

BEFORE THE VIRGINIA GAS AND OIL BOARD

Applicant:	EnerVest Operating, L.L.C.	)	
		)	
Relief Sought:	Establish Drilling Unit and	)	
	Pooling of Well No. VH-530556	)	
		)	
Legal Description:	James Dunn Tract	)	Docket Number:
	2,115.9 acres	)	VGOB-19-0521-4211
	Lipps District	)	
	Caney Ridge Quadrangle	)	
	Wise County, Virginia	)	
		)	
	(See Exhibit A for Specific	)	
	Description)	)	

APPLICATION

**SECTION 1. PARTIES**

1.1 Applicant herein is EnerVest Operating, LLC, whose address is 408 West Main Street, Abingdon, Virginia 24210, and whose telephone number is (276) 628-9001. The attorney for Applicant is Timothy E. Scott, Attorney 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 VH-530556 Well, for the production of oil and gas from the Unit.

2.5 A well work permit for the VH-530556 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-3 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-3. 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 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 8,600 feet to test for oil and gas from all formations from

the base of the Lee, including but not limited to: Ravencliff, Maxon, Big Lime, Weir, Berea, Devonion Shale, and other associated formations know to the Nora Gas Field. Applicant estimates the cost for a well drilled to said depth to be \$1,977,100.00 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 three (3) billion cubic feet. 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:

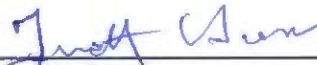
- a. Authorizing the drilling and operation of Applicant's proposed VH-530556 well, as depicted on Exhibit A;
- b. Establishing a unit and pooling all the interests of every individual and entity owning an interest in oil and gas within the Unit, whether known or unknown, and their known and unknown 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 EnerVest Operating, LLC, 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 19<sup>th</sup> day of April, 2019.


EnerVest Operating, LLC

By:   
\_\_\_\_\_  
Timothy E. 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  
Attorney at Law

[c:\msword2000\EnerVest\2019\pooling.well no.VH-530556.application]

BEFORE THE VIRGINIA GAS AND OIL BOARD

Applicant:	EnerVest Operating, L.L.C.	)	
		)	
Relief Sought:	Pooling of Well No. VH-530556	)	
		)	
Location:	See Exhibit A	)	Docket No.
Well Number:	VH-530556	)	VGOB-19-0521-4211
		)	
		)	
Legal		)	
Description:	James Dunn Tract	)	
	2,115.9 acres	)	
	Lipps District	)	
	Caney Ridge Quadrangle	)	
	Wise County, Virginia	)	

NOTICE OF HEARING

HEARING DATE: May 21, 2019  
PLACE: Russell County Conference Center  
Highland Drive  
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 VH-530556 as described on Exhibit A to the application, which is attached to this Notice, in Wise 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 pooling all the rights, interests, and estates of the persons listed in Exhibit B 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 VH-530556 Unit Well, containing approximately 420.00 acres, located on the above-referenced tracts and approximately 7,500 feet northwest of the intersection of Virginia Routes 72 and 649 and approximately 5,000 feet west of the Pippin Chapel in the Lipps District, Caney Ridge Quadrangle, Wise County, Virginia. Applicant requests that the Board issue an order providing as follows:

- a) The establishment of a unit and the 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, EnerVest Operating, LLC, 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 May 21, 2019**, at the **Russell County Conference Center**, 135 Highland Drive, 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 19<sup>th</sup> day of April, 2019.

EnerVest Operating, LLC  
408 West Main Street  
Abingdon, Virginia 24210




---

Timothy E. Scott  
Attorney for  
EnerVest Operating, LLC  
135 West Main Street, Suite 200  
Kingsport, Tennessee 37660  
(423)247-9376

CERTIFICATE OF SERVICE

I, Timothy E. Scott, counsel for EnerVest Operating, LLC, hereby certify that I have on this, the 19<sup>th</sup> day of April, 2019, 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 19<sup>th</sup> day of April, 2019.

  
\_\_\_\_\_  
Timothy E. Scott  
Attorney at Law

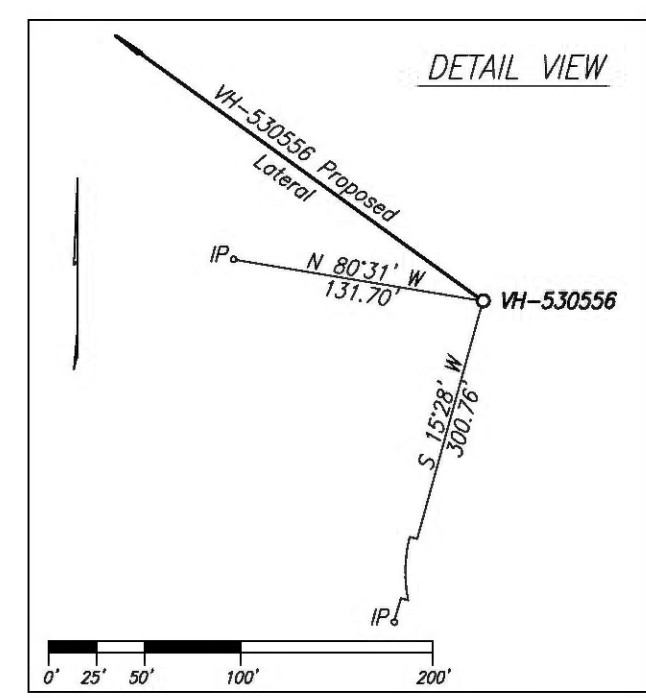
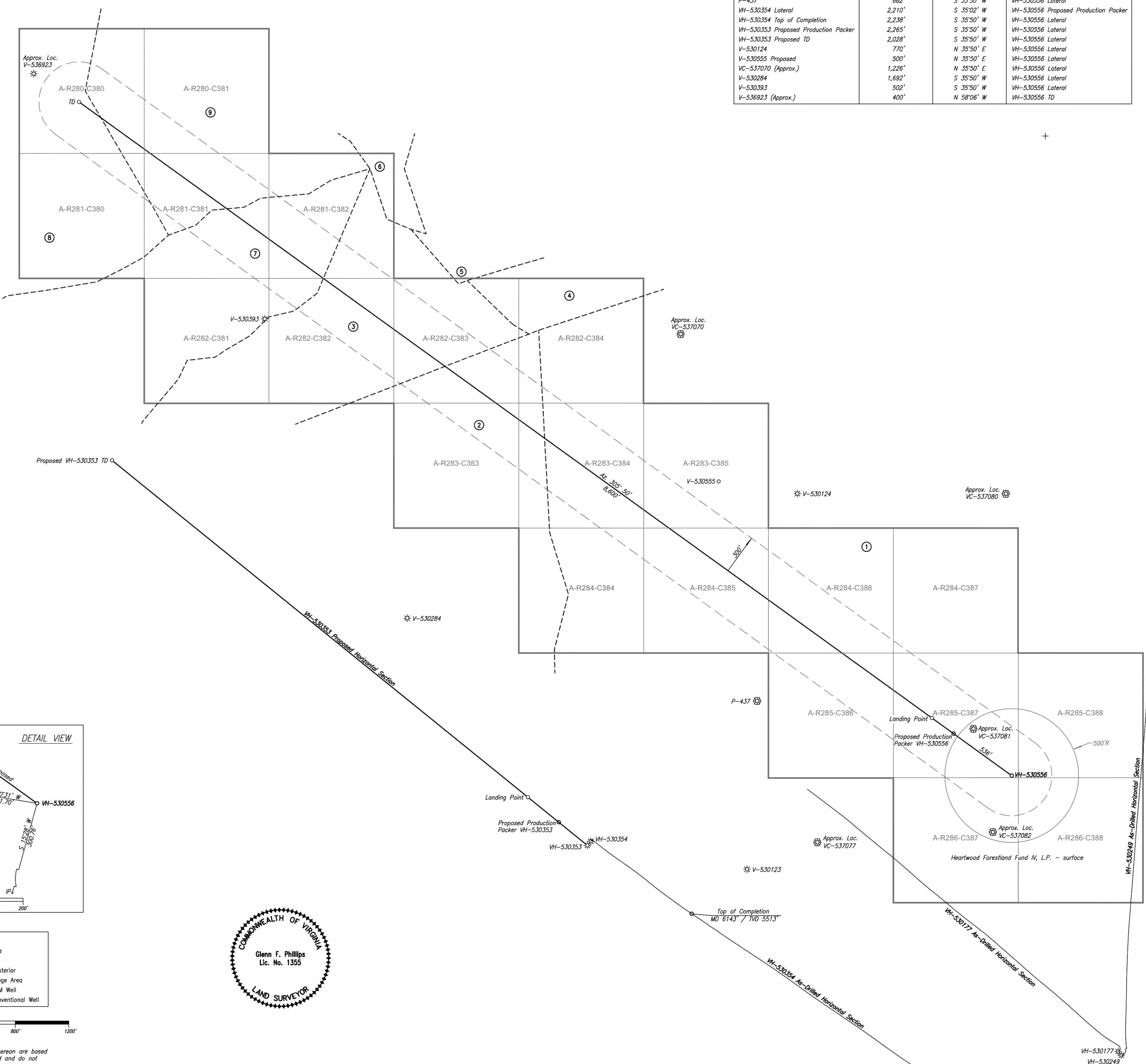
[c:\msword2000\enervest\2019\pooling.well no.VH-530556.notice.personal]

Grid Coordinates  
 Unit SWVH-1-A-R285-C387\_HR  
 Well: VH-530556

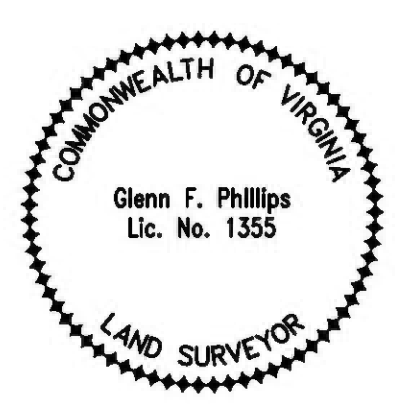
Base Grid	NW		NE		SW		SE	
	NAD 83 Northing	NAD 83 Easting	NAD 83 Northing	NAD 83 Easting	NAD 83 Northing	NAD 83 Easting	NAD 83 Northing	NAD 83 Easting
A-R286-C387	3550676.65	10317786.27	3550676.65	10318719.65	3549743.27	10317786.27	3549743.27	10318719.65
A-R286-C388	3550676.65	10318719.65	3550676.66	10319653.04	3549743.27	10318719.65	3549743.27	10319653.04
A-R285-C386	3551610.03	10316852.89	3551610.03	10317786.27	3550676.65	10316852.89	3550676.65	10317786.27
A-R285-C387	3551610.03	10317786.27	3551610.03	10318719.65	3550676.65	10317786.27	3550676.65	10318719.65
A-R285-C388	3551610.04	10318719.65	3551610.04	10319653.04	3550676.65	10318719.65	3550676.66	10319653.04
A-R284-C384	3552543.41	10314986.13	3552543.41	10315919.51	3551610.03	10314986.13	3551610.03	10315919.51
A-R284-C385	3552543.41	10315919.51	3552543.41	10316852.89	3551610.03	10315919.51	3551610.03	10316852.89
A-R284-C386	3552543.41	10316852.89	3552543.41	10317786.27	3551610.03	10316852.89	3551610.03	10317786.27
A-R284-C387	3552543.41	10317786.27	3552543.42	10318719.65	3551610.03	10317786.27	3551610.04	10318719.65
A-R283-C383	3553476.79	10314052.75	3553476.79	10314986.13	3552543.41	10314052.75	3552543.41	10314986.13
A-R283-C384	3553476.79	10314986.13	3553476.79	10315919.51	3552543.41	10315919.51	3552543.41	10315919.51
A-R283-C385	3553476.79	10315919.51	3553476.79	10316852.89	3552543.41	10315919.51	3552543.41	10316852.89
A-R282-C381	3554410.17	10312185.99	3554410.17	10313119.37	3553476.79	10312185.99	3553476.79	10313119.37
A-R282-C382	3554410.17	10313119.37	3554410.17	10314052.75	3553476.79	10313119.37	3553476.79	10314052.75
A-R282-C383	3554410.17	10314052.75	3554410.17	10314986.13	3553476.79	10314052.75	3553476.79	10314986.13
A-R282-C384	3554410.17	10314986.13	3554410.17	10315919.51	3553476.79	10314986.13	3553476.79	10315919.51
A-R281-C380	3555343.55	10311252.60	3555343.55	10312185.98	3554410.17	10311252.60	3554410.17	10312185.99
A-R281-C381	3555343.55	10312185.98	3555343.55	10313119.37	3554410.17	10312185.99	3554410.17	10313119.37
A-R281-C382	3555343.55	10313119.37	3555343.55	10314052.75	3554410.17	10313119.37	3554410.17	10314052.75
A-R280-C380	3556276.93	10311252.60	3556276.93	10312185.98	355343.55	10311252.60	355343.55	10312185.98
A-R280-C381	3556276.93	10312185.98	3556276.93	10313119.37	355343.55	10312185.98	355343.55	10313119.37

Exhibit A  
 2400-R-548  
 VH-530556  
 VGOB-19-0521-4211

Distance to Offsetting Wells			
Offset Well / Lateral Number	Distance	Bearing	Measured From
WH-530249 Lateral	1,422'	S 85°04' E	WH-530556 Proposed Production Packer
WH-530177 Lateral	1,003'	S 39°40' W	WH-530556 Proposed Production Packer
VC-537082 (Approx.)	792'	S 21°46' E	WH-530556 Proposed Production Packer
VC-537081 (Approx.)	152'	N 76°17' E	WH-530556 Proposed Production Packer
VC-537077 (Approx.)	1,255'	S 35°50' W	WH-530556 Lateral
V-530123 (Approx.)	1,727'	S 35°50' W	WH-530556 Lateral
VC-537080 (Approx.)	1,682'	N 35°50' E	WH-530556 Lateral
P-437	662'	S 35°50' W	WH-530556 Lateral
WH-530354 Lateral	2,210'	S 35°02' W	WH-530556 Proposed Production Packer
WH-530354 Top of Completion	2,238'	S 35°50' W	WH-530556 Lateral
WH-530353 Proposed Production Packer	2,265'	S 35°50' W	WH-530556 Lateral
WH-530353 Proposed TD	2,028'	S 35°50' W	WH-530556 Lateral
V-530124	770'	N 35°50' E	WH-530556 Lateral
V-530555 Proposed	500'	N 35°50' E	WH-530556 Lateral
VC-537070 (Approx.)	1,226'	N 35°50' E	WH-530556 Lateral
V-530284	1,692'	S 35°50' W	WH-530556 Lateral
V-530393	502'	S 35°50' W	WH-530556 Lateral
V-536923 (Approx.)	400'	N 58°06' W	WH-530556 TD



- 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 subterranean aspects of wells provided by EnerVest Operating, LLC.

Well elevation determined by GPS survey from HARN Monument P-424

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

Estimated Landing Point Vertical Depth: 6,125'

Estimated Total Measured Depth of Lateral: 14,408.5'

Surface Coordinates

Well Coordinates: (VA St. Plane S. Zone, NAD 83 (93))  
N 3,550,693.67 E 10,318,671.45

Well Coordinates: (VA St. Plane S. Zone, NAD 27 Calculated from NAD 83 (93))  
N 269,820.45 E 835,687.08

Well Coordinates: (Clinchfield Coal Co.)  
S 33,899.04 W 30,648.37

Well Coordinates: (Geographic N83)  
37,006974' -82,488392'

Well Coordinates: (UTM N27, Zone 17)  
N 13,439,825.41 E 1,205,910.15

WELL LOCATION PLAT (UNIT NAME: SWWH-1\_A-R285-C387\_HR) DGO FILE NO.: 00-0000

COMPANY EnerVest Operating, LLC WELL NAME AND NUMBER WH-530556  
 TRACT NO. I-889 ELEVATION 2,584.88' QUADRANGLE Caney Ridge  
 COUNTY Wise DISTRICT Lips SCALE \*See Bar Scale\* DATE 4-10-2019  
 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.

Glenn F Phillips  
 Digitally signed by Glenn F Phillips  
 DN: cn=GL, o=GL, ou=GL, email=glenn.f.phillips@enervest.com, c=US  
 Date: 2019.04.18 13:08:32 -0400

**VH-530556 PLAT**  
**TRACT OWNERSHIP INFORMATION SCHEDULE**  
**4/10/2019**

- 1 . T-889  
James Dunn  
2,115.9 Acres  
ACIN LLC - coal  
Paramont Contura, LLC - coal lessee  
WBRD LLC - coal  
Dickenson-Russell Contura, LLC - coal lessee  
EnerVest Energy Institutional Fund XIV-A, L.P., EnerVest Energy Institutional Fund XIV-A1, L.P., &  
EnerVest Energy Institutional Fund XIV-WIC, L.P. - oil & gas  
Gas 221.02 Ac. 52.62%
  
- 2 . T-875  
John W. Horn (E. G. Willard)  
248.77 Acres  
EnerVest Energy Institutional Fund XIV-A, L.P., EnerVest Energy Institutional Fund XIV-A1, L.P., &  
EnerVest Energy Institutional Fund XIV-WIC, L.P. - oil & gas  
Gas 39.97 Ac. 9.52%
  
- 3 . W. A. Powers  
64.726 Acres  
EnerVest Energy Institutional Fund XIV-A, L.P., EnerVest Energy Institutional Fund XIV-A1, L.P., &  
EnerVest Energy Institutional Fund XIV-WIC, L.P. - oil & gas  
Gas 41.59 Ac. 9.90%
  
- 4 . T-894  
J. G. Hylton  
19.97 Acres  
EnerVest Energy Institutional Fund XIV-A, L.P., EnerVest Energy Institutional Fund XIV-A1, L.P., &  
EnerVest Energy Institutional Fund XIV-WIC, L.P. - oil & gas  
Gas 7.79 Ac. 1.85%
  
- 5 . WI-176  
Jessee B. Hylton  
P/O 244.476 Acres  
KRP Marcellus I, LLC et al. - oil & gas  
Gas 0.07 Ac. 0.02%
  
- 6 . T2-91  
Martha J. Adkins  
124.00 Acres  
EnerVest Energy Institutional Fund XIV-A, L.P., EnerVest Energy Institutional Fund XIV-A1, L.P., &  
EnerVest Energy Institutional Fund XIV-WIC, L.P. - oil & gas  
Gas 1.59 Ac. 0.38%

- 7 . WI-274  
Steinman Development Tr.  
92.305 Acres  
KRP Marcellus I, LLC et al. - oil & gas  
Gas 33.76 Ac. 8.04%
  
- 8 . T-887  
W. A. Powers  
185.04 Acres  
EnerVest Energy Institutional Fund XIV-A, L.P., EnerVest Energy Institutional Fund XIV-A1, L.P., &  
EnerVest Energy Institutional Fund XIV-WIC, L.P. - oil & gas  
Gas 32.44 Ac. 7.72%
  
- 9 . T-878  
(A. J. Stallard) B. B. Redwine  
98.11 Acres  
EnerVest Energy Institutional Fund XIV-A, L.P., EnerVest Energy Institutional Fund XIV-A1, L.P., &  
EnerVest Energy Institutional Fund XIV-WIC, L.P. - oil & gas  
Gas 41.77 Ac. 9.95%

**Exhibit "B"**  
**VH-530556**  
**Docket Number: 19-0521-4211**

Tract	Lessor	Lease Status	Interest Within Unit	Gross Acreage in Unit
<b>Gas Estate Only</b>				
1	EnerVest Energy Institutional Fund XIV-A, L.P. & EnerVest Energy Institutional Fund XIV-WIC, L.P. Attn: Kevin Miller 408 West Main Street Abingdon, VA 24210 Tax # Minerals Only	Owner	52.82000000	221.02000000
2	EnerVest Energy Institutional Fund XIV-A, L.P. & EnerVest Energy Institutional Fund XIV-WIC, L.P. Attn: Kevin Miller 408 West Main Street Abingdon, VA 24210 Tax # Minerals Only	Owner	9.52000000	39.97000000
3	EnerVest Energy Institutional Fund XIV-A, L.P. & EnerVest Energy Institutional Fund XIV-WIC, L.P. Attn: Kevin Miller 408 West Main Street Abingdon, VA 24210 Tax # Minerals Only	Owner	9.90000000	41.59000000
4	EnerVest Energy Institutional Fund XIV-A, L.P. & EnerVest Energy Institutional Fund XIV-WIC, L.P. Attn: Kevin Miller 408 West Main Street Abingdon, VA 24210 Tax # Minerals Only	Owner	1.85000000	7.79000000
5	KRP Marcellus I, LLC 777 Taylor Street, Suite 810 Fort Worth, TX 76102	Unleased	0.0076308	0.0267078
	Rivercrest Royalties II, LLC 306 W 7th Street, Suite 888 Fort Worth, TX 76102	Unleased	0.0052992	0.0185472
	Diversified Rox Minerals, LLC C/O MSW Royalties, LLC 301 Commerce Street, Suite 2900 Fort Worth, TX 76102	Unleased	0.0052034	0.0182119
	BRD Royalty Holdings, LLC 2777 Stemmons Freeway, Suite 1133 Dallas, TX 75207	Unleased	0.00064	0.00224

Exhibit "B"  
 VH-530556  
 Docket Number: 19-0521-4211

	Amon G Carter Foundation PO Box 1036 Fort Worth, TX 76101	Unleased	0.0012286	0.0042931
	<b>Tract 5 Totals</b>		<b>0.02000000</b>	<b>0.07000000</b>
6	EnerVest Energy Institutional Fund XIV-A, L.P. & EnerVest Energy Institutional Fund XIV-WIC, L.P. Attn: Kevin Miller 408 West Main Street Abingdon, VA 24210 Tax # Minerals Only	Owner	0.38000000	1.59000000
7	KRP Marcellus I, LLC 777 Taylor Street, Suite 810 Fort Worth, TX 76102	Unleased	3.0675816	12.8807904
	Rivercrest Royalties II, LLC 306 W 7th Street, Suite 888 Fort Worth, TX 76102	Unleased	2.1302784	8.9450496
	Diversified Rox Minerals, LLC C/O MSW Royalties, LLC 301 Commerce Street, Suite 2900 Fort Worth, TX 76102	Unleased	2.0917688	8.7833392
	BRD Royalty Holdings, LLC 2777 Stemmons Freeway, Suite 1133 Dallas, TX 75207	Unleased	0.25728	1.08032
	Amon G Carter Foundation PO Box 1036 Fort Worth, TX 76101	Unleased	0.4830932	2.0705008
	<b>Tract 7 Totals</b>		<b>8.04000000</b>	<b>33.76000000</b>
8	EnerVest Energy Institutional Fund XIV-A, L.P. & EnerVest Energy Institutional Fund XIV-WIC, L.P. Attn: Kevin Miller 408 West Main Street Abingdon, VA 24210 Tax # Minerals Only	Owner	7.72000000	32.44000000
9	EnerVest Energy Institutional Fund XIV-A, L.P. & EnerVest Energy Institutional Fund XIV-WIC, L.P. Attn: Kevin Miller 408 West Main Street Abingdon, VA 24210 Tax # Minerals Only	Owner	9.95000000	41.77000000
	<b>TOTAL GAS ESTATE</b>		<b>100.00000000</b>	<b>420.00000000</b>
	Percentage of Unit Leased		91.84000000	
	Percentage of Unit Unleased		8.06000000	

Exhibit "B"  
VH-530556  
Docket Number: 19-0521-4211

Acreage in Unit Leased  
Acreage in Unit Unleased

386.17000000  
33.83000000

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

**VH-530556**

**Docket Number: 19-0521-4211**

<b>Tract</b>	<b>Lessor</b>	<b>Lease Status</b>	<b>Interest Within Unit</b>	<b>Gross Acreage in Unit</b>
<b>Gas Estate Only</b>				
5	KRP Marcellus I, LLC 777 Taylor Street, Suite 810 Fort Worth, TX 76102	Unleased	0.0076308	0.0267078
	Rivercrest Royalties II, LLC 306 W 7th Street, Suite 888 Fort Worth, TX 76102	Unleased	0.0052992	0.0185472
	Diversified Rox Minerals, LLC C/O MSW Royalties, LLC 301 Commerce Street, Suite 2900 Fort Worth, TX 76102	Unleased	0.0052034	0.0182119
	BRD Royalty Holdings, LLC 2777 Stemmons Freeway, Suite 1133 Dallas, TX 75207	Unleased	0.00064	0.00224
	Amon G Carter Foundation PO Box 1036 Fort Worth, TX 76101	Unleased	0.0012266	0.0042931
	<b>Tract 5 Totals</b>		<b>0.02000000</b>	<b>0.07000000</b>
7	KRP Marcellus I, LLC 777 Taylor Street, Suite 810 Fort Worth, TX 76102	Unleased	3.0675816	12.8807904
	Rivercrest Royalties II, LLC 306 W 7th Street, Suite 888 Fort Worth, TX 76102	Unleased	2.1302784	8.9450496
	Diversified Rox Minerals, LLC C/O MSW Royalties, LLC 301 Commerce Street, Suite 2900 Fort Worth, TX 76102	Unleased	2.0917668	8.7833392
	BRD Royalty Holdings, LLC 2777 Stemmons Freeway, Suite 1133 Dallas, TX 75207	Unleased	0.25728	1.08032
	Amon G Carter Foundation PO Box 1036	Unleased	0.4930932	2.0705008

Exhibit "B-3" - Unleased Owners  
VH-530556  
Docket Number: 19-0521-4211

Fort Worth, TX 76101

<b>Tract 7 Totals</b>	<b>8.04000000</b>	<b>33.76000000</b>
<b>TOTAL GAS ESTATE</b>	<b>8.06000000</b>	<b>33.83000000</b>

Company: EnerVest Operating, LLC.

Virginia Gas And Oil Template -- Estimate Authorization For Expenditure (AFE)

AFE #

Well Name: VH-530556

Location: Wise, VA

Expected Pay Zones: Ravencroft, Big Lime, Weir

Proposed Work: DRILL, COMPLETE AND PLACE INTO PRODUCTION

Property #

Version # 1

Field: NORA FIELD

Completed By: TEAM

Operator: EnerVest Operating, LLC.

Date: 4/18/2019

Estimated Total Depth: 8,600 FT

AAPG Class: DEVELOPMENT

Participant(s): EnerVest Operating, LLC. Amount: \$1,977,100

Description	Casing Point	Completion	Total Cost
Roads / Stone / Culverts	\$18,000	\$0	\$18,000
Location Rde/Stone/Culverts	\$0	\$10,000	\$10,000
Building Location/Materials	\$30,000	\$15,000	\$45,000
Reclamation & Damages	\$15,000	\$0	\$15,000
Surface Damages	\$5,000	\$0	\$5,000
Permit / Title Opinion / Survey / Insurance	\$9,000	\$0	\$9,000
Drilling - Dayrate	\$204,000	\$0	\$204,000
Drilling - Footage	\$70,000	\$0	\$70,000
Completion Rig	\$0	\$12,000	\$12,000
Drilling - Bits	\$17,000	\$5,000	\$22,000
Mud & Chemicals (Drilling)	\$30,000	\$0	\$30,000
Fresh Water Hauling (Completion)	\$0	\$10,000	\$10,000
Cement Production Casing	\$0	\$20,000	\$20,000
Trucking / Dozer (Completion)	\$0	\$5,000	\$5,000
Cement Services	\$70,000	\$0	\$70,000
Trucking / Dozer (Drilling)	\$8,000	\$0	\$8,000
Rental Tools & Equipment (Completion)	\$0	\$10,000	\$10,000
Fresh Water Hauling (Drilling)	\$5,000	\$0	\$5,000
Cased Hole Logging / Perforating	\$0	\$45,000	\$45,000
Rental Tools & Equipment (Drilling)	\$70,000	\$15,000	\$85,000
Open Hole Logging & Testing	\$1,000	\$18,000	\$19,000
Stimulation / Fracturing	\$0	\$500,000	\$500,000
Roustabout Labor	\$10,000	\$10,000	\$20,000
Overhead Rate	\$3,000	\$5,000	\$8,000
Misc. & Contingencies (Insurance)	\$76,100	\$0	\$76,100
Haul Pit Water / Disposal	\$0	\$8,000	\$8,000
Drilling - Mobilization	\$20,000	\$0	\$20,000
Fuel	\$70,000	\$0	\$70,000
Technical Supervision (Drilling)	\$180,000	\$0	\$180,000
Technical Supervision (Completion)	\$10,000	\$0	\$10,000
Environmental & Safety	\$2,000	\$10,000	\$12,000
<b>TOTAL INTANGIBLES</b>	<b>\$923,100</b>	<b>\$668,000</b>	<b>\$1,621,100</b>

Description	Casing Point	Completion	Total Cost
Conductor	\$2,000	\$0	\$2,000
26 lb/ft LS Surface Csg	\$10,000	\$0	\$10,000
19 lb/ft LS Intermediate Csg	\$102,800	\$0	\$102,800
4 1/2" 9.5 lb/ft M-65 Production Csg	\$0	\$150,000	\$150,000
Wellhead Equipment / Fittings	\$11,000	\$23,000	\$34,000
2-3/8" 4.7 lb/ft J55 6rd Production Tubing	\$0	\$18,000	\$18,000
Rods / Stuffing Box	\$0	\$0	\$0
Downhole Pump	\$0	\$0	\$0
Electric Service & Equipment	\$0	\$17,000	\$17,000
Tank Battery	\$0	\$4,500	\$4,500
Flow Line labor/material	\$0	\$5,350	\$5,350
Valves & Fittings	\$0	\$500	\$500
Separator / Heater / Treater	\$0	\$7,050	\$7,050
4 1/2" 10.5 lb/ft M-85 Production Csg	\$0	\$0	\$0
Gas Lift Equipment	\$0	\$0	\$0
Pumping Unit / Motor	\$0	\$0	\$0
Sales line labor/mat/row	\$0	\$5,000	\$5,000
<b>TOTAL TANGIBLES</b>	<b>\$128,800</b>	<b>\$230,400</b>	<b>\$368,000</b>

<b>GRAND TOTAL WELL COST</b>	<b>\$1,048,700</b>	<b>\$828,400</b>	<b>\$1,977,100</b>
Plugging & Abandonment	\$30,000		
<b>Production Costs :</b>	<b>\$1,977,100</b>	<b>Dry Hole Costs :</b>	<b>\$1,078,700</b>

Operations Jan Lark Date 4/18/2019

Engineering [Signature] Date 4/18/2019

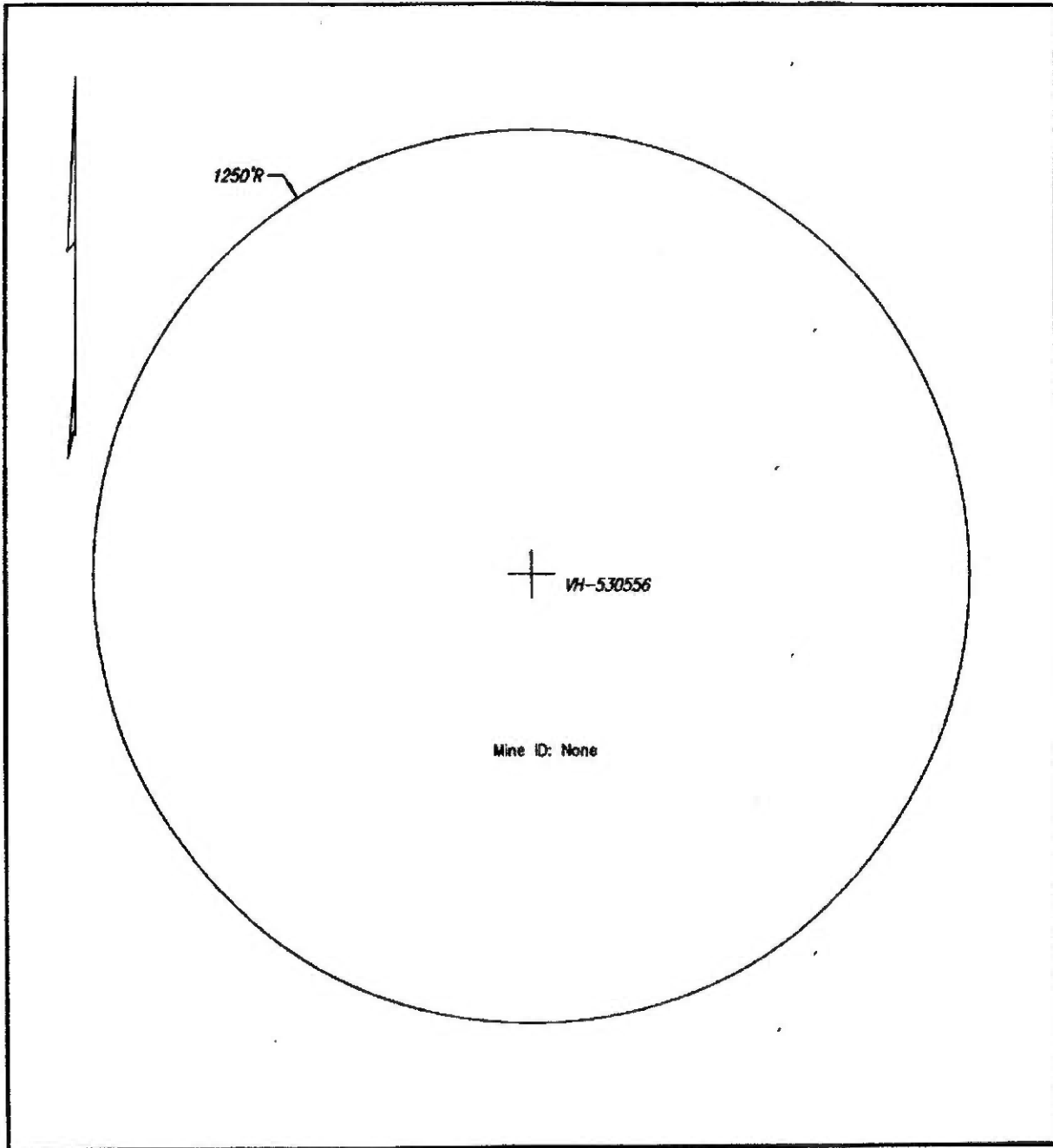
Geology [Signature] Date 4/18/2019

Land [Signature] Date 4/18/2019

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 INCLUDING, BUT NOT LIMITED TO, SEASONAL MATERIAL COSTS, WEATHER CONDITIONS, AND UNFORESEEN RIGHT-OF-WAY PROBLEMS.

Exhibit C  
 VH-530556  
 Docket Number: 19-0521-4211

Exhibit L  
2400-R-548  
VH-530556  
VGOB-19-0521-4211



WELL & MINE LOCATION MAP (UNIT NAME: SWVH-1\_A-R285-C387\_HR)

COMPANY EnerVest Operating, LLC WELL NAME AND NUMBER VH-530556  
QUADRANGLE Caney Ridge PERMIT NO. \_\_\_\_\_ SCALE 1" = 400' DATE 4-10-2019

NOTE: The mine locations are approximate locations taken from downloaded DMME data.  
The maps are to be used for anticipated drilling hazards only.