

INSTRUMENT PREPARED BY
VIRGINIA GAS AND OIL BOARD

ORDER RECORDED UNDER CODE
OF VIRGINIA SECTION 45.1-361.26

VIRGINIA:

BEFORE THE VIRGINIA GAS AND OIL BOARD

APPLICANT:	<u>Range Resources-Pine Mountain, Inc.</u>)	VIRGINIA GAS
)	AND OIL BOARD
	RELIEF SOUGHT: (1) POOLING OF)	
	INTERESTS IN SUBJECT DRILLING UNIT)	
	SERVED BY WELL NO. 900137 PURSUANT)	
	TO VA. CODE § 45.1-361.21, FOR THE)	
	PRODUCTION OF GAS OTHER THAN)	Docket Number:
	COALBED METHANE GAS FROM SUBJECT)	VGOB-14-0415-4043
	FORMATIONS (herein referred)	
	to as "Conventional Gas" or "Gas");)	
	and (2) DESIGNATE THE APPLICANT)	
	AS THE UNIT OPERATOR FOR THE)	
	SUBJECT DRILLING UNIT)	

LEGAL DESCRIPTION:)

DRILLING UNIT SERVED BY WELL NUMBERED)

900137 TO BE DRILLED IN)

THE LOCATION DEPICTED ON EXHIBIT A HERETO,)

Richard Coleman Tract)

136.16 acres)

PRAGER QUADRANGLE)

PRATER DISTRICT)

BUCHANAN COUNTY, VIRGINIA)

(the "Subject Lands" are more particularly)

described on **Exhibit A** attached hereto)

and made a part hereof))

TAX MAP IDENTIFICATION NUMBERS:)

TAX MAP IDENTIFICATION NUMBERS FOR ALL PARCELS)

AFFECTED BY THIS ORDER ARE SHOWN ON EXHIBIT(S))

B-3 WHICH IS/ARE ATTACHED TO AND A PART OF)

THIS ORDER.)

REPORT OF THE BOARD

FINDINGS AND ORDER

1. Hearing Date and Place: This matter came on for hearing before the Virginia Gas and Oil Board (hereafter "Board") at **9:00 a.m. May 20, 2014, continued from April 15, 2014**, at the Russell County Office Building, Highland Drive, Lebanon, Virginia.
2. Appearances: **Timothy E. Scott** appeared for the Applicant.
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 meaningful search of

reasonably available sources to determine the identity and whereabouts of each gas and oil owner, coal owner, or mineral owner having an interest in Subject Drilling Unit underlying and comprised of Subject Lands; (2) has represented to the Board that 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 to notice of the Application filed herein; and (3) that the persons set forth in their Application and Notice of Hearing have been identified by Applicant through its due diligence as Owners or Claimants of Conventional Gas interests underlying Subject Drilling Unit, including those set out in **Exhibit B-3** who have not heretofore leased, sold or voluntarily agreed with the Applicant to pool their Gas interests in Subject Drilling Unit. Unknown and/or Unlocatable Owners/Claimants or Conflicting Claimants in the 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 that pursuant to Va. Code § 45.1-361.21, the Board pool the rights, interests and estates in and to the Conventional Gas in **Well No. 900137** of the known and unknown persons listed in the attached **Exhibit B-3**, 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 Conventional Gas from the Subject Drilling Unit established for Subject Formations 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, (3) that the Board designate **Range Resources-Pine Mountain, Inc.** as Unit Operator.

7. Relief Granted: The requested relief in this cause shall be and hereby is granted.

7.1 The Board hereby: (1) pursuant to Va. Code § 45.1-361.21 C 3, designates **Range Resources-Pine Mountain, Inc.** (hereinafter "Unit Operator") as the Operator authorized to drill and operate **Well No. 900137** in the Subject Drilling Unit at the location depicted on the plat attached hereto as **Exhibit A** to produce Conventional Gas from Subject Formations, subject to the permit provisions contained in § 45.1-361.27 *et seq.*, Code of Virginia, 1950 as amended, 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) pursuant to Va. Code § 45.1-361.21A, the rights, interests, and estates in and to the Conventional Gas in Subject Drilling Unit including those 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 Formations in the Subject Drilling Unit underlying and comprised of the Subject Lands. There are no applicable field rules and the unit is subject to statewide spacing requirements of Va. Code § 45.1-361.17.

8. Election and Election Period: In the event any Gas owner named in the Application and Notice of Hearing has not heretofore reached a voluntary agreement to share in the operation of the well to be located in Subject Drilling Unit at a rate of payment mutually agreed to by said Gas owner and the Operator, then, such person 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 herein 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 his 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 Development and Operation of the Drilling Unit: Any Gas Owner or Claimant named in **Exhibit B-3** who has not reached a voluntary agreement with the Operator may elect to participate in the Well Development and Operation on 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, including a reasonable supervision fee, of the Well Development and Operation, 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 Estimated, Completed-for-Production Costs 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 estimated Completion-for-Production Costs for the Subject Drilling Unit are as follows:

Estimated, Completed-for-Production Costs: **\$1,445,103.00**

Any gas owner and/or claimants named in **Exhibit B-3**, who elects this option (Option 1) understands and agrees 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 in this Board Order.

A Participating Operator's proportionate cost hereunder shall be the result obtained by multiplying the Participating Operator's "Percent of 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 of Subject Drilling Unit under Paragraph 9.1 above, any Gas Owner or Claimant named in **Exhibit B-3** in the unit who has not reached a voluntary agreement with the Operator may elect to accept a cash bonus consideration of **\$30.00** 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 Gas produced from any Well Development and Operation covered by this Order multiplied by the Gas owner's percentage interest within unit as set forth in the Application and Notice of Hearing (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. 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, said payment(s) shall be satisfaction in full for the right, interests, and claims of such electing Gas owner 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 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 of 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 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 Costs 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 Unit Operator 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 Costs allocable to the interest of such Carried Well Operator. Any Gas Owner and/or Claimant named in **Exhibit B-3** who elects this option (Option 3) understands and agrees that Completed-for-Production Costs are the Operator's actual costs for well development and operation. When the Unit Operator 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.

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 right, 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 his right, interests, and claims in and to the Gas produced from Subject Formation in the Subject Drilling Unit to the Unit Operator for the period of time during which his 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 Applicant and fails to do so 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 any 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 Gas in the Subject Drilling Unit to the Unit Operator. Persons who fail to properly elect shall be deemed 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 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 Estimated Completed-for-Production costs 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, interests, 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 1/8th 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 Applicant, and said person elects or fails to elect to do other than participate under Paragraph 9.1 above in the Well Development and Operation in Subject Drilling Unit, then 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, in Subject Formations in Subject Drilling Unit, and other share in and to Gas 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 elections.

13. Unit Operator (or Operator): **Range Resources-Pine Mountain, Inc.** shall be and hereby is designated as Unit Operator authorized to drill and operate **Well No. 900137** in Subject Formations 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 and §§ 4 VAC 25-160 *et seq.*, Virginia Gas and Oil Board Regulations, 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:

Range Resources-Pine Mountain, Inc.
406 West Main Street
P. O. Box 2136
Abingdon, VA 24212
Phone: (276) 619-2583
Fax: (276) 628-7246
Attn: Philip S. Horn, Land Manager

14. Commencement of Operations: Unit Operator shall commence or cause to commence operations for the drilling of the well covered hereby within seven hundred and thirty (730) days from the date of this Order and shall prosecute the 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 becoming 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 the well covered by this Order is 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 referenced 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 a charge 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 the well covered hereby has been paid the full amounts due under the terms of this Order.

16. Escrow Provisions: Applicant has represented to the Board that there are Unknown and/or Unlocatable Gas Owners within the Subject Drilling Unit whose interests are subject to the escrow requirements of Paragraph 16.1 of the Subject Drilling Unit; and, the Applicant 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 and unless and until otherwise ordered by the Board, the Escrow Agent named herein, or any successor named by the Board, is required to establish an interest-bearing escrow account for **Tract No. 5 containing 0.00766667%** of the 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 and Trust Company
Trust Division
38 East Valley Drive
Bristol, Virginia 24201
Tel: (276) 466-9222
Attn: Debbie Davis

- 16.1 Escrow Provisions for Unknown or Unlocatable Persons: If any payment of bonus, royalty payment or other payment due and owing 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 shall, pursuant to Va. Code § 45.1-361.21 D, be deposited by the 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 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 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. Applicant is **Range Resources-Pine Mountain, Inc.** Applicant is duly authorized and qualified to transact business in the Commonwealth of Virginia;
- 17.2. Applicant **Range Resources-Pine Mountain, Inc.** is an operator in the Commonwealth of Virginia, and has satisfied the Board's requirements for operations in Virginia;
- 17.3. Applicant **Range Resources-Pine Mountain, Inc.** claims ownership of Gas leases on **99.88883333%** percent of Subject Drilling Unit and the right to explore for, develop, and produce Gas from same;
- 17.4. Applicant has proposed the drilling of **Well No. 900137** to a depth of **9,342** feet on the Subject Drilling Unit at the location depicted on **Exhibit A** to develop the pool of Gas in Subject Formations, and to complete and operate **Well No. 900137** for the purpose of producing Conventional Gas.
- 17.5 The estimated production of the life of the proposed **Well No. 900137** is **1,200 mmcf**.
- 17.6 With this Application, notice was provided to everyone claiming an ownership interest relative to the production of conventional gas in the Subject Drilling Unit. Set forth in **Exhibit B-3**, is the name and last known address of each Owner or Claimant identified by the Applicant as Gas owners in Subject Drilling Unit 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. Gas interests unleased to the Operator and listed in **Exhibit B-3** represent **0.11116667%** percent of 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 Subject Drilling Unit does not constitute an unreasonable or arbitrary exercise of Applicant's right to explore for or produce Gas;
- 17.9 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

Conventional 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 the 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.

140001027

DONE AND EXECUTED this 28 day of May, 2014 by a majority of the Virginia Gas and Oil Board.

Chairman, Bradley C. Lambert

DONE AND PERFORMED this 28 day of May, 2014 by Order of the Virginia Gas and Oil Board.

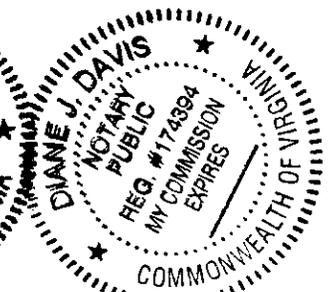
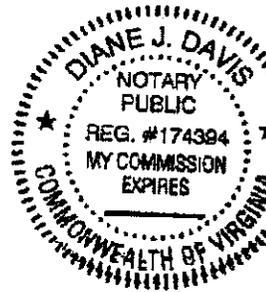
Rick Cooper
Principal Executive to the
staff, Virginia Gas and Oil Board

COMMONWEALTH OF VIRGINIA
COUNTY OF RUSSELL

Acknowledged on this 28th May 2014 day of May 2014, 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.

Diane J. Davis, Notary Public
174394

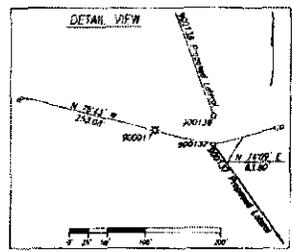
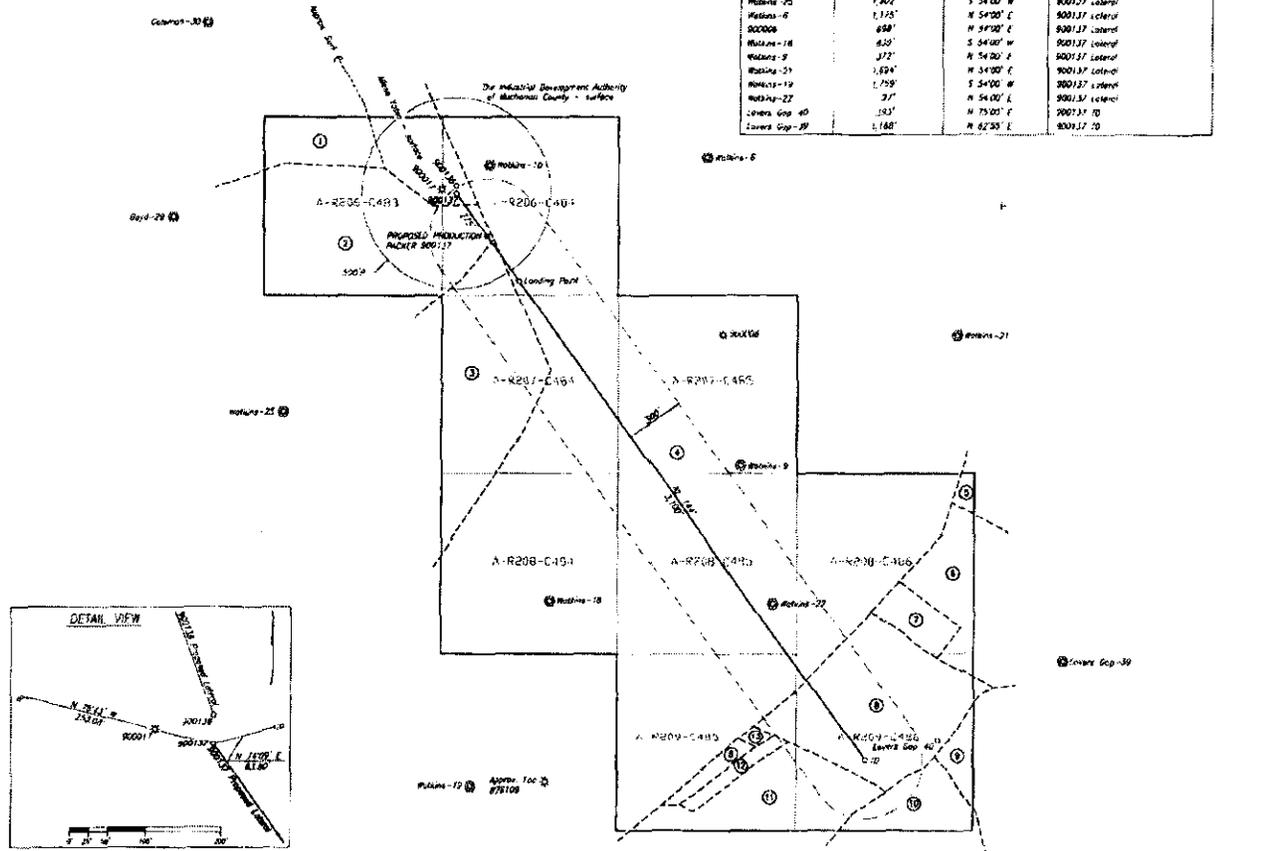
My Commission expires: September 30, 2013



Latitude 37° 15' 00"

Distance to Offsetting Huron Producing Wells			
Offset Well / Lateral Number	Distance	Bearing	Measured From
200136 Proposed Production Packer	520'	N 26°10' N	200137 Proposed Production Packer
200108 (Offset)	1,402'	S 51°02' W	200137 Lateral

Distance to Offsetting Wells (Non Huron)			
Offset well / Lateral Number	Distance	Bearing	Measured From
200017	349'	N 41°31' W	200137 Proposed Production Packer
200106-10	370'	N 02°26' E	200137 Proposed Production Packer
200129	1,845'	N 80°28' W	200137 Proposed Production Packer
200108-30	1,847'	N 52°40' W	200137 Proposed Production Packer
200108-15	1,823'	N 07°14' E	200137 Proposed Production Packer
200108-25	1,402'	S 34°00' W	200137 Lateral
200108-6	1,125'	N 54°00' E	200137 Lateral
200108	698'	N 54°00' E	200137 Lateral
200108-18	620'	S 54°00' W	200137 Lateral
200108-8	372'	N 54°00' E	200137 Lateral
200108-51	1,624'	N 34°00' E	200137 Lateral
200108-12	1,759'	S 34°00' W	200137 Lateral
200108-27	37'	N 54°00' E	200137 Lateral
200108-40	183'	N 75°05' E	200137 TD
200108-39	1,188'	N 62°55' E	200137 TD



- OFFSET LINE
- SURFACE LINE
- LEASE LINE
- UNIT GRID CENTER
- BATHYMETRIC AREA
- EXISTING CEM. WEL
- EXISTING CONVENTIONAL WEL



Surface Coordinates
 Well Coordinates (48 St. Marie S. Zone, NAD 83 (91))
 N 123°34'30" E 10,408,388.09
 Well Coordinates (N 8 St. Marie S. Zone, NAD 83 (91))
 N 244°08'02" E 925,412.50
 Well Coordinates (Easting/Zone Coord.)
 N 43,951.70 E 58,006.29
 Well Coordinates (Geographic N22)
 N 22°06'57" W 87,197,416"

Note 1: The boundary lines shown herein are based on existing plat and maps of record and do not depict a current boundary survey.
 Note 2: The well will be drilled within 10' of the permitted coordinates.
 Note 3: Information regarding land restriction areas of wells provided by Range Resources-Flow Services, Inc.
 Well location determined by GPS survey from Wellbore Document P-124

WELL LOCATION PLAT (WELL NAME: SWN-1-A-R206-C494-JIN) REG FILE NO. 00-0000

COMPANY Range Resources-Flow Services, Inc. WELL NAME AND NUMBER 200137
 TRACT NO. Richard Colburn ELEVATION 2802.31' QUADRANGLE Proctor
 COUNTY Duchman DISTRICT Proctor SCALE 3/12/2014
 This Plat is a new plat, an updated plat, or a final location plat.
 + Denotes the location of a well on United States topographic maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.

Lee Doran Pettigrew
 Licensed Professional Engineer or Licensed Land Surveyor

Exhibit A

900137 PLAT
Unit SWVH-1_A-R206-C484_HR
TRACT OWNERSHIP INFORMATION SCHEDULE
3/12/2014

1. Richard Coleman
136.16 Acres
ACIN LLC - coal
Alpha Land & Reserves LLC - coal lessee
WBRD LLC - coal
Dickenson-Russell Coal Company LLC - coal lessee
Range Resources - Pine Mountain, Inc. - oil & gas
Gas 7.28 Ac. 4.04%
2. Shade W. Boyd
55.02 Acres
ACIN LLC - coal
Alpha Land & Reserves LLC - coal lessee
WBRD LLC - coal
Dickenson-Russell Coal Company LLC - coal lessee
Range Resources - Pine Mountain, Inc. - oil & gas
Gas 15.59 Ac. 8.66%
3. Elihu Kiser
190.63 Acres
ACIN LLC - coal
Alpha Land & Reserves LLC - coal lessee
WBRD LLC - coal
Dickenson-Russell Coal Company LLC - coal lessee
Range Resources - Pine Mountain, Inc. - oil & gas
Gas 12.59 Ac. 6.99%
4. Watkins
848.5560 Acres
ACIN LLC - coal
Alpha Land & Reserves LLC - coal lessee
WBRD LLC - coal
Dickenson-Russell Coal Company LLC - coal lessee
Range Resources - Pine Mountain, Inc. - oil & gas
Gas 110.31 Ac. 61.28%
5. Lease No. 450270003A, 450270003B & 4502700035 (partially leased)
Jessie & Delphia Charles Estate - gas
16.5 Acres
John D. Justice Tract
106.34 Acres
Range Resources - Pine Mountain, Inc. - oil
Gas 0.42 ac. 0.23%
6. Lease No. 450270007
Travis Deel, et al - surface & gas
14 Acres
John D. Justice Tract
106.34 Acres
Range Resources - Pine Mountain, Inc. - oil
Gas 4.01 ac. 2.23%
7. Lease No. 450270007
Roger Lee & Rhonda K. Deel - surface & gas (Life Estate)
Burton Wayne Deel - surface & gas (Remainder Interest)
2 Acres
John D. Justice Tract
106.34 Acres
Range Resources - Pine Mountain, Inc. - oil
Gas 1.99 ac. 1.11%
8. Lease No. 450270001
Mazel Jean Deel - surface & gas
14.75 Acres
John D. Justice Tract
106.34 Acres
Range Resources - Pine Mountain, Inc. - oil
Gas 14.60 ac. 8.11%
9. Lease No. 450270479
Wayne K. & Margie Lowe - surface & gas
13 Acres
John D. Justice Tract
384.61 Acres
Range Resources - Pine Mountain, Inc. - oil
Gas 1.25 ac. 0.69%
10. Lease No. 450271190
Bobby & Sherden Compton - surface & gas
10 Acres
John D. Justice Tract
384.61 Acres
Range Resources - Pine Mountain, Inc. - oil
Gas 3.50 ac. 1.95%
11. Lease No. 450270064
Douglas & Rebel Deel - surface & gas
15 Acres
John D. Justice Tract
106.34 Acres
Range Resources - Pine Mountain, Inc. - oil
Gas 7.20 ac. 4.00%
12. Lease No. 450270001
Mazel Jean Deel - surface & gas
1 Acre
John D. Justice Tract
106.34 Acres
Range Resources - Pine Mountain, Inc. - oil
Gas 1.00 ac. 0.56%
13. Lease No. 450270001
Mazel Jean Deel - surface & gas
1/4 Acre
John D. Justice Tract
106.34 Acres
Range Resources - Pine Mountain, Inc. - oil
Gas 0.26 ac. 0.15%

Grid Coordinates

Unit SWVH-1_A-R206-C484_HR

Well: 900137

Base Grid	NW		NE		SW		SE	
	NAD 83 Northing	NAD 83 Easting						
A-R206-C484	3625347.19	10408324.26	3625347.19	10409257.64	3624413.81	10408324.26	3624413.81	10409257.64
A-R206-C483	3625347.19	10407390.88	3625347.19	10408324.26	3624413.81	10407390.88	3624413.81	10408324.26
A-R207-C484	3624413.81	10408324.26	3624413.81	10409257.64	3623480.43	10408324.26	3623480.43	10409257.64
A-R207-C485	3624413.81	10409257.64	3624413.81	10410191.02	3623480.43	10409257.64	3623480.43	10410191.02
A-R208-C484	3623480.43	10408324.26	3623480.43	10409257.64	3622547.05	10408324.26	3622547.05	10409257.64
A-R208-C485	3623480.43	10409257.64	3623480.43	10410191.02	3622547.05	10409257.64	3622547.05	10410191.02
A-R208-C486	3623480.43	10410191.02	3623480.43	10411124.40	3622547.05	10410191.02	3622547.05	10411124.40
A-R209-C485	3622547.05	10409257.64	3622547.05	10410191.02	3621613.67	10409257.64	3621613.67	10410191.02
A-R209-C486	3622547.05	10410191.02	3622547.05	10411124.40	3621613.67	10410191.02	3621613.67	10411124.40

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Exhibit "B"
900137

Tract	Lessor	Lease Status	Interest Within Unit	Gross Acreage in Unit
Gas Estate Only				
1	Range Resources - Pine Mountain, Inc. Attn: Jerry Grantham PO Box 2136 Abingdon, VA 24212 Tax Card # - 3216	Owner	4.04000000	7.28000000
2	Range Resources - Pine Mountain, Inc. Attn: Jerry Grantham PO Box 2136 Abingdon, VA 24212 Tax Card # - 2713	Owner	8.66000000	15.59000000
3	Range Resources - Pine Mountain, Inc. Attn: Jerry Grantham PO Box 2136 Abingdon, VA 24212 Tax Card # - 2698	Owner	6.99000000	12.59000000
4	Range Resources - Pine Mountain, Inc. Attn: Jerry Grantham PO Box 2136 Abingdon, VA 24212 Tax Card # - 2719	Owner	61.28000000	110.31000000
5	Tax Card # - 2457 Willard & Susie A Charles 1064 Ironwood Road Vansant, VA 24656	Leased	0.03322222	0.06066667
	Glenn & Marie Charles P.O. Box 440 Vansant, VA 24656	Leased	0.03322222	0.06066667
	Richard Charles 2066 Watkins Street Grundy, VA 24614	Unleased	0.03322222	0.06066667
	Jonie & Grover Vanover 1580 Bear Branch Road Vansant, VA 24656	Unleased	0.03322222	0.06066667
	Sarah Mohr 9620 Elk Grove Ct New Haven, IN 46774	Leased	0.03322222	0.06066667
	Mary Katie & Jessie Kedna Bowman 1715 Bear Branch Road Vansant, VA 24656	Unleased	0.03322222	0.06066667
	Joetta Kiser 1349 Landmark Road Vansant, VA 24656	Leased	0.00766667	0.01400000
	Floyd & Judy C Charles	Leased	0.00255556	0.00466667

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	1178 Landmark Road Vansant, VA 24656			
	Corene Wagner 1079 Coal Miner Road Vansant, VA 24656	Leased	0.00255556	0.00466667
	Margie Yates 26826 Eunice Avenue Defiance, OH 43512	Leased	0.00255556	0.00466667
	Jessie Boyd Unknown Address	Unleased	0.00255556	0.00466667
	James Boyd Unknown Address	Unleased	0.00255556	0.00466667
	Jerline Boyd Heirs Unknown	Unleased	0.00255556	0.00466667
	Vernie & Quillion Boyd P.O. Box 274 Davenport, VA 24239	Leased	0.00191667	0.00350000
	Russell & Sherry Boyd Box 931 Rocky Gap Hollow Birchleaf, VA 24220	Leased	0.00191667	0.00350000
	Roy Boyd General Delivery Davenport, VA 24239	Unleased	0.00191667	0.00350000
	Martha Boyd General Delivery Davenport, VA 24239	Unleased	0.00191667	0.00350000
	Tract 5 Totals		0.23000000	0.42000000
6	Tax Card # - Minerals Only			
	Travis Deel 1516 Bear Branch Rd Vansant, VA 24656	Leased	0.74333333	1.33666667
	Janet Deel Robertson 464 McIntosh Rd Boaz, KY 42027	Leased	0.74333333	1.33666667
	Burton Deel 1516 Bear Branch Rd Vansant, VA 24656	Leased	0.74333333	1.33666667
	Tract 6 Totals		2.23000000	4.01000000
7	Tax Card # - 1223			
	Roger Lee & Rhonda K Deel 1516 Bear Branch Rd Vansant, VA 24656	Leased Life Estate	0.00000000	0.00000000
	Burton Deel 1516 Bear Branch Rd Vansant, VA 24656	Leased Remainder	1.11000000	1.99000000
8	Mazel Jean Deel 1170 Bear Branch Rd	Leased	8.11000000	14.60000000

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	Vansant, VA 24656 Tax Card # - 4687			
9	Wayne K & Margie Lowe 7527 Lovers Gap Road Vansant, VA 24656 Tax Card # - 10293	Leased	0.69000000	1.25000000
10	Bobby & Sherden Compton 7636 Lovers Gap Rd Vansant, VA 24656 Tax Card # - 3384	Leased	1.95000000	3.50000000
11	Douglas & Rebel Deel 1027 Burr Oak Rd Haysi, VA 24256 Tax Card # - 4627	Leased	4.00000000	7.20000000
12	Mazel Jean Deel 1170 Bear Branch Rd Vansant, VA 24656 Tax Card # - 4687	Leased	0.56000000	1.00000000
13	Mazel Jean Deel 1170 Bear Branch Rd Vansant, VA 24656 Tax Card # - 4687	Leased	0.15000000	0.26000000
	TOTAL GAS ESTATE		100.00000000	180.00000000
	Percentage of Unit Leased		99.88683333	
	Percentage of Unit Unleased		0.11116667	
	Acreage in Unit Leased		179.79700000	
	Acreage in Unit Unleased		0.20300000	

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**Exhibit "B-3" - Unleased Owners
900137**

Tract	Lessor	Lease Status	Interest Within Unit	Gross Acreage in Unit
Gas Estate Only				
5	Tax Card # - 2457 Richard Charles 2066 Watkins Street Grundy, VA 24614	Unleased	0.03322222	0.06066667
	Jonie & Grover Vanover 1580 Bear Branch Road Vansant, VA 24656	Unleased	0.03322222	0.06066667
	Mary Katie & Jessie Kedna Bowman 1715 Bear Branch Road Vansant, VA 24656	Unleased	0.03322222	0.06066667
	Jessie Boyd Unknown Address	Unleased	0.00255556	0.00466667
	James Boyd Unknown Address	Unleased	0.00255556	0.00466667
	Jerline Boyd Heirs Unknown	Unleased	0.00255556	0.00466667
	Roy Boyd General Delivery Davenport, VA 24239	Unleased	0.00191667	0.00350000
	Martha Boyd General Delivery Davenport, VA 24239	Unleased	0.00191667	0.00350000
	TOTAL GAS ESTATE		0.11116667	0.20300000

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**Exhibit "E" - Escrow Owners
900137**

Tract	Lessor	Lease Status	Interest Within Unit	Gross Acreage in Unit
Gas Estate Only				
5	Tax Card # - 2457 Jessie Boyd Unknown Address	Unleased	0.00255556	0.00466667
	James Boyd Unknown Address	Unleased	0.00255556	0.00466667
	Jerline Boyd Heirs Unknown	Unleased	0.00255556	0.00466667
	TOTAL GAS ESTATE		0.00766667	0.01400000

INSTRUMENT #140001027
RECORDED IN THE CLERK'S OFFICE OF
BUCHANAN COUNTY ON
JUNE 18, 2014 AT 02:32PM

BEVERLY S. TILLER, CLERK
RECORDED BY: GGB