

VIRGINIA:

BEFORE THE VIRGINIA DEPARTMENT OF ENERGY

APPLICANT:	Keyrock Energy, LLC)	VIRGINIA GAS
)	AND OIL BOARD
RELIEF SOUGHT	EXCEPTION TO STATEWIDE)	
	SPACING LIMITATIONS PRESCRIBED)	DOCKET NO.
	BY § 45.2-1616 (B) (1) of the Code of)	VGOB 22-1018-4250
	Virginia for WELL NO. KEYROCK #4)	
	(herein "Subject Drilling Unit"))	
)	
	DRILLING UNIT SERVED BY WELL)	
	NUMBERED KEYROCK #4)	
	TO BE DRILLED IN THE LOCATION)	
	DEPICTED ON EXHIBIT A HERETO,)	
	W. W. PRESSLEY 152.06 ACRE TRACT)	
	NORA QUADRANGLE)	
	ERVINTON DISTRICT)	
	DICKENSON COUNTY, VIRGINIA)	
	(the "Subject Lands" are more particularly described)	
	on Exhibit "A", attached hereto and made a part hereof))	

REPORT OF THE BOARD

FINDINGS AND ORDER

1. **HEARING DATE AND PLACE:** This matter came on for hearing before the Virginia Gas and Oil Board (hereafter "Board") at 10:00 a.m. on October 18, 2022, at the 3405 Mountain Empire Road, Big Stone Gap, Virginia.
2. **APPEARANCES:** Freddie E. Mullins appeared for the Applicant.
3. **JURISDICTION AND NOTICE:** Pursuant to §§ 45.2-1600 *et seq.* of the Code of Virginia, the Board finds that it has jurisdiction over the subject matter. Based upon the evidence presented by Applicant, the Board also finds that the Applicant has (1) exercised due diligence in conducting a meaningful search of reasonably available sources to determine the identity and whereabouts of each gas and oil owner, coal owner, or mineral owner having an interest in Subject Drilling Unit underlying and comprised of Subject Lands; and (2) represented to the Board that it has given notice to those parties (hereafter sometimes "person(s)" whether referring to individuals, corporations, partnerships associations, companies, businesses, trusts, joint ventures or other legal entities) entitled by § 45.2-1618 of the Code of Virginia to notice of this application. Further, the Board has caused notice of this hearing to be published as required by § 45.2-1618 of the Code of Virginia. Whereupon, the Board hereby finds that the notices given herein satisfy all statutory requirements, Board rule requirements and the minimum standards of state due process.

4. AMENDMENTS: None.
5. DISMISSALS: None.
6. RELIEF REQUESTED: Applicant requests an exception to the statewide spacing limitations set forth in § 45.2-1616 (B)(1) of the Code of Virginia for Well No. Keyrock #4.
7. RELIEF GRANTED: The requested relief in this cause shall be and hereby is granted. The Board hereby grants Applicant consent to permit and drill proposed Well No. Keyrock #4 which is 425 feet from EnerVest Operating, LLC, Well No. VC-3618 at the location depicted on the Plat attached hereto as Exhibit A.
8. SPECIAL FINDINGS: The Board specifically and specially finds:
 - 8.1. Applicant is Keyrock Energy, LLC. Applicant is duly authorized and qualified to transact business in the Commonwealth of Virginia;
 - 8.2. Applicant Keyrock Energy, LLC, is an operator in the Commonwealth of Virginia and has satisfied the Board's requirements for operations in Virginia;
 - 8.3. Applicant claims ownership of Coalbed Methane Leases of Subject Drilling Unit and the right to explore for, develop and produce Gas from Well No. Keyrock #4.
 - 8.4. The proposed Well No. Keyrock #4 is located on the W. W. Pressley 152.06 Acre Tract and the coal, gas and oil owners have consented to the proposed location for Well No. Keyrock #4 that is depicted on the Plat attached hereto as Exhibit A;
 - 8.5. An exception to the well spacing requirements of § 45.2-1616(B)(1) of the Code of Virginia for Well No. Keyrock #4 is necessary to efficiently drain a portion of the common sources of supply (reservoir) underlying Subject Drilling Unit, and the Board's granting of the requested location exception is in the best interest of preventing the waste of an as yet undetermined quantum of coalbed methane gas from the Mined Out Jawbone Coal Seam in the Contura Deep Mine 41 underlying the Subject Drilling Unit, and to generally effect the purposes of the Virginia Gas and Oil Act;
 - 8.6. Applicant proposes the drilling of Well No. Keyrock #4 to a depth of 400 feet on the Subject Drilling Unit at the location depicted on Exhibit A to explore for coalbed methane gas from the Mined Out Jawbone Coal Seam in the Contura Deep Mine 41 underlying the Subject Drilling Unit;
 - 8.7. Applicant proposes to drill Well No. Keyrock #4 575 feet closer to EnerVest Well No. VC-3618 than the 1000 feet mandated by statewide spacing;
 - 8.8. Applicant proposes to complete and operate Well No. Keyrock #4 for the purpose of combusting coalbed methane gas to generate carbon credits for sale on the open market;
9. CONCLUSION: Therefore, the requested relief and all terms and provisions set forth above be and hereby are granted and **IT IS SO ORDERED.**
10. APPEALS: Appeals of this Order are governed by the provisions of §45.2-1609 which provides that any order or decision of the Board may be appealed to the appropriate circuit court. Such appeals must be taken in the manner prescribed in the Administrative Process Act, found in §2.2-4000 *et seq.*, of the Code of Virginia and Rule 2A of the Rules of the Virginia Supreme Court.
11. EFFECTIVE DATE: This Order shall be effective as of the date of the Board's approval of this Application, which is set forth at Paragraph 1 above.

DONE AND EXECUTED this 10 day of November, 2022 by a majority of the Virginia Gas and Oil Board.

Interim Chairman, Donald L. Ratliff

DONE AND PERFORMED this 10 day of November, 2022 by Order of the Virginia Gas and Oil Board.

James P. Skorupa
Principal Executive to the staff,
Virginia Gas and Oil Board

COMMONWEALTH OF VIRGINIA
COUNTY OF RUSSELL

Acknowledged on this 10th day of November, 2022, personally before me a notary public in and for the Commonwealth of Virginia, appeared Donald L. Ratliff, being duly sworn did depose and say that he is the Interim Chairman of the Virginia Gas and Oil Board and appeared James P. Skorupa, being duly sworn did depose and say that he is Principal Executive to the staff of the Virginia Gas and Oil Board, that they executed the same and was authorized to do so.

Sarah Jessee Gilmer, Notary Public
262946

My Commission expires: July 31, 2025



DB 600 PG 350

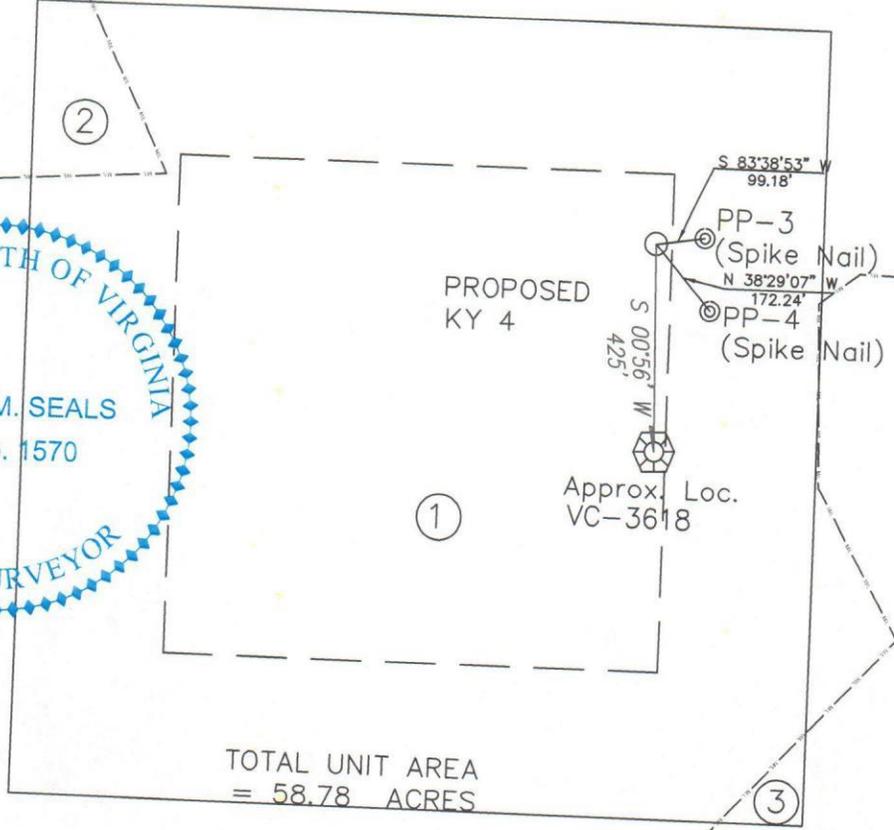
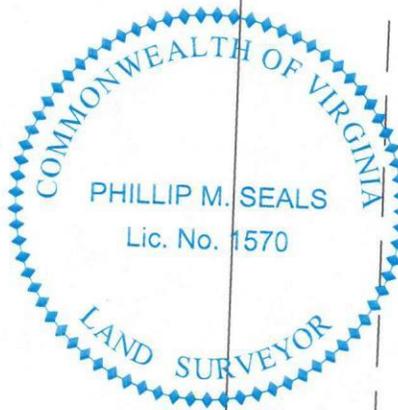
LATITUDE 37° 05' 00"

3,051'

EXHIBIT A

1,093'

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



LONGITUDE 82° 20' 00"

TOTAL UNIT AREA = 58.78 ACRES

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.

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.

Phillip M. Seals

LICENSED LAND SURVEYOR

(AFFIX SEAL)

EXHIBIT PL-1Property 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%

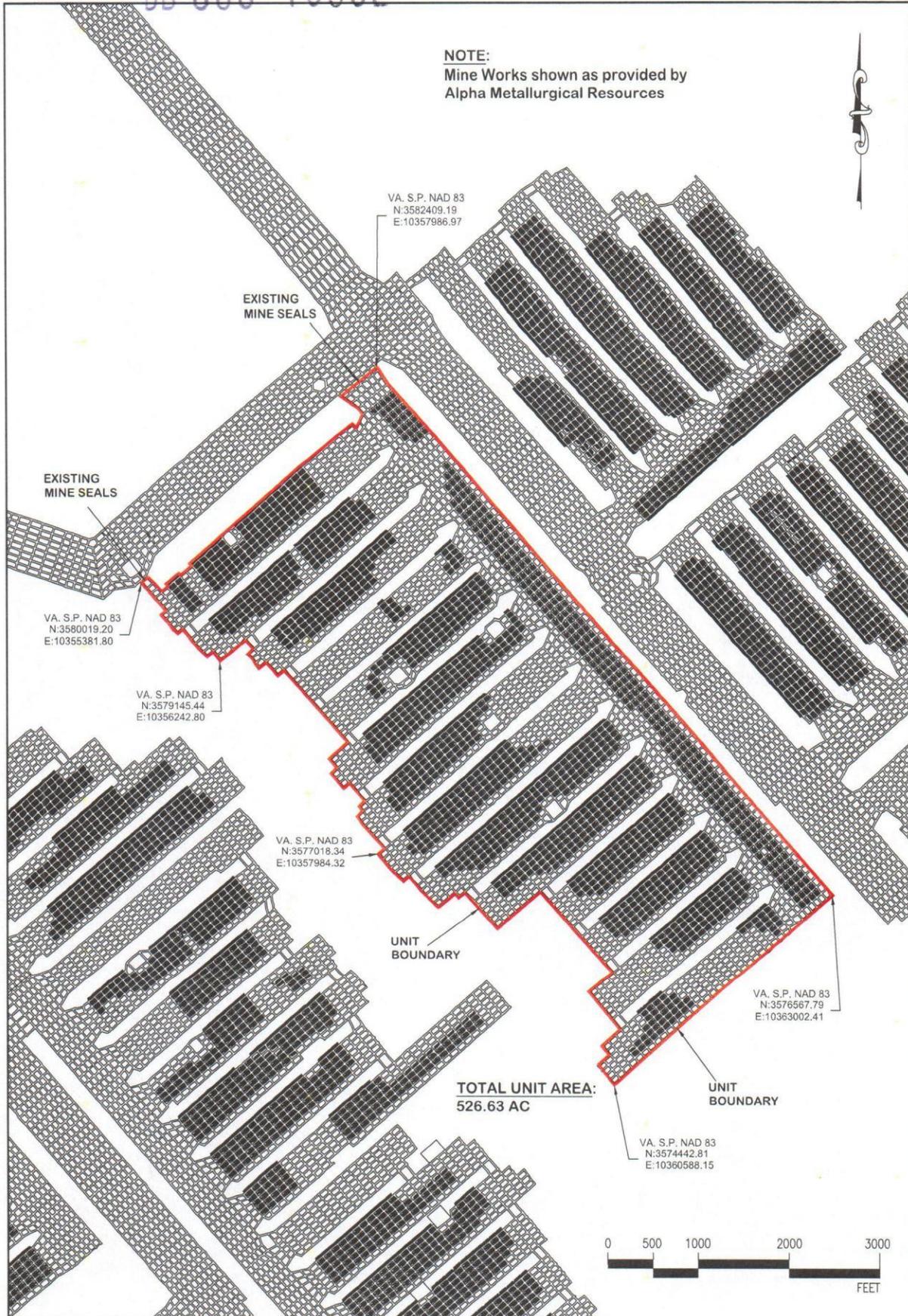
②

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%

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) 678-4262

Wise Office
P.O. Box 3537
6711 Indian Creek Road
Wise, VA 24293
(276) 328-4200

KEYROCK ENERGY LLC

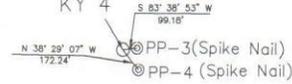
**DEEP MINE 41 UNDERGROUND
UNDERGROUND MINE MAP KY4
EXHIBIT L**

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

PROPOSED UNIT

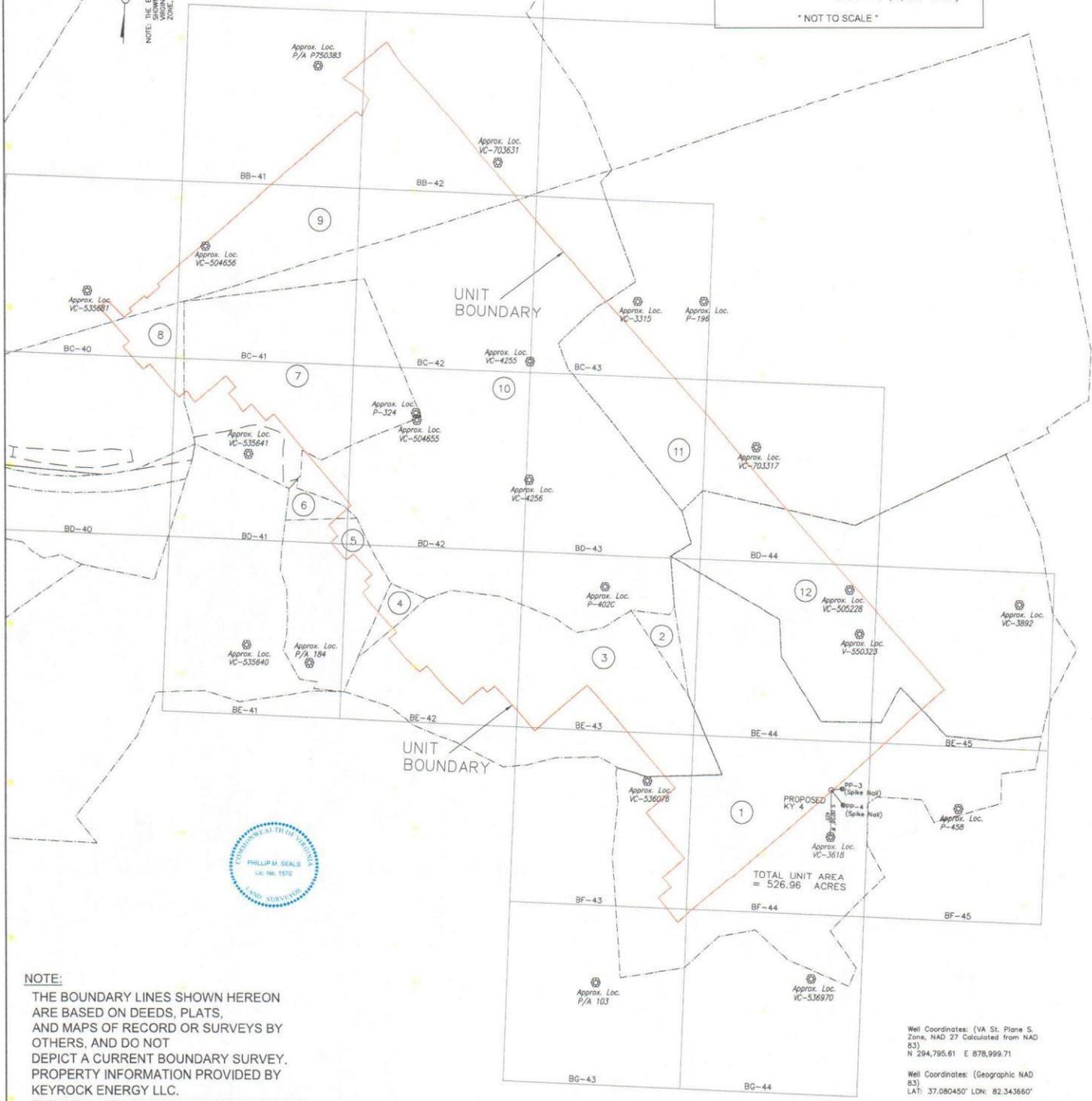
PERMANENT POINT DETAIL

PROPOSED
KY 4



* NOT TO SCALE *

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



TOTAL UNIT AREA
= 526.96
ACRES

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 State 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 11,264

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 Ervington
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.

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%

Exhibit B
Unit # 4
VGOB Docket # 22-1018-4250
List of all Owners/Claimants
(526.96 Acre Unit)

	Acres in Unit	Interest in Unit
<u>Tract #D-M 611; W. W. Pressley (152.06 Acres)</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	56.85 acres	96.76 %
<u>Tract #D-M 611; T. L. Sutherland (82.54 Acres)</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	1.53 acres	2.60 %
<u>Tract #D-M 612; G. W. Smith (58.96 Acres)</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 Johnson City, TN 37605	0.38 acres	0.64 %
<u>Tract #T. L. Sutherland (82.54 Acres)</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	2.07 acres	0.40 %

Exhibit B
Unit # 4
VGOB Docket # 22-1018-4250
List of all Owners/Claimants
(526.96 Acre Unit)

	<u>Acres in Unit</u>	<u>Interest in Unit</u>
<u>Tract #Anna L. Ramsey (23.41 Acres)</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	4.07 acres	0.77 %
<u>Tract #J. L. Litz</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	0.19 acres	0.04 %
<u>Tract #D-M 594; Jasper Sutherland</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	53.68 acres	10.19 %
<u>Tract #D-M 594; Jasper Sutherland</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	7.45 acres	1.42 %

**Exhibit B
Unit # 4
VGOB Docket # 22-1018-4250
List of all Owners/Claimants
(526.96 Acre Unit)**

	<u>Acres in Unit</u>	<u>Interest in Unit</u>
<u>Tract #D-M 594; Jasper Sutherland</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 %
<u>Tract #D-M 594; Jasper Sutherland</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	182.00 acres	34.56 %
<u>Tract #D-M 597; A. A. Skeen (327.39 Acres)</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	32.54 acres	6.18 %
<u>Tract #D-M 610; French-Chase Co. (130.80 Acres)</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	50.47 acres	9.58 %

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-WIC 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 12th, 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 19th day of January 2022, but to be effective January 12, 2022.

LESSOR:

LESSEE

EnerVest Operating, LLC.

Keyrock Energy, LLC

By: Michael H. M.

Mark Altobelli

Its: Vicent R. Schmidt = Local

managing Director

Lessee

Keyrock Energy LLC

By: Mark Allaman
Name: Mark Allaman
Title: Managing Director

ACKNOWLEDGEMENT

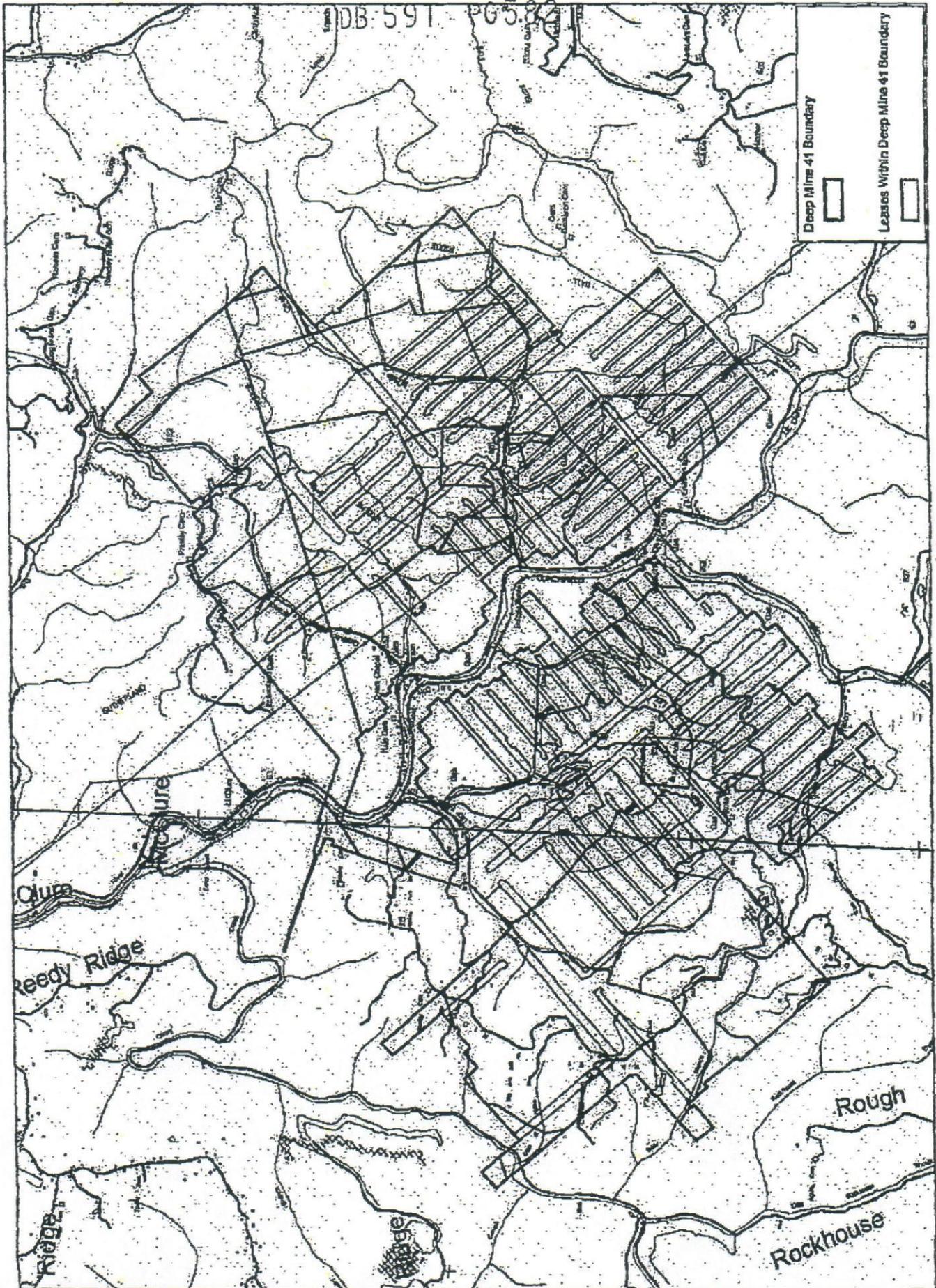
STATE OF PENNSYLVANIA)
) S
COUNTY OF BUTLER)
 Venango

The foregoing instrument was acknowledged before me this 31st 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

Exhibit "A"



DB 600 PG364

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

DB 600 PG 365

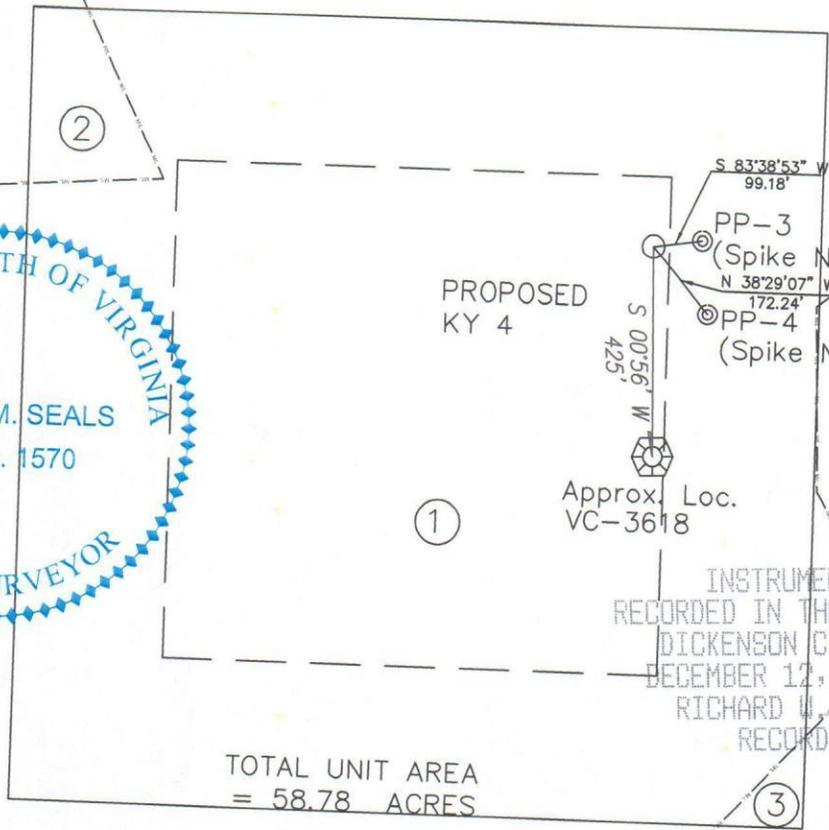
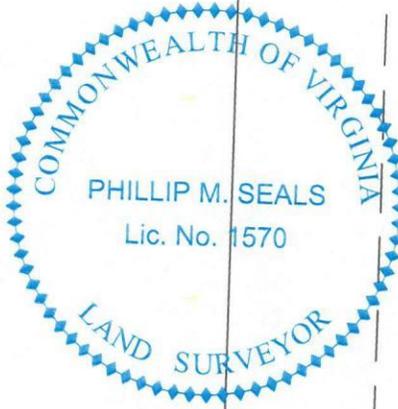
LATITUDE 37° 05' 00"

3,051'

EXHIBIT K

1,093'

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



PROPOSED KY 4

S 83°38'53" W
99.18'

PP-3
(Spike Nail)

N 38°29'07" W
172.24'

PP-4
(Spike Nail)

S 00°56' W
425'

Approx. Loc. VC-3618

INSTRUMENT 220001429
RECORDED IN THE CLERK'S OFFICE OF
DICKENSON CIRCUIT COURT ON
DECEMBER 12, 2022 AT 03:20 PM
RICHARD W. EDWARDS, CLERK
RECORDED BY: CXC

TOTAL UNIT AREA = 58.78 ACRES

LONGITUDE 82° 20' 00"

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.

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.

Phillip M. Seals

LICENSED LAND SURVEYOR

(AFFIX SEAL)