

BEFORE THE VIRGINIA GAS AND OIL BOARD

Applicant:	Range Resources-Pine Mountain, Inc.)	
)	
Relief Sought:	Pooling of Well No. 900137)	
)	
Legal Description:	Richard Coleman Tract)	Docket Number:
	136.16 acres)	VGOB-14-0415-4043
	Prater District)	
	Prater Quadrangle)	
	Buchanan County, Virginia)	
)	
	(See Exhibit A for Specific)	
	Description))	

APPLICATION

SECTION 1. PARTIES

1.1 Applicant herein is Range Resources-Pine Mountain, Inc. whose address is 406 West Main Street, P. O. Box 2136, Abingdon, Virginia 24212, and whose telephone number is (276) 628-9001. The attorney for Applicant is Timothy E. Scott, McKinnis & Scott, Attorneys at Law, having an address of 135 West Main Street, Suite 200, Kingsport, Tennessee, 37660, and whose telephone number is (423) 247-9376.

1.2 Applicant has the right to investigate, explore, prospect, drill for, and produce oil and/or gas underlying the drillsite tract depicted and set forth on Exhibit A attached hereto and made a part hereof. Exhibit A is a plat prepared by a licensed land surveyor or registered professional engineer showing the boundary and acreage of the Drilling Unit within which Applicant's well is proposed to be located (hereinafter referred to as the "Unit").

1.3 The names and last-known addresses of each person identified by Applicant as owning an interest of record in the oil and gas within the Unit are listed on Exhibit B, attached hereto and made a part hereof. Every individual or entity so identified as having an interest in the oil and gas in the Unit is being made a party to this application, whether known or unknown. Each of the individuals named in Exhibit B is being made a party if living; if any such individual is deceased, then the unknown heirs, devisees, executors, administrators, personal representatives, trustees and assignees, of any such deceased individual are made parties herein. Each of the entities listed in Exhibit B that is a corporation is being made a party if such entity continues to have legal existence, and if any such corporation is dissolved, then the unknown successors and assigns of such dissolved corporation are made parties herein. Each of the parties listed in Exhibit B that is an unincorporated association is being made a party if such entity continues to have legal existence, and if any such unincorporated association is dissolved or otherwise not in existence, then the unknown successors, trustees, and assigns of such unincorporated association are made parties herein.

SECTION 2. ALLEGATION OF FACTS

A. Pooling of Interests

2.1 Applicant hereby states that it is a "gas or oil owner" within the meaning of § 45.1-361.21 of the Code of Virginia, being the lessee of the oil and gas owner of the drillsite tract within the Unit. Applicant is the owner of the right to develop and produce oil and gas from all formations, from the surface to total depth drilled, underlying said tract of land, and to appropriate the oil and gas produced therefrom.

2.2 Applicant further states that there exists within the Unit (i) two or more separately owned tracts or (ii) separately owned interests in all or part of such Unit, within the meaning of § 45.1-361.21 A of the Code of Virginia.

2.3 Applicant further states that, as of the date of the filing of this application, it has been unable to procure a voluntary agreement from each oil and gas interest owners within the Unit, and thus is entitled to file this application to pool such interests. Those parties who have not entered into a voluntary agreement with Applicant are listed on Exhibit B-3 attached hereto and made a part hereof.

2.4 Applicant has proposed a plan of development and operation of the oil and gas formations underlying the Unit, such plan to be commenced by the drilling on the Unit of Applicant's proposed well, designated as the 900137 Well, for the production of oil and gas from the Unit.

2.5 A well work permit for the 900137 Well has been or will be submitted to the Department of Mines, Minerals and Energy.

2.6 Applicant has exercised due diligence to locate each of the oil and gas interest owners named herein on Exhibit B-3 and has made or is making a bona fide effort to reach an agreement with all parties as to pooling their oil and gas interest for the development and operation of the well involved herein. Simultaneously with the filing of this application, Applicant has provided notice, by certified mail, return receipt requested, to each of the parties set forth on Exhibit B pursuant to the provisions of § 45.1-361.19 of the Code of Virginia, being all parties known to the Applicant having an interest in the oil and gas underlying the Unit. Any owners whose identities or locations are unknown at the time of the filing of this application are shown on Exhibit B. Where the identity or location of any person or entity is unknown, then Applicant is unable to provide said persons or entities with written notice or personal service of this application. Any unknown or unlocatable owners, if any, in the Subject Drilling Unit are listed in Exhibit E. The oil and gas interests of such persons or entities, whether known or unknown, should be pooled for the development and operation of the Unit, so as to safeguard, protect, and enforce the correlative rights of oil and gas owners having interests within the Unit, and to prevent waste and avoid the drilling of unnecessary wells, thus allowing the orderly development of the oil and gas resources within the Unit.

B. Costs and Production

2.7 Applicant proposes to drill at the location depicted on the plat attached hereto as Exhibit A to an approximate depth of 9,342 feet to test for oil and gas from all formations from the base of the Lee, including but not limited to: Ravenclyff, Maxon, Big Lime, Weir, Berea, Devonian Shale, and other associated formations know to the Nora Gas Field. Applicant estimates the cost for a well drilled to said depth to be \$1,445,103.00 if completed for production. Attached hereto and made a part hereof as Exhibit C is Applicant's Authority for Expenditure (AFE) which shows the estimated cost of drilling, completing, and equipping said well.

2.8 The estimated production over the life of the proposed well is 1,200 mmcf. Such figures regarding estimated production and the amount of any reserves for the proposed well are, however, estimates only that are not based upon actual production and should not be relied upon for any purpose.

SECTION 3. LEGAL AUTHORITY

3.1 The relief sought by this application is authorized by Virginia Code Annotated §45.1-361.20 and § 45.1-361.21 *et seq.* of the Code of Virginia and § 4 VAC 25-160-70 *et seq.* of the Gas and Oil Board Regulations of the Commonwealth of Virginia.

SECTION 4. RELIEF SOUGHT

4.1 Applicant requests the Board to enter an order as follows:

- a. Authorizing the drilling and operation of Applicant's proposed 900137 Well as depicted on Exhibit A;
- b. Pooling all the interests of every individual and entity owning an interest in oil and gas within the Unit, whether known or unknown, and their known and unknown heirs, devisees, executors, administrators, personal representatives, trustees, successors, and assigns, for the drilling, development, and production of oil and gas from the Unit;
- c. Designating Range Resources-Pine Mountain, Inc., Applicant herein, as the operator who will be authorized to drill, complete, and operate the well drilled in the Unit, and the right to market and sell oil and gas produced from the Unit and attributable to the interests pooled herein;
- d. Prescribing the conditions under which the parties listed on Exhibit B-3 shall have the right to elect: (i) to sell or lease his gas or oil ownership to said operator on such terms as the parties may agree, or if unable to agree, upon such terms as are set forth by the Board in its order; (ii) to become a working interest owner by participating in the risk and cost of the well; or (iii) to participate in the operation of the well as a nonparticipating operator on a carried basis;
- e. Providing that all reasonable costs and expenses of drilling, completing, equipping, operating, plugging and abandoning the well to be drilled within the Unit shall be borne,

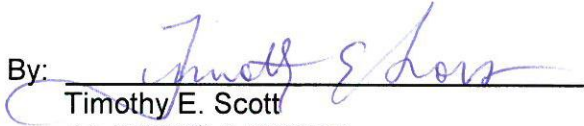
and all production therefrom shared, by all participating parties in the proportion which their working interest bears to the total acreage in the Unit;

f. Establishing a reasonable fee for the Applicant as operator for operating costs, including a reasonable supervision fee, which shall include routine maintenance of the well and all accounting necessary to pay all expenses, royalties, and amounts due working interest owners, which fee shall be borne by all parties who elect to participate as a working interest owner or as a carried interest owner; and

g. Granting such other relief as is merited by the evidence and is just and equitable, whether or not such relief has been specifically requested herein.

Dated this 14th day of March, 2014.

Range Resources-Pine Mountain, Inc.

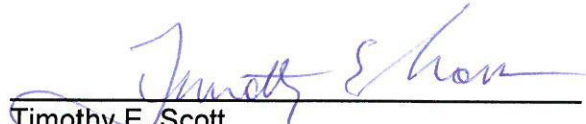
By: 

Timothy E. Scott
McKINNIS & SCOTT
135 West Main Street, Suite 200
Kingsport, Tennessee 37660
(423)247-9376

Attorney for Applicant

VERIFICATION

The foregoing application to the best of my knowledge, information, and belief is true and correct.



Timothy E. Scott
McKINNIS & SCOTT
Attorneys at Law

[c:\msword2000\pmog\pooling.well no. 900137.application April 2014]

BEFORE THE VIRGINIA GAS AND OIL BOARD

Applicant: Range Resources-Pine Mountain, Inc.)
)
)
Relief Sought: Establish Drilling Unit and)
Pooling of Well No. 900137)
)
Location: See Exhibit A) Docket No.
Well Number: 900137) VGOB-14-0415-4043
)
)
)
Legal)
Description: Richard Coleman Tract)
136.16 acres)
Prater District)
Prater Quadrangle)
Buchanan County, Virginia)

NOTICE OF HEARING

HEARING DATE: April 15, 2014
PLACE: Russell County Conference Center
Lebanon, Virginia
TIME: 9:00 a.m.

COMMONWEALTH OF VIRGINIA: To all unleased persons owning an interest in the oil and gas in and underlying the unit surrounding Well Number 900137 as described on Exhibit A to the application, which is attached to this Notice, in Buchanan County, Virginia (hereinafter "Subject Lands") and adjacent lands, and in particular to the following persons, their known and unknown heirs, executors, administrators, devisees, trustees, assigns and successors, both immediate and remote:

See attached Exhibit B.

NOTICE IS HEREBY GIVEN that the Applicant is requesting that the Virginia Gas and Oil Board (hereinafter "Board") issue an order establishing a drilling unit and pooling all the rights, interests, and estates of the persons listed in Exhibit B-3 pursuant to Virginia Code Ann. § 45.1-361.1 *et seq.* in regard to the drilling, development and production of oil and gas from the 900137 Unit Well, containing approximately 180.00 acres, located on the above-referenced tracts and situated approximately 3,565 feet Northeast of the intersection of Virginia State Routes 83 and 604 and approximately 3,200 feet Northeast of Prater located in the Prater District, Prater Quadrangle, Buchanan County, Virginia. Applicant requests that the Board issue an order providing as follows:

- a) Pooling all the interests and estates of the persons named herein and their known and unknown heirs, executors, administrators, devisees, trustees, assigns and successors, for the drilling, development and production of oil and gas from the

subject drilling unit for the subject formations underlying and comprised of the Subject Lands;

- b) Establishing a procedure whereby each person named herein shall have the right to elect (1) to assign or lease his oil and gas interest in the subject drilling unit to the designated operator; (2) to enter into a voluntary agreement with the designated operator to share in the operation (including the sharing in all reasonable costs of the drilling of the well and development of the unit) at a rate of payment mutually agreed to by the person making the election hereunder and the designated operator herein; or (3) to share in the operation of the well as a nonparticipating operator on a carried basis after the proceeds allocable to such person's share equal the following:

In the case of a leased tract, 300 percent of the share of the costs are allocable to such person's interest; or

In the case of an unleased tract, 200 percent of the share of such costs allocable to such person's interest;

- c) Providing that any person named herein who does not make a timely written election under the terms of the Order to be entered herein shall be deemed to have leased his oil and gas interest in the subject drilling unit to the operator designated herein at a rate to be established by the Board;
- d) Designating Applicant, Range Resources-Pine Mountain, Inc., as Operator; providing that the operator shall have the right to drill, develop, produce, market, and sell oil and gas produced from the subject drilling unit; granting the operator the right to market and sell oil and gas produced from the subject drilling unit which is attributable to any conflicting claims and interests pooled herein; providing that the operator shall have an operator's lien on the oil and gas and estate and rights owned or claimed by the unleased persons named herein in the subject drilling unit; and granting the operator the right to drill at any legal or specially permitted location on the subject drilling unit;
- e) Making any necessary provision for the escrow of funds pursuant to § 45.1-361.22 of the Code of Virginia;
- f) Providing that the order to be entered herein shall expire two (2) years from the date of its issuance if operations for the development of the subject drilling unit have not commenced by said date; but further providing that if operations have commenced during said two year period, then said order shall remain in effect for so long as operations continue on the subject drilling unit;
- g) Providing that the conduct of operations on any tract in the subject drilling unit shall be deemed to be the conduct of operations on all tracts in the drilling unit; and providing that the production allocated to any tract in the pooled drilling unit shall be in the same proportion as the acreage of that tract bears to the total acreage in the drilling unit; and

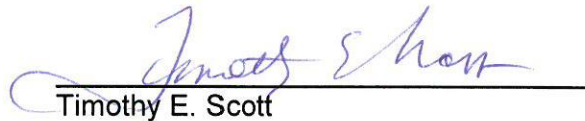
- h) Granting such other relief as is merited by the evidence and is just and equitable whether or not such relief has been specifically requested herein.

NOTICE IS FURTHER GIVEN that this cause has been set for hearing and the taking of evidence before the Board at **9:00 a.m. on April 15, 2014**, at the Russell County Conference Center, Lebanon, Virginia and that notice will be published as required by the law and the rules of the Board.

NOTICE IS FURTHER GIVEN that you may attend this hearing, with or without an attorney, and offer evidence or state any comments you have. For further information, contact the Virginia Gas and Oil Board, State Gas and Oil Inspector, Department of Mines, Minerals and Energy, Division of Gas and Oil, 135 Highland Drive, Lebanon, Virginia, 24266, (276) 415-9650 or the Applicant at the address shown below.

Dated this 14th day of March, 2014.

Range Resources-Pine Mountain, Inc.
406 West Main Street
Abingdon, Virginia 24210



Timothy E. Scott

McKINNIS & SCOTT
Attorney for
Range Resources-Pine Mountain, Inc.
135 West Main Street, Suite 200
Kingsport, Tennessee 37660
(423)247-9376

CERTIFICATE OF SERVICE

I, Timothy E. Scott, counsel for Range Resources-Pine Mountain, Inc. hereby certify that I have on this, the 14th day of March, 2014, caused the foregoing notice and application to be served upon the parties listed herein, at their address, by certified mail, return receipt requested.

Dated this 14th day of March, 2014.



Timothy E. Scott
McKINNIS & SCOTT
Attorneys at Law

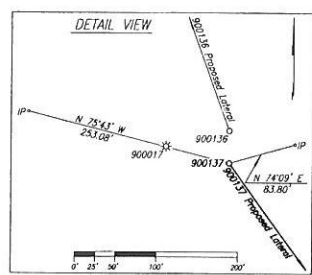
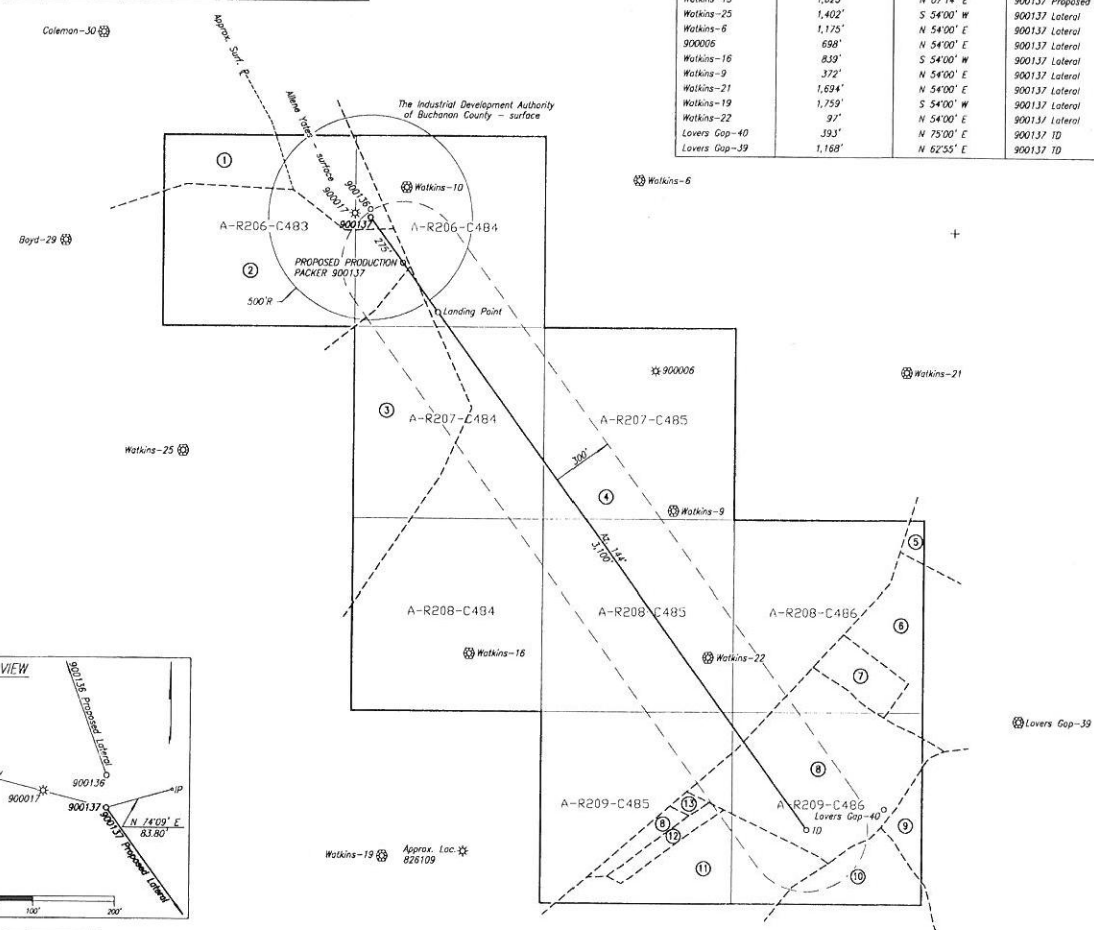
[c:\msword2000\pmog\pooling.well no.900137.notice.personal]

Latitude 37° 15' 00"

Longitude 82° 10' 00"

Distance to Offsetting Huron Producing Wells			
Offset Well / Lateral Number	Distance	Bearing	Measured From
900136 Proposed Production Packer	580'	N 26°10' W	900137 Proposed Production Packer
826109 (Approx.)	1,423'	S 54°00' W	900137 Lateral

Distance to Offsetting Wells (Non Huron)			
Offset Well / Lateral Number	Distance	Bearing	Measured From
900017	340'	N 44°31' W	900137 Proposed Production Packer
Watkins-10	370'	N 02°28' E	900137 Proposed Production Packer
Boyd-29	1,849'	N 85°28' W	900137 Proposed Production Packer
Coleman-30	1,847'	N 52°40' W	900137 Proposed Production Packer
Watkins-15	1,823'	N 07°14' E	900137 Proposed Production Packer
Watkins-25	1,402'	S 54°00' W	900137 Lateral
Watkins-6	1,175'	N 54°00' E	900137 Lateral
900006	698'	N 54°00' E	900137 Lateral
Watkins-16	839'	S 54°00' W	900137 Lateral
Watkins-9	372'	N 54°00' E	900137 Lateral
Watkins-21	1,694'	N 54°00' E	900137 Lateral
Watkins-19	1,759'	S 54°00' W	900137 Lateral
Watkins-22	97'	N 54°00' E	900137 Lateral
Lovers Gap-40	393'	N 75°00' E	900137 ID
Lovers Gap-39	1,188'	N 62°55' E	900137 ID



- Mineral Line
- Surface Line
- Lease Line
- Unit Grid Exterior
- Base Drainage Area
- ⊙ Existing CBM Well
- ⊙ Existing Conventional Well

Note 1: The boundary lines shown hereon are based on deeds, plats 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 sub-terrain aspects of wells provided by Range Resources-Pine Mountain, Inc.

Well elevation determined by GPS survey from 1946N Monument P-24

Note: See Attached Tract Ownership Information Schedule and Grid Corner Coordinates Chart



Surface Coordinates

Well Coordinates: (VA St. Plane S. Zone, NAD 83 (93))
 N 3,624,946.90 E 10,408,398.09

Well Coordinates: (VA St. Plane S. Zone, NAD 27 Calculated from NAD 83 (93))
 N 344,068.82 E 925,412.50

Well Coordinates: (Clinchfield Cool Co.)
 N 43,951.70 E 56,006.39

Well Coordinates: (Geographic N27)
 37,220,657 - 82,191,416"

Estimated Landing Point Vertical Depth: 5,885'
 Estimated Total Measured Depth of Lateral: 9,342'

WELL LOCATION PLAT (UNIT NAME: SWH1-1_A-R206-C484_HR) DDD FILE NO.: 00-0000

COMPANY Range Resources-Pine Mountain, Inc. WELL NAME AND NUMBER 900137
 TRACT NO. Richard Coleman ELEVATION 2,002.31' QUADRANGLE Prater
 COUNTY Buchanan DISTRICT Prater SCALE See Bar Scale DATE 3-12-2014
 This Plat is a new plat X; 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.

Leo Daniel Pettigill
 Licensed Professional Engineer of 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	NAD 83 Northing	NAD 83 Easting	NAD 83 Northing	NAD 83 Easting	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

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

	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

	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		99.88883333	
	Percentage of Unit Unleased		0.11116667	
	Acreage in Unit Leased		179.79700000	
	Acreage in Unit Unleased		0.20300000	

**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

RANGE RESOURCES - PINE MOUNTAIN, INC

Authorization For Expenditure

AFE #		Property #		Version #	1
Well Name:	900137	Field:	Nora Extension	Completed By:	A. Mueller
Location:	Buchanan County, VA	Operator:	Range Res. - Pine Mountain, Inc	Date:	January 29, 2014
Pay Zone:	Lower Huron Shale	Estimated Total MD:	9,342 ft	AAPG Class:	Exploratory
Scope of Work	Drill vertical to 5,262', kick-off and drill horizontal to 9,342'	Participant(s):	W.I.	Amount	
	Complete and place into production.	Range Resources - Pine Mountain, Inc	100.0000%	\$1,445,103	

Gen	Sub	Description	Casing Point	Completion	Total Cost
200	021	Leasehold Costs	\$5,000	\$0	\$5,000
225	005	Permit / Title Opinion / Survey / Insurance	\$9,900	\$0	\$9,900
225	010	Building Location	\$21,800	\$0	\$21,800
225	013	Roads / Stone / Culverts	\$9,000	\$0	\$9,000
225	014	Surface Damages	\$3,000	\$0	\$3,000
225	016	Drilling - Footage	\$113,344	\$0	\$113,344
225	017	Drilling - Mobilization	\$25,000	\$0	\$25,000
225	018	Drilling - Dayrate	\$107,360	\$0	\$107,360
225	019	Directional Services	\$99,500	\$0	\$99,500
225	020	Drilling - Mud/Chemicals	\$5,130	\$0	\$5,130
225	022	Fuel	\$46,860	\$0	\$46,860
225	025	Cement Surface casing	\$7,100	\$0	\$7,100
225	026	Cement Intermediate casing	\$15,200	\$0	\$15,200
225	031	Mud Logging	\$10,400	\$0	\$10,400
225	034	Open Hole Logging & Testing	\$0	\$0	\$0
225	035	Trucking / Dozer (Drilling)	\$7,000	\$0	\$7,000
225	040	Rental Tools & Equipment (Drilling)	\$8,120	\$0	\$8,120
225	041	Drill Pipe Inspections	\$6,000	\$0	\$6,000
225	042	Drilling - Bits	\$9,220	\$0	\$9,220
225	045	Technical Supervision (Drilling)	\$17,200	\$0	\$17,200
225	050	Fresh Water Hauling (Drilling)	\$650	\$0	\$650
225	055	Overhead Rate	\$0	\$0	\$0
225	060	Misc. & Contingencies	\$0	\$0	\$0
235	013	Location RDS/ Stone/ Culvert (While Drilling)	\$0	\$5,500	\$5,500
235	070	Trucking / Dozer (Completion)	\$0	\$13,000	\$13,000
235	085	Technical Supervision (Completion)	\$0	\$3,000	\$3,000
235	090	Cased Hole Logging / Perforating	\$0	\$6,200	\$6,200
235	095	Stimulation / Fracturing	\$0	\$350,000	\$350,000
235	105	Reclamation	\$0	\$9,000	\$9,000
235	110	Haul Pit Water / Disposal	\$0	\$0	\$0
235	125	Cement Production Casing	\$0	\$19,500	\$19,500
235	130	Rental Tools & Equipment (Completion)	\$0	\$30,000	\$30,000
235	135	Fresh Water Hauling (Completion)	\$0	\$500	\$500
235	175	Misc. & Contingencies	\$0	\$0	\$0
235	215	Completion Rig	\$0	\$0	\$0
235	220	Roustabout Labor	\$0	\$7,800	\$7,800
TOTAL INTANGIBLES			\$526,784	\$444,500	\$971,284

Code	Code	Description	Casing Point	Completion	Total Cost	
220	040	13-3/8" Conductor	44 ft	\$1,133	\$0	\$1,133
220	050	9-5/8" 26 lb/ft Surface Casing	350 ft	\$5,159	\$0	\$5,159
220	060	7" 23 lb/ft MC-50 Intermediate Casing	2698 ft	\$34,803	\$0	\$34,803
230	015	4 1/2" 11.6 lb/ft P-110 Production casing	9142 ft	\$0	\$94,911	\$94,911
230	020	2-3/8" Production Tubing	0 ft	\$0	\$0	\$0
230	025	Wellhead Equipment / Fittings	\$0	\$13,850	\$13,850	\$13,850
230	030	Tank Battery	\$0	\$6,250	\$6,250	\$6,250
230	035	Separator / Heater / Treater	\$0	\$0	\$0	\$0
230	040	Gas Lift Equipment	\$0	\$0	\$0	\$0
230	045	Rods / Stuffing Box	\$0	\$0	\$0	\$0
230	050	Downhole Pump	\$0	\$0	\$0	\$0
230	055	Pumping Unit / Motor	\$0	\$0	\$0	\$0
230	056	SS EQP - Packer, PF, FC, NI	\$0	\$284,000	\$284,000	\$284,000
230	060	Valves & Fittings	\$0	\$11,000	\$11,000	\$11,000
230	065	Flow Line labor/material (tie-ins / other)	\$0	\$13,500	\$13,500	\$13,500
230	070	Sales line labor/mat/row (tie-ins / other)	\$0	\$9,212	\$9,212	\$9,212
TOTAL TANGIBLES			\$41,095	\$0	\$473,819	
GRAND TOTAL WELL COST			\$567,879	\$444,500	\$1,445,103	
225	061	Plugging & Abandonment	\$25,000			

Range Resources - Pine Mountain, Inc	Production Costs :	\$1,445,103	Dry Hole Costs :	\$592,879
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Range Resources - Pine Mountain, Inc Approval

Operations: Tom Lamb Date: 3/11/14 Geology: [Signature] Date: 3-11-14

Engineering: [Signature] Date: 3/11/14 Land: Phil Hawn Date: 3-11-14

Management Approval: Range Resources - Pine Mountain, Inc
 Approved by: _____ Title: _____ Date: _____

Management Approval: Range Resources - Appalachia L.L.C.
 Approved by: _____ Title: _____ Date: _____

THIS IS AN ESTIMATE OF PROJECTED WELL DRILLING, COMPLETION, EQUIPMENT AND PIPELINE COSTS. THESE ESTIMATES ARE PROJECTIONS ONLY AND ACTUAL BILLED COSTS MAY VARY FROM WELL TO WELL DEPENDING UPON ACTUAL FINAL DEPTH AND OTHER FACTORS INCLUDE MATERIAL COSTS, WEATHER CONDITIONS, AND UNFORESSEEN RIGHT-OF-WAY PROBLEMS.

Exhibit C

**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