Assigns		

Exhibit B
Unit AW-147
Docket #VGOB 16-1115-4101-01
List of all Owners/Claimants
(58.74 Acre Unit)

	Net Acres in Unit	Interest in Unit
(c.1) Janice Barrett 213 Straley St Marion, VA 24354	0.02 acres 1/4 of 0.08 acres	0.0340%
(d) JW Blankenship 1134 Castleberry Rd Brewton, AL 36426	0.02 acres 1/4 of 0.08 acres	0.0340%
<u>Tract #2C, 0.05 acres</u>		
(1) Thomas A. Blankenship, et al		
(a) Wiley & Marie Blankenship Heirs, Devisees, Successors or Assigns		
(a.1) Eulis Clifford Blankenship Heirs, Devisees, Successors or Assigns		
(a.1.1) Thelma Short Blankenship Heirs, Devisees, Successors or Assigns		
(a.1.1.1) Thomas Allen Blankenship 144 Lookout Rd. Richlands, VA 24641	<i>Life Estate</i>	
(a.1.2) Tamie Reedy PO Box 1274 Cedar Bluff, VA 24609	0.05 acres	0.0851%
<u>Tract #3 - 17.68 acres</u>		
(1) Sydney L. Asbury, et al. (21.57 acre tract)	17.68 acres	30.0987%
(a) Sydney L. Asbury 4581 Scenic View Drive Pegram, TN 37143	7.86 acres 4/9 of 17.68 acres	13.3772%
(b) Rose A. Mathews Heirs, Devisees, Successors or Assigns		
(b.1) Rosalind M. Black 1268 Springdale Rd. Gainesville, GA 30501	9.82 acres 5/9 of 17.68 acres	16.7215%
<u>Tract #4 - 8.57 acres</u>		
(1) Andy Lee & Charlene Brown, et ux (21.57 acre tract) PO Box 26 Richlands, VA 24641	8.57 acres	14.5897%
<u>Tract #5 - 2.10 acres</u>		
(1) Estate of Mary Spratt, et al (39.00 acre tract) (aka A.S. Richardson Heirs, et al)	2.10 acres	3.5751%
(a) Dr. A. S (Alexander Stuart) Richardson Heirs, Devisees, Successors or Assigns		
(a.1) Dr. James Stuart Richardson Heirs, Devisees, Successors or Assigns		
(a.1.1) Nancy Elizabeth Richardson Raybold 10206 Carol St. Great Falls, VA 22066	0.18 acres 1/12 of 2.10 acres	0.2979%
(a.1.2) James Stuart (aka Jimmy) Richardson, Jr. 8128 Huron Ave Henrico, VA 23294	0.18 acres 1/12 of 2.10 acres	0.2979%
(a.1.3) Thomas Moore Richardson 201 Wharton St SE Blacksburg, VA 24060	0.18 acres 1/12 of 2.10 acres	0.2979%
(a.2) W. Miller Richardson Heirs, Devisees,		
(a.2.1) W. Miller Richardson Trust c/o Wayne T. Horne, Trustee PO Box 935 Grundy, VA 24614	0.53 acres 1/4 of 2.10 acres	0.8938%

Exhibit B
Unit AW-147
Docket #VGGB 16-1115-4101-01
List of all Owners/Claimants
(58.74 Acre Unit)

	Net Acres in Unit	Interest in Unit
(b) Estate of Mary E. Spratt c/o Mary Spratt Graybeal, Trustee 5813 Willow Oaks Dr, Apt D Richmond, VA 23225	1.05 acres 1/2 of 2.10 acres	1.7875%
<u>Tract #6 - 0.80 acres</u>		
(†) Pardee Royalty LLC and Pardee Minerals LLC	0.80 acres	1.3819%
(a) Pardee Royalty LLC * P. O. Box 102904 Atlanta, GA 30368-2904	0.40 acres 1/2 of 0.80 acres	0.6810%
(b) Pardee Minerals LLC * P. O. Box 102904 Atlanta, GA 30368-2904	0.40 acres 1/2 of 0.80 acres	0.6810%
White Wolf Energy, Inc. * 300 Corporate Centre Drive Scott Depot, WV 25660 <i>(previously Anker Virginia Mining Company, Inc.)</i>		
* According to a prior agreement, the CBM royalties will be split 50/50.		
<u>Tract #7A - 0.06 acres</u>		
(†) James Russell Estep Heirs, Devises, Successors or Assigns <i>(documentation requested from Bertha Allen 7/27/16)</i>	0.06 acres	0.1021%
(a) Bertha Allen 17458 Hurley Rd Hurley, VA 24620		
(b) Edna Justice 43998 State Hwy 194E Freaburn, KY 41528		
(c) JoAnn Lester 7749 Woodman Creek Rd Freaburn, KY 41528		
(d) Orville Estep 4515 Paw Paw Creek Phelps, KY 41553		
(e) Dallas Estep PO Box 503 Hurley, VA 24620		
<u>Tract #7B - 0.03 acres</u>		
(†) Bobby W. Hale, Sr. PO Box 969 Raven, VA 24639	0.03 acres	0.0511%
<u>Tract #7C - 0.01 acres</u>		
(†) Bobby W. Hale, Sr. PO Box 969 Raven, VA 24639	0.01 acres	0.0170%
<u>Tract #8 - 1.99 acres</u>		
(†) Norfolk Southern Railway Company Pocahontas Land Corporation P. O. Box 1517 Bluefield, WV 24701	1.99 acres	3.3878%

Exhibit B-3
Unit AW-147
Docket #VGOB 16-1115-4101-01
List of Unleased Owners/Claimants
(58.74 Acre Unit)

	Net Acres in Unit	Interest in Unit
II. OIL & GAS OWNERSHIP		
<u>Tract #1C - 0.12 acres</u>		
(1) Lawrence Stinson Heirs, et al	0.12 acres	0.2043%
(a) Wiley Blankenship Heirs, Devisees, Successors or Assigns		
(b) Marie Blankenship Heirs, Devisees, Successors or Assigns		
(b.1) Lawrence Stinson Heirs, Devisees, Successors or Assigns <i>(Documentation Pending on Heirs)</i>	0.06 acres 1/2 of 0.12 acres	0.1021%
(b.1.1) Lena Stinson PO Box 59 Richlands, VA 24641	0.06 acres 1/2 of 0.12 acres	0.1021%
<u>Tract #2B, 0.08 acres</u>		
(1) Wiley & Marie Blankenship Heirs	0.08 acres	0.1362%
(a) Eulis Clifford Blankenship Heirs, Devisees, Successors or Assigns		
(a.1) Thelma Short Blankenship Heirs, Devisees, Successors or Assigns		
(a.1.1) Thomas Allen Blankenship 144 Lookout Rd. Richlands, VA 24641	0.01 acres 1/8 of 0.08 acres	0.0170%
(a.1.2) Tamie Reedy PO Box 1274 Cedar Bluff, VA 24609	0.01 acres 1/8 of 0.08 acres	0.0170%
(b) Lena Stinson PO Box 59 Richlands, VA 24641	0.02 acres 1/4 of 0.08 acres	0.0340%
(c) Carlis Blankenship Heirs, Devisees, Successors or Assigns		
(c.1) Janice Barrett 213 Straley St Marion, VA 24354	0.02 acres 1/4 of 0.08 acres	0.0340%
(d) JW Blankenship 1134 Castleberry Rd Brewton, AL 36426	0.02 acres 1/4 of 0.08 acres	0.0340%
<u>Tract #2C, 0.05 acres</u>		
(1) Thomas A. Blankenship, et al		
(a) Wiley & Marie Blankenship Heirs, Devisees, Successors or Assigns		

Exhibit B-3
Unit AW-147
Docket #VGOB 16-1115-4101-01
List of Unleased Owners/Claimants
(58.74 Acre Unit)

BK2017 PG05942

	Net Acres in Unit	Interest in Unit
(a.1) Eulls Clifford Blankenship Heirs, Devisees, Successors or Assigns		
(a.1.1) Thelma Short Blankenship Heirs, Devisees, Successors or Assigns		
(a.1.1.1) Thomas Allen Blankenship 144 Lookout Rd. Richlands, VA 24641	<i>Life Estate</i>	
(a.1.2) Tamie Reedy PO Box 1274 Cedar Bluff, VA 24609	0.05 acres	0.0851%
<u>Tract #5 - 2.10 acres</u>		
(1) Estate of Mary Spratt, et al (39.00 acre tract) <i>(aka A.S. Richardson Heirs, et al)</i>	2.10 acres	3.5751%
(a) Dr. A. S (Alexander Stuart) Richardson Heirs, Devisees, Successors or Assigns		
(a.1) Dr. James Stuart Richardson Heirs, Devisees, Successors or Assigns		
(a.1.1) Nancy Elizabeth Richardson Raybold 10206 Carol St. Great Falls, VA 22066	0.18 acres 1/12 of 2.10 acres	0.2979%
(a.1.2) James Stuart (aka Jimmy) Richardson, Jr. 9128 Huron Ave Henrico, VA 23294	0.18 acres 1/12 of 2.10 acres	0.2979%
(a.1.3) Thomas Moore Richardson 201 Wharton St SE Blacksburg, VA 24060	0.18 acres 1/12 of 2.10 acres	0.2979%
(a.2) W. Miller Richardson Heirs, Devisees,		
(a.2.1) W. Miller Richardson Trust c/o Wayne T. Horne, Trustee PO Box 935 Grundy, VA 24614	0.53 acres 1/4 of 2.10 acres	0.8938%
(b) Estate of Mary E. Spratt c/o Mary Spratt Graybeal, Trustee 5813 Willow Oaks Dr, Apt D Richmond, VA 23225	1.05 acres 1/2 of 2.10 acres	1.7875%
<u>Tract #7A - 0.06 acres</u>		
(1) James Russell Estep Heirs, Devisees, Successors or Assigns <i>(documentation requested from Bertha Allen 7/27/16)</i>	0.06 acres	0.1021%
(a) Bertha Allen 17458 Hurley Rd Hurley, VA 24620		
(b) Edna Justice 43998 State Hwy 194E Freeburn, KY 41528		
(c) JoAnn Lester 7749 Woodman Creek Rd Freeburn, KY 41528		

Exhibit B-3
Unit AW-147
Docket #VGOB 16-1115-4101-01
List of Unleased Owners/Claimants
(58.74 Acre Unit)

Net Acres
in Unit Interest in
Unit

(d) Orville Estep
4515 Paw Paw Creek
Phelps, KY 41553

(e) Dallas Estep
PO Box 503
Hurley, VA 24620

UNLEASED OIL & GAS OWNERS

Acres	2.41
Percent	4.1028%

Exhibit E
Unit AW-147
Docket #VGOB 16-1115-4101-01
List of Respondents to be Escrowed
(58.74 Acre Unit)

	Net Acres in Unit	Interest in Unit
<u>Tract #1C- 0.12 acres</u>		
<i>Escrow due to Unknown / Unlocatable</i>		
<u>OIL & GAS OWNERSHIP</u>		
(1) Lawrence Stinson Heirs, et al	0.12 acres	0.2043%
(a) Wiley Blankenship Heirs, Devisees, Successors or Assigns		
(b) Marie Blankenship Heirs, Devisees, Successors or Assigns		
(b.1) Lawrence Stinson Heirs, Devisees, Successors or Assigns <i>(Heirs Unknown)</i>	0.06 acres 1/2 of 0.12 acres	0.1021%
	<u>Total</u>	
	Acres in Unit	0.06
	Percentage of Unit	0.1021%

INSTRUMENT #170001168
RECORDED IN THE CLERK'S OFFICE OF
TAZEWELL COUNTY ON
APRIL 25, 2017 AT 11:07AM
Tammie B. Allison
TAMMY B. ALLISON, CLERK
RECORDED BY: MLT