

BEFORE THE VIRGINIA GAS AND OIL BOARD

APPLICANT: Keyrock Energy, LLC

DIVISION OF GAS AND OIL  
DOCKET NO: VGOB 22-0920-  
4248

RELIEF SOUGHT: Creation of sealed gob drilling unit and Pooling

LOCATION: See "Exhibit A"

HEARING DATE: 10-18-22

UNIT NUMBER: 4

IN DICKENSON COUNTY, VIRGINIA

APPLICATION

- 1) **Parties:** Applicant is Keyrock Energy, LLC, 207 East Main Street, Suite 2-D, PO Box 2223, Johnson City, TN 37605. Respondents are listed on "Exhibit B", attached hereto and made a part hereof. Set forth in "Exhibit B" are the names and last-known addresses of each owner of record identified by the Applicant as having or claiming an interest in the coalbed methane gas underlying the drilling unit sought to be created and pooled herein. Each of the individuals named in "Exhibit B" if living, is made a party hereto. If any such individual is deceased, then the known and unknown heirs, executors, administrators, devisees, trustees and assigns, both immediate and remote, of any such deceased individual are made parties hereto. Each of the legal entities named in "Exhibit B", if such entity continues to have legal existence, is made a party hereto. If any such legal entity is dissolved, then the known and unknown successors, trustees, and assigns, both immediate and remote, of such entity are made parties hereto.
- 2) **Facts:**
- a) Applicant owns or claims to own oil and gas leases, coalbed methane gas leases, and/or coal leases and claims the right thereunder to explore for, develop and produce coalbed methane gas from the Mined Out Jawbone Coal Seam (hereinafter "Subject Formation") in the Contura Deep Mine 41 in Dickenson County, Virginia (hereinafter "Subject Lands"), which Subject Lands are more particularly described in "Exhibit A" attached hereto and made a part hereof. The purpose of this endeavor is to combust the coalbed methane gas to generate carbon credits for marketing purposes. To further this purpose, Applicant has entered into a lease, which is attached to the applicant as "Exhibit N", with Enervest XIV-A Nora LLC, Enervest Energy Institutional Fund XIV-AI, LP, and Enervest IV-WIC Nora LLC, to develop and produce coalbed methane in the area shown on "Exhibit A". "Exhibit A" is a map certified by licensed professional engineer showing the size and shape of the drilling unit to be created and pooled, as well as Applicant's interest in the subject drilling unit. Applicant attests to the fact that it believes said map conforms to existing orders issued by the Board. The undersigned certifies that the matters set forth in this application, to the best of his knowledge, information and belief, are true and correct.
  - b) On "Exhibit A", "Exhibit B", and the Tract Identification Page, Applicant has shown 1) the percentage of ownership in the drilling unit of each acreage (tract) being pooled, 2) the status of ownership of each acreage (tract) being pooled (including a description of the interest of each owner or claimant as disclosed by the examination of record title), i.e. whether leased to Applicant, leased to another person or unleased, and 3) the approximate percentage of interest in the drilling unit to be escrowed, if any, under Va. Code 45.2-1620(D) for each unidentifiable owner or claimant of a conflicting interest, if any.
  - c) The Virginia Gas and Oil Board (hereinafter "Board") heretofore has established drilling units in the Nora Gas Field underlying and comprised of the Subject Lands pursuant to its Orders and those of the Virginia Oil and Gas Conservation Board. However, said Field Rules and orders specifically provide that they do not apply to production of coalbed methane gas from sealed gob areas which production is contemplated by this application. Annexed hereto as "Exhibit L" which is an Underground Mine Map.
  - d) It is estimated by applicant that the total amount of recoverable gas is 1,364 mmcf.

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- e) Applicant has proposed 1 well bore as shown on "Exhibit A" for production of coalbed methane from the sealed gob and "Subject Formation." The estimated costs for development contemplated by this Application are as set forth in "Exhibit C" attached hereto and made part hereof which are Applicant's Estimate of Allowable Costs.
  - f) Applicant has exercised diligence to locate each person owning or claiming an interest in coalbed methane gas in the subject drilling unit underlying the Subject Lands. It is necessary to prevent waste, to protect correlative rights and to ensure the safe and efficient development and production of gas and oil resources in the Commonwealth that the Board hear this matter and adjudicate the rights and equities as between Applicant and the herein named persons.
  - g) Simultaneously with filing of this application pursuant to Va. Code § 45.2-1618(A). Applicant is providing notice by certified mail, return receipt requested to each person named as a Respondent in the Notice of Hearing having or claiming an interest in the coalbed methane gas, underlying the Subject Lands pooled herein. Applicant hereby notifies Board that where the identity or location of any person is shown as "unknown" on "Exhibit B", then Applicant is unable to provide said person with written notice of the application herein by mail.
  - g) Applicant does not request the Board establish an escrow account pursuant to Va. Code Ann. § 45.2-1622(A), Board Rules, and prior Orders of the Board, into which the payment of costs or proceeds attributable to conflicting interests (to the extent they are subject to escrow) shall be deposited and held for the interests of the claimants.
- 3) **Legal Authority:** Va. Code § 45.2-1600, *et seq.* 4 *VAC* 25-160-10, *et seq.* and such other regulations promulgated pursuant to law.
- 4) **Relief Sought:** Applicant requests the Board issue an order providing as follows:
- a) Creating a sealed gob drilling unit consisting of **526.96** +/- acres for the drilling, development and production of coalbed methane gas from the sealed gob sometimes referred to herein as the "Subject Formation", which drilling unit is further described and depicted in "Exhibit A" annexed hereto and which drilling unit is described as follows: BEGINNING at a point having Virginia State Plane NAD 83 coordinates of N: 3,582, 409.19 and E: 10,357, 989.47 feet; thence S 31°28'54" E 238.40 feet to a point; thence S 40°56'28" E 7463.87 feet to a point; thence S 48°15'45" W 1309.03 feet to a point; thence S 48°54'36" W 1907.26 feet to a point; thence N 37°36'57" W 281.60 feet to a point; thence N 48°39'10" E 155.95 feet to a point; thence N 40°23'17" W 127.10 feet to a point; thence N 48°34'45" E 272.35 feet to a point; thence N 39°41'19" W 543.21 feet to a point; thence N 49°39'52" E 344.84 feet to a point; thence N 40°56'21" W 1212.45 feet to a point; thence S 48°57'19" W 629.82 feet to a point; thence N 41°54'04" W 539.59 feet to a point; thence S 50°49'38" W 90.07 feet to a point; thence N 40°12'14" W 62.05 feet to a point; thence S 49°26'12" W 243.61 feet to a point; thence N 44°47'22" W 261.05 feet to a point; thence N 40°12'46" W 213.07 feet to a point; thence S 49°07'35" W 83.44 feet to a point; thence N 47°21'40" W 149.11 feet to a point; thence N 39°52'46" W 261.73 feet to a point; thence N 48°22'38" E 91.99 feet to a point; thence N 41°37'00" W 340.73 feet to a point; thence N 35°58'19" W 127.50 feet to a point; thence N 44°51'55" E 83.21 feet to a point; thence N 38°26'44" W 65.04 feet to a point; thence N 49°39'45" E 86.46 feet to a point; thence N 41°38'45" W 130.29 feet to a point; thence N 40°20'23" W 128.52 feet to a point; thence S 49°36'03" W 87.54 feet to a point; thence N 40°22'16" W 212.91 feet to a point; thence N 48°19'33" E 84.99 feet to a point; thence N 39°51'35" W 128.39 feet to a point; thence N 48°57'37" E 270.17 feet to a point; thence N 41°00'25" W 1061.51 feet to a point; thence S 48°23'02" W 92.99 feet to a point; thence N 40°26'41" W 198.50 feet to a point; thence S 48°27'33" W 105.94 feet to a point; thence N 33°10'45" W 135.68 feet to a point; thence N 44°41'55" W 75.54 feet to a point; thence N 45°44'53" E 88.13 feet to a point; thence N 40°06'55" W 130.25 feet to a point; thence S 49°37'11" W 369.70 feet to a point; thence N 35°31'40" W 59.12 feet to a point; thence N 34°43'43" W 68.49 feet to a point; thence S 49°00'00" W 87.99 feet to a point; thence N 45°02'22" W 129.19 feet to a point; thence N 39°09'14" W 277.95 feet to a point; thence S 50°22'20" W 72.40 feet to a point; thence N 44°32'59" W 66.45 feet to a point; thence S 49°00'00" W 5.00 feet to a point; thence N 35°48'28" W 82.06 feet to a point; thence N 43°52'38" W 111.18 feet to a point; thence N 28°28'16" W 18.44 feet to a point; thence N 49°00'00" E 72.36 feet to a point; thence N 40°45'31" W 411.89 feet to a point; thence N 49°13'25" E 96.88 feet to a point; thence S 45°26'31" E 116.19 feet to a point; thence S 42°40'18" E 102.03 feet to a point; thence N 49°00'00" E 89.92 feet to a point; thence N 41°00'00" W 30.00 feet to a point; thence N 48°41'04" E 181.55 feet to a point; thence S 41°49'28" E 30.00 feet to a point; thence N 49°21'44" E 158.17 feet to a point; thence N 41°00'00" W 30.00

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- b) Voluntary pooling interest of Respondents named in Exhibit B.
- c) Establishing the percentages for division of interest for production, revenue and costs for all Respondents in accordance with those percentages as are set forth at "Exhibit B".
- d) Designating Keyrock Energy, LLC, as Unit Operator; providing that the operator shall have the right to drill, develop, produce, market and sell coalbed methane gas from the subject drilling unit and shall further have the right to generate and market carbon credits; granting the operator the right to market and sell the coalbed methane gas from the subject drilling unit which is attributable to the conflicting claims and interests pooled herein; providing that the operator shall have an operator's lien on the coalbed methane gas estate and rights owned or claimed by the persons named herein in the subject drilling unit; and granting the operator the right to drill at any legal or specially permitted location on subject drilling unit; and granting the operator the right to drill wells at any legal or specially permitted location on the subject drilling unit.
- e) Providing that the order to be entered herein shall expire two (2) years from the date of its issuance if operations 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. However, in the event an appeal is taken from the order issued, the time between the mailing of the notice of appeal and the final order of the Circuit Court shall be excluded in calculating the two year period referred to herein.
- f) With respect to separately owned tracts and separately owned interests in the drilling unit, joining all the interests within the drilling unit for the production of coalbed methane gas so that each owner in the drilling unit will share in all production and costs regarding the drilling unit in the proportion that the acreage owned by each owner bears to the entire acreage in the unit.
- 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: August 25, 2022

**Keyrock Energy, LLC**  
Applicant

By:   
Morgan Pate, Geologist  
Keyrock Energy, LLC  
207 East Main St., Suite 2-D  
PO Box 2223  
Johnson City, TN 37605

BEFORE THE VIRGINIA GAS AND OIL BOARD

APPLICANT: Keyrock Energy, LLC

DIVISION OF GAS AND OIL  
DOCKET NO: VGOB 22-0920-4248

RELIEF SOUGHT: Creation of sealed gob drilling unit and Pooling

LOCATION: See "Exhibit A"

HEARING DATE: 10-18-22

UNIT NUMBER: 4

IN DICKENSON COUNTY, VIRGINIA

HEARING DATE: October 18, 2022

PLACE: Virginia Dept. of Energy  
3405 Mountain Empire Rd.  
Big Stone Gap, VA 24219

TIME: 10:00 a.m.

NOTICE OF HEARING

**COMMONWEALTH OF VIRGINIA:** To all persons owning or claiming an interest in oil and gas, coalbed methane gas, coal or other minerals and to all other persons who have or claim to have an interest in the coalbed methane underlying and within the Keyrock Energy, LLC Unit #4 and the lands described on "Exhibit A" to the Application, which is attached to this Notice, in the Ervinton District of Dickenson County, Virginia (hereinafter "Subject Lands") and adjacent lands, and in particular to the following persons, their known and unknown heirs, executors, administrators, devisees, assigns and successors, both immediate and remote:

**NOTICE IS HEREBY GIVEN** that Applicant is requesting that the Virginia Gas and Oil Board (hereinafter "Board") issue an order creating a sealed gob unit and pooling all the rights, interests, and estates of the above named persons pursuant to Virginia Code Ann. § 45.2-1600, et seq., in regard to the drilling, development and production of coalbed methane gas from said drilling Unit #4 containing approximately 526.96 acres, for the mined-out Jawbone Coal Seam (hereinafter "Subject Formation"). Applicant requests that the Board issue an order providing as follows:

- a) Creating a sealed gob drilling unit consisting of 526.96 +/- acres for the drilling, development and production of coalbed methane gas from the sealed gob sometimes referred to herein as the "Subject Formation", which drilling unit is further described and depicted in Exhibit "A" annexed hereto and which drilling unit is described as follows: Beginning at a point having Virginia State Plane NAD 83 coordinates of N:3,582,409.19 and E:10,357,989.47 feet; thence S 31°28'54" E 238.40 feet to a point; thence S 40°56'28" E 7463.87 feet to a point; thence S 48°15'45" W 1309.03 feet to a point; thence S 48°54'36" W 1907.26 feet to a point; thence N 37°36'57" W 281.60 feet to a point; thence N 48°39'10" E 155.95 feet to a point; thence N 40°23'17" W 127.10 feet to a point; thence N 48°34'45" E 272.35 feet to a point; thence N 39°41'19" W 543.21 feet to a point; thence N 49°39'52" E 344.84 feet to a point; thence N 40°56'21" W 1212.45 feet to a point; thence S 48°57'19" W 629.82 feet to a point; thence N 41°54'04" W 539.59 feet to a point; thence S 50°49'38" W 90.07 feet to a point; thence N 40°12'14" W 62.05 feet to a point; thence S 49°26'12" W 243.61 feet to a point; thence N 44°47'22" W 261.05 feet to a point; thence N 40°12'46" W 213.07 feet to a point; thence S 49°07'35" W 83.44 feet to a point; thence N 47°21'40" W 149.11 feet to a point; thence N 39°52'46" W 261.73 feet to a point; thence N 48°22'38" E 91.99 feet to a point; thence N 41°37'00" W 340.73 feet to a point; thence N 35°58'19" W 127.50 feet to a point; thence N 44°51'55" E 83.21 feet to a point; thence N 38°26'44" W 65.04 feet to a point; thence N 49°39'45" E 86.46 feet to a

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- e) With respect to separately owned tracts and separately owned interests in the drilling unit, joining all the interests within the drilling unit for the production of coalbed methane gas so that each owner in the drilling unit will share in all production and costs regarding the drilling unit in the proportion that the acreage owned by each owner bears to the entire acreage in the unit.
- f) 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 10:00 AM, on October 18, 2022, at the offices of the Virginia Department of Energy at 3405 Mountain Empire Road, Big Stone Gap, VA 24219, and that notice will be published as required by 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 or a copy of the application and exhibits, either contact the Virginia Gas and Oil Board, State Oil and Gas Inspector, Department of Mines, Minerals and Energy, Division of Gas and Oil, P. O. Box 159, Lebanon, Virginia 24266, 276/415-9650 or the Applicant at the address shown below.

Dated: August 25, 2022

**Keyrock Energy, LLC**  
Applicant

By:   
Morgan Pate, Geologist  
Keyrock Energy, LLC  
207 East Main St., Suite 2-D  
PO Box 2223  
Johnson City, TN 37605

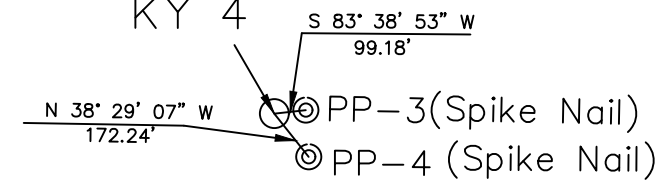
# PROPOSED UNIT

LATITUDE 37° 05' 00"

3,051'

## PERMANENT POINT DETAIL

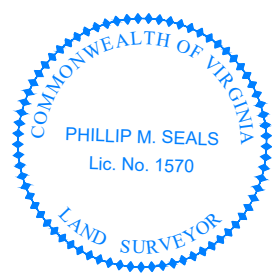
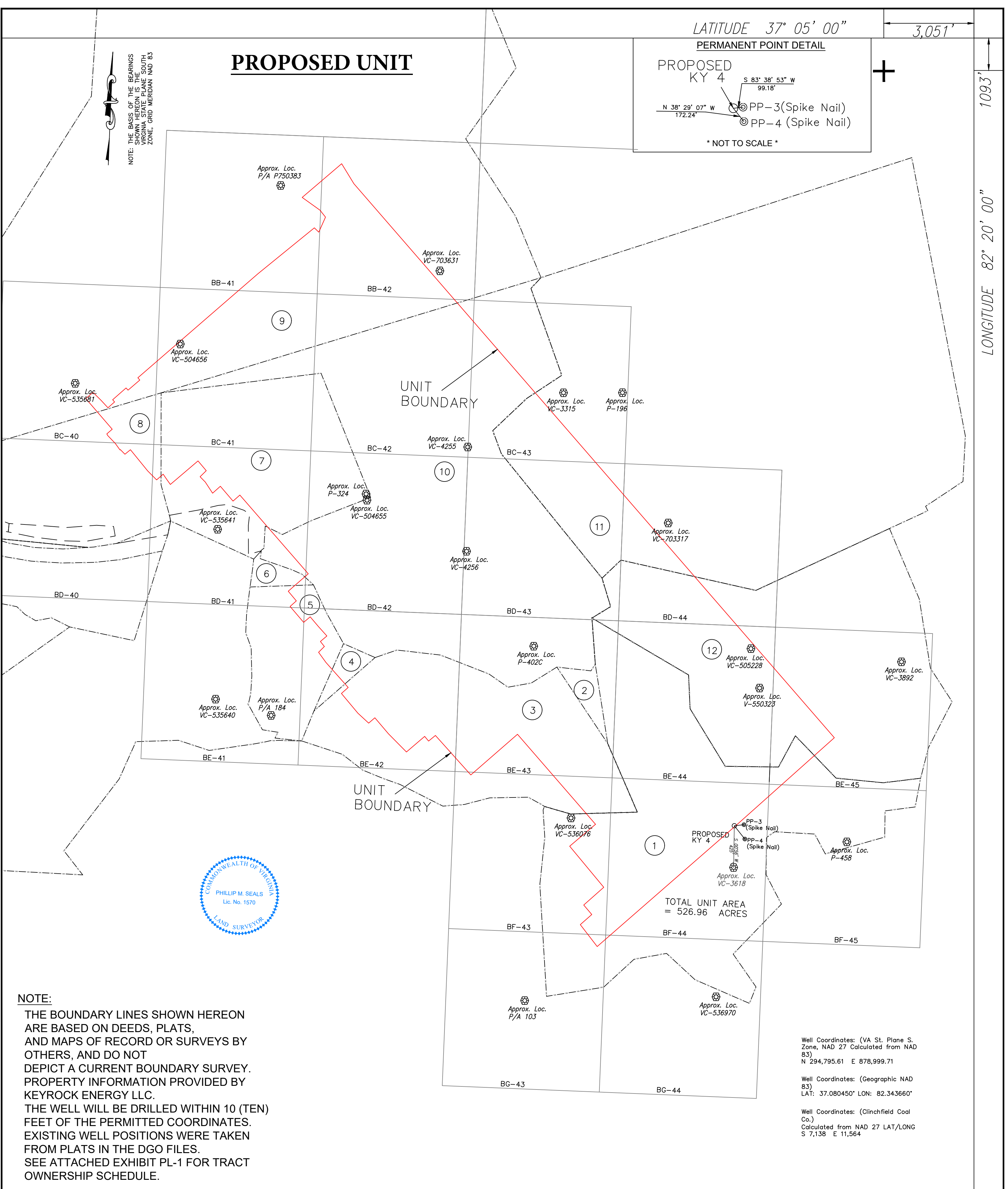
PROPOSED  
KY 4



\* NOT TO SCALE \*

NOTE: THE BASIS OF THE BEARINGS SHOWN HEREON IS THE VIRGINIA STATE PLANE SOUTH ZONE, GRID MERIDIAN NAD 83

1093'  
LONGITUDE 82° 20' 00"



**NOTE:**  
THE BOUNDARY LINES SHOWN HEREON ARE BASED ON DEEDS, PLATS, AND MAPS OF RECORD OR SURVEYS BY OTHERS, AND DO NOT DEPICT A CURRENT BOUNDARY SURVEY. PROPERTY INFORMATION PROVIDED BY KEYROCK ENERGY LLC. THE WELL WILL BE DRILLED WITHIN 10 (TEN) FEET OF THE PERMITTED COORDINATES. EXISTING WELL POSITIONS WERE TAKEN FROM PLATS IN THE DGO FILES. SEE ATTACHED EXHIBIT PL-1 FOR TRACT OWNERSHIP SCHEDULE.

Well Coordinates: (VA St. Plane S. Zone, NAD 27 Calculated from NAD 83)  
N 294,795.61 E 878,999.71

Well Coordinates: (Geographic NAD 83)  
LAT: 37.080450° LON: 82.343660°

Well Coordinates: (Clinchfield Coal Co.)  
Calculated from NAD 27 LAT/LONG S 7,138 E 11,564

### WELL LOCATION PLAT (Nora Grid N/A) DGO FILE NO.: Unknown At This Time

COMPANY Keyrock Energy LLC WELL NAME OR NUMBER KY 4  
TRACT NO. T-603 QUADRANGLE Nora  
DISTRICT Ervinton  
WELL COORDINATES (VIRGINIA STATE PLANE 83) N 3,575,672.03 E 10,361,983.93  
ELEVATION 1,556 METHOD USED TO DETERMINE ELEVATION: GPS & TRIG.  
COUNTY Dickenson SCALE: 1" = 600' DATE 8-16-2022

THIS PLAT IS A NEW PLAT ; 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.

*[Signature]*  
LICENSED LAND SURVEYOR (AFFIX SEAL)

EXHIBIT PL-1 (Page 1 of 3)  
Property Ownership Information for Keyrock 4  
08-16-2022

①

D-M 611  
W. W. Pressley  
152.06 ACRES  
C. F. Highlands - Surface  
ACIN LLC - coal  
PARAMONT CONTURA, LLC - coal lessee  
WBRD LLC - coal  
DICKENSON-RUSSELL CONTURA, LLC- coal lessee  
ENERVEST XIV-A NORA LLC  
ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. &  
ENERVEST XIV-WIC NORA LLC  
oil, gas & cbm  
  
Keyrock Energy - cbm lessee  
  
GAS 72.28 AC. 13.72%

②

T. L. Sutherland  
82.54 ACRES  
ACIN LLC - coal  
PARAMONT CONTURA, LLC - coal lessee  
WBRD LLC - coal  
DICKENSON-RUSSELL CONTURA, LLC- coal lessee  
ENERVEST XIV-A NORA LLC  
ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. &  
ENERVEST XIV-WIC NORA LLC  
oil, gas & cbm  
  
Keyrock Energy - cbm lessee  
  
GAS 3.38 AC. 0.64%

③

T. L. Sutherland  
82.54 ACRES  
ACIN LLC - coal  
PARAMONT CONTURA, LLC - coal lessee  
WBRD LLC - coal  
DICKENSON-RUSSELL CONTURA, LLC- coal lessee  
ENERVEST XIV-A NORA LLC  
ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. &  
ENERVEST XIV-WIC NORA LLC  
oil, gas & cbm  
  
Keyrock Energy - cbm lessee  
  
GAS 53.62 AC. 10.18%

④

T. L. Sutherland  
82.54 ACRES  
ACIN LLC - coal  
PARAMONT CONTURA, LLC - coal lessee  
WBRD LLC - coal  
DICKENSON-RUSSELL CONTURA, LLC- coal lessee  
ENERVEST XIV-A NORA LLC  
ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. &  
ENERVEST XIV-WIC NORA LLC  
oil, gas & cbm  
  
Keyrock Energy - cbm lessee  
  
GAS 2.07 AC. 0.39%

EXHIBIT PL-1(Page 2 of 3)  
Property Ownership Information for Keyrock 4  
08-16-2022

⑤

Anna L. Ramsey  
23.41 ACRES  
ACIN LLC - coal  
PARAMONT CONTURA, LLC - coal lessee  
WBRD LLC - coal  
DICKENSON-RUSSELL CONTURA, LLC- coal lessee  
ENERVEST XIV-A NORA LLC  
ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. &  
ENERVEST XIV-WIC NORA LLC  
oil, gas & cbm

Keyrock Energy - cbm lessee

GAS 4.07 AC. 0.76%

⑥

J. L. Litz  
ACIN LLC - coal  
PARAMONT CONTURA, LLC - coal lessee  
WBRD LLC - coal  
DICKENSON-RUSSELL CONTURA, LLC- coal lessee  
ENERVEST XIV-A NORA LLC  
ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. &  
ENERVEST XIV-WIC NORA LLC  
oil, gas & cbm

Keyrock Energy - cbm lessee

GAS 0.19 AC. 0.04%

⑦

D-M 594  
Jasper Sutherland  
ACIN LLC - coal  
PARAMONT CONTURA, LLC - coal lessee  
WBRD LLC - coal  
DICKENSON-RUSSELL CONTURA, LLC- coal lessee  
ENERVEST XIV-A NORA LLC  
ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. &  
ENERVEST XIV-WIC NORA LLC  
oil, gas & cbm

Keyrock Energy - cbm lessee

GAS 53.68 AC. 10.18%

⑧

D-M 594  
Jasper Sutherland  
ACIN LLC - coal  
PARAMONT CONTURA, LLC - coal lessee  
WBRD LLC - coal  
DICKENSON-RUSSELL CONTURA, LLC- coal lessee  
ENERVEST XIV-A NORA LLC  
ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. &  
ENERVEST XIV-WIC NORA LLC  
oil, gas & cbm

Keyrock Energy - cbm lessee

GAS 7.45 AC. 1.41%

EXHIBIT PL-1 (Page 3 of 3)

Property Ownership Information for Keyrock 4  
08-04-2022

9

D-M 594  
Jasper Sutherland  
ACIN LLC - coal  
PARAMONT CONTURA, LLC - coal lessee  
WBRD LLC - coal  
DICKENSON-RUSSELL CONTURA, LLC- coal lessee  
ENERVEST XIV-A NORA LLC  
ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. &  
ENERVEST XIV-WIC NORA LLC  
oil, gas & cbm

Keyrock Energy - cbm lessee

GAS 65.21 AC. 12.38%

10

DM-594  
Jasper Sutherland  
?? ACRES  
ACIN LLC - coal  
PARAMONT CONTURA, LLC - coal lessee  
WBRD LLC - coal  
DICKENSON-RUSSELL CONTURA, LLC- coal lessee  
ENERVEST XIV-A NORA LLC  
ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. &  
ENERVEST XIV-WIC NORA LLC  
oil, gas & cbm

Keyrock Energy - cbm lessee

GAS 182.00 AC. 34.54%

11

D-M 597  
A. A. Skeen  
327.39 ACRES  
ACIN LLC - coal  
PARAMONT CONTURA, LLC - coal lessee  
WBRD LLC - coal  
DICKENSON-RUSSELL CONTURA, LLC- coal lessee  
ENERVEST XIV-A NORA LLC  
ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. &  
ENERVEST XIV-WIC NORA LLC  
oil, gas & cbm

Keyrock Energy - cbm lessee

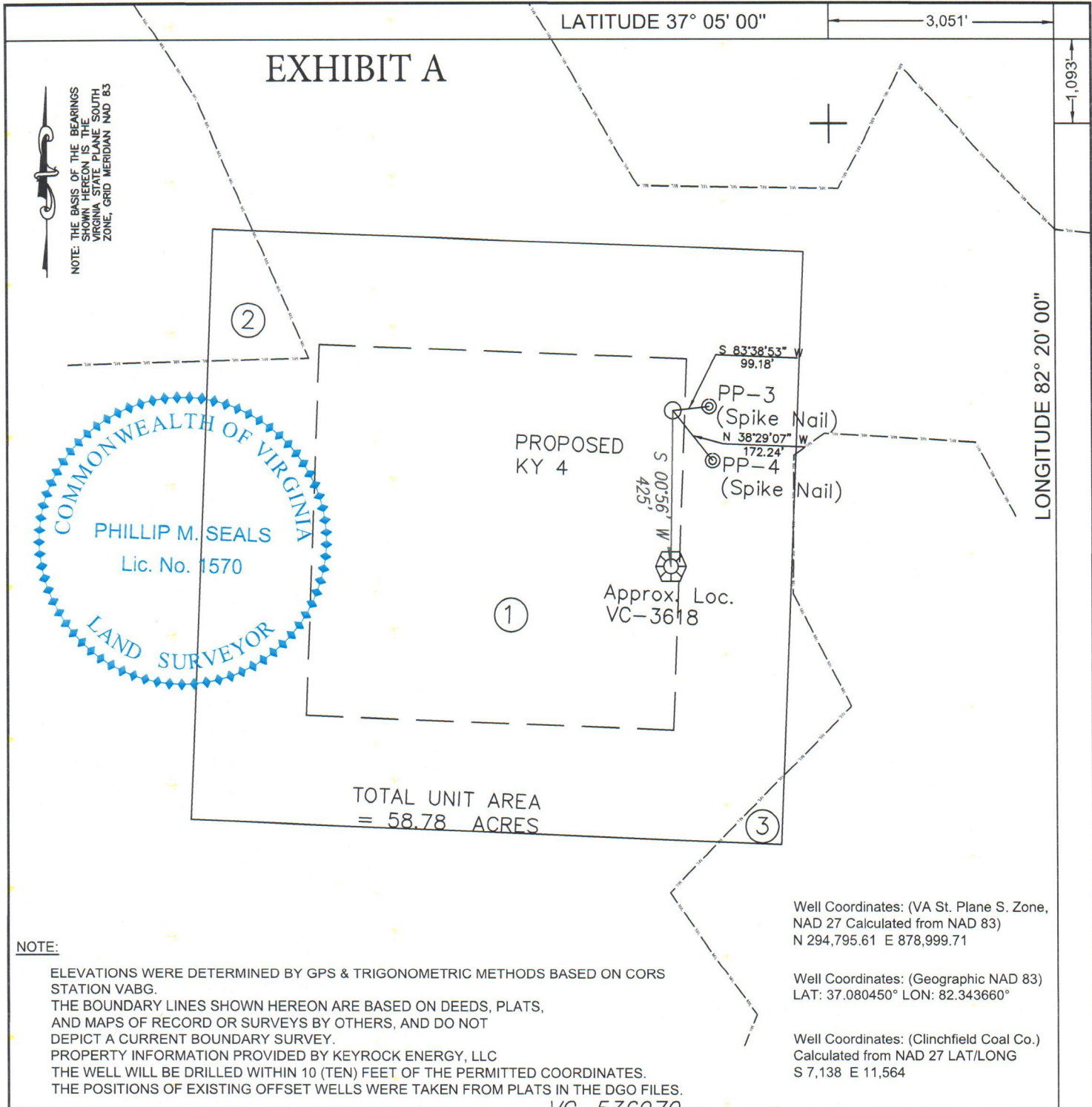
GAS 32.54 AC. 6.18%

12

D-M 610  
French-Chase Co.  
130.80 ACRES  
ACIN LLC - coal  
PARAMONT CONTURA, LLC - coal lessee  
WBRD LLC - coal  
DICKENSON-RUSSELL CONTURA, LLC- coal lessee  
ENERVEST XIV-A NORA LLC  
ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. &  
ENERVEST XIV-WIC NORA LLC  
oil, gas & cbm

Keyrock Energy - cbm lessee

GAS 50.47 AC. 9.58%



NOTE: THE BASIS OF THE BEARINGS SHOWN HEREON IS THE VIRGINIA STATE PLANE SOUTH ZONE, GRID MERIDIAN NAD 83

COMMONWEALTH OF VIRGINIA  
 PHILLIP M. SEALS  
 Lic. No. 1570  
 LAND SURVEYOR

NOTE:  
 ELEVATIONS WERE DETERMINED BY GPS & TRIGONOMETRIC METHODS BASED ON CORS STATION VABG.  
 THE BOUNDARY LINES SHOWN HEREON ARE BASED ON DEEDS, PLATS, AND MAPS OF RECORD OR SURVEYS BY OTHERS, AND DO NOT DEPICT A CURRENT BOUNDARY SURVEY.  
 PROPERTY INFORMATION PROVIDED BY KEYROCK ENERGY, LLC  
 THE WELL WILL BE DRILLED WITHIN 10 (TEN) FEET OF THE PERMITTED COORDINATES.  
 THE POSITIONS OF EXISTING OFFSET WELLS WERE TAKEN FROM PLATS IN THE DGO FILES.  
 VC 536070

Well Coordinates: (VA St. Plane S. Zone, NAD 27 Calculated from NAD 83)  
 N 294,795.61 E 878,999.71

Well Coordinates: (Geographic NAD 83)  
 LAT: 37.080450° LON: 82.343660°

Well Coordinates: (Clinchfield Coal Co.)  
 Calculated from NAD 27 LAT/LONG  
 S 7,138 E 11,564

**WELL LOCATION PLAT (Nora Grid BF-44)**

COMPANY Keyrock Energy LLC WELL NAME OR NUMBER KEYROCK 4  
 TRACT NO. LEASE NO 243344L QUADRANGLE NORA  
 DISTRICT Ervinton  
 WELL COORDINATES (VIRGINIA STATE PLANE 83) N 3,575,672.03 E 10,361,983.93  
 ELEVATION 1,556' METHOD USED TO DETERMINE ELEVATION: GPS & TRIG.  
 COUNTY Dickenson SCALE: 1" = 400' DATE 8-16-2022  
 THIS PLAT IS A NEW PLAT  ; 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.

1892.01 Form DGO-GO-7 Rev. 1-98  
 [Signature]  
 LICENSED LAND SURVEYOR (AFFIX SEAL)

EXHIBIT PL-1

Property Ownership Information for Keyrock 4  
08-16-2022

①

D-M 611  
W. W. Pressley  
152.06 ACRES  
C. F. Highlands - Surface  
ACIN LLC - coal  
PARAMONT CONTURA, LLC - coal lessee  
WBRD LLC - coal  
DICKENSON-RUSSELL CONTURA, LLC- coal lessee  
ENERVEST XIV-A NORA LLC  
ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. &  
ENERVEST XIV-WIC NORA LLC  
oil, gas & cbm  
  
Keyrock Energy - cbm lessee  
GAS 56.87 AC. 96.75%

②

T. L. Sutherland  
82.54 ACRES  
ACIN LLC - coal  
PARAMONT CONTURA, LLC - coal lessee  
WBRD LLC - coal  
DICKENSON-RUSSELL CONTURA, LLC- coal lessee  
ENERVEST XIV-A NORA LLC  
ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. &  
ENERVEST XIV-WIC NORA LLC  
oil, gas & cbm  
  
Keyrock Energy - cbm lessee  
GAS 1.53 AC. 2.60%

③

G. W Smith  
58.96 ACRES  
ACIN LLC - coal  
PARAMONT CONTURA, LLC - coal lessee  
WBRD LLC - coal  
DICKENSON-RUSSELL CONTURA, LLC- coal lessee  
ENERVEST XIV-A NORA LLC  
ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. &  
ENERVEST XIV-WIC NORA LLC  
oil, gas & cbm  
  
Keyrock Energy - cbm lessee  
GAS 0.38 AC. 0.65%

**Exhibit B  
Unit # 4  
VGOB Docket # 22-0920-4248  
List of all Owners/Claimants  
(526.96 Acre Unit)**

	<u>Acres in Unit</u>	<u>Interest in Unit</u>
<b><u>Tract #D-M 611; W. W. Pressley (152.06 Acres)</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM 1001 Fannin Street Ste 800 Houston, TX 77002	<b>56.85 acres</b>	<b>96.76 %</b>
<b><u>Tract #D-M 611; T. L. Sutherland (82.54 Acres)</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	<b>1.53 acres</b>	<b>2.60 %</b>
<b><u>Tract #D-M 612; G. W. Smith (58.96 Acres)</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002 Johnson City, TN 37605	<b>0.38 acres</b>	<b>0.64 %</b>
<b><u>Tract #T. L. Sutherland (82.54 Acres)</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	<b>2.07 acres</b>	<b>0.40 %</b>

**Exhibit B  
Unit # 4  
VGOB Docket # 22-0920-4248  
List of all Owners/Claimants  
(526.96 Acre Unit)**

	<b>Acres in Unit</b>	<b>Interest in Unit</b>
<b><u>Tract #Anna L. Ramsey (23.41 Acres)</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	<b>4.07 acres</b>	<b>0.77 %</b>
<b><u>Tract #J. L. Litz</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	<b>0.19 acres</b>	<b>0.04 %</b>
<b><u>Tract #D-M 594; Jasper Sutherland</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	<b>53.68 acres</b>	<b>10.19 %</b>
<b><u>Tract #D-M 594; Jasper Sutherland</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	<b>7.45 acres</b>	<b>1.42 %</b>

**Exhibit B  
Unit # 4  
VGOB Docket # 22-0920-4248  
List of all Owners/Claimants  
(526.96 Acre Unit)**

	<b>Acres in Unit</b>	<b>Interest in Unit</b>
<b><u>Tract #D-M 594; Jasper Sutherland</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	<b>65.21 acres</b>	<b>12.38 %</b>
<b><u>Tract #D-M 594; Jasper Sutherland</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	<b>182.00 acres</b>	<b>34.56 %</b>
<b><u>Tract #D-M 597; A. A. Skeen (327.39 Acres)</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	<b>32.54 acres</b>	<b>6.18 %</b>
<b><u>Tract #D-M 610; French-Chase Co. (130.80 Acres)</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	<b>50.47 acres</b>	<b>9.58 %</b>

# EXHIBIT C

## Authorization For Expenditure (AFE)

AFE # 1001	Property # Deep Mine 41	Version # 1
Well Name: Keyrock No. 4	Field:	Completed By: Morgan Pate
Location: N 3,575,672.03 E 10,361,983.93	Operator: Keyrock Energy	Date: 8/20/2022
Expected Pay Zones: Mined-out Jawbone Coal Seam	Estimated Total Depth: 400 ft	AAPG Class:
Proposed Work: Drill Gob well into mined-out Jawbone Seam	Participant: None	W.I. Amount
		\$0

Gen	Sub	Description	Casing Point	Completion	Total Cost
		Leasehold Costs	\$0	\$0	\$25,900
		Permit / Title Opinion / Survey / Insurance	\$0	\$0	\$15,000
		Building Location	\$0	\$0	\$45,500
		Roads / Stone / Culverts	\$0	\$0	\$19,500
		Surface Damages	\$0	\$0	\$0
		Drilling - Footage	\$0	\$0	\$11,700
		Drilling - Mobilization	\$0	\$0	\$7,000
		Drilling - Dayrate	\$0	\$0	\$13,200
		Mud & Chemicals (Drilling)	\$0	\$0	\$0
		Fuel	\$0	\$0	\$4,500
		Cement Surface casing	\$0	\$0	\$0
		Cement Intermediate casing	\$0	\$0	\$3,500
		Open Hole Logging & Testing	\$0	\$0	\$3,406
		Trucking / Dozer (Drilling)	\$0	\$0	\$0
		Rental Tools & Equipment (Drilling)	\$0	\$0	\$0
		Drilling - Bits	\$0	\$0	\$0
		Technical Supervision (Drilling)	\$0	\$0	\$0
		Fresh Water Hauling (Drilling)	\$0	\$0	\$720
		Overhead Rate	\$0	\$0	\$0
		Misc. & Contingencies	\$0	\$0	\$5,000
		Location Rds/Stone/Culverts	\$0	\$0	\$2,000
		Trucking / Dozer (Completion)	\$0	\$0	\$2,500
		Technical Supervision (Completion)	\$0	\$0	\$0
		Cased Hole Logging / Perforating	\$0	\$0	\$0
		Stimulation / Fracturing	\$0	\$0	\$0
		Completion Rig	\$0	\$0	\$0
		Reclamation & Damages	\$0	\$0	\$1,000
		Haul Pit Water / Disposal	\$0	\$0	\$2,280
		Cement Production Casing	\$0	\$0	\$5,600
		Rental Tools & Equipment (Completion)	\$0	\$0	\$0
		Fresh Water Hauling (Completion)	\$0	\$0	\$540
		Roustabout Labor	\$0	\$0	\$0
<b>TOTAL INTANGIBLES</b>			<b>\$0</b>	<b>\$0</b>	<b>\$168,846</b>

Code	Code	Description	Casing Point	Completion	Total Cost
		13 3/8" Surface Casing	50	\$4,750	\$4,800
		7" R1 T&C Black Steel Csg	350	\$12,250	\$12,600
		Wellhead Equipment / Fittings	\$0	\$0	\$2,500
		Tank Battery	\$0	\$0	\$0
		Separator / Heater / Treater	\$0	\$0	\$0
		Gas Lift Equipment	\$0	\$0	\$4,000
		Rods / Stuffing Box	\$0	\$0	\$0
		Downhole Pump	\$0	\$0	\$0
		Pumping Unit / Motor	\$0	\$0	\$0
		SS EQT-Packer,PF,FC,Nip	\$0	\$0	\$0
		Valves & Fittings	\$0	\$0	\$800
		Flow Line labor/material	\$0	\$0	\$0
		Sales line labor/mat/row	\$0	\$0	\$0
<b>TOTAL TANGIBLES</b>			<b>\$0</b>	<b>\$0</b>	<b>\$24,700</b>

<b>GRAND TOTAL WELL COST</b>			<b>\$0</b>	<b>\$0</b>	<b>\$193,546</b>
------------------------------	--	--	------------	------------	------------------

153	115	Plugging & Abandonment	\$25,000		
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<b>Production Costs :</b>	<b>\$193,546</b>	<b>Dry Hole Ccsts :</b>	<b>\$193,396</b>
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Operations & Engineering

  
Joe Stone

Date 8/20/2022

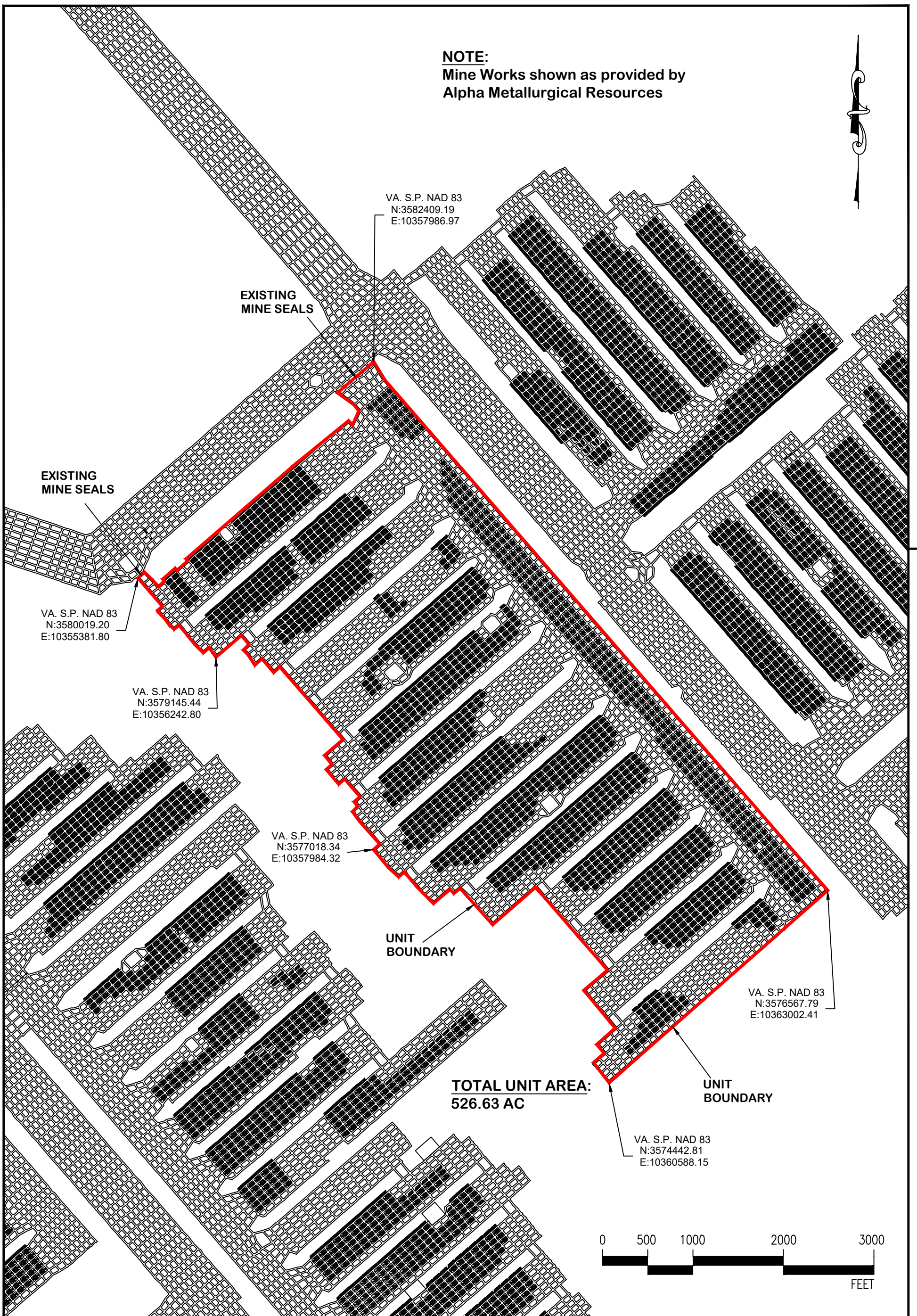
Geology and Land

  
Morgan Pate

Date: 8/20/2022

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.

**NOTE:**  
 Mine Works shown as provided by  
 Alpha Metallurgical Resources



**Appalachian Technical Services, Inc.**  
 Engineering, Architecture, Surveying, Ecology & Environmental Science

Abingdon Office  
 P.O. Box 1897  
 475 West Main Street  
 Abingdon, VA 24212  
 (276) 676-4262

Wise Office  
 P.O. Box 3537  
 6741 Indian Creek Road  
 Wise, VA 24293  
 (276) 328-4200

**KEYROCK ENERGY LLC**

**DEEP MINE 41 UNDERGROUND  
 UNDERGROUND MINE MAP KY4  
 EXHIBIT L**

Designed By: JMC	Drawn By: JMC	Checked By: PMS	Date: 10/12/22
Project Number: 1892.01	Scale: 1" = 1000'	Quadrangle: NORA	Coordinate System: VA Nad 83 South Zone
Drawing Name: Mineworks Only 24x36 With Well Units 10-12-22			<b>01</b>
Sheet/Layout: EXHIBIT L 11X17			<b>01</b>

**Exhibit D**

**Unit # 4**

**VGOB Docket # 22-0920-4248  
Leased Parties in a Sealed Gob  
(526.96 Acre Unit)**

	<b>Acres in Unit</b>	<b>Interest in Unit</b>
<b><u>Tract #D-M 611; W. W. Pressley (152.06 Acres)</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM 1001 Fannin Street Ste 800 Houston, TX 77002	<b>56.85 acres</b>	<b>96.76 %</b>
<b><u>Tract #D-M 611; T. L. Sutherland (82.54 Acres)</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	<b>1.53 acres</b>	<b>2.60 %</b>
<b><u>Tract #D-M 612; G. W. Smith (58.96 Acres)</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002 Johnson City, TN 37605	<b>0.38 acres</b>	<b>0.64 %</b>
<b><u>Tract #T. L. Sutherland (82.54 Acres)</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	<b>2.07 acres</b>	<b>0.40 %</b>
<b><u>Tract #Anna L. Ramsey (23.41 Acres)</u></b>		

Unit # 4  
VGOB Docket # 22-0920-4248  
Leased Parties in a Sealed Gob  
(526.96 Acre Unit)

	Acres in Unit	Interest in Unit
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	4.07 acres	0.77 %
<b><u>Tract #J. L. Litz</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	0.19 acres	0.04 %
<b><u>Tract #D-M 594; Jasper Sutherland</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	53.68 acres	10.19 %
<b><u>Tract #D-M 594; Jasper Sutherland</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	7.45 acres	1.42 %
<b><u>Tract #D-M 594; Jasper Sutherland</u></b>		

Unit # 4  
VGOB Docket # 22-0920-4248  
Leased Parties in a Sealed Gob  
(526.96 Acre Unit)

	<u>Acres in Unit</u>	<u>Interest in Unit</u>
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	65.21 acres	12.38 %
<b><u>Tract #D-M 594; Jasper Sutherland</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	182.00 acres	34.56 %
<b><u>Tract #D-M 597; A. A. Skeen (327.39 Acres)</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	32.54 acres	6.18 %
<b><u>Tract #D-M 610; French-Chase Co. (130.80 Acres)</u></b>		
(1) ENERVEST XIV-A NORA LLC ENERVEST ENERGY INSTITUTIONAL FUND XIV-1A, L.P. ENERVEST XIV-WIC NORA LLC - Oil, Gas & CBM - 1001 Fannin Street Ste 800 Houston, TX 77002	50.47 acres	9.58 %

<b>EXHIBIT I</b>				
<b>Unit # 4</b>				
<b>VGOB Docket # 22-0920-4248</b>				
<b>List of all Wells Incl. the Sealed Gob</b>				
<b>(526.96 Acre Unit)</b>				
<b>UNIT NUMBER</b>	<b>WELL NUMBER</b>	<b>DGO FILE NUMBER</b>	<b>STATUS</b>	<b>TYPE WELL</b>
BB-41	P750383		PLUGGED/ABANDONED	CONVENTIONAL
BB-42	VC-703631	DI-0939	PRODUCING	COALBED
BC-40	VC-535681	DI-1246	PRODUCING	COALBED
BC-41	VC-504656	DI-1080	PLUGGED/ABANDONED	COALBED
BC-42	VC-4255	DI-0985	PRODUCING	COALBED
BC-43	VC-3315	DI-0907	PRODUCING	COALBED
BC-43	P-196	DI-0242	PRODUCING	CONVENTIONAL
BD-40	NONE			
BD-41	VC-535641	DI-1163	PRODUCING	COALBED
BD-42	VC-504655	DI-1063	PRODUCING	COALBED
BD-42	P-324	DI-0327	PRODUCING	CONVENTIONAL
BD-43	VC-4256	DI-0992	PRODUCING	COALBED
BD-44	VC-703317	DI-0785	PRODUCING	COALBED
BE-41	184	DI-0038	PLUGGED/ABANDONED	CONVENTIONAL
BE-41	VC-535640	DI-1336	PRODUCING	COALBED
BE-42	NONE			
BE-43	P402C	DI-0380	PRODUCING	CONVENTIONAL
BE-44	VC-505228	DI-1195	PLUGGED/ABANDONED	COALBED
BE-44	V-550323	DI-1224	PRODUCING	CONVENTIONAL
BE-45	VC-3892	DI-0928	PRODUCING	COALBED
BF-43	VC-536076	DI-1280	PRODUCING	COALBED
BF-44	VC-3618	DI-0820	PRODUCING	COALBED
BF-45	P-458	DI-0741	PLUGGED/ABANDONED	CONVENTIONAL
BG-43	103	A13DK	PLUGGED/ABANDONED	CONVENTIONAL
BG-44	VC-536970	DI-1585	PRODUCING	COALBED

**MEMORANDUM OF PAID UP METHANE GAS LEASE**

ENERVEST XIV-A NORA LLC (50.10494%), ENERVEST ENERGY INSTITUTIONAL FUND XIV-A1, LP. (15.00000%) and ENERVEST XIV-W/C NORA LLC (34.89506%), each a Delaware limited partnership c/o EnerVest Operating, LLC. (herein called "Lessor"), whose address is 408 W. Main Street, Abingdon, VA 24210, and Keyrock Energy LLC (herein called "Lessee"), whose address is 207 E. Main Street, Suite 2-D, Johnson City, Tennessee 37605, hereby acknowledge and give notice that Lessor has executed and delivered to Lessee a Paid Up Methane Lease (herein after "Lease") under date of January 12<sup>th</sup>, 2022, covering the premises situated between the waters of the Buffalo Creek and Caney Creeks of Dickenson County, Virginia, commonly known as Deep Mine 41, to wit:

See attached Exhibit A for map of leased premise.

Said Lease provides for a primary term of three (3) years from January 12, 2022, and as long thereafter as CBM is produced in paying quantities from the lands covered by the Lease, or said Lease is maintained in force in any other manner therein provided. An executed copy of said Lease is in the possession of both Lessor and Lessee, and said Lease with all of its terms, covenants and provisions, is incorporated herein by reference and made a part hereof for all purposes.

The purpose of this Memorandum of Paid Up Methane Gas Lease is to evidence the existence of said Lease, and this Memorandum is given in lieu of filing said Lease in full for record with the office of the Recorder in the county or counties in which said Land is located.

This instrument may be executed in counterparts, which can be combined in one or more instruments for recordation.

IN WITNESS WHEREOF this instrument is executed on this 19<sup>th</sup> day of January 2022, but to be effective January 12, 2022.

LESSOR:

LESSEE

**EnerVest Operating, LLC.**

**Keyrock Energy, LLC**

By: Michael M. Dixon, M.D.

Mark A. [Signature]

Its: Viktor R. Schmidt = Local

managing Director



Lessee

**Keyrock Energy LLC**

By: Mark Allaman

Name: Mark Allaman

Title: Managing Director

**ACKNOWLEDGEMENT**

STATE OF PENNSYLVANIA

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COUNTY OF BUTLER

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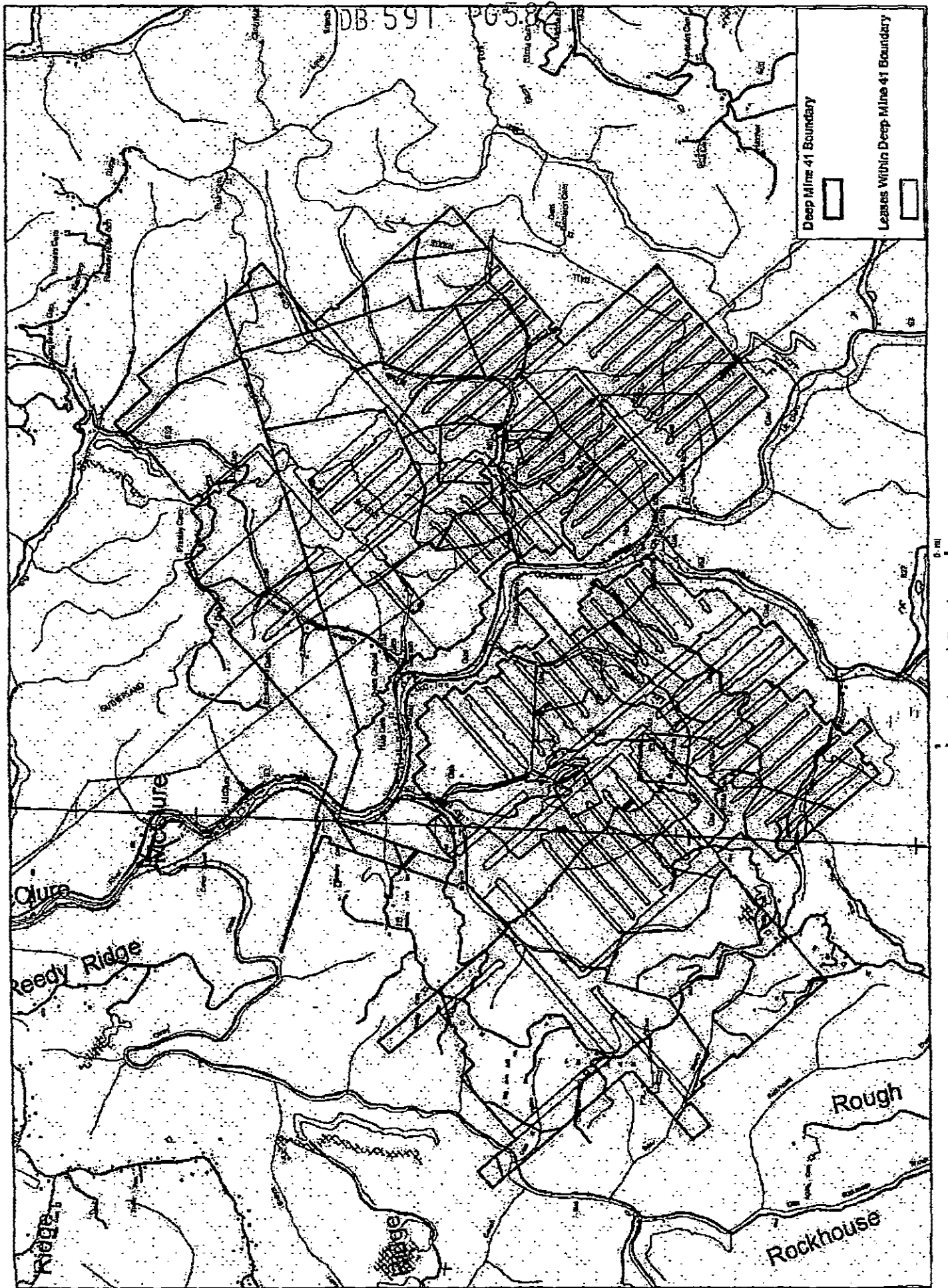
Venango

The foregoing instrument was acknowledged before me this 31<sup>st</sup> day of January, 2022 by Mark Allaman, as Managing Director of KEYROCK ENERGY, LLC, on behalf of the Limited Liability Company.

My Commission Expires: 12.17.22

Commonwealth of Pennsylvania - Notary Seal Katie Marie Sottiaux, Notary Public Venango County My commission expires December 17, 2022 Commission number 1342247 Member, Pennsylvania Association of Notaries
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Exhibit "A"



DB 591 PG583

INSTRUMENT 220000155  
RECORDED IN THE CLERK'S OFFICE OF  
DICKENSON CIRCUIT COURT ON  
FEBRUARY 15, 2022 AT 02:39 PM  
RICHARD W. EDWARDS, CLERK  
RECORDED BY: TJB