

BEFORE THE VIRGINIA GAS AND OIL BOARD

Applicant: EnerVest Operating, L.L.C. )  
)  
)  
Relief Sought: Pooling VCI-530432 Nora Grid AT-83 )  
Nora Coalbed Gas Field )  
Legal )  
Description: )  
Jacob Lester T-599 Tract ) Docket Number:  
300.00 acres, more or less ) VGOB-17-0117-4108  
Hurricane District )  
Prater 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 406 West Main Street, P. O. Box 2136 Abingdon, Virginia 24212 Telephone: (276) 628-9001. The attorney for Applicant is Timothy E. Scott, MCKINNIS & 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-530432 Nora Grid AT-83 under such plan in the lands involved herein so as to produce oil, gas and coalbed methane from the proposed unit.

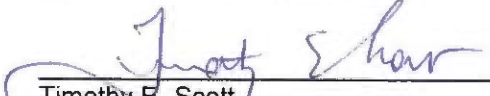
- (b) A Well work permit for well number VCI-530432 Nora Grid AT-83 is currently or is anticipated to be pending before the Department of Mines, Minerals and Energy.
- (c) Applicant has exercised due diligence to locate each of the oil, gas and coalbed methane interest owners named herein at Exhibit 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-530432 Nora Grid AT-83 should be pooled for the development and operation thereof.
- (d) Applicant proposes to drill at the permitted location to an approximate depth of 2,500 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 \$366,150.00 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 720 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-530432 Nora Grid AT-83, 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 23<sup>rd</sup> day of December, 2016.

ENERVEST OPERATING, L.L.C

  
\_\_\_\_\_  
Timothy E. Scott  
MCKINNIS & 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  
MCKINNIS & 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-530432 Nora Grid AT-83 ) VGOB-17-0117-4108  
Nora Coalbed Gas Field )  
)  
)  
Legal )  
Description: Jacob Lester T-599 Tract )  
300.00 acres, more or less )  
Hurricane District )  
Prater Quadrangle )  
Buchanan County, Virginia )

NOTICE OF HEARING

HEARING DATE: January 17, 2017  
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-530432 Nora Grid AT-83 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-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-530432 Nora Grid AT-83, containing approximately 58.77 acres, located on the above-referenced tracts situated approximately 5,075 feet northeast of the intersection of Virginia State Route 663 and Herringbone Road and approximately 4,650 feet southeast of Little Fox School in the Hurricane District, Prater 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

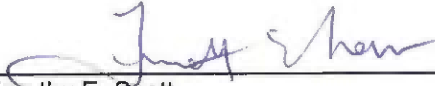
h. Granting such other relief as is merited by the evidence and is just and equitable, whether or not such relief has been specifically requested herein.

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 January 17, 2017** 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 23<sup>rd</sup> day of December, 2016.

EnerVest Operating, L.L.C.  
406 West Main Street  
P. O. Box 2136  
Abingdon, Virginia 24212

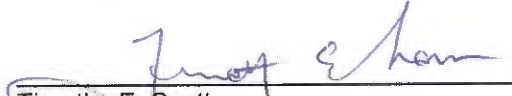
  
\_\_\_\_\_  
Timothy E. Scott

MCKINNIS & SCOTT,  
of 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, of Counsel for EnerVest Operating, L.L.C., hereby certify that I have on this, the 23rd day of December, 2016, caused the foregoing notice and application to be served upon parties listed herein, at their address, by certified mail, return receipt requested.

Dated this 23<sup>rd</sup> day of December, 2016.

  
\_\_\_\_\_  
Timothy E. Scott  
MCKINNIS & SCOTT

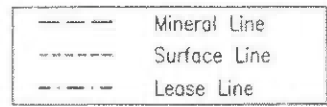
2,045

Well Coordinates: (Geographic N83)  
37.133149 -82.131871

Well Coordinates: (UTM N27, Zone 17)  
N 13,484,314.082 E 1,310,526.63

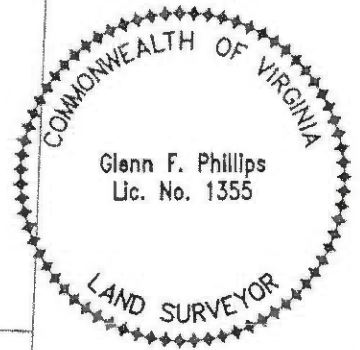
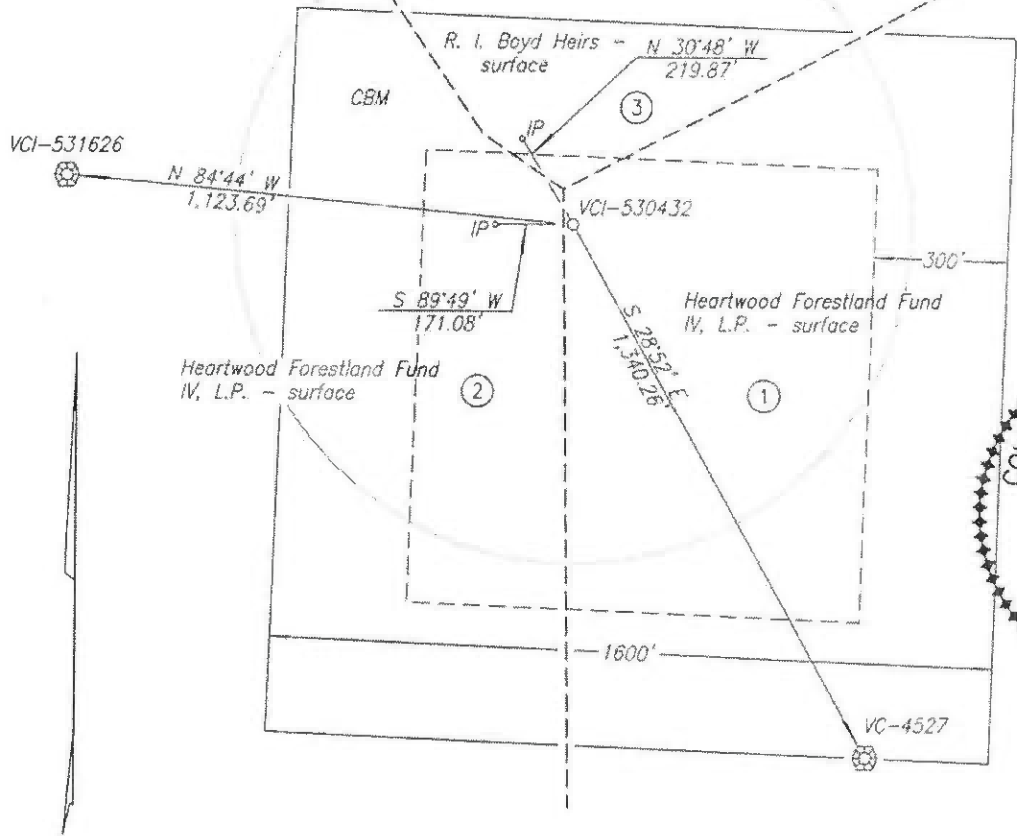
Latitude 37° 10' 00"

Note: See Attached Tract  
Ownership Information Schedule



Longitude -82° 07' 30"

12,240'



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.

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 3,592,398.32 E 10,424,455.20

Well Coordinates: (VA St. Plane S. Zone, NAD 27 Calculated from NAD 83 (1993))  
N 311,521.42 E 941,468.99

Well Coordinates: (Clinchfield Coal Co.)  
N 12,049.49 E 73,332.58

WELL LOCATION PLAT NORA GRID AT-83

COMPANY EnerVest Operating, LLC WELL NAME AND NUMBER VCI-530432  
TRACT NO. T-599 ELEVATION 2,123.97' QUADRANGLE Prater  
COUNTY Buchanan DISTRICT Hurricane SCALE 1" = 400' DATE 7-13-2016

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  
Licensed Professional Engineer or Licensed Land Surveyor

VCI-530432 PLAT  
TRACT OWNERSHIP INFORMATION SCHEDULE  
7/13/2016

- 1 . T-599  
Jacob Lester  
300 Acres  
ACIN LLC - coal  
Alpha Land & Reserves LLC - coal lessee  
WBRD LLC - coal  
Dickenson-Russell Coal Company 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 & CBM  
Gas 32.75 Ac. 55.73%
  
- 2 . T-615  
A. B. Nicholas  
241.49 Acres  
ACIN LLC - coal  
Alpha Land & Reserves LLC - coal lessee  
WBRD LLC - coal  
Dickenson-Russell Coal Company 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 & CBM  
Gas 21.29 Ac. 36.23%
  
- 3 . Partial Lease No. 245731L  
R.I. Boyd Heirs - oil, gas & CBM  
30 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 lessee  
Levisa Coal Co. - coal  
Gas 4.73 Ac. 8.04%

**Exhibit "B"**  
**VCI-530432**  
**Docket No. VGOB-17-0117-4108**

Tract	Lessor	Lease Status	Interest Within Unit	Gross Acreage in Unit
<b>Coal 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 Tax # Minerals Only	Owner	55.73000000	32.75000000
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 Tax # Minerals Only	Owner	36.23000000	21.29000000
3	Levisa Coal Company Attn: John Irvin 4710 Hunterwood Circle Richmond, TX 77469 Tax # Minerals Only	CNX Lessee	8.04000000	4.73000000
<b>TOTAL GAS ESTATE</b>			100.00000000	58.77000000
Percentage of Unit Leased		91.96000000		
Percentage of Unit Unleased		8.04000000		
Acreage in Unit Leased		54.04000000		
Acreage in Unit Unleased		4.73000000		

**Exhibit "B"**  
**VCI-530432**  
**Revised 2/7/2017**

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 Tax # Minerals Only	Owner	55.73000000	32.75000000
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 Tax # Minerals Only	Owner	36.23000000	21.29000000
3	Tax # 2HH-190-028 Scott Boyd 210 County Line Road Cedar Bluff, VA 24609	Leased	0.143571429	0.084464286
	Larry Boyd 156 Burhead Drive Haysi, VA 24256	Leased	0.143571429	0.084464286
	Michael Boyd 518 Fish Pond Road Haysi, VA 24256	Leased	0.143571429	0.084464286
	James Boyd P.O. Box 416 Haysi, VA 24256	Leased	0.143571429	0.084464286
	Clyde Boyd P.O. Box 403 Clinchco, VA 24226	Leased	0.574285714	0.337857143
	Hazel Neely PO Box 155 Davenport, VA 24239	Leased	0.127619048	0.075079365

Jeanette James 2371 Drill Road Honaker, VA 24260	Leased	0.127619048	0.075079365
Judy and Jennings Boyd 3501 Boyds Ridge Road Vansant, VA 24656	Leased	0.127619048	0.075079365
Brenda Sue Duty 1222 Boyds Ridge Road Vansant, VA 24256	Leased	0.127619048	0.075079365
Ralph Boyd P.O. Box 122 Maxie, VA 24628	Leased	0.127619048	0.075079365
Evelyn Coleman PO Box 97 Haysi, VA 24256	Leased	0.127619048	0.075079365
Juanita Maddox 1226 Calla Circle Fayetteville, NC 28303	Unleased	0.127619048	0.075079365
Arville Deel Heirs	Leased	0.127619048	0.075079365
Margie Wenner P.O. Box 313 Davenport, VA 24239	Leased	0.127619048	0.075079365
Arlene Deel 28131 Dickenson Hwy Haysi, VA 24256	Unleased	2.297142857	1.351428571
Jearl Fletcher 161 Dawnville Rd Apt J206 Dalton, GA 30721	Leased	0.191428571	0.112619048
Glenda Kay Fletcher 8864 Helen Henderson Highway Honaker, VA 24260	Leased	0.191428571	0.112619048
Christine M. Mack 4495 W Lynwest Dr Bloomington, IN 47404	Leased	0.191428571	0.112619048
Betty S. Fletcher 1281 Old Grissom Cr Rd Honaker, VA 24260	Leased	0.191428571	0.112619048

Bethel A. Shook 1950 SE Crowberry Dr Port St. Lucie, FL 34983	Leased	0.191428571	0.112619048
Gary T. Fletcher 5692 Deskins Rd Vansant, VA 24656	Leased	0.191428571	0.112619048
Ruby Perkins 1866 Little Prater Road Grundy, VA 24614	Leased	0.229714286	0.135142857
Laura Deel 3650 Kidder Road Almont, MI 48003	Leased	0.229714286	0.135142857
Opal Radcliffe 3460 E 75th Place Tulsa, OK 74136	Unleased	0.229714286	0.135142857
Norman Boyd 1039 Controller Rd Vansant, VA 24656	Unleased	0.229714286	0.135142857
Harmon Boyd 595 Dotson Ridge Ceres, VA 24318	Unleased	0.229714286	0.135142857
Mary J McGlothlin Heirs: <i>Donald A. McGlothlin, Jr.</i> <i>P.O. Box 580</i> <i>Lebanon, VA 24266</i>	Unleased	0.287142857	0.168928571
<i>Wayne Talbert Burton, Sr.</i> <i>1010 N. Martintown Road</i> <i>McCormick, SC 29835</i>	Unleased	0.095714286	0.056309524
<i>Mary Louise LaPerla</i> <i>PO Box 188</i> <i>Davidson, MD 21035</i>	Unleased	0.095714286	0.056309524
<i>Joseph John LaPerla</i> <i>3123 Patrick Henry Dr Apt 332</i> <i>Falls Church, VA 22044</i>	Unleased	0.095714286	0.056309524
<i>Leah Ann McGlothlin</i> <i>2859 Kennel Gap Road</i> <i>Oakwood, VA 24631</i>	Unleased	0.287142857	0.168928571
<i>Kevin Timothy McGlothlin</i> <i>2285 Clifton Farm Rd.</i> <i>Honaker, VA 24260</i>	Unleased	0.287142857	0.168928571

<b>Tract 3 Totals</b>		<b>8.04000000</b>	<b>4.73000000</b>
<b>TOTAL GAS ESTATE</b>		100.00000000	58.77000000
Percentage of Unit Leased	95.73752381		
Percentage of Unit Unleased	4.26247619		
Acreage in Unit Leased	56.26234921		
Acreage in Unit Unleased	2.50765079		

**Exhibit "B"**  
**VCI-530432**  
**Revised 3/3/2017**

Tract	Lessor	Lease	Interest Within Unit	Gross Acreage in Unit
<b>Gas Estate Only</b>				
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	Larry Boyd 156 Burhead Drive Haysi, VA 24256	Leased	0.143571429	0.084464286
	Michael Boyd 518 Fish Pond Road Haysi, VA 24256	Leased	0.143571429	0.084464286
	James Boyd P.O. Box 416 Haysi, VA 24256	Leased	0.143571429	0.084464286
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<i>Wayne Talbert Burton, Sr.</i> <i>1010 N. Martintown Road</i> <i>McCormick, SC 29835</i>	Unleased	0.095714286	0.056309524
<i>Mary Louise LaPerla</i> <i>PO Box 188</i> <i>Davidson, MD 21035</i>	Unleased	0.095714286	0.056309524
<i>Joseph John LaPerla</i> <i>3123 Patrick Henry Dr Apt 332</i> <i>Falls Church, VA 22044</i>	Unleased	0.095714286	0.056309524
<i>Leah Ann McGlothlin</i> <i>2859 Kennel Gap Road</i> <i>Oakwood, VA 24631</i>	Unleased	0.287142857	0.168928571
<i>Kevin Timothy McGlothlin</i> <i>2285 Clifton Farm Rd.</i> <i>Honaker, VA 24260</i>	Unleased	0.287142857	0.168928571
<b>Tract 3 Totals</b>		<b>8.04000000</b>	<b>4.73000000</b>
<b>TOTAL GAS ESTATE</b>		<b>100.00000000</b>	<b>58.77000000</b>

Percentage of Unit Leased	96.4266667
Percentage of Unit Unleased	3.5733333
Acreage in Unit Leased	56.6677778
Acreage in Unit Unleased	2.1022222

**Exhibit "B"**  
**VCI-530432**  
**Docket No. VGOB-17-0117-4108**

<b>Tract</b>	<b>Lessor</b>	<b>Lease Status</b>	<b>Interest Within</b>	<b>Gross Acreage</b>
<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 Tax # Minerals Only	Owner	55.73000000	32.75000000
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 Tax # Minerals Only	Owner	36.23000000	21.29000000
3	Tax # 2HH-190-028 Scott Boyd 210 County Line Road Cedar Bluff, VA 24609	Leased	0.14357143	0.08446429
	Larry Boyd 156 Burhead Drive Haysi, VA 24256	Leased	0.14357143	0.08446429
	Michael Boyd 518 Fish Pond Road Haysi, VA 24256	Leased	0.14357143	0.08446429
	James Boyd P.O. Box 416 Haysi, VA 24256	Leased	0.14357143	0.08446429
	Clyde Boyd P.O. Box 403 Clinchco, VA 24226	Leased	0.57428571	0.33785714
	Hazel Neely PO Box 155 Davenport, VA 24239	Leased	0.12761905	0.07507937
	Jeanette James 2371 Drill Road Honaker, VA 24260	Leased	0.12761905	0.07507937

Judy & Jennings Boyd 3501 Boyds Ridge Road Vansant, VA 24656	Unleased	0.12761905	0.07507937
Brenda Sue Duty 1222 Boyds Ridge Road Vansant, VA 24256	Leased	0.12761905	0.07507937
Ralph Boyd P.O. Box 122 Maxie, VA 24628	Leased	0.12761905	0.07507937
Evelyn Coleman PO Box 97 Haysi, VA 24256	Leased	0.12761905	0.07507937
Juanita Maddox 1226 Calla Circle Fayetteville, NC 28303	Unleased	0.12761905	0.07507937
Arville Deel PO Box 144 Davenport, VA 24239	Leased	0.12761905	0.07507937
Margie Wenner P.O. Box 313 Davenport, VA 24239	Leased	0.12761905	0.07507937
Helen Fields 706 Old Stage Road Surgoinville, TN 37873	Leased	0.14357143	0.08446429
Dillard Compton Heirs: <i>Joey Randall Compton</i> <i>1069 Cypress Street</i> <i>Oakwood, VA 24631</i>	Leased	0.07178571	0.04223214
<i>Kimberly L. Anderson</i> <i>290 Cook Hollow Road</i> <i>Bristol, TN 37620</i>	Leased	0.07178571	0.04223214
Jeanette Compton Heirs: <i>Elizabeth A. Mathie</i> <i>2251 Crown Circle</i> <i>Morristown, TN 37814</i>	Leased	0.07178571	0.04223214
<i>James Compton</i> <i>600 N Haun Dr</i> <i>Morristown, TN 37814</i>	Leased	0.07178571	0.04223214
Fairy R. Bowman	Leased	0.14357143	0.08446429

293 Frying Pan Road  
Birchleaf, VA 24220

Troy Compton Heirs:  
*Debra Compton*  
198 Sutherland Drive  
Cleveland, VA 24225

Leased 0.14357143 0.08446429

*Roger Compton*  
4445 Reeds Valley Road  
Castlewood, VA 24224

Leased 0.14357143 0.08446429

Lottie Collyer  
C/O Helen Fields  
706 Old Stage Road  
Surgoinsville, TN 37873

Unleased 0.14357143 0.08446429

Ruby Bowman  
C/O Helen Fields  
706 Old Stage Road  
Surgoinsville, TN 37873

Unleased 0.14357143 0.08446429

Jearl Fletcher  
161 Dawnville Rd Apt J206  
Dalton, GA 30721

Leased 0.19142857 0.11261905

Glenda Kay Fletcher  
8864 Helen Henderson Highway  
Honaker, VA 24260

Leased 0.19142857 0.11261905

Christine M. Mack  
4495 W Lynwest Dr  
Bloomington, IN 47404

Leased 0.19142857 0.11261905

Betty S. Fletcher  
1281 Old Grissom Cr Rd  
Honaker, VA 24260

Leased 0.19142857 0.11261905

Bethel A. Shook  
1950 SE Crowberry Dr  
Port St. Lucie, FL 34983

Leased 0.19142857 0.11261905

Gary T. Fletcher  
5692 Deskins Rd  
Vansant, VA 24656

Leased 0.19142857 0.11261905

Ruby Perkins  
1866 Little Prater Road  
Grundy, VA 24614

Leased 0.22971429 0.13514286

Laura Deel  
3650 Kidder Road

Leased 0.22971429 0.13514286

Almont, MI 48003

Mary J McGlothlin Heirs:  
Donald A. McGlothlin, Jr.  
P.O. Box 580  
Lebanon, VA 24266

Unleased 0.74657143 0.43921429

Wayne Talbert Burton, Sr.  
1010 N. Martintown Road  
McCormick, SC 29835

Unleased 0.24885714 0.14640476

Mary Louise LaPerla  
PO Box 188  
Davidson, MD 21035

Unleased 0.24885714 0.14640476

Joseph John LaPerla  
3123 Patrick Henry Dr Apt 332  
Falls Church, VA 22044

Unleased 0.24885714 0.14640476

Leah Ann McGlothlin  
2859 Kennel Gap Road  
Oakwood, VA 24631

Unleased 0.74657143 0.43921429

Kevin Timothy McGlothlin  
2285 Clifton Farm Rd.  
Honaker, VA 24260

Unleased 0.74657143 0.43921429

**Tract 3 Totals**

**8.04000000 4.73000000**

**TOTAL GAS ESTATE**

**100.00000000 58.77000000**

Percentage of Unit Leased  
Percentage of Unit Unleased

96.47133333  
3.52866667

Acreage in Unit Leased  
Acreage in Unit Unleased

56.69405556  
2.07594444

**Exhibit "B-3"**  
**VCI-530432**  
**Revised 2/7/2017**

Tract	Lessor	Lease Status	Interest Within Unit	Gross Acreage in Unit
<b>Gas Estate Only</b>				
3	Tax # 2HH-190-028 Juanita Maddox 1226 Calla Circle Fayetteville, NC 28303	Unleased	0.127619048	0.075079365
	Arlene Deel 28131 Dickenson Hwy Haysi, VA 24256	Unleased	2.297142857	1.351428571
	Opal Radcliffe 3460 E 75th Place Tulsa, OK 74136	Unleased	0.229714286	0.135142857
	Norman Boyd 1039 Controller Rd Vansant, VA 24656	Unleased	0.229714286	0.135142857
	Harmon Boyd 595 Dotson Ridge Ceres, VA 24318	Unleased	0.229714286	0.135142857
	Mary J McGlothlin Heirs: Donald A. McGlothlin, Jr. P.O. Box 580 Lebanon, VA 24266	Unleased	0.287142857	0.168928571
	Wayne Talbert Burton, Sr. 1010 N. Martintown Road McCormick, SC 29835	Unleased	0.095714286	0.056309524
	Mary Louise LaPerla PO Box 188 Davidson, MD 21035	Unleased	0.095714286	0.056309524
	Joseph John LaPerla 3123 Patrick Henry Dr Apt 332 Falls Church, VA 22044	Unleased	0.095714286	0.056309524
	Leah Ann McGlothlin 2859 Kennel Gap Road Oakwood, VA 24631	Unleased	0.287142857	0.168928571
	Kevin Timothy McGlothlin 2285 Clifton Farm Rd. Honaker, VA 24260	Unleased	0.287142857	0.168928571
<b>TOTAL GAS ESTATE</b>			<b>4.26247619</b>	<b>2.50765079</b>

**Exhibit "B-3"**  
**VCI-530432**  
**Revised 3/3/2017**

Tract	Lessor	Lease Status	Interest Within Unit	Gross Acreage in Unit
<b>Gas Estate Only</b>				
3	Tax # 2HH-190-028 Juanita Maddox 1226 Calla Circle Fayetteville, NC 28303	Unleased	0.127619048	0.075079365
	Arlene Deel 28131 Dickenson Hwy Haysi, VA 24256	Unleased	2.297142857	1.351428571
	Mary J McGlothlin Heirs: Donald A. McGlothlin, Jr. P.O. Box 580 Lebanon, VA 24266	Unleased	0.287142857	0.168928571
	Wayne Talbert Burton, Sr. 1010 N. Martintown Road McCormick, SC 29835	Unleased	0.095714286	0.056309524
	Mary Louise LaPerla PO Box 188 Davidson, MD 21035	Unleased	0.095714286	0.056309524
	Joseph John LaPerla 3123 Patrick Henry Dr Apt 332 Falls Church, VA 22044	Unleased	0.095714286	0.056309524
	Leah Ann McGlothlin 2859 Kennel Gap Road Oakwood, VA 24631	Unleased	0.287142857	0.168928571
	Kevin Timothy McGlothlin 2285 Clifton Farm Rd. Honaker, VA 24260	Unleased	0.287142857	0.168928571
<b>TOTAL GAS ESTATE</b>			<b>3.57333333</b>	<b>2.10222222</b>

**Exhibit "B-3"**  
**VCI-530432**  
**Docket No. VGOB-17-0117-4108**

Tract	Lessor	Lease Status	Interest Within Unit	Gross Acreage in Unit
<b>Gas Estate Only</b>				
3	Tax # 2HH-190-028 Judy & Jennings Boyd 3501 Boyds Ridge Road Vansant, VA 24656	Unleased	0.12761905	0.07507937
	Juanita Maddox 1226 Calla Circle Fayetteville, NC 28303	Unleased	0.12761905	0.07507937
	Lottie Collyer C/O Helen Fields 706 Old Stage Road Surgoinsville, TN 37873	Unleased	0.14357143	0.08446429
	Ruby Bowman C/O Helen Fields 706 Old Stage Road Surgoinsville, TN 37873	Unleased	0.14357143	0.08446429
	Mary J McGlothlin Heirs: Donald A. McGlothlin, Jr. P.O. Box 580 Lebanon, VA 24266	Unleased	0.74657143	0.43921429
	Wayne Talbert Burton, Sr. 1010 N. Martintown Road McCormick, SC 29835	Unleased	0.24885714	0.14640476
	Mary Louise LaPerla PO Box 188 Davidson, MD 21035	Unleased	0.24885714	0.14640476
	Joseph John LaPerla 3123 Patrick Henry Dr Apt 332 Falls Church, VA 22044	Unleased	0.24885714	0.14640476
	Leah Ann McGlothlin 2859 Kennel Gap Road Oakwood, VA 24631	Unleased	0.74657143	0.43921429
	Kevin Timothy McGlothlin 2285 Clifton Farm Rd. Honaker, VA 24260	Unleased	0.74657143	0.43921429
<b>TOTAL GAS ESTATE</b>			<b>3.52866667</b>	<b>2.07594444</b>

Company: EnerVest Operating, LLC.

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

AFE # 2016DD0215

Well Name: VCI-S30432

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: 11/1/2016

Estimated Total Depth: 2,600 FT IAAPG Class: DEVELOPMENT

Participant(s): EnerVest Operating, LLC. W.L. 100% Amount: \$366,150

Description	Casing Point	Completion	Total Cost
Leasehold Coals	\$0	\$0	\$0
Permit / Title Opinion / Survey / Insurance	\$12,000	\$0	\$12,000
Building Location Materials	\$30,000	\$0	\$30,000
Roads / Stone / Culverts	\$11,000	\$0	\$11,000
Surface Damages	\$0	\$0	\$0
Drilling - Footage	\$41,600	\$0	\$41,600
Drilling - Mobilization	\$0	\$0	\$0
Drilling - Dayrate	\$1,500	\$0	\$1,500
Mud & Chemicals (Drilling)	\$0	\$0	\$0
Fuel	\$0	\$0	\$0
Cement Services	\$6,800	\$0	\$6,800
Open Hole Logging & Testing	\$4,000	\$6,000	\$10,000
Trucking / Dozer (Drilling)	\$2,000	\$0	\$2,000
Rental Tools & Equipment (Drilling)	\$500	\$0	\$500
Drilling - Bits	\$100	\$0	\$100
Technical Supervision (Drilling)	\$0	\$0	\$0
Fresh Water Hauling (Drilling)	\$2,000	\$0	\$2,000
Overhead Rate	\$5,000	\$1,000	\$7,000
Misc. & Contingencies (Insurance)	\$3,000	\$0	\$3,000
Location Road/Stone/Culverts	\$0	\$1,000	\$1,000
Trucking / Dozer (Completion)	\$0	\$5,000	\$5,000
Technical Supervision (Completion)	\$0	\$0	\$0
Cased Hole Logging / Perforating	\$0	\$10,000	\$10,000
Stimulation / Fracturing	\$0	\$95,000	\$95,000
Completion Rig	\$0	\$11,000	\$11,000
Reclamation & Damages	\$12,000	\$5,000	\$17,000
Haul Pit Water / Disposal	\$0	\$2,000	\$2,000
Cement Production Casing	\$0	\$11,000	\$11,000
Rental Tools & Equipment (Completion)	\$0	\$4,500	\$4,500
Fresh Water Hauling (Completion)	\$0	\$2,500	\$2,500
Roustabout Labor	\$1,500	\$2,000	\$3,500
Environmental & Safety	\$0	\$500	\$500
<b>TOTAL INTANGIBLES</b>	<b>\$134,500</b>	<b>\$127,500</b>	<b>\$262,000</b>

Description	Casing Point	Completion	Total Cost	
* Conductor	FT	\$700	\$0	\$700
* 24 1/2" LS Surface Cas	FT	\$4,700	\$0	\$4,700
* 18 1/2" LS Intermediate Cas	FT	\$0	\$0	\$0
* 17" 9.5 1/2" MS Production Cas	FT	\$0	\$11,000	\$11,000
4 1/2" 10.5 1/2" MS Production Cas	FT	\$0	\$0	\$0
2 1/2" 4.7 1/2" J55 800 Production Tubing	FT	\$0	\$5,100	\$5,100
Wellhead Equipment / Fittings	\$2,400	\$10,000	\$12,000	
Tank Battery	\$0	\$7,500	\$7,500	
Separator / Heater / Triester	\$0	\$5,000	\$5,000	
Gas Lift Equipment	\$0	\$0	\$0	
Road / Grading Box	\$0	\$5,000	\$5,000	
Donkhouse Pump	\$0	\$1,500	\$1,500	
Pumping Unit / Motor	\$0	\$10,000	\$10,000	
Electric Service & Equipment	\$0	\$24,000	\$24,000	
Valves & Fittings	\$0	\$0	\$0	
Flow Line Labor/material	\$0	\$5,000	\$5,000	
Sales Line Labor/material	\$0	\$13,350	\$13,350	
<b>TOTAL TANGIBLES</b>	<b>\$7,800</b>	<b>\$96,350</b>	<b>\$104,150</b>	

<b>GRAND TOTAL WELL COST</b>	<b>\$142,300</b>	<b>\$223,850</b>	<b>\$366,150</b>
Plugging & Abandonment		\$30,000	
<b>Production Costs:</b>	<b>\$366,150</b>	<b>Dry Hole Costs:</b>	<b>\$172,300</b>

Operations Tom Randolph Date 12/18/16

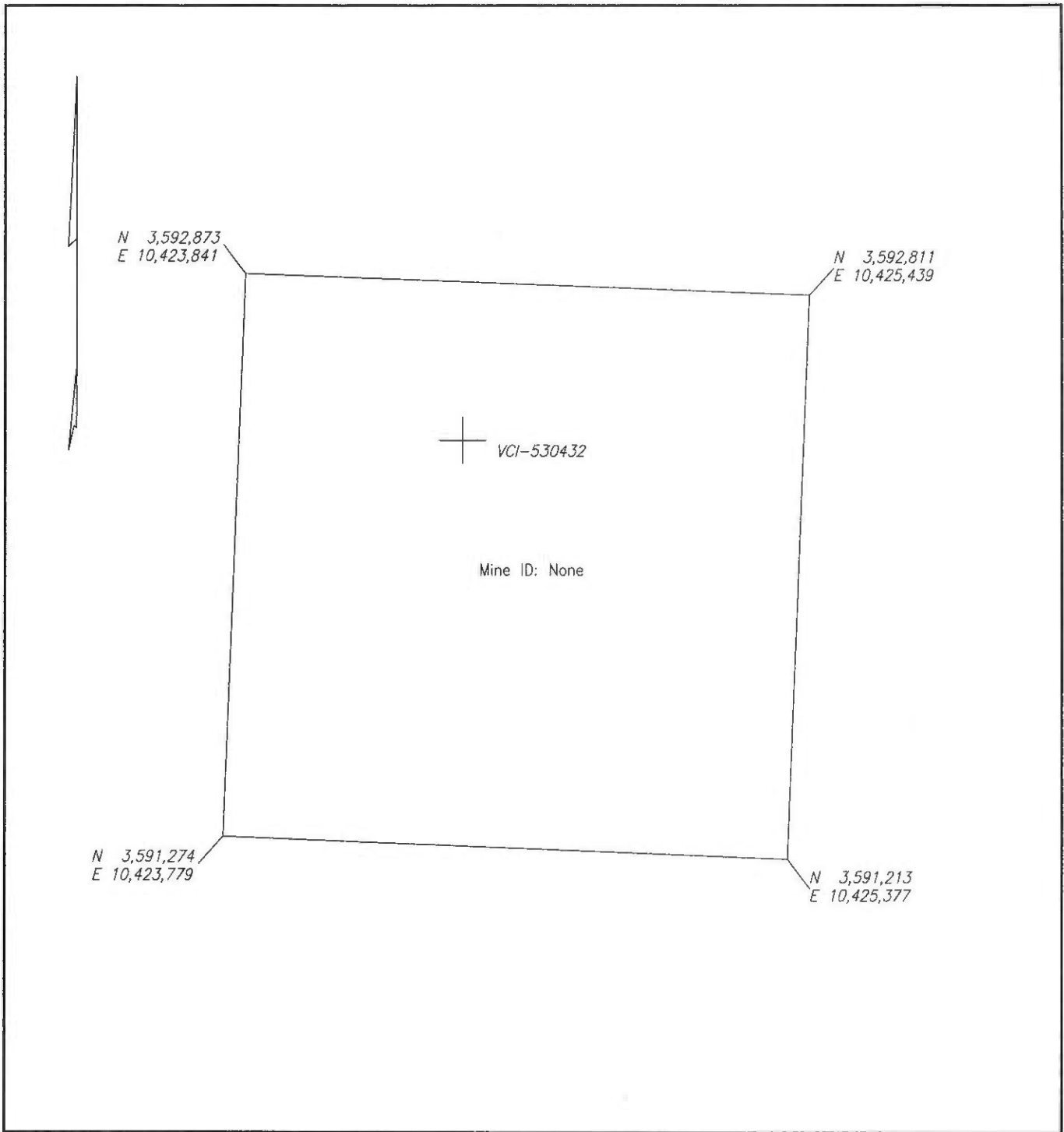
Engineering Tom Rank Date 12/14/16

Geology Steve De... Date 12/21/16

Land Charles... Date 12/18/16

THIS IS AN ESTIMATE OF PROPOSED WELL OPERATIONS, COMPLETION, EQUIPMENT AND MATERIALS. THESE ESTIMATES ARE PROVISIONAL ONLY AND ARE SUBJECT TO CHANGE. MATERIALS AND EQUIPMENT COSTS MAY VARY FROM ACTUAL COSTS DUE TO VARIATIONS IN LOCAL MARKET CONDITIONS AND OTHER FACTORS. WELL LOGS, SURVEYS, TESTS, SEISMIC MATERIALS, CORRECTIONS AND IMPROVEMENTS ARE NOT INCLUDED.

Exhibit C



WELL & MINE LOCATION MAP NORA GRID AT-83

COMPANY EnerVest Operating, LLC WELL NAME AND NUMBER VCI-530432  
 QUADRANGLE Prater PERMIT NO. \_\_\_\_\_ SCALE 1" = 400' DATE 7-13-2016

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