

BEFORE THE VIRGINIA GAS AND OIL BOARD

Applicant:	EnerVest Operating, L.L.C.)	
)	
)	
Relief Sought:	Pooling VC-535443 Nora Grid BA-54)	
	Nora Coalbed Gas Field)	
Legal)	
Description:)	
	E.S. Counts Tract T-261)	Docket Number:
	1,500.00 acres, more or less)	VGOB-18-1016-4188
	Ervinton District)	
	Nora Quadrangle)	
	Dickenson 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 VC-535443 Nora Grid BA-54 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 VC-535443 Nora Grid BA-54 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 VC-535443 Nora Grid BA-54 should be pooled for the development and operation thereof.
- (d) Applicant proposes to drill at the permitted location to an approximate depth of 2,650 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 Ailly, 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 \$411,800.00 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 900 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 VC-535443 Nora Grid BA-54, 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 14th day of September, 2018.

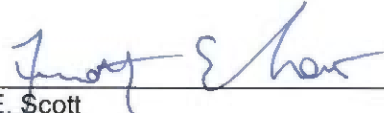
ENERVEST OPERATING, L.L.C



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: VC-535443 Nora Grid 54-BA) VGOB-18-1016-4188
Nora Coalbed Gas Field)
)
)
Legal Description: E.S. Counts Tract T-261)
)
)
1,500.00 acres, more or less)
)
)
Ervinton District)
)
)
Nora Quadrangle)
)
)
Dickenson County, Virginia)

NOTICE OF HEARING

HEARING DATE: October 16, 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 VC-535443 Nora Grid 54-BA described on Exhibit "A" to the Application, which is attached to this Notice, in Dickenson 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 VC-535443 Nora Grid 54-BA containing approximately 58.76 acres, located on the above-referenced tracts situated approximately 2,090 feet southeast of the intersection of Virginia State Route 670 and Tarzan Lane and approximately 4,900 feet northwest of Aily in the Ervinton District, Nora Quadrangle of Dickenson 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

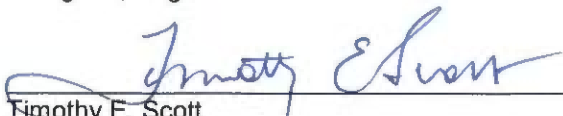
h. Granting such other relief as is merited by the evidence and is just and equitable, whether or not such relief has been specifically requested herein.

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 October 16, 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 14th of September, 2018.

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

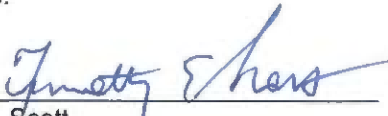
A handwritten signature in blue ink that reads "Timothy E. Scott". The signature is written over a horizontal line.

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 14th day of September, 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 14th day of September, 2018.



Timothy E. Scott

11,035'

Well Coordinates: (VA St. Plane S. Zone, NAD 83 (1993))
 N 3,581,985.10 E 10,378,576.79

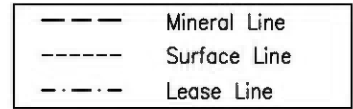
Well Coordinates: (VA St. Plane S. Zone, NAD 27 Calculated from NAD 83 (1993))
 N 301,109.47 E 895,591.68

Well Coordinates: (Geographic N83)
 37.099620° -82.287695°

Well Coordinates: (UTM N27, Zone 17)
 N 13,472,690.16 E 1,264,951.62

Latitude 37° 07' 30"

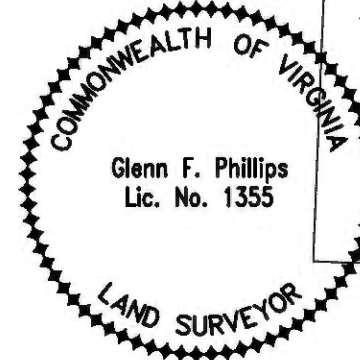
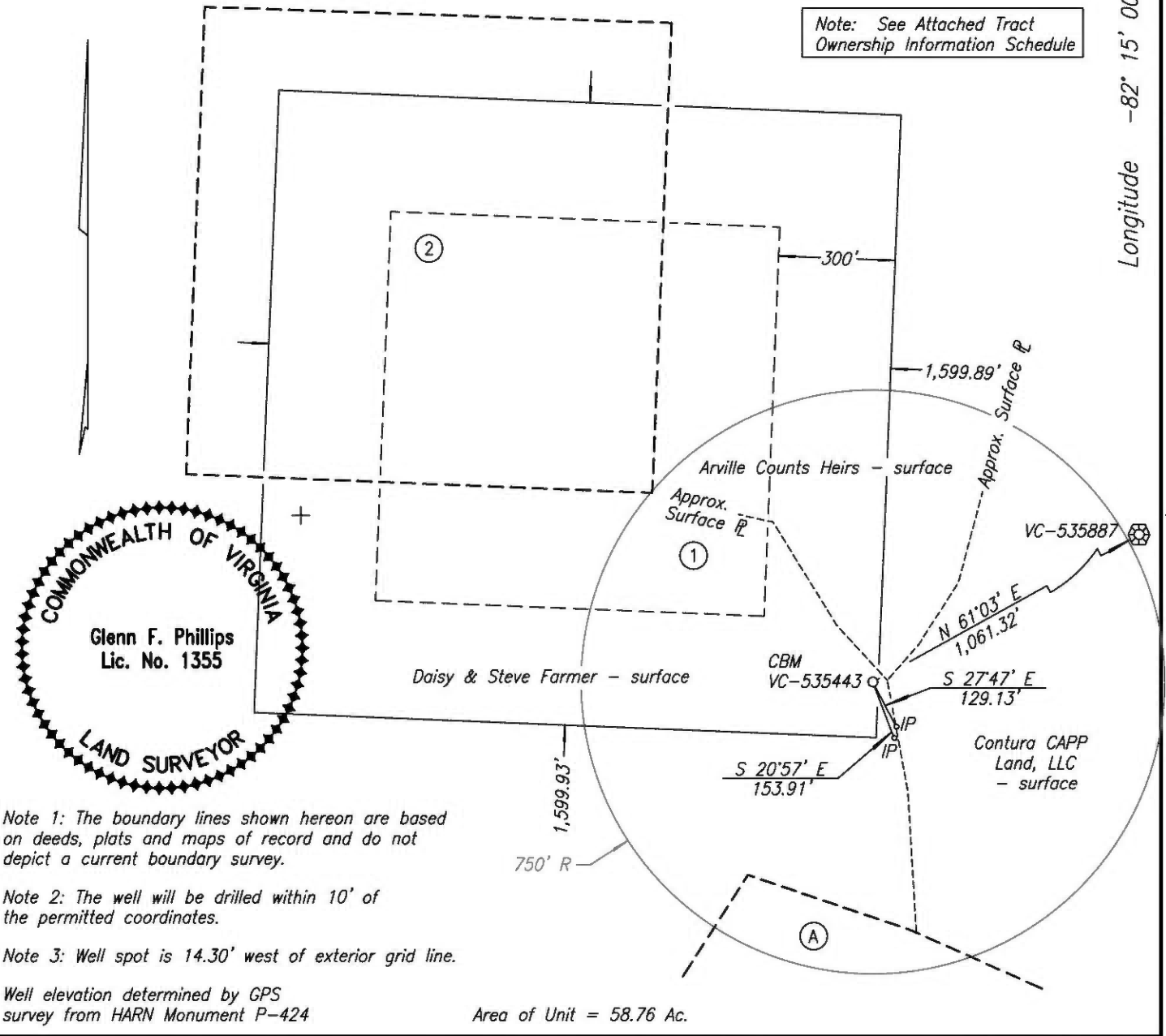
Well Coordinates: (Cinchfield Coal Co.)
 S 158.10 E 27,885.70



Note: See Attached Tract Ownership Information Schedule

Longitude -82° 15' 00"

9,285'



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 14.30' west of exterior grid line.

Well elevation determined by GPS survey from HARN Monument P-424
 Area of Unit = 58.76 Ac.

WELL LOCATION PLAT NORA GRID BA-54

COMPANY EnerVest Operating, LLC WELL NAME AND NUMBER VC-535443
 TRACT NO. T-261 ELEVATION 2,173.33' QUADRANGLE Nora
 COUNTY Dickenson DISTRICT Ervinton SCALE 1" = 400' DATE 7-26-2018

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~~
 Exhibit A

Glenn F Phillips
 Digitally signed by Glenn F Phillips
 DN: c=US, o=IdeaTrust ACES
 Business Representative,
 ou=GLENN F. PHILLIPS COMPANY
 P.C., cn=Glenn F Phillips,
 0.9.2342.19200300.100.1.1=A01098
 00000013866E837500006DD
 Date: 2018.08.08 11:27:22 -0400

VC-535443 PLAT
TRACT OWNERSHIP INFORMATION SCHEDULE
7/26/2018

- 1 . T-261
E. S. Counts
1,500 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 & CBM
Gas 35.91 Ac. 61.11%

- 2 . TC-242
Martha Musick - oil, gas & CBM
33 Acres
ACIN LLC - coal
Paramont Contura, LLC - coal lessee
WBRD LLC - coal
Dickenson-Russell Contura, LLC - coal lessee
Gas 22.85 Ac. 38.89%

- A . T-266
Campbell-Carter
674.29 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 & CBM

Exhibit "B"
VC-535443
Docket # 18-1016-4188

Tract	Lessor	Lease Status	Interest Within Unit	Gross Acreage in Unit
Coal Estate Only				
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	61.11000000	35.91000000
2	<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	38.89000000	22.85000000
TOTAL COAL ESTATE			100.00000000	58.76000000
Percentage of Unit Leased		100.00000000		
Percentage of Unit Unleased		0.00000000		
Acreage in Unit Leased		58.76000000		
Acreage in Unit Unleased		0.00000000		

Exhibit "B"
VC-535443
Docket # 18-1016-4188

Tract	Lessor	Lease Status	Interest Within Unit	Gross Acreage in Unit
Gas Estate Only				
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	61.11000000	35.91000000
2	<i>Tax ID - Minerals Only</i> Martha Musick 500 Arrowhead Circle Cedar Bluff, VA 24609-8281	Unleased	38.89000000	22.85000000
TOTAL GAS ESTATE			100.00000000	58.76000000
Percentage of Unit Leased		61.11000000		
Percentage of Unit Unleased		38.89000000		
Acreage in Unit Leased		35.91000000		
Acreage in Unit Unleased		22.85000000		

Exhibit "B-3"
VC-535443
Docket # 18-1016-4188

Tract	Lessor	Lease Status	Interest Within Unit	Gross Acreage in Unit
Gas Estate Only				
1	<i>Tax ID - Minerals Only</i> Martha Musick 500 Arrowhead Circle Cedar Bluff, VA 24609-8281	Unleased	38.89000000	22.85000000
TOTAL GAS ESTATE			38.89000000	22.85000000

Company: EnerVest Operating, LLC.

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

AFE # _____

Well Name: VC-535443

Location: Dickenson 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: 9/14/2018

Estimated Total Depth: 2,650 FT AAPG Class: DEVELOPMENT

Participant(s): EnerVest Operating, LLC. Amount: \$411,800

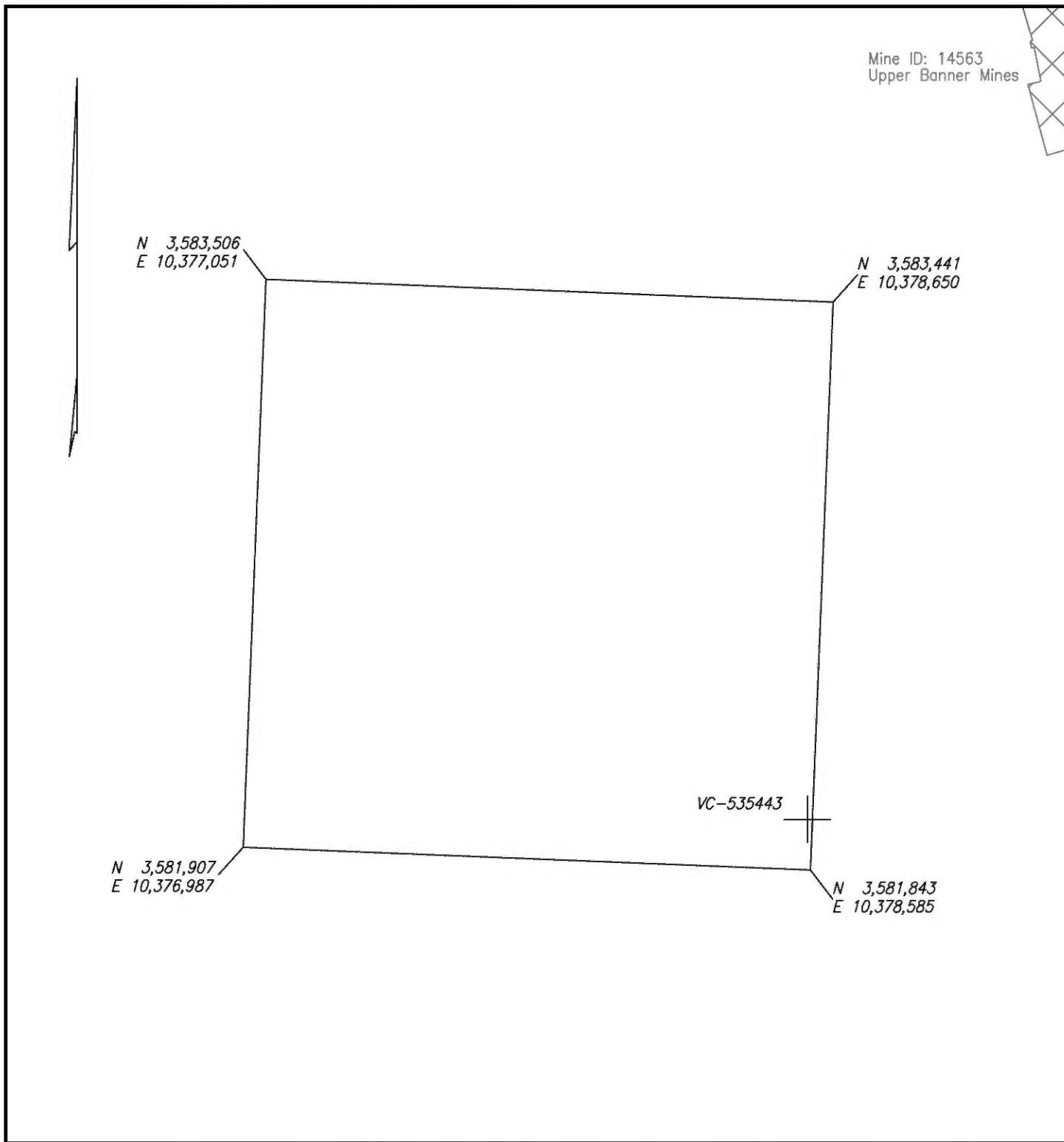
Description	Casing Point	Completion	Total Cost
Roads / Stone / Culverts	\$11,000	\$0	\$11,000
Location Rds/Stone/Culverts	\$0	\$500	\$500
Building Location/Materials	\$35,000	\$2,500	\$37,500
Reclamation & Damages	\$10,000	\$0	\$10,000
Surface Damages	\$0	\$0	\$0
Permit / Title Opinion / Survey / Insurance	\$13,000	\$0	\$13,000
Drilling - Dayrate	\$0	\$0	\$0
Drilling - Footage	\$46,300	\$0	\$46,300
Completion Rig	\$0	\$7,000	\$7,000
Drilling - Bits	\$0	\$1,500	\$1,500
Mud & Chemicals (Drilling)	\$0	\$700	\$700
Fresh Water Hauling (Completion)	\$0	\$3,900	\$3,900
Cement Production Casing	\$0	\$11,500	\$11,500
Trucking / Dozer (Completion)	\$0	\$4,800	\$4,800
Cement Services	\$6,000	\$0	\$6,000
Trucking / Dozer (Drilling)	\$1,900	\$0	\$1,900
Rental Tools & Equipment (Completion)	\$0	\$4,000	\$4,000
Fresh Water Hauling (Drilling)	\$1,700	\$0	\$1,700
Cased Hole Logging / Perforating	\$0	\$17,000	\$17,000
Rental Tools & Equipment (Drilling)	\$0	\$0	\$0
Open Hole Logging & Testing	\$2,900	\$4,700	\$7,600
Stimulation / Fracturing	\$0	\$90,000	\$90,000
Roustabout Labor	\$1,700	\$2,900	\$4,600
Overhead Rate	\$6,000	\$1,000	\$7,000
Misc. & Contingencies (Insurance)	\$300	\$0	\$300
Haul Pit Water / Disposal	\$0	\$1,900	\$1,900
Drilling - Mobilization	\$0	\$0	\$0
Fuel	\$0	\$0	\$0
Technical Supervision (Drilling)	\$0	\$0	\$0
Technical Supervision (Completion)	\$0	\$0	\$0
Environmental & Safety	\$600	\$500	\$1,100
TOTAL INTANGIBLES	\$136,400	\$154,400	\$290,800

Description	Casing Point	Completion	Total Cost
" Conductor Ft	\$1,100	\$0	\$1,100
" 26 lb/ft LS Surface Csg Ft	\$0	\$0	\$0
" 19 lb/ft LS Intermediate Csg Ft	\$3,800	\$0	\$3,800
4 1/2" 9.5 lb/ft M-65 Production Csg Ft	\$0	\$15,200	\$15,200
Wellhead Equipment / Fittings	\$1,400	\$8,800	\$10,200
2-3/8 " 4.7 lb/ft J55 8rd Production Tubing Ft	\$0	\$9,400	\$9,400
Rods / Stuffing Box	\$0	\$4,000	\$4,000
Downhole Pump	\$0	\$1,600	\$1,600
Electric Service & Equipment	\$0	\$21,000	\$21,000
Tank Battery	\$0	\$7,000	\$7,000
Flow Line labor/material	\$0	\$18,200	\$18,200
Valves & Fittings	\$0	\$0	\$0
Separator / Heater / Treater	\$0	\$5,500	\$5,500
4 1/2" 10.5 lb/ft M-65 Production Csg Ft	\$0	\$0	\$0
Gas Lift Equipment	\$0	\$0	\$0
Pumping Unit / Motor	\$0	\$10,000	\$10,000
Sales line labor/mat/row	\$0	\$14,000	\$14,000
TOTAL TANGIBLES	\$6,300	\$114,700	\$121,000

GRAND TOTAL WELL COST	\$142,700	\$269,100	\$411,800
Plugging & Abandonment	\$30,000		
Production Costs :	\$411,800	Dry Hole Costs :	\$172,700

Operations	<i>C.M. Randolph</i>	Date	<u>9/14/18</u>
Engineering	<i>Tom Gash</i>	Date	<u>9/14/2018</u>
Geology	<i>Jim Fourn</i>	Date	<u>9/14/2018</u>
Land	<i>A. J. C.</i>	Date	<u>9/14/2018</u>

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.

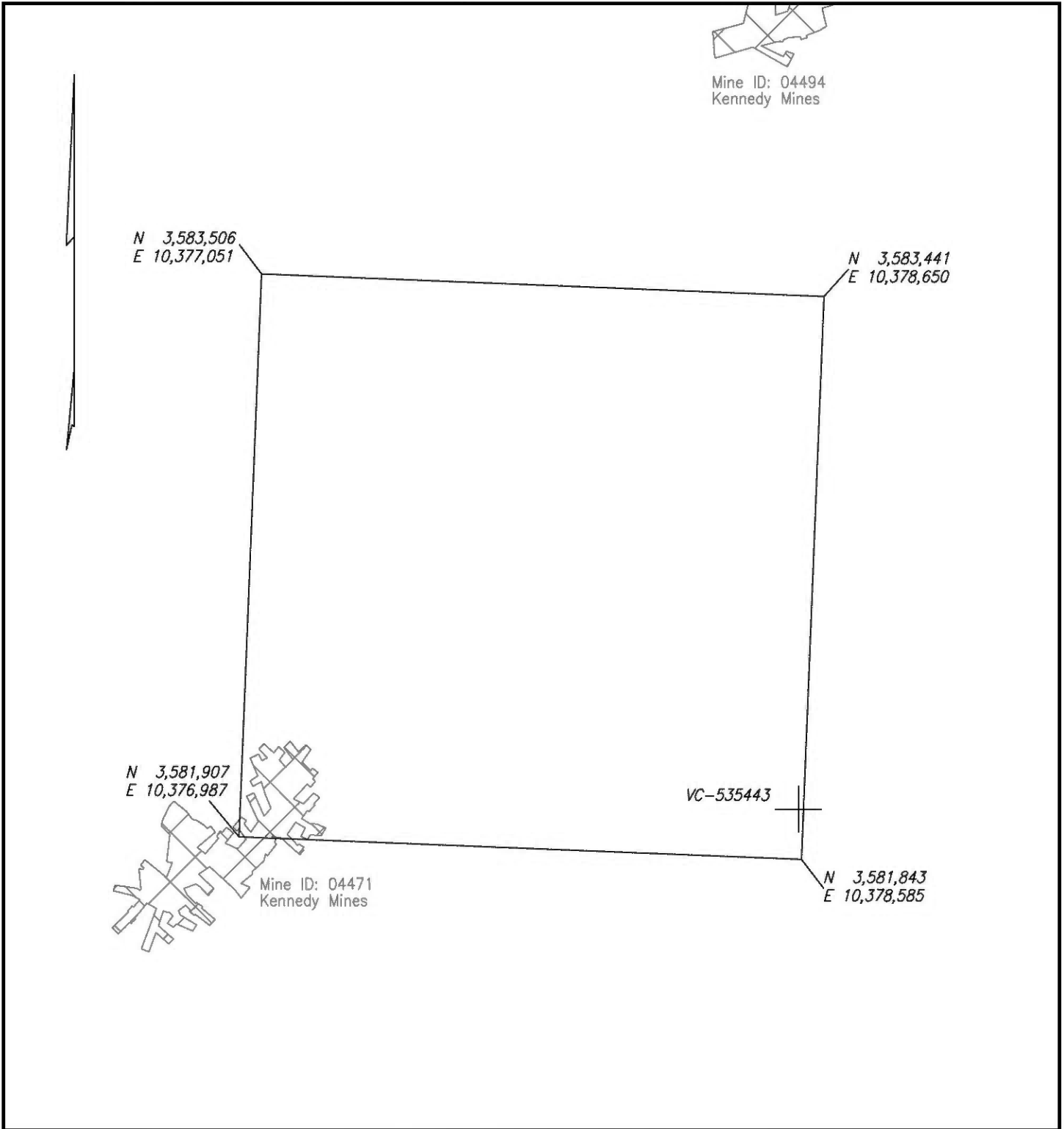


WELL & MINE LOCATION MAP NORA GRID BA-54

COMPANY EnerVest Operating, LLC WELL NAME AND NUMBER VC-535443
QUADRANGLE Nora PERMIT NO. _____ SCALE 1" = 400' DATE 7-26-2018

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 BA-54

COMPANY EnerVest Operating, LLC WELL NAME AND NUMBER VC-535443
QUADRANGLE Nora PERMIT NO. _____ SCALE 1" = 400' DATE 7-26-2018

NOTE: The mine locations are approximate locations taken from downloaded DMME data.
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