

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Thursday, December 19, 2024 WELL WORK PERMIT Coal Bed Methane Well / New Drill

KEYROCK ENERGY LLC 207 EAST MAIN ST., SUITE 2-D

JOHNSON CITY, TN 37604

Re:

Permit approval for Kermit No 1

47-059-02268-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number: Kermit No 1

Farm Name: Jacquline & Gary Hensley

U.S. WELL NUMBER: 47-059-02268-00-00

Coal Bed Methane Well New Drill

Date Issued: 12/19/2024

Promoting a healthy environment.

Page 1 of _____

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS COALBED METHANE PERMIT APPLICATION

1) Well	Operato	r: Keyrock Energy LLC	2) Well Name Kermit No.	1
3) Opera	itor's W	ell Number Kermit No. 1	4) Elevation 1105	
5) Propo No. 2 Gas	sed Tarş Coal Sean	get Formation(s), Depths and Thickness:		
6) Propo	sed Tota	al Depth: 724 feet		
7) Appro	ximate	Fresh Water Strata Depths: 145'		
8) Appro	ximate	Salt Water Depths: 1020'		
9) Appro	ximate	Coal Seam Depths: 724'		
10)	Does	Land Contain Coal Seams Tributary to Acti	ive Mines? Yes/ 1	No X
11)	(a)	Proposed Well Work: Drilling into the under	rground workings of the abandor	ned No. 2 Gas Mine
(b)	If Stir	nulation Proposed, Describe Means to be U	sed to Stimulate Well: No sti	mulaion will occur.
12)	(a)	Does the proposed operation plan to conv § 22-21) or a vertical ventilation hole to a		
(b)	If yes, and a	, please attach to this Application a list of al description of any plans to plug any portion	ll formations from which pro	duction is anticipated
13)	(a)	Will the proposed coalbed methane well production (except for a gob well or vent Yes X / No/		
(b)	If yes,	please attach to this Application a plan and eams which will be penetrated by the well.	design for the well which w	vill protect all workable
14)	(a)	Does the proposed operation include hori	zontal drilling of a well com	menced on the surface?
(b) If yes, norizonta	, please l alignm	attach to this Application a description of the and extent of the well from the surface	of such operations, including to total depth.	Office of Oil and
				NOV 06 2024
				WV Department of Environmental Protection

CASING AND TUBING PROGRAM

TYPE	SPECIFICA	TIONS	FOOTAGE IN	ITERVALS	CEN	ÆNT
	Size	Grade	Weight per ft.	For Drilling	Left in Well	Fill-up (cu. ft.)
Conductor	13 3/8"	J-55	54.5 lbs	80'	80'	To surface
Fresh Water						
Coal						
Intermediate						
Production	7"	J-55	20 lbs	720	695	To surface
Tubing						
Liners						

A I / A	
N/A	
	
FRESH WATER DEPTH	

Coal Seam Name	Тор	Bottom	Target (yes or no)
No. 2 Gas	720	724	Yes
Name va			
		-	

Page 3 of <u>6</u> WW-5A (8/1998) Owner, Operator and Lessee Copy

Name ____ Address __

1) Date:
2) Operator's well number
Kermit No. 1
3) API Well No: 47- 059 -
State County Permit

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A COALBED METHANE WELL PERMIT

Surface Owner(s):	(d) Natural Gas Owner(s):
(a) Name Gary Lee & Jacquline Hensley	Name Burning Creek - Marrowbone Land Company
Address PO Box 107	Address 1098 South Mayo Trail, Suite 100
Kermit, WV 25674	Pkeville, KY 41501
(b) Name	Name
Address	Address
(c) Name	(e) Natural Gas Lessee(s):
Address	Name Keyrock Energy LLC
/	Address 207 East Main Street, Suite 2-D
	Johnson City, TN 37604
Other Parties Noticed:	
(a) Coal Owner(s):	Name
Name Burning Creek - Marrowbone Land Company	Address
Address 1098 South Mayo Trail, Suite 100	
Pkeville, KY 41501	
Name	(f) Natural Gas Operator(s):
Address	Name Keyrock Energy LLC
	Address 207 East Main Street, Suite 2-D
	Johnson City, TN 37604
(b) Coal Lessee(s):	
Name	Name
Address	Address RECEIVED and Gass
-	Office of Oil of
Name	6) Inspector Brian Warden Address 49 Flk Creek Road
Address	
	Delbarton, WV 25670 WY Department O
	Telephone 304-205-3229 Environmental Protect
(c) Coal Operator(s):	Oil and Gas Privacy Notice
Name Burning Creek - Marrowbone Land Company	
Address 1098 South Mayo Trail, Suite 100	The Office of Oil and Gas processes your personal information, such as name,
Pkeville, KY 41501	address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

Page 4 of 6 WW-5A (8/1998) Owner, Operator and Lessee Copy

1)	Date:
2)	Operator's well number
3)	API Well No: 47- 059 -
	State County Permit

TO THE PERSONS NAMED ABOVE - TAKE NOTICE THAT:

The well operator named below is applying for a permit from the State of West Virginia to commence, operate, deepen or stimulate a coalbed methane well, to conduct horizontal drilling of a coalbed methane well commenced from the surface or to convert an existing well or vent hole to a coalbed methane well.

went commended from the surface of to convert air existing wen o	r vent note to a coalded methane wen.
Well Operator: Keyrock Energy LLC	
By: mark Allaman	
Its: Managing Director	
7	
Well Operator Designated Agent:	RECEIVED Office of Oil and Gas
Name: Mark Allaman	/ and Gas
Address: 207 East Main Street, Suite 2-D	NOV 0 6 2024
Johnson City, TN 37604	· •
Telephone: 304-573-9873	wv Department Co
	Environmental Protection
a location plat, erosion and sediment control plan have been serve Personal Service (affidavit attached) X Certified Mail (return receipt requested)	d on the above-named parties by:
(8) The well operator certifies that, as required by W. Va. Code has been or within ten days of filing will be published in a newsp which the proposed Coalbed Methane well is to be located all in Virginia Department of Environmental Protection, Office of Oil a Affidavit of Publication (attached) X Affidavit of Publication (forthcoming)	paper of general circulation in the county in formation required by statute and the West
County of \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2er 2024.
Katy Mary Dottraus No	otary Public.
My commission expires 12.17.2026	
Commonwealth of Pennsylvania - Notary Seal Katie Marie Sottiaux, Notary Public Venango County My commission expires December 17, 2026 Commission number 1342247 Member, Pennsylvania Association of Notaries	

Page 5 of <u>/</u>
WW-5A (8/1998)
Owner, Operator and Lessee Copy

1) Date:				
2) Operator's well number				
Kermit No. 1				
3) API Well No: 47- 059 -				
State County Permit				

INSTRUCTIONS TO PERSONS NAMED ABOVE*

YOU ARE NOT REQUIRED TO FILE ANY COMMENT BUT MAY BE ENTITLED TO DO SO. HOWEVER, IF YOU WISH TO FILE COMMENTS OR OBTAIN ADDITIONAL INFORMATION, PLEASE CONTACT:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St., SE
Charleston, West Virginia 25304
(304) 926-0450

District Oil and Gas Inspector
(Name and address listed Page 1) RECEIVED
Office of Oil and Gas

NOV 06 2024

Time limits and methods for filing comments. The law provides that certain parties are for protection receive copies of an application for a coalbed methane well permit prior to the filing of the application. You have **FIFTEEN** (15) **DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Office of Oil and Gas within that time. You may call the Office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

Comments must be in writing. Your comments must include your name, address, and telephone number (if you have a telephone), the well operator's name and well number, and the approximate location of the proposed well site, including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

<u>List of Water Testing Laboratories</u>. The Office of Oil and Gas maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Office to obtain a copy.

Permits. Permits for coalbed methane wells may be granted or derived as provided in Article 21 of Chapter 22 of the West Virginia Code. The Chief of the Office of Oil and Gas has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons;
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies; or
- The Applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation. You may request additional information and/or request notice of the permit decision from the Chief.

^{*}If you believe you were provided notice of this application in error, please contact the well operator listed above and the Office of Oil and Gas at (304) 926-0450 immediately.

Page 6 of 6 WW-5A (8/1998) Owner, Operator and Lessee Copy

1) Date:		
2) Operato	r's well nun	nber
Kermit N	lo. 1	_
3) API We	ell No: 47- 0	59 _
	State C	County Permit

VOLUNTARY STATEMENT OF NO OBJECTION BY PERSON RECEIVING NOTICE OF CBM WELL PERMIT APPLICATION

I hereby state that I have read these Instructions and that I have received copies of the Notice and Application for a Coalbed Methane Well Permit, and accompanying materials, including a survey plan and a soil and erosion plan, all for proposed coalbed methane well work as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

I further state that I am aware that the proposed well is within 1,600 feet of another CBM well, and I have no objection to this spacing.

FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTION BY A CORPORATION, E	ETC.
Gary Lee and Jacquline Hensley	, , , ,	
Hell Normany Name Company	y 	
Signature By		
Its	-	
	22	
	Signature Date	

IMPORTANT: If you have been notified by the well operator of the proposed coalbed methane well and you signed the <u>Voluntary Statement of No Objection</u> to the planned work described in these materials, then the permit may be issued at any time. If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Office of Oil and Gas.

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_3.5	Extra Services & Fees (check box, add fee as appropriate) Return Receipt (hardcopy)		
	Return Receipt (electronic)	Postmark	
	Certifled Mail Restricted Delivery \$	Here	
0000	Adult Signature Required \$		
	Adult Signature Restricted Delivery \$		
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급	Total Pr		
Ш			
	Sent To Gary Lee & Jacquline Hensley		
<u> </u>			
7020	Street: P.O. Box 107		
L-	Kermit, WV 25674		
	City, Si		
			tructions
	PS Fo		

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: 	A. Signature X
Gary Lee & Jacquline Hensley P.O. Box 107 Kermit, WV 25674	
9590 9402 7927 2305 4666 23 2. Article Number (Transfer from service label) 7020 31.60 0000 6038 501	3. Service Type □ Adult Signature □ Adult Signature Restricted Delivery □ Certified Mail® □ Certified Mail Restricted Delivery □ Collect on Delivery □ Collect on Delivery Restricted Delivery □ Insured Mail all Restricted Delivery □ Insured Mail all Restricted Delivery
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt

RECEIVED

NOV **6** 2024

Page 6 of <u>6</u> WW-5A (8/1998) Owner, Operator and Lessee Copy

1) Date:
2) Operator's well number
Kermit No. 1
3) API Well No: 47- 059 -
State County Permit

<u>VOLUNTARY STATEMENT OF NO OBJECTION</u> BY PERSON RECEIVING NOTICE OF CBM WELL PERMIT APPLICATION

I hereby state that I have read these Instructions and that I have received copies of the Notice and Application for a Coalbed Methane Well Permit, and accompanying materials, including a survey plan and a soil and erosion plan, all for proposed coalbed methane well work as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

I further state that I am aware that the proposed well is within 1,600 feet of another CBM well, and I have no objection to this spacing.

FOR EXECUTION BY A NATURAL PERSON]	FOR EXECUTION BY A CORPORATION, ETC. Burning Creek – Marrowbone Land Company	
Signature	Date	Company Name By Its	Loren 6. Turne John G. June Signature	R 11 20/24 Date

IMPORTANT: If you have been notified by the well operator of the proposed coalbed methane well and you signed the Voluntary Statement of No Objection to the planned work described in these materials, then the permit may be issued at any time. If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Office of Oil and Gas.

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	Return Receipt (electronic) \$	Postmark	
0000	Certified Mail Restricted Delivery \$	Here	
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3160	Postage		
-11	\$ Total		
m	BURNING CREEK -		
	Sent MARROWBONE LAND CO	MPANY —	
L	1000 G. al Mario Twoil Suita 100		
	Pikeville, KY 41501		
•	City,		
	DE E 0000 A-vil 2015 DON 7500 00 000 0047	See Reverse for Instructions	
	PS Form 3800, April 2015 PSN 7530-02-000-9047	See neverse for instructions	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON D	ELIVERY
Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. BURNING CREEK — MARROWBONE LAND COMPANY 1098 South Mayo Trail, Suite 100 Pikeville, KY 41501	A. Signature X B. Received by (Printed Name) D. Is delivery address different from If YES, enter delivery address by	Agent Addressee C. Date of Delivery item 1? Yes yelow: No
9590 9402 7927 2305 4666 30 2. Article Number (Transfer from service label) 7020 3160 0000 6038 502	3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery **Incomplete Adult** **In	☐ Priority Mail Expr. ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery

RECEIVE, Office of Oil

NOV _ 6 2024

WV Departm.
Environmenta: Frequencion

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Mingo			
Operator Keyrock Energy LLC	Opera	or's Well Nu	_{imber} Kermit No. 1
INSTRUCTIONS	TO COAL OP	ERATOR, O	WNER, OR LESSEE
any objection you wish to make or a	are required to	make by W\	e WW2-A. You are hereby notified that V Code 22-6-15, 16 or 17, must be filed days after the receipt of this application
Chief, Office of Oil and Gas Department of Environmental Protection 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654	ction		
	WA	IVER	
The undersigned coal operator $\frac{X}{I}$ owner $\frac{X}{I}$ lessee $\frac{I}{I}$ of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.			
FOR EXECUTION BY A NATURAL PERSO	NC	FOI	R EXECUTION BY A CORPORATION, ETC.
Signature	Date	Company Name By Its	Burning Creek - Marrowbone Land Company Lopen C. Turner UP Date Loren S. June 1/20/24 Signature Date
			RECEIVED Office of Oil and Gas
			NOV 21 2024 WV Department of Environmental Protection

WW-9 (5/16)

API Number	47 -	059	
Operator's W	ell No	. Kermit No.	1

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Keyrook Energy LLC OP Code	
Watershed (HUC 10) 0507020106 Quadrangle Kermit	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No	
Will a pit be used? Yes No No	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes No If so, what ml.? 20 ml or greater	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a completed form WW-9-GPP) Underground Injection (UIC Permit Number Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain	
Will closed loop system be used? If so, describe: No	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air	
-If oil based, what type? Synthetic, petroleum, etc. N/A	*
Additives to be used in drilling medium? Minor freshwater to kill rock dust, as needed	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in pit, bury	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Lime and sawdust	
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.	ſ
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT is on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for o btain the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties submitting false information, including the possibility of fine or imprisonment.	t the law this
Company Official Signature nork Allamon	
Company Official (Typed Name) Mark Allaman	
Company Official Title Managing Director	
25th Daniel	
Subscribed and sworn before me this 20 11 day of UC+06-15, 20 24 Commonwealth of Pe My commission expires 12.17.2026 Notary Public County of VC/0	
Commonwealth of Pennsylvania - Notary Seal Katie Marie Sottiaux, Notary Public Venango County My commission expires December 17, 2026 Commission number 1342247	

Operator's Well No. Kermit No. 1

roposed Revegetation Treatmen	t: Acres Disturbed ~ 1 acre	Preveg etation	_{n pH} 6.2
Lime 3	Tons/acre or to correct to pH		
Fertilizer type 10-20-2	0 or equivalent		
Fertilizer amount 600		es/acre	
Mulch_ hay	2 Tons/	acre	
	0	336	
Тетрог		<u>d Mixtures</u> Per	manent
Seed Type	lbs/acre	Seed Type	lbs/acre
(y-31 tall fescue	40	Orchard grass	15
Alsike clover	5	Alsike clover	5
Annual ryegrass	15	(
an Approved by:	Gen -		
omments: /WM /se	of Struct		
			3.5
45-96-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-			
	2311 2316		
in I will		Date	
de: Lingle		Date:	

RECLAMATION PLAN NARRATIVE

In addition to Best Management Practices (BMPs) noted on the Site Plan, the following general practices may be utilized depending on field conditions:

- 1. Stabilization fabric and gravel shall be used in "soft" areas.
- 2. Areas where culverts are not being installed shall have water bars installed as per the Table II-3 from the "West Virginia Erosion and Sediment Control Field Manual" as shown below:

Table II-3Spacing of Cross Drains

Road Grade(%)	Distance Between Drains (Ft.)
1	400
2	250
5	135
10	80
15	60
20	45

Based on U.S. Forest Services requirement.

- 3. Extra care shall be taken when installing culverts in natural drains so as to control erosion and prevent sedimentation.
- 4. Gravel shall be placed in areas on the access road at the discretion of Keyrock Energy LLC so as to stabilize the road surface.
- 5. The seed mixture may be revised to another seed mixture if the surface owner and Keyrock Energy LLC would decide to change it.

WW-9- GPP Rev. 5/16

4705902268CBM
API Number 47 - 059 Operator's Well No. Kemit No. 1

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS GROUNDWATER PROTECTION PLAN

Operator	me: Keyrock Energy LLC
Watersh	HUC 10): 0507020106 Quad: Kermit
Farm Na	William Clay Heirs
1. List	procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the
chlori	er will be tested, aerated with lime to bring the pH to 7.0 plus. In the event of excessive s, the pit fluids will be evaluated to either dilute with freshwater or hauled to an ed disposal facility. Pit water will sit a minimum of ten days to let the solids precipitate
2. Desc	e procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above
the w	e drilling pit fluids are at an acceptable level for discharge, the pump intake line will be approximately 12" below the water level and the discharge line will be set up to disperse over the designated discharge area. The water will be sprayed in a back and forth so as not to oversaturate any given area.
3. List discl	closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the ge area.
Tug f	k and unnamed tributaries of Tug Fork
4. Sum	ze all activities at your facility that are already regulated for groundwater protection.
N/A	

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

ww	-9-	GPF
Rev.	5/1	6

	Page	2	of	2
API Number 47	7 - 059			
Operator's Well	No Kem	nit No. 1		

operators wen 140, restrict to 1
N/A
Provide a statement that no waste material will be used for deicing or fill material on the property.
No waste material will be used for deicing of fill material on the property.
Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.
All employees will be familiar with the contents of the groundwater protection plan and how to implement it. Work practices will support the protection of groundwater from contamination per company HSE policy.
Provide provisions and frequency for inspections of all GPP elements and equipment.
All GPP elements and equipment present will be inspected daily prior to use and in the event a problem should occur. Work will not commence until any problems/issues are remediated and documented.
ignature: Mark Allaman

WW-71CBM (Rev. 5/98)

COALBED METHANE WELL WORK PERMIT APPLICATION NOTICE BY PUBLICATION

Notice is hereby given:

Pursuant to West Virginia Code 22-21-9, notice is hereby given that the undersigned well operator-applicant proposes to file a Notice of an Application for a Coalbed Methane Well Permit, a plat or map showing the well location, and (unless the application is to plug a well) a Construction and Reclamation Plan with the Chief of the Office of Oil and Gas of the West Virginia Department of Environmental Protection, with respect to a well on the surface of a tract of land described as follows:

Acres 9.0	
Watershed Middle Burning Creek of Tug Fork	
District Kermit	
County Mingo	
Public road access WV County Route 52/3	
Generally used farm name William Clay Heirs	
The well work for which a permit is sought is generally described as follows:	
Drill a well into abandoned No. 2 Gas mine to produce methane gas.	RECEIVED
	Office of Oil and
	NOV 0 6 202
	WV Department
publication may be the only notice that surface, gas, coal; and coalbed methane owners of r	aniai fiv
Pursuant to West Virginia Code 22-21-10, (1) The owners of record of the surface of methane well is to be located; (2) The owners of record of the surface of any tract vor other land disturbance; (3) Each coal owner and each goal operator (3) from whom	which is to be utilized for

Pursuant to West Virginia Code 22-21-10, (1) The owners of record of the surface of the tract on which the coalbed methane well is to be located; (2) The owners of record of the surface of any tract which is to be utilized for roads or other land disturbance; (3) Each coal owner and each coal operator (i) from whom a consent and agreement provided for in 22-21-7 is required, or (ii) whose coal seam will be penetrated by the proposed coalbed methane well or is within seven hundred fifty feet of any portion of the well bore; and (4) Each owner and lessee of record and each operator of natural gas surrounding the well bore and existing in formations above the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whichever is shallower, may file comments with the chief as to the location or construction of the applicant's proposed well within fifteen days after the application is filed with the chief.

Pursuant to West Virginia Code 22-21-11 the owner or operator of any coal seam whose interests may be adversely affected by a coalbed methane well may, within fifteen days after the application is filed with the chief, file objections in writing to such proposed drilling with the chief, setting out the grounds on which such objections are based.

Copies of the Notice and Application and accompanying documents may be obtained from the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, 601 57th St., SE, Charleston, WV 25304 (Telephone (304)926-0450).

WELL OPERATOR-APPLICANT Keyrock Energy LLC
ADDRESS 207 East Main Street, Suite 2-D, Johnson City, TN 37604
TELEPHONE 304-573-9873

Ad Number 196714

Affidavit of Legal Publication and Posting

STATE OF WEST VIRGINIA

COUNTY OF Mingo, TO-WIT

I Elistra Willin, Classified Advertising

Representative of the The Williamson Daily News, a newspaper published in the county of Mingo, West Virginia, hereby certify that the annexed publication was inserted in said

newspaper _____

The cost of publishing said annexed advertisement

as aforesaid was \$ 129.63

Commencing On: 11/06/2024

Ending On: 11/13/2024

Given under my hand this day 11/13/2024

Sworn to and subscribed before me 11/13/2024 at Williamson, Mingo County, West Virginia

Carla Cashman

Notary Public of, in and for Mingo County, West Virginia

MY COMMISSION EXPIRES: Oct. 18, 2007



4705902268 CBM

Acc.ld:

9015106

Name:

KEYROCK ENERGY

LLC

Phone:

423-68-0213

Address:

PO BOX 2223

City:

JOHNSON CITY

State:

Postcode:

Class:

37605 9010

Legal Notices

Edition:

WDN WDN

Start:

11/06/2024

Stop:

11/13/2024

Issues: Units

2

Order ID:

150.0 HC 196714

TFN:

С

TFN cycle:

Rep:

EQUEEN

Status:

CF

Source:

EM

Paytype:

BI LG

Rate: **Cost EXC**

GST:

129.63

Tax:

0.00

Total Charge: 129.63

Printed on: 10/31/2024 11:45:32

Printed by: EQUEEN

County Mingo

Acres 90

Watershed

District Kermit

Public road access W County Route 52/3

Middle Burning Creek of Tug Fork

COALBED METHANE
WELL WORK PERMIT
APPLICATION NOTICE
BY PUBLICATION

Notice is hereby given:

Portice is hereby given:
Porsuant to West Virgin:
The Code 22 21 9, notice is hereby given that the undersigned well operator applicant proposes to file a Notice of an Application for a Coalbed Methane Well Permit, a plat or map showing the well location, and funless the application is to plug a well a Construction and Reclamation. Plan with the Chief of the Office of Oil and Gas of the West Virginia. Department of Environmental Protection, with respect to a well on the surface of a tract of and described as follows:

Acres 9.0

Generally used farm W am Clay Heirs

The well work for which a permit is sought is generally described as follows:

Drii a well into aban doned No. 2 Gas mine to produce methane gas.

This bublication may be the only notice that surface, gas, coal; and coallied methane own ers of record will re-

Fursuant to West Virginia. Code 22 21 10, (1). The owners of record of the surface of the tract on which the coalbed methane well is to be located; (2) The owners of record of the surface of any tract which is to be unliked for roads or other and disturbance; other and disturbance; (3) Each coal owner and (all Each coal owner and each coal operator (ill from whom a consent and agreement provided for n 2221 7 s required, or (iil whose coal seam will be penetrated by the proposed coal bed methane well or is writin seven hundred tith feet of accompanion.

4705902268 CBM

of the well pore; and (4) Each owner and essee of record and each operator of natural gas surrounding the well bore and existing in formations above the top of the uppermost member of the "Onondaiga Group" or at a depth less than six thousand feet, whichever is shall lower, may file comments with the chief as to the location of the applicant's proposed well within fifteen days after the application is filed with the chief.

Pursuant to West Virgin a Code 222111 the owner or operator of any coal seam whose interests may be adversely affected by a coalbed methane well may, within fifteen days after the application is field with the chief, file objections in writing to such proposed drilling with the chief, setting out the grounds on which such objections are based.

Copies of the Notice and Application and accompanying documents may be obtained from the Chief of the Office of Oil and Gas, West Virgin a Department of Environmental Protection, 601 57th St., SE, Charleston, WV 25304 (Telephone (304)926 0450).

WEL_ OPERATOR APPLICANT Keyrock Energy LLC

ADDRESS 207 East Main Street, Suite 2 D, Johnson City, TN 37604

TELEPHONE 304 573 9873

LH-196714 11-06,13;2024

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Well	No.	Kermit No.	1
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West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

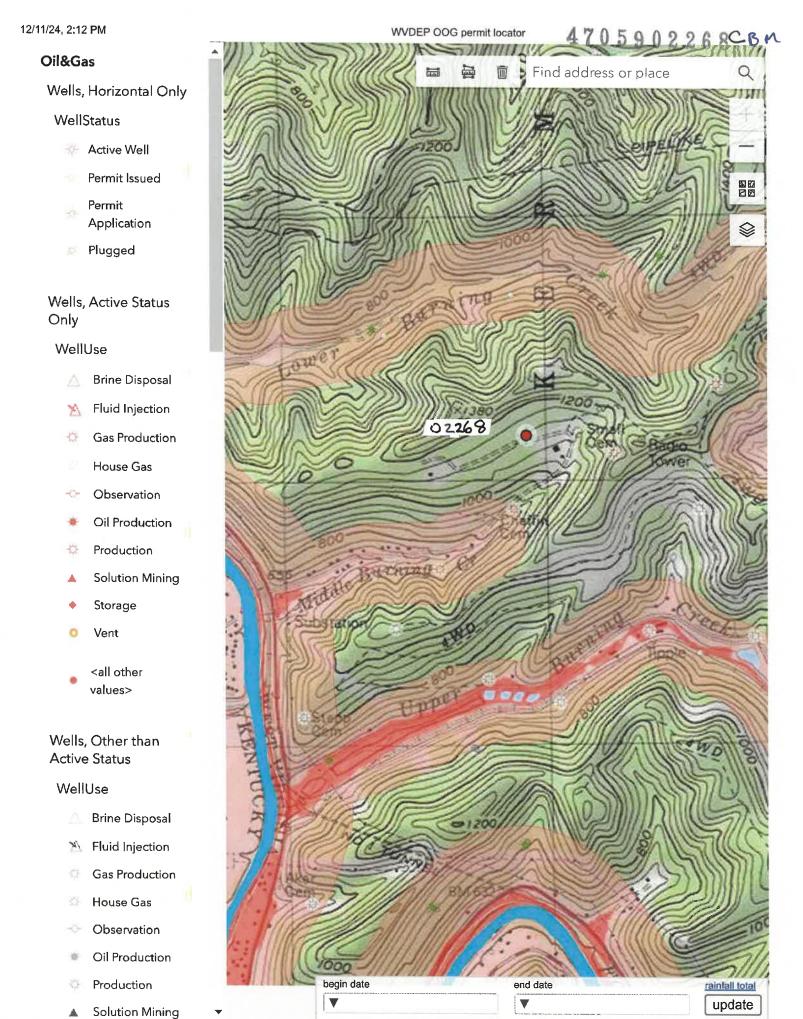
Be advised, you have the right to sample and analyze any water supply at your own expense.

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

X Contractor Name	Acculab, Inc.
Well operator's p	rivate laboratory
Well Operator	Keyrock Energy LLC
Address	PO Box 107
	Johnson City, TN 37604
Telephone	304-573-9873

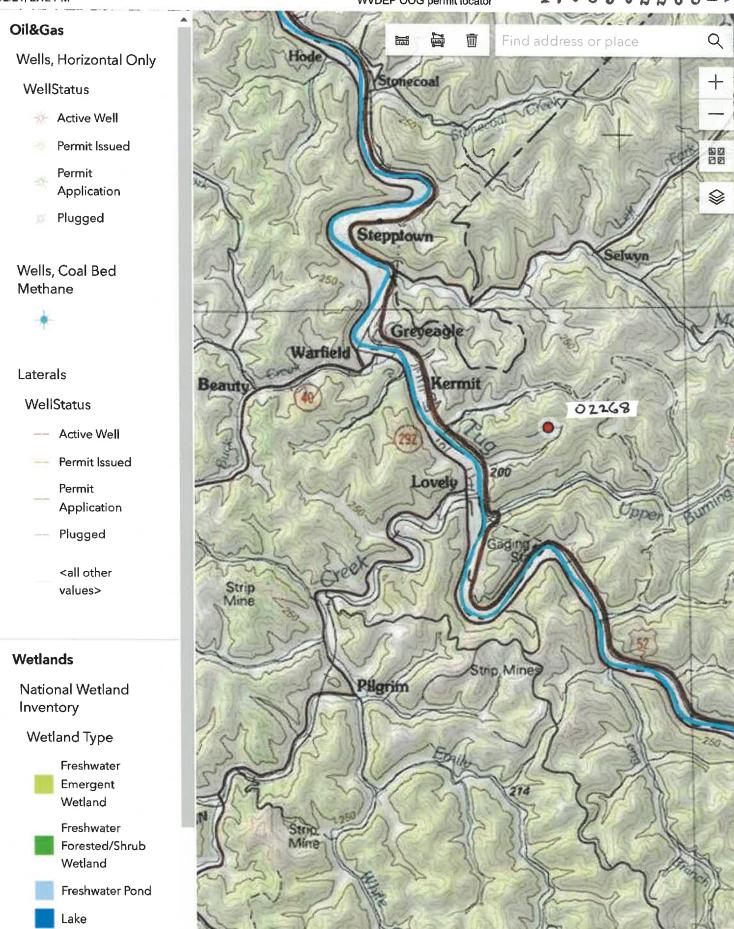
FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site please indicate such.

4000



Riverine

Other



begin date

deparcgis1/ooggis/index.html?x=377955.32&y=4188383.94&datum=NAD83&pntlabel=47-059-02268-00-00

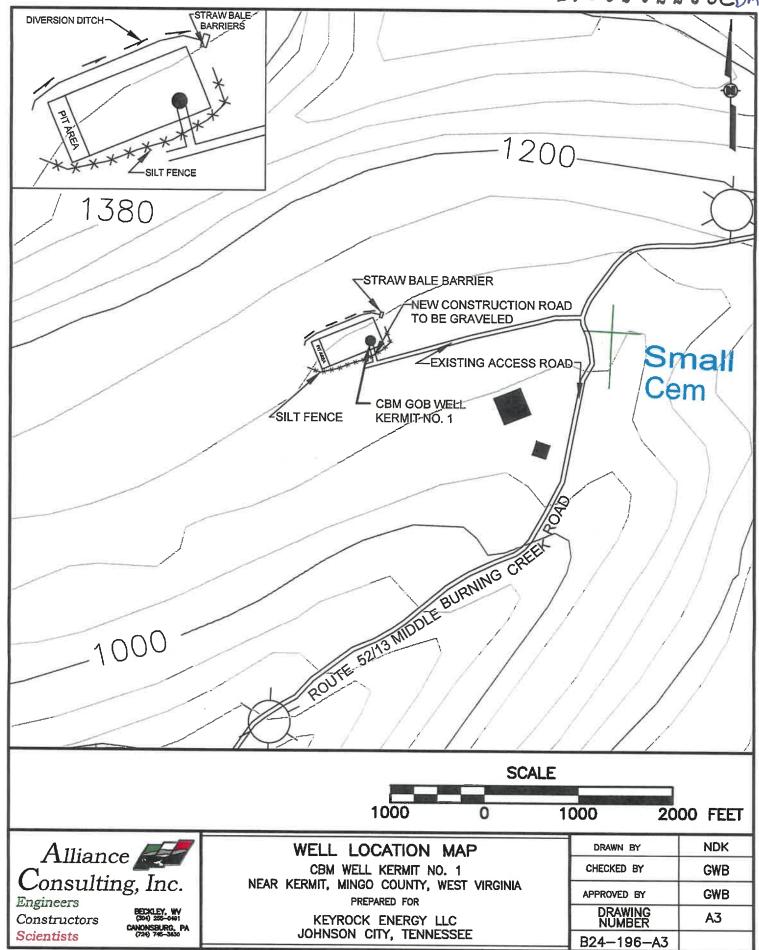
end date

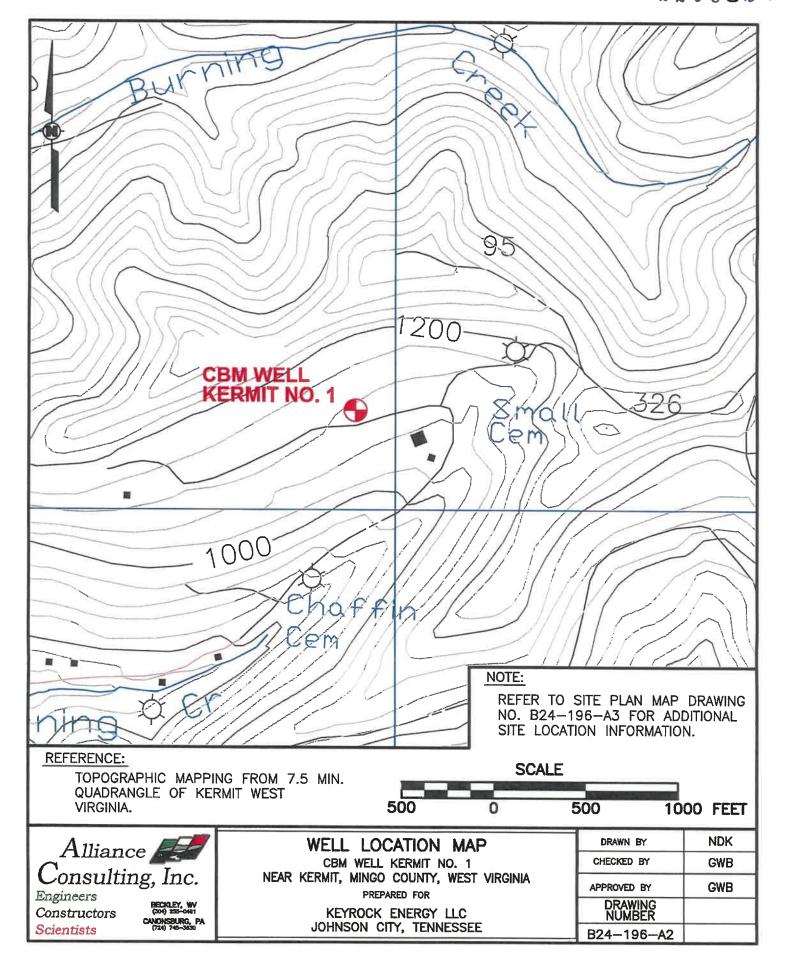
♥

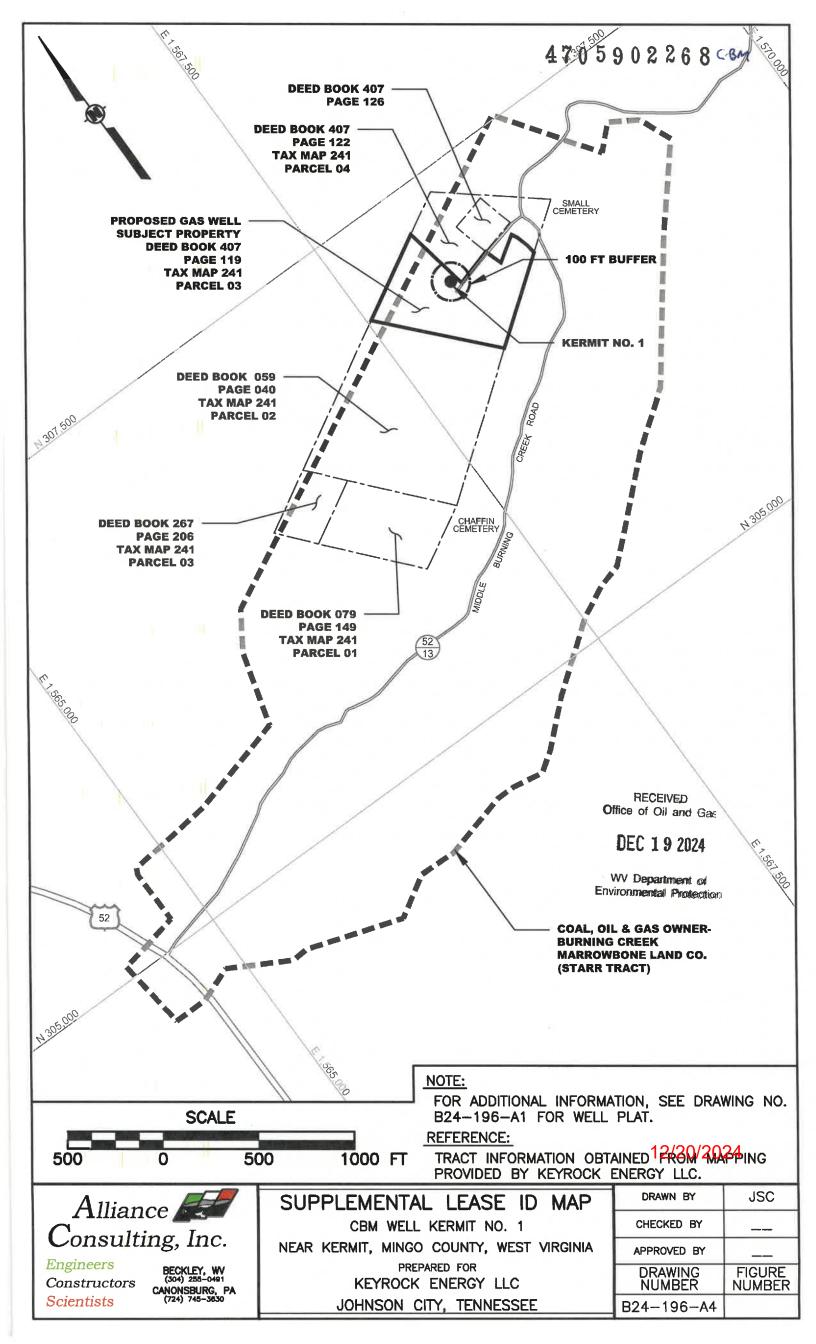
rainfall total

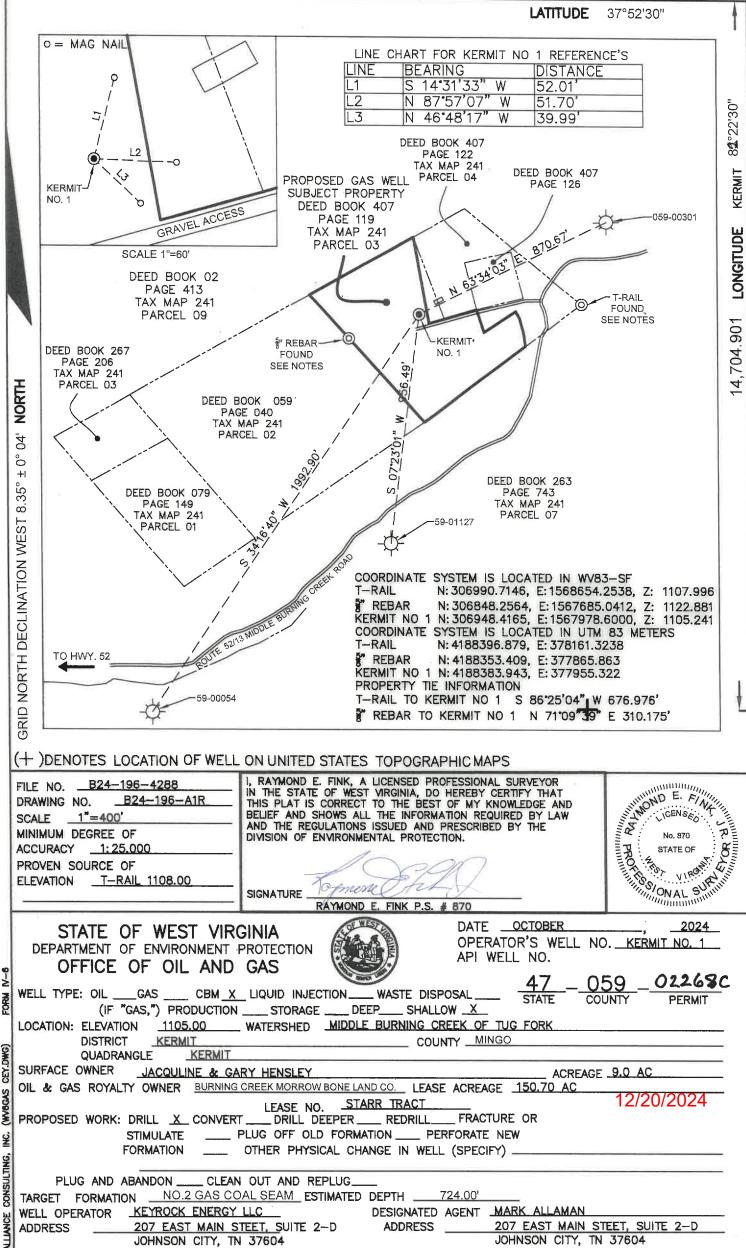
update

1/2









JOHNSON CITY, TN 37604

NORTH

9

0 +1

8.35°

NORTH DECLINATION WEST

GRID

JOHNSON CITY, TN 37604

November 1, 2024

Project No. B24-196-4288

Mr. James A. Martin, Chief WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION Office of Oil & Gas 601 57th Street SE Charleston, WV 25304

> Transmittal Coal Bed Methane Well Permit Application CBM Well Kermit No. 1 Near Kermit, Mingo County, West Virginia Keyrock Energy LLC Johnson City, Tennessee

RECEIVED Office of Oil and Gas

NOV 06 2024

WV Department of Environmental Protection

Dear Mr. Martin:

On behalf of our client, Keyrock Energy LLC (Keyrock), please find attached the permit application for Coal Bed Methane Well Kermit No. 1. The permit filing fee of \$900 is being paid by Keyrock by credit card.

Keyrock proposed well work shall consist of drilling a vertical coalbed methane (CBM) well into the underground workings of the abandoned No. 2 Gas Mine. No horizontal drilling is being proposed.

The return receipt notice of this permit application to the parties required to receive notice under West Virginia Code § 22-21-9 for the coal bed methane well will be forwarded to your office upon receipt. Additionally, the advertisement and affidavit of publication shall be forwarded to your office upon receipt from the newspaper. The advertisement is scheduled to be published in "Williamson Daily News" on November 6th and 13th 2024.

We trust the information provided herein is sufficient for your review. If you have any questions, please contact us.

Respectfully submitted,

ALLIANCE CONSULTING, INC.

Gary W. Boschain Project Manager

Enclosures

cc:

Joe Lane (Keyrock Energy LLC)

Mark Allaman (Keyrock Energy LLC)

FILE: 24196-01

124 Philpott Lane • Raleigh County Airport Industrial Park • Beaver, WV 25813-9502 • TELE: (304) 255-0491 • FAX (304) 255-4232



November 21, 2024

Project No. B24-196-4288

Mr. Jeff McLaughlin Permitting - Vertical Wells/Plugging WEST VĬRGINIA DEPARTMĔNŤ OF **ENVIRONMENTAL PROTECTION** Division of Oil & Gas 601 57th Street SE Charleston, WV 25304

> <u>Transmittal</u> Coal Bed Methane Well Permit Application
> CBM Well Kermit No. 1 Near Kermit, Mingo County, West Virginia Keyrock Energy LLC Johnson City, Tennessee

Dear Mr. McLaughlin:

On behalf of our client, Keyrock Energy LLC, please find enclosed the following information for the above-referenced permit application.

- 1. Form WW-5A signed by the surface owner Gary Lee and Jacquiline Hensley;
- 2. Form WW-5A signed by the coal owner/natural gas owner Burning Creek Marrowbone Land Company;
- 3. Form WW-2A signed by the coal owner/natural gas owner Burning Creek Marrowbone Land Company;
- 4. Copy of Newspaper advertisement/affidavit of publication; and,5. Copy of Certified Mail "green cards."

With the information provided in the initial permit application when it sent to the DEP - Office of Oil & Gas on November 1, 2024 and the information provided herein, all required permit documents should now have been submitted for this CBM well permit.

We trust the information provided herein is sufficient for your review. If you have any questions, please contact us.

Respectfully submitted,

 \pmb{A} lliance $\pmb{\pmb{C}}$ onsulting, Inc.

Gary W. Boschain Project Manager

Enclosures

Joe Lane (Keyrock Energy LLC)

Mark Allaman (Keyrock Energy LLC)

FILE: 24196-05

124 Philpott Lane • Raleigh County Airport Industrial Park • Beaver, WV 25813-9502 • TELE: (304) 255-0491 • FAX (304) 255-4232