

BEFORE THE VIRGINIA GAS AND OIL BOARD

Applicant:	EnerVest Operating, L.L.C.	)	
		)	
		)	
Relief Sought:	Pooling VCI-538729 Nora Grid 91-BK	)	
	Nora Coalbed Gas Field	)	
Legal		)	
Description:		)	
	J.M. & L.L. McFarland T-603 Tract	)	Docket Number:
	350.00 acres, more or less	)	VGOB-18-0417-4170
	Hurricane District	)	
	Big A Mountain Quadrangle	)	
	Buchanan County, Virginia	)	
		)	
	(See Exhibit "A" For Specific	)	
	Description)	)	

APPLICATION

1. Parties: Applicant herein is EnerVest Operating, L.L.C., whose address for the purposes hereof is 408 West Main Street, Abingdon, Virginia 24210 Telephone: (276) 628-9001. The attorney for Applicant is Timothy E. Scott, whose address is 135 West Main Street, Suite 200, Kingsport, Tennessee 37660, Telephone: (423) 247-9376. The unleased entities or persons are listed on Exhibit B-3, attached hereto and made a party hereto. Set forth in Exhibit B is the name and last-known address of each owner of record identified by Applicant as having an interest in the oil, gas and coalbed methane underlying the unit described in Exhibit A, attached hereto and made part hereof. Each of the unleased individuals named in Exhibit B-3 is being made a party if living; if any such individual is deceased, then the unknown heirs, executors, administrators, devisees, trustees and assignees, both immediate and remote, of any such deceased individual are made parties herein. Each of the unleased entities listed in Exhibit B-3 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, trustees, and assigns, both immediate and remote, of such dissolved corporation are made parties herein. Each of the unleased entities listed in Exhibit B-3 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, both immediate and remote, of such unincorporated association are made parties herein.

2. Allegation of Facts: Applicant is the owner of the right to develop and produce coalbed methane from all formations, from the surface to the total depth drilled within the Nora Coalbed Gas Field and underlying the lands described on Exhibit A attached hereto and made a part hereof and to appropriate the oil, gas and coalbed methane produced therefrom.

(a) Applicant has proposed a plan of development and operation of the Formations underlying the drilling unit involved herein (described and depicted on Exhibit A attached hereto and made a part hereof) and has proposed to commence such plan of development and operation of such unit by a well, designated as well number VCI-538729 Nora Grid 91-BK under such plan in the lands involved herein so as to produce oil, gas and coalbed methane from the proposed unit.

- (b) A Well work permit for well number VCI-538729 Nora Grid 91-BK is currently or is anticipated to be pending before the Department of Mines, Minerals and Energy.
- (c) Applicant has exercised due diligence to locate each of the oil, gas and coalbed methane interest owners named herein at Exhibit B-3 and has made or is making a bona fide effort to reach an agreement with all unleased parties as to pooling their interest for the development and operation of the well involved herein. Simultaneously with the filing of this application, Applicant has provided notice to each of the unleased parties set forth in Exhibit B-3 pursuant to the provisions of § 45.1-361.19 of the Virginia Code Annotated. Applicant hereby notifies the Board that where the identity or location of any person is shown as "unknown" on Exhibit B-3, then Applicant is unable to provide such person with written notice of the application herein. Conflicting Owners/Claimants in the Subject Drilling Unit are listed in Exhibit E. The interest of all unleased persons in the Formations underlying the drilling unit for well number VCI-538729 Nora 91-BK should be pooled for the development and operation thereof.
- (d) Applicant proposes to drill at the permitted location to an approximate depth of 2,961 feet on the Subject Lands to test for oil, gas and coalbed methane in the Subject Formations, including all Pennsylvanian age coals from the top of the Aily, including but not limited to Raven, Jawbone Rider, Jawbone, Tiller, Upper Seaboard, Greasy Creek, Upper Horsepen, Middle Horsepen, War Creek, Beckley, Lower Horsepen, Pocahontas #9, Pocahontas #3, Pocahontas #2, and Pocahontas #1 and any unnamed coal seams and other associated formations known as the Nora Coalbed Gas Field. Applicant estimates the cost for a well to said depth to be \$417,650.00 for a well completed for production. Exhibit C, attached hereto and made part hereof, is Applicant's signed Authorization For Expenditure ("AFE") which shows the estimated cost of drilling, completing and equipping said well.
- (e) The estimated production over the life of the proposed well is 850 mmcf. These figures concerning estimated production and the amount of reserves are, however, estimates only that are not based upon actual production and should not be relied upon for any purpose.

3. Legal Authority: The relief sought by this Application is authorized by Virginia Code Annotated § 45.1-361.21 et seq. and § 4 VAC 25-160-70 et seq.

4. Relief Sought: Applicant requests the Virginia Gas and Oil Board to enter an order pooling all unleased interests or estates of all persons or entities owning oil, gas and coalbed methane interests in the Formations underlying the tracts encompassed by the drilling unit supporting well number VCI-538729 Nora Grid 91-BK, and (I) authorizing the drilling and operation of a well for the production of oil, gas and coalbed methane from the pooled acreage; (II) designating Applicant as the party authorized to drill and operate such well; (III) prescribing the time, manner, and other conditions under which unleased parties owning an interest in the oil, gas and coalbed methane may elect to participate in the operation of such well, or to exercise their rights of election under the applicable statutes; (IV) providing that all reasonable costs and expenses of drilling, completing, equipping, operating, plugging and abandoning such well shall be borne, and all production therefrom, shared, by all participating parties in the proportion which the acreage in the pooled tracts owned or under lease to each such participating party bears to the total acreage in such unit; and (V) making provision for the payment of all reasonable costs of the operation, including a reasonable supervision fee, to the Applicant by all parties who elect to participate therein or who elect to be carried interest owners.

Dated this 16th day of March, 2018.

ENERVEST OPERATING, L.L.C



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

**VERIFICATION**

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



\_\_\_\_\_  
Timothy E. Scott

BEFORE THE VIRGINIA GAS AND OIL BOARD

Applicant: EnerVest Operating, L.L.C. )  
)  
)  
Relief Sought: Pooling )  
)  
)  
Location: See Exhibit "A" ) Docket No.  
Well Number: VCI-538729 Nora Grid 91-BK ) VGOB-18-0417-4168  
Nora Coalbed Gas Field )  
)  
)  
Legal )  
Description: J.M. & L.L. McFarland T-603 Tract )  
350.00 acres, more or less )  
Hurricane District )  
Big A Mountain Quadrangle )  
Buchanan County, Virginia )

NOTICE OF HEARING

HEARING DATE: April 17, 2018  
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, gas and coalbed methane in and underlying the unit surrounding VCI-538729 Nora Grid 91-BK 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-3.

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 unleased persons pursuant to Virginia Code Ann. § 45.1-361.1 et seq. in regard to the drilling, development and production of oil, gas and coalbed methane from drilling unit VCI-538729 Nora Grid 91-BK containing approximately 58.77 acres, located on the above-referenced tracts situated approximately 2,880 feet southeast of the intersection of Virginia State Route 602 and Cellar Road and approximately 3,800 feet southwest of Copperhead Gap in the Hurricane District, Big A. Mountain Quadrangle of 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, both immediate and remote, for the drilling, development and production of oil, gas and coalbed methane 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, gas and coalbed methane 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 allocable to such person's interest; or

In the case of an unleased tract, 200 percent of the share of 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, gas and coalbed methane 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, L.L.C., as Operator; providing that the Operator shall have the right to drill, develop, produce, market and sell oil, gas and coalbed methane produced from the subject drilling unit; granting the Operator the right to market and sell oil, gas and coalbed methane produced from the subject drilling unit which is attributable to the conflicting claims and interest pooled herein; providing that the Operator shall have an operator's lien on the oil, gas and coalbed methane 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 Va. Code Ann. § 45.1-361.22;

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

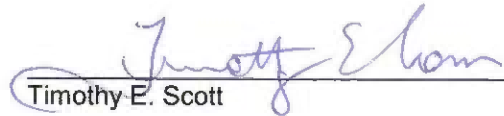
h. Granting such other relief as is merited by the evidence and is just and equitable, whether or not such relief has been specifically requested herein.

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 17, 2018** at the **Russell County Conference Center, 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. The Board rules require that any written objections you wish to file must be filed with the Board at least 10 days before the hearing. 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 16<sup>th</sup> of March, 2018.

EnerVest Operating, L.L.C.  
408 West Main Street  
Abingdon, Virginia 24212

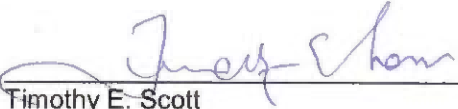
  
\_\_\_\_\_  
Timothy E. Scott

Counsel for  
EnerVest Operating, L.L.C.  
135 West Main Street  
Suite 200  
Kingsport, Tennessee 37660  
(423) 247-9376

CERTIFICATE OF SERVICE

I, Timothy E. Scott, counsel for EnerVest Operating, L.L.C., hereby certify that I have on this, the 16<sup>th</sup> day of March, 2018, caused the foregoing notice and application to be served upon parties listed herein, at their address, by certified mail, return receipt requested, if available.

Dated this 16<sup>th</sup> day of March, 2018.

  
\_\_\_\_\_  
Timothy E. Scott

1,480'

Well Coordinates: (Geographic N83)  
37.058767° -82.088261°

Well Coordinates: (UTM N27, Zone 17)  
N 13,457,092.71 E 1,322,924.90

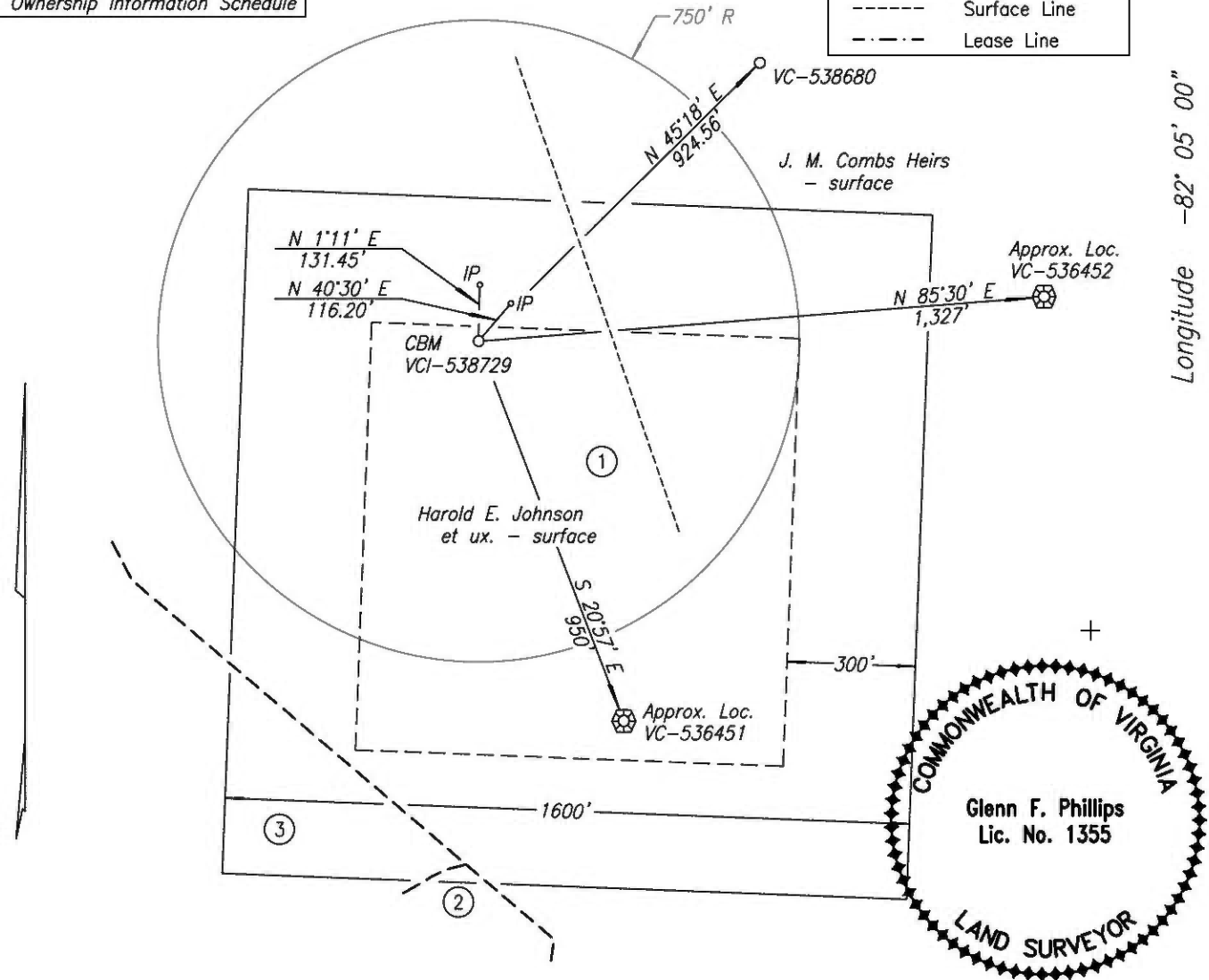
Latitude 37° 05' 00"

Longitude -82° 05' 00"

8,985'

Note: See Attached Tract Ownership Information Schedule

--- Mineral Line  
- - - Surface Line  
- · - Lease Line



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: Well spot is 34.65' south of interior grid line

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

Area of Unit = 58.77 Ac.

Well Coordinates: (VA St. Plane S. Zone, NAD 83 (1993))  
N 3,564,850.01 E 10,436,129.55

Well Coordinates: (VA St. Plane S. Zone, NAD 27 Calculated from NAD 83 (1993))  
N 283,973.94 E 953,142.90

Well Coordinates: (Clinchfield Coal Co.)  
S 15,034.66 E 86,051.14

WELL LOCATION PLAT NORA GRID BK-91

COMPANY EnerVest Operating, LLC WELL NAME AND NUMBER VCI-538729  
TRACT NO. T-603 ELEVATION 2,340.29' QUADRANGLE Big A Mountain  
COUNTY Buchanan DISTRICT Hurricane SCALE 1" = 400' DATE 10-24-2017

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.

~~Licensed Professional Engineer or Licensed Land Surveyor~~

**Glenn F Phillips**  
Digitally signed by Glenn F Phillips  
DN: c=US, o=IdenTrust ACES  
Business Representative,  
ou=GLENN F. PHILLIPS COMPANY  
P.C., cn=Glenn F Phillips,  
0.92342.19200300.100.1.1=A0109  
80000013B66EF837500006DD  
Date: 2018.03.15 08:21:02 -0400'

**VCI-538729 PLAT  
TRACT OWNERSHIP INFORMATION SCHEDULE  
10/24/2017**

- 1 . T-603  
 J. M. & L. L. McFarland  
 350 Acres  
 ACIN LLC - coal (except Tiller seam)  
 Paramount Contura, LLC - coal lessee  
 WBRD LLC - coal (except Tiller seam)  
 Dickenson-Russell Contura, LLC - coal lessee  
 Mullins Land & Mineral, Inc. - coal (Tiller seam only)  
 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 & CBM  
 Gas 55.27 Ac. 94.04%
  
- 2 . TC-236  
 Cornelius Ball  
 220 Acres  
 ACIN LLC - coal (except Tiller seam)  
 Paramount Contura, LLC - coal lessee  
 WBRD LLC - coal (except Tiller seam)  
 Dickenson-Russell Contura, LLC - coal lessee  
 Mullins Land & Mineral, Inc. - coal (Tiller seam only)  
 Lease No. 967220 (Partially Leased)  
 Cornelius Ball Heirs - oil, gas & CBM  
 0.75 Acres  
 Gas 0.08 Ac. 0.14%
  
- 3 . TC-236  
 Cornelius Ball  
 220 Acres  
 ACIN LLC - coal (except Tiller seam)  
 Paramount Contura, LLC - coal lessee  
 WBRD LLC - coal (except Tiller seam)  
 Dickenson-Russell Contura, LLC - coal lessee  
 Mullins Land & Mineral, Inc. - coal (Tiller seam only)  
 Lease No. 967220 (Partially Leased)  
 Cornelius Ball Heirs - oil, gas & CBM  
 59.25 Acres  
 Gas 3.42 Ac. 5.82%

**Exhibit "B"**  
**VCI-538729**  
**VGOB-18-0417-4170**

Tract	Lessor	Lease Status	Interest Within Unit	Gross Acreage in Unit
<b>Coal Estate Only</b>				
1	<i>Tax ID - Minerals Only</i> EnerVest Energy Institutional Fund XIV-A, L.P. & EnerVest Energy Institutional Fund XIV-WIC, L.P. Attn: Jim McKinney 408 West Main Street Abingdon, VA 24210	Owner	94.04000000	55.27000000
2	EnerVest Energy Institutional Fund XIV-A, L.P. & EnerVest Energy Institutional Fund XIV-WIC, L.P. Attn: Jim McKinney 408 West Main Street Abingdon, VA 24210 <i>Tax ID - Minerals Only</i>	Owner	0.14000000	0.08000000
3	EnerVest Energy Institutional Fund XIV-A, L.P. & EnerVest Energy Institutional Fund XIV-WIC, L.P. Attn: Jim McKinney 408 West Main Street Abingdon, VA 24210 <i>Tax ID - Minerals Only</i>	Owner	5.82000000	3.42000000
<b>TOTAL COAL ESTATE</b>			100.00000000	58.77000000
Percentage of Unit Leased		100.00000000	58.77000000	
Percentage of Unit Unleased		0.00000000		
Acreage in Unit Leased		58.70000000		
Acreage in Unit Unleased		0.07000000		

**Exhibit "B"**  
**VCI-538729**  
**VGOB-18-0417-4170**

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: Jim McKinney 408 West Main Street Abingdon, VA 24210 <i>Tax ID - Minerals Only</i>	Owner	94.04000000	55.27000000	
2	<i>Tax ID - Minerals Only</i> Linda L. Griffith 512 Shannon St. Tazewell, VA 24651	Leased	0.12000000	0.06857143	6/7
	Norma L.Harris 24 Biscayne Pl. Sterling, VA 20164	Leased	0.00285714	0.00163265	1/49
	Terry Skeens 3640 Applewood Rd. Richmond, VA 23234	Leased	0.00285714	0.00163265	1/49
	Ellen Parks 143 Farm View Rd. Front Royal, VA 22630	Leased	0.00285714	0.00163265	1/49
	Nancy Virginia Skeens, Widow 709 Kilarney Dr. Fredricksburg, VA 22407	Leased	0.00285714	0.00163265	1/49
	Shelby Skeens, Widow 153 Old Park Rd. Montross, VA 22520-2002	Leased	0.00285714	0.00163265	1/49
	Lacy Breeding, Jr. and Demmie Breeding, H/W 7851 Carrollton Pike Galax, VA 24333-5956	Leased	0.00057143	0.00032653	1/245

Gary D. Breeding 3833 River Rd. Hopewell, VA 23860-1644	Leased	0.00057143	0.00032653	1/245
Tommy J. Breeding 1433 River Mountain Rd. Lebanon, VA 24266	Leased	0.00057143	0.00032653	1/245
Ronald Breeding 1829 Spring City Rd. Cleveland, VA 24225	Leased	0.00057143	0.00032653	1/245
Peggy A. Leonard 1215 Tremont Ave. Bristol, VA 37620	Leased	0.00057143	0.00032653	1/245
Betty A. Mathis and Ronald K. Mathis, W/H 562 Fulla Lane Heath, OH 43056-9239	Leased	0.00047619	0.00027211	1/294
Ada E. Wilson, Widow 1080 S. 30 St. - Apt.204 Mitchell Retirement Village Heath, OH 43056	Leased	0.00047619	0.00027211	1/294
Leonard Parrott and Pauline Parrott, H/W 244 Browntown Rd. Max Meadows, VA 24360	Leased	0.00047619	0.00027211	1/294
Donald Mabe 244 Browntown Rd. Max Meadows, VA 24360	Leased	0.00047619	0.00027211	1/294
David Mabe 723 Copper Rd. Cleveland, VA 24225	Leased	0.00047619	0.00027211	1/294
James Parrott and Kay Parrott, H/W 572 Myrtle Ave Newark, OH 43055-3193	Leased	0.00047619	0.00027211	1/294
<b>Tract 2 Totals</b>		<b>0.14000000</b>	<b>0.08000000</b>	

3	<i>Tax ID - Minerals Only</i>	Leased	0.11877551	0.06979592	1/49
	Norma L.Harris 24 Biscayne Pl. Sterling, VA 20164				
	Terry Skeens 3640 Applewood Rd. Richmond, VA 23234				
	Ellen Parks 143 Farm View Rd. Front Royal, VA 22630				
	Nancy Virginia Skeens, Widow 709 Kilarney Dr. Fredricksburg, VA 22407				
	Shelby Skeens, Widow 153 Old Park Rd. Montross, VA 22520-2002				
	Lacy Breeding, Jr. and Demmie Breeding, h/w 7851 Carrollton Pike Galax, VA 24333-5956				
	Gary D. Breeding 3833 River Rd. Hopewell, VA 23860-1644				
	Tommy J. Breeding 1433 River Mountain Rd. Lebanon, VA 24266				
	Ronald Breeding 1829 Spring City Rd. Cleveland, VA 24225				
	Peggy A. Leonard 1215 Tremont Ave. Bristol, VA 37620				
	Betty A. Mathis and Ronald K. Mathis, w/h 562 Fulla Lane Heath, OH 43056-9239				

Ada E. Wilson, Widow 1080 S. 30 St. - Apt.204 Mitchell Retirement Village Heath, OH 43056	Leased	0.01979592	0.01163265	1/294
Leonard Parrott and Pauline Parrott, h/w 244 Browntown Rd. Max Meadows, VA 24360	Leased	0.01979592	0.01163265	1/294
Donald Mabe 244 Browntown Rd. Max Meadows, VA 24360	Leased	0.01979592	0.01163265	1/294
David Mabe 723 Copper Rd. Cleveland, VA 24225	Leased	0.01979592	0.01163265	1/294
James Parrott and Kay Parrott, h/w 572 Myrtle Ave Newark, OH 43055-3193	Leased	0.01979592	0.01163265	1/294
Terry W. McGlothlin 6423 McGlothlin Lane Dublin, VA 24084	Leased	0.41571429	0.24428571	1/14
Betty J. Peyton 4330 Little Creek Rd. Dublin, VA 24084	Leased	0.41571429	0.24428571	1/14
Sharlene Compton Sheets 140 Carib Street Martinsburg, WV 25405	Leased	0.41571429	0.24428571	1/14
Anna Compton Pauley 140 Carib St. Martinsburg, WV 25405	Leased	0.41571429	0.24428571	1/14
Katherine Ball c/o Linda L. Griffith 512 Shannon St. Tazewell, VA 24651	Leased	0.83142857	0.48857143	1/7
Heirs of Lovis Ball Brown Unknown/Unlocateable	Unleased	0.83142857	0.48857143	1/7

Linda L. Griffith 512 Shannon St. Tazewell, VA 24651	Leased	0.41571429	0.24428571	1/14
Mike A. Ball and Emily A. Ball, h/w 3808 Combs Ridge Rd. Honaker, VA 24260	Leased	0.41571429	0.24428571	1/14
Moses A. Ball, Jr. and Patricia M. Ball, h/w 1262 SW Maplewood Dr. Port Saint Lucie, FL 34986	Leased	0.41571429	0.24428571	1/14
Todd J. Pioch 3405 Brownes Creek Rd Charlotte, NC 28269	Leased	0.20785714	0.12214286	1/28
Tammy K. Pioch 1574 Trestle Glen Rd Oakland, CA 94610	Leased	0.20785714	0.12214286	1/28

**Tract 3 Totals** **5.82000000 3.42000000**

**TOTAL GAS ESTATE** **100.00000000 58.77000000**

Percentage of Unit Leased	99.16857143
Percentage of Unit Unleased	0.83142857
Acreage in Unit Leased	58.28142857
Acreage in Unit Unleased	0.48857143

**Exhibit "B-3"**  
**VCI-538729**  
**VGOB-18-0417-4170**

<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>				
3	<i>Tax ID - Minerals Only</i> Heirs of Lovis Ball Brown Unknown/Unlocateable	Unleased	0.83142857	0.48857143
<b>TOTAL GAS ESTATE</b>			<b>0.83142857</b>	<b>0.48857143</b>

Company: EnerVest Operating, LLC.

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

AFE #	
Well Name: VCI-538729	
Location: Buchanan, VA	
Expected Pay Zones: PENNSLVANIA COALS	
Proposed Work: DRILL, COMPLETE AND PLACE INTO PRODUCTION	
Property #	Version # 1
Field: NORA FIELD	Completed By: TEAM
Operator: EnerVest Operating, LLC.	Date: 3/5/2018
Estimated Total Depth: 2,961 FT	AAPG Class: DEVELOPMENT
Participant(s): EnerVest Operating, LLC.	W.I. 100% Amount: \$417,650

Description	Casing Point	Completion	Total Cost
Leasehold Costs	\$0	\$0	\$0
Permit / Title Opinion / Survey / Insurance	\$13,000	\$0	\$13,000
Building Location/Materials	\$24,000	\$2,500	\$26,500
Roads / Stone / Culverts	\$13,000	\$0	\$13,000
Surface Damages	\$0	\$0	\$0
Drilling - Footage	\$51,800	\$0	\$51,800
Drilling - Mobilization	\$0	\$0	\$0
Drilling - Dayrate	\$0	\$0	\$0
Mud & Chemicals (Drilling)	\$0	\$700	\$700
Fuel	\$0	\$0	\$0
I Cement Services	\$9,000	\$0	\$9,000
T Open Hole Logging & Testing	\$3,100	\$4,400	\$7,500
A Trucking / Dozer (Drilling)	\$1,900	\$0	\$1,900
N Rental Tools & Equipment (Drilling)	\$0	\$0	\$0
G Drilling - Bits	\$0	\$1,500	\$1,500
I Technical Supervision (Drilling)	\$0	\$0	\$0
B Fresh Water Hauling (Drilling)	\$1,700	\$0	\$1,700
L Overhead Rate	\$6,000	\$1,000	\$7,000
E Misc. & Contingencies (Insurance)	\$300	\$0	\$300
S Location Rds/Stone/Culverts	\$0	\$500	\$500
Trucking / Dozer (Completion)	\$0	\$4,800	\$4,800
Technical Supervision (Completion)	\$0	\$0	\$0
Cased Hole Logging / Perforating	\$0	\$14,500	\$14,500
Stimulation / Fracturing	\$0	\$85,000	\$85,000
Completion Rig	\$0	\$7,000	\$7,000
Reclamation & Damages	\$7,400	\$0	\$7,400
Haul Pit Water / Disposal	\$0	\$2,900	\$2,900
Cement Production Casing	\$0	\$13,000	\$13,000
Rental Tools & Equipment (Completion)	\$0	\$4,000	\$4,000
Fresh Water Hauling (Completion)	\$0	\$3,900	\$3,900
Roustabout Labor	\$1,700	\$2,900	\$4,600
Environmental & Safety	\$600	\$500	\$1,100
<b>TOTAL INTANGIBLES</b>	<b>\$133,500</b>	<b>\$149,100</b>	<b>\$282,600</b>

Description	Casing Point	Completion	Total Cost
T " Conductor Ft	\$1,100	\$0	\$1,100
A " 26 lb/ft LS Surface Csg Ft	\$0	\$0	\$0
N " 19 lb/ft LS Intermediate Csg Ft	\$12,000	\$0	\$12,000
G 4½" 9.5 lb/ft M-65 Production Csg Ft	\$0	\$16,800	\$16,800
I 4½" 10.5 lb/ft M-65 Production Csg Ft	\$0	\$0	\$0
B 2-3/8 " 4.7 lb/ft J55 8rd Production Tubing Ft	\$0	\$10,500	\$10,500
L Wellhead Equipment / Fittings	\$1,800	\$8,800	\$10,600
E Tank Battery	\$0	\$7,000	\$7,000
S Separator / Heater / Treater	\$0	\$5,500	\$5,500
Gas Lift Equipment	\$0	\$0	\$0
Rods / Stuffing Box	\$0	\$4,500	\$4,500
Downhole Pump	\$0	\$1,600	\$1,600
Pumping Unit / Motor	\$0	\$10,000	\$10,000
Electric Service & Equipment	\$0	\$23,000	\$23,000
Valves & Fittings	\$0	\$0	\$0
Flow Line labor/material	\$0	\$18,500	\$18,500
Sales line labor/mat/row	\$0	\$13,950	\$13,950
<b>TOTAL TANGIBLES</b>	<b>\$14,900</b>	<b>\$120,150</b>	<b>\$135,050</b>

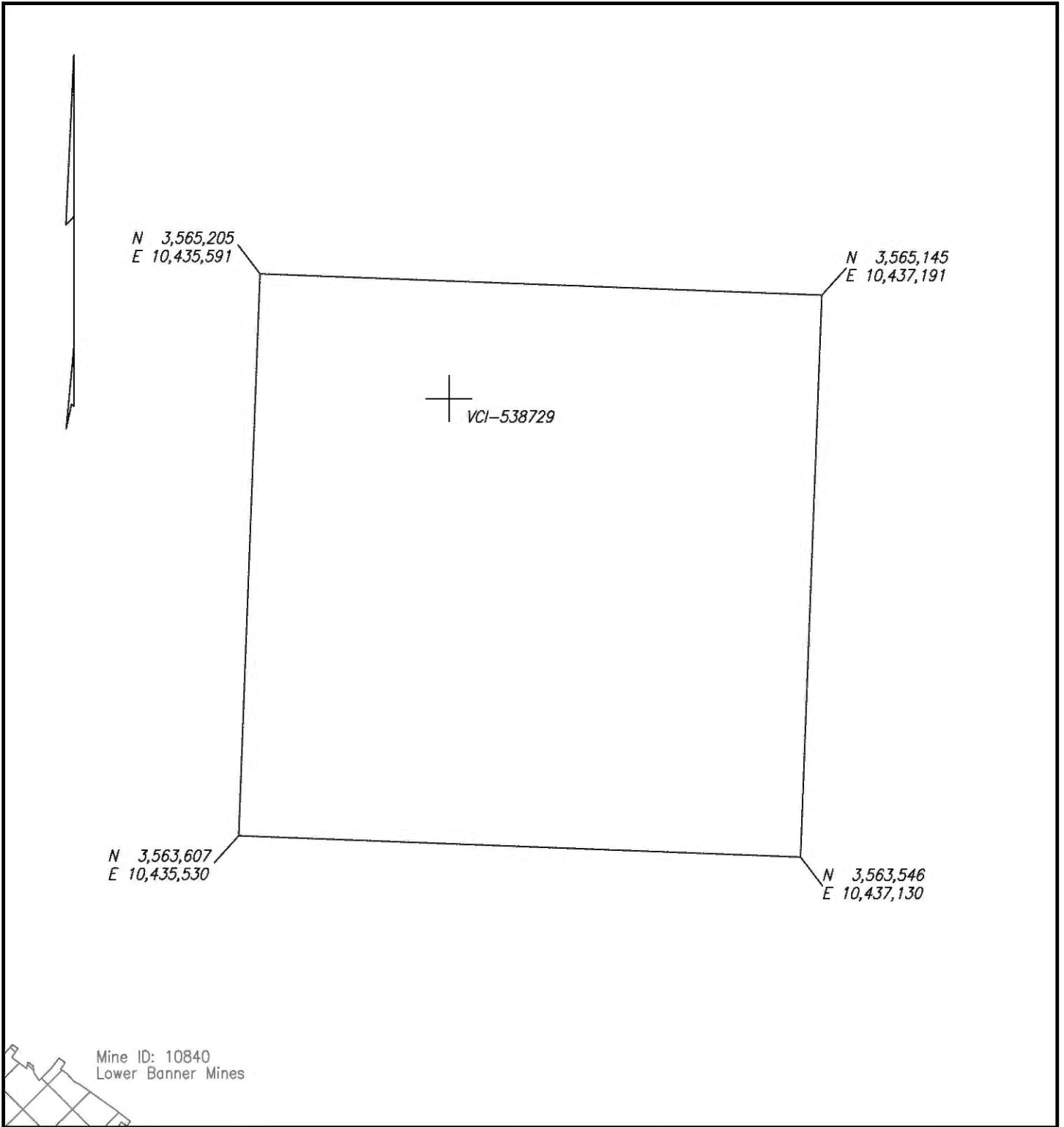
<b>GRAND TOTAL WELL COST</b>	<b>\$148,400</b>	<b>\$269,250</b>	<b>\$417,650</b>
Plugging & Abandonment	\$30,000		
<b>Production Costs :</b>	<b>\$417,650</b>	<b>Dry Hole Costs :</b>	<b>\$178,400</b>

Operations	<i>C.M. Randolph</i>	Date	<i>3/14/18</i>
Engineering	<i>[Signature]</i>	Date	<i>3/14/2018</i>
Geology	<i>[Signature]</i>	Date	<i>3/14/2018</i>
Land	<i>[Signature]</i>	Date	<i>3/14/2018</i>

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 "E" - Escrow Owners  
VCI-538729  
VGOB-18-0417-4170**

<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>				
3	<i>Tax ID - Minerals Only</i> Heirs of Lovis Ball Brown Unknown/Unlocateable	Unleased	0.83142857	0.48857143
<b>TOTAL GAS ESTATE</b>			<b>0.83142857</b>	<b>0.48857143</b>

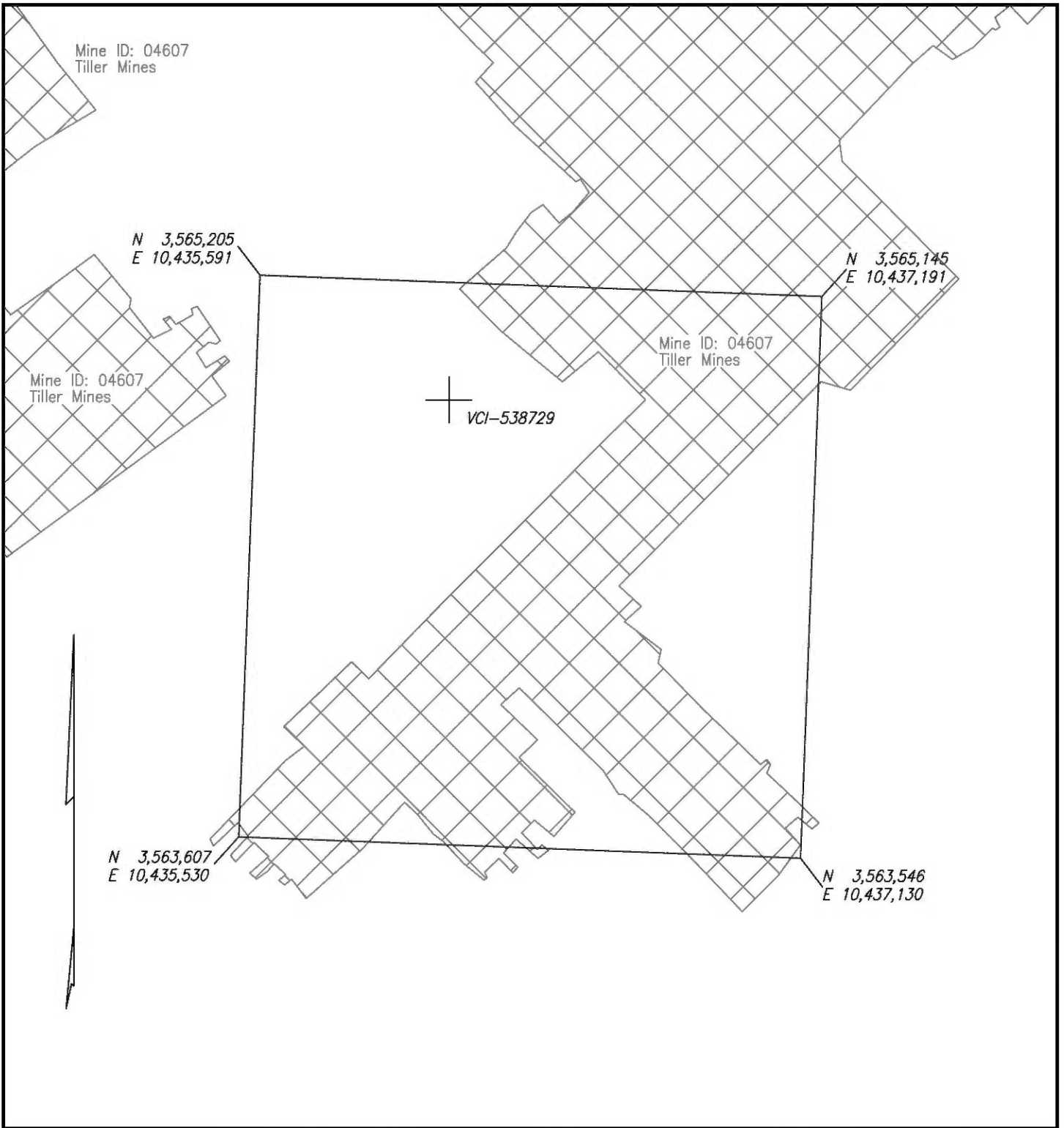


WELL & MINE LOCATION MAP NORA GRID BK-91

COMPANY EnerVest Operating, LLC WELL NAME AND NUMBER VCI-538729  
QUADRANGLE Big A Mtn. PERMIT NO. \_\_\_\_\_ SCALE 1" = 400' DATE 10-24-2017

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

EXHIBIT L



WELL & MINE LOCATION MAP NORA GRID BK-91

COMPANY EnerVest Operating, LLC WELL NAME AND NUMBER VCI-538729  
QUADRANGLE Big A Mtn. PERMIT NO. \_\_\_\_\_ SCALE 1" = 400' DATE 10-24-2017

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

EXHIBIT L