

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 Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Tuesday, January 09, 2018 WELL WORK PERMIT Vertical / New Drill

KEYROCK ENERGY LLC 106 FERRELL AVENUE, SUITE 5

KINGSPORT, TN 37663

Re:

Permit approval for MOHR NO. 1

47-011-00998-00-00

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; MOHR NO. 1 Farm Name; BETTY J. MOHR TRUST U.S. WELL NUMBER: 47-011-00998-00-00

Vertical / New Drill

Date Issued: 1/9/2018

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW - 2B (Rev. 8/10)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

Ch#1	3693
\$605	

I) Well Operato	r: Keyro	ck Energ	y LLC	494507629	Cabell	Grant	Milton 7.5'
				Operator ID	County	District	Quadrangle
) Operator's W	ell Numb	er: Mohr	No. 1		3) Elevation:	640'	_
) Well Type: (a) Oil	_ or Ga	as X				
(b) If Gas:	Produ	iction X / Un	derground Sto	rage		
		Dee	p/ S	Shallow X			
) Proposed Ta) Proposed To) Approximate) Approximate	tal Depth fresh wa	: 3450' ter strata	a depths: 165'	Formation at F	Proposed Tai Proposed Total	rget Depth: al Depth: <u></u> -∘	3400' wer Huron
Approximate	coal sea	m depth	S: None			C	RECEIVED Office of Oil and G
O) Approximate	a void do	ntha /aa	al Varat ather)	None			NOV 3 0 2017
J) Approximate	e void de	pins,(co	al, Karst, other):	140110			WV Department of
1) Does land c	ontain co	al seam	s tributary to ac	tive mine? N	0	En	WV Department of vironmental Protection
3)		<u>C/</u>	ASING AND TUI	BING PROGR	AM		
TYPE S	PECIFIC	ATIONS		FOOTAGE	INTERVALS	S CEME	<u>ENT</u>
	<u>Size</u>	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (C	u. Ft.)
Conductor	13 3/8"			30'	30'	13 Cu. F	t., CTS
resh Water	9 5/8"			300'	300'	110 Cu. F	t., CTS
Coal							
ntermediate	7"			2125'	2125'	213 Cu. Ft., Ce	ment to 820'
Production	4 1/2"			3300'	3300'	145 Cu. Ft., Cer	ment to 2000'
Tubing	2 3/8"			3250'	3250'	Per WV D	EP Rule
Liners							
Packers: Kind Size						F 11	

WW-2A (Rev. 6-14)		1). Date:	10/3/17		
(1464. 0-14)			or's Well Number	ar Maha Ma	. 1
		2.) Operato			
		3.) API Wei	State II No.: 47-	County Cabell	Permit
	Salaria de			Cabell	
DED		WEST VIRGIN			3.2
DEP	ARTMENT OF ENVIRONMENTAL	PROTECTION	N, OFFICE OF	OIL AND G	
	NOTICE AND APPLICATION	IN FOR A WEL	L WORK PER	RMIT	RECEIVED Office of Oil and Gas
4) Surface Ov	wner(s) to be served: 5)	(a) Coal Operate	or		100000000000000000000000000000000000000
(a) Name	Betty J. Mohr Trust, C/O Fred		/A		NOV 3 0 2017
Address	3855 River Park Dr.	Address	/A		Demandment of
	Ona, WV 25545	_			WV Department of Environmental Protection
(b) Name		(b) Coal Owne	er(s) with Declar	ration	
Address					
		Address			
(c) Name		Name			
Address		Name Address			
Address		Address			
6) Inspector	Allen Flowers	(c) Coal Lesse	e with Declarat	ion	
Address	165 Grassy Lick Ln.	The second secon	one		
	Liberty, WV 25124	Address	2110		
Telephone	304-552-8308				
	TO THE PERSONS NAME	D ABOVE TAKE	NOTICE THAT	T:	
Included is t	he lease or leases or other continuing cor	ntract or contracts	by which I hold th	ne right to extra	ct oil and gas
OR Included is t	he information required by Charter 02, A.	#-I- C D- #- D/			
Included is t	he information required by Chapter 22, Ar that as required under Chapter 22-6 of t	ticle 6, Section 8(c	I) of the Code of	West Virginia (s	ee page 2)
application, a loc	cation plat, and accompanying documents	pages 1 through	on the above	ved copies of the	hy
_	Personal Service (Affidavit attached	3)		marrios partios	uj.
<u>X</u>		eceipt attached)			
I have so	Publication (Notice of Publication at	ttached)	CRAZ PAGE SHOOT	A STATE OF THE STATE OF	
issued under this	ead and understand Chapter 22-6 and 35	CSR 4, and I ag	ree to the terms	and conditions	of any permit
I certify	under penalty of law that I have persona	lly examined and	am familiar with	the information	submitted on
this application t	om, and all attachments, and that based	on my inquiry of	those individuals	s immediately re	asponsible for
imprisonment.	are that there are significant penalties for	submitting false in	formation, includ	ling the possibil	ity of fine and
2 1/	OF Well Operator Ka				11
= < TEN	OF Well Operator Kell Operator	hristopher Shea		4	The state of the s
= D: N	OTARY Its: O	perations Mana		200 / 5	
O. A	UBLIC Address: P.	O. Box 2223, 2	07 E. Main St	Suite 2-D	
3, 1/2	Jo	hnson City, TN	. 37605		
11, 67	Telephone: 42				
Subscribed and		hea@keyrocke	nergy.com		
1	sworn before me this 20 day of	OLTOBER		2017	
Mann	a cellule		Notary Publi	С	
My Commission					
on and Gas Privacy	NOTICE				

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 depprivacyofficer@wv.qov

WW.	-2A1	
(Rev.	1/11)

Operator's	Well	Number	Mohr No.	
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INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	
Betty J. Mohr Trust, C/O Fred D. Mohr	Keyrock Energy LLC	1/8	391/256	

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be ac quired from the appr opriate aut hority before the affected activity is initiated.

Well Operator:

Christopher Shea

By: Its:

Keyrock Energy LLC
Operations Manager

RECEIVED Office of Oil and Gas

NOV 3 0 2017

WV Department of 1/2/2018 Environmental Protection

Phyllis Smith
CAPELL County 02:08:24 PM
Instrument No 5948826
Date Recorded 09/29/2017
Document Type 806
Pages Recorded 11
Book-Page 391-256
Recording Fee \$11.00
Additional \$7.00

OIL AND GAS LEASE (PAID UP)

This Agreement is made as of the 19th day of July, 2017, by and between Fred Douglas Mohr, of 3855 River Park Dr., Ona, West Virginia 25545; Teresa Elaine Mohr Delaney, formerly known as Teresa Elaine Mohr McDonie, of 7206 Bronington Dr SW, Olympia, Washington, 98512; and Tammy Sue Mohr Neal, of PO Box 352, Ona, West Virginia, 25545, as Trustees of the Betty J. Mohr Trust recorded November 12, 2008, hereinafter called Lessors, and Keyrock Energy LLC whose address is P. O. Box 2223, Johnson City, TN 37605, hereinafter called Lessee.

1. Lessor, for and in consideration of \$10.00 and other good and valuable considerations, the receipt of which is hereby acknowledged, and the covenants and agreements of the Lessee hereinafter contained, does hereby grant, lease and let unto Lessee the land described below, including all interests therein Lessor may acquire by operation of law, reversion or otherwise, (herein called "said land"), exclusively, for the purposes of exploring by geophysical and other methods, drilling and producing oil and/or gas, together with all rights, privileges and easements useful or convenient in connection with the foregoing and in connection with treating, storing, caring for, transporting and removing oil and/or gas produced from said land or any other land including without limitation lands pooled or unitized under the terms of this lease, including but not limited to rights to lay pipelines for the transport of oil, gas and water from the subject lands and others, regardless of the sources of such production or location of the wells, which right to transport of oil, gas and water from other lands across the subject lands shall survive the term of this Lease for so long as the transportation of such oil, gas and water may be desired by the Lessee, to build roads, and construct tanks, power and communication lines, pump and power stations, and other structures and facilities. Said land is in the County of Cabell, State of West Virginia and bounded substantially by the lands now and/or formerly owned as follows:

Tract 1: 03-24-17-82.25 acres;

North by lands of: Ronald Lewis; Alberta Peyton; Doloris Frye

East by lands of: Landy Chapman; Winston Chapman

South by lands of: Bernard Mitchell; Brent Manchester; Left Fork Fudges Creek Rd. West by lands of: Doloris Frye; Christine Vasquez; Roger Noe; Bernard Mitchell

being all that certain tract of land situated in the Township, Borough or District of Grant and further identified as Tax Parcel 03-24-17 being all the property owned by Lessor or to which the Lessor may have any rights in said Grant Township, Borough or District or adjoining Township, Borough or District containing Eighty Two & 25/100 (82.25) acres, more or less, and being the property described in Official Will Book 188 Page 529 in the office of the County Recorder of the aforesaid county. It is intended hereby to include herein all the lands and interests therein contiguous to or appurtenant to the above described land now owned or claimed or hereafter acquired by Lessor up to the boundaries of any abutting landowners (including any vacancies), together with any and all of Lessor's interest in any lands underlying lakes, streams, roads, easements and rights-of-way which cross or adjoin the Land, including all land Received added thereto by accretion.

DEC 7 2017

2. This lease shall be for a term of three (3) years (hereinafter called the "primary term"), from the date first weight mental Protection above, and for as long thereafter as oil or gas is produced or is capable of being produced from the Land or lands with which the Land is pooled, consolidated, or unitized hereunder, or for so long as Lessor is engaged in drilling operations or reworking operations on the Land or on lands pooled, consolidated or unitized therewith, or for so long as this

WW-2B1	
(5-12)	

Well	No.	Mohr No. 1	

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.

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

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name Reliance Labs

Sampling Contractor

SLS Land & Energy Development

Well Operator

Keyrock Energy LLC

Address

P.O. Box 2223, 207 E. Main St., Suite 2-D

Johnson City, TN 37605

Telephone

423-726-2070

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, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

There appears to be zero (0) potable water sources within 2000' of the proposed well. Samples were offered to anyone within this radius. RECEIVED

SEE ATTACHED LIST OF CONTACTED SURFACE OWNERS OR OCCUPANTS WITHIN 2000' RADIUS

DEC 2 3 7017

Office of Oil and Gas



Water Purveyor Information Sheet

Site Number: Distance	e from Gas Well (feet):	
Surface Owner / Occupant:	Paula Bledsoe	
Address: 830 Fudges Ci	reek Rd., Barboursville, WV 25504 Phone #: Unknown	<u>()</u>
Field Located Date:	Owner home during survey (yes/no):	
Coordinates:	(decimal degrees – NAD 83)	
Comments: No response	to certified letter or site visits as of 12/4/17. TM 24 Par.	22
Site Number: Distance	e from Gas Well (feet):	
Surface Owner / Occupant:	Rhonda Adkins	
Address: 820 Fudges Cre	ek Rd., Barboursville, WV 25504 Phone #: Unknown	
Field Located Date:	Owner home during survey (yes/no):	
Coordinates:	(decimal degrees – NAD 83)	
Comments: No response	to certified letter or site visit as of 12/4/17, TM 24 Par. 2	23.5
Site Number: Distance	e from Gas Well (feet):	OVE RECEIVE
Surface Owner / Occupant:	Alfredo & Christine A Vazquez	Office of Oil and Gas
Address: 824 Fudges Cree	ek Rd., Barboursville, WV 25504 Phone #: Unknown	DEC 7 2017
	Owner home during survey (yes/no):	WV Department of Environmental Protection
Coordinates:	(decimal degrees – NAD 83)	
Comments: No response to	o certified letter or site visit as of 12/4/17, TM 24 Par. 23	3 & 23.3



Site Number: Distance from Gas Well (feet):	Land & Energy Develop Solutions from the ground up.	
Surface Owner / Occupant: Deborah G. Miller		
Address: 855 Fudges Creek Rd., Barboursville, WV 25504	Phone #: <u>Unknown</u>	
Field Located Date: Owner home during sur	vey (yes/no):	
Coordinates: (decimal de	grees - NAD 83)	
Comments: No response to certified letter or site visit as of 1	2/4/17. TM 24 Par. 47	
Site Number: Distance from Gas Well (feet):		
Surface Owner / Occupant: Lee D. & Audra J Hale		
Address: 864 Fudges Creek Rd., Barboursville, WV 25504	Phone #: <u>Unknown</u>	
Field Located Date: Owner home during sur	vey (yes/no):	
Coordinates: (decimal de	grees – NAD 83)	
Comments: No response to certified letter or site visit as of	12/4/17. TM 24 Par. 58.18	<u>& 58.19</u>
Site Number: Distance from Gas Well (feet):		
Surface Owner / Occupant:James A. & Jilda Holton		
Address: 874 Fudges Creek Rd., Barboursville, WV 2550	4 Phone #: <u>Unknown</u>	
Field Located Date: Owner home during sur	vey (yes/no):	
Coordinates: (decimal de	grees – NAD 83)	Office of Oil and Gas
Comments: No response to certified letter or site visit as of	12/4/17. TM 24 Par. 58.16	DEC 7 2017
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sissurveys.com



Site Number: Distance from (feet):	Gas Well	Solutions from the g	
Surface Owner / Occupant:Timo!	thy B & Angela McCalliste	Ċ	
Address: 871 Fudges Creek Rd., Ba	arboursville, WV 25504	_Phone #: <u>Unkno</u>	wn
Field Located Date:	Owner home during surve	ey (yes/no);	_
Coordinates:	(decimal degi	rees – NAD 83)	
Comments: No response to cert	ified letter or site visit as o	f 12/4/17. TM 24 Pa	r. 48.2
Site Number: Distance from	Gas Well (feet):		
Surface Owner / Occupant: Brent /	A. Manchester		
Address: RR 2 Box 565 Milton, W	/ <u>25541</u> Phone #: <u>Un</u>	known	
Field Located Date:	Owner home during surve	ey (yes/no):	_
Coordinates:	(decimal degi	rees – NAD 83)	
Comments: No response to certifie	ed letter or site visit as of 1	2/4/17. TM 24 Par.	18
Site Number: Distance from	Gas Well (feet):	_	
Surface Owner / Occupant: Bernar	d W. Mitchell		
Address: 839 Fudges Creek Rd.,	Barboursville, WV 25504	_ Phone #: _ <u>Unknov</u>	<u>vn</u>
Field Located Date:	Owner home during surve	ey (yes/no):	-
Coordinates:	(decimal degi	rees - NAD 83)	
Comments: No response to certif	ied letter or site visit as of	12/4/17, TM 24 Par	. 48 Office of O.I and Gas DEC 7 2017
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WV Department of Environmental Frotection



Site Number: (feet):	_ Distance from Gas Well Solutions from the ground		
Surface Owner / Oc	cupant: Steve D. & Sharon L. Ray		
Address: 824 Fud	ges Creek Rd., Barboursville, WV 26351 Phone #: Unknow	<u>n</u>	
Field Located Date:	Owner home during survey (yes/no):		
Coordinates:	(decimal degrees – NAD 83)		
Comments: No res	ponse to certified letter or site visit as of 12/4/17. TM 24 Par. 23.4		
Site Number:	_ Distance from Gas Well (feet):		
Surface Owner / Oc	cupant: Susan E. Belcher		
Address: 270 Park	Ave FL 8 New York, NY 10017 Phone #: Unknown		
Field Located Date:	Owner home during survey (yes/no):		
Coordinates:	(decimal degrees – NAD 83)		
Comments: No re	esponse to certified letter or site visit as of 12/4/17. TM 24 Par. 43.	1	
Site Number:	Distance from Gas Well (feet):		
Surface Owner / Oc	cupant: Roger L. & Judy G. Noe		
Address: 830 Fu	udges Creek Rd., Barboursville. WV 25504 Phone #. Unknown	=	
Field Located Date:	Owner home during survey (yes/no):		
Coordinates:	(decimal degrees – NAD 83)		
Comments: No re	esponse to certified letter or site visit as of 12/4/17. TM 24 Par. 21	Office o	CEIVED i Oil and Gas
		DEC	7 2017
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Site Number: Distance from Gas Well (feet):		
Surface Owner / Occupant: Betty J Mohr Trust		
Address: 3855 River Park Dr. ONA, WV 25545 Phone #: Unknown		
Field Located Date: Owner home during survey (yes/no):		
Coordinates: (decimal degrees – NAD 83)		
Comments: No response to certified letter or site visit as of 12/4/17. TM 24 Par.17		
Site Number: Distance from Gas Well (feet):		
Surface Owner / Occupant: John Giompalo		
Address: 6203 Brenda CT Huntington, WV 25705 Phone #: Unknown		
Field Located Date: Owner home during survey (yes/no):		
Coordinates: (decimal degrees – NAD 83)		
Comments: No response to certified letter or site visit as of 12/4/17. TM 24 Par. 47.1 & 4	8.1	
Site Number: Distance from Gas Well (feet):		
Surface Owner / Occupant: Sharon Wallace		
Address: 872 Fudges Creek Rd., Barboursville, WV 25504 Phone #: Unknown		
Field Located Date; Owner home during survey (yes/no):		
Coordinates: (decimal degrees – NAD 83)		
Comments: No response to certified letter or site visit as of 12/4/17. TM 24 Par. 58.17	Office of	CEIVED Oil and Gas
	DEC	7 2017
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Site Number: Distance fr	om Gas Well (feet):	
Surface Owner / Occupant: Way	ne & Teresa Thacker	
Address: RR 2 Box 557 Milton, V	WV 25541_Phone #: Unknown	
Field Located Date:	Owner home during survey (yes/no):	_
Coordinates:	(decimal degrees – NAD 83)	
Comments: No response to	certified letter or site visit as of 12/4/17. TM 24 F	² ar. 58
Site Number: Distance from	om Gas Well (feet):	
Surface Owner / Occupant: Se	an M. & Angela K. Stuntz	
Address: 854 Fudge Creek Rd.	Barboursville, WV 25504 Phone #: Unkno	own
Field Located Date:	Owner home during survey (yes/no):	
Coordinates:	(decimal degrees – NAD 83)	
Comments: No response to ce	rtified letter or site visit as of 12/4/17. TM 24 Par	. 19
Site Number: Distance from	om Gas Well (feet):	
Surface Owner / Occupant:		
Address:	Phone #:	_
Field Located Date:	Owner home during survey (yes/no):	
	(decimal degrees – NAD 83)	Office of Oil and Gas
Comments:		—— DEC 7 2017
		WV Department of Environmental Protection

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WW-9 (5/16)

API Number 47 -	-	
Operator's Well No. Mohr No	1	

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

Operator Name Keyrock Energy LLC	OP Code 494507629
Watershed (HUC 10) Fudges Creek	Quadrangle Milton 7.5"
Do you anticipate using more than 5,000 bbls of water	to complete the proposed well work? Yes 7 No 7 9
Will a pit be used? Yes V No	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes _	No If so, what ml.? 20 mil
Proposed Disposal Method For Treated Pit Wa	astes:
Land Application (if selected	d provide a completed form WW-9-GPP)
	C Permit Number)
Reuse (at API Number Off Site Disposal (Supply for	orm 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 I	horizontal)? Air, freshwater, oil based, etc. Vertical, Air
-If oil based, what type? Synthetic, petroleum,	etc. N/A
Additives to be used in drilling medium? N/A	
Drill cuttings disposal method? Leave in pit, landfill, re	emoved offsite, etc. Leave in Pit
	will be used? (cement, lime, sawdust) Lime and sawdust
-Landfill or offsite name/permit number?	The state of the s
Permittee shall provide written notice to the Office of O West Virginia solid waste facility. The notice shall be p	oil and Cas of any load of drill cuttings or associated waste rejected at any provided within 24 hours of rejection and the permittee shall also disclose
where it was properly disposed.	To ridea within 24 hours of rejection and the permittee shall also discover
on April 1, 2016, by the Office of Oil and Gas of the V provisions of the permit are enforceable by law. Violation regulation can lead to enforcement action. I certify under penalty of law that I have perapplication form and all attachments thereto and that, but the information, I believe that the information is true, submitting false information, including the possibility of	ms and conditions of the GENERAL WATER POLLUTION PERMIT issued West Virginia Department of Environmental Protection. I understand that the ons of any term or condition of the general permit and/or other applicable law ersonally examined and am familiar with the information submitted on this ased on my inquiry of those individuals immediately responsible for obtaining accurate, and complete. I am aware that there are significant penulties to fine or imprisonment.
Company Official Signature 1011	THE STATE
Company Official (Typed Name) Christopher Shea	TENNESSEE NOTARY
Company Official Title Operations Manager	TENNE ARY NOTARY
	POBLIO CO
Subscribed and sworn before me this 26 d	ayor CLTOKER . 20 17 PORINGTON
Mounn Collecte	Notary Public
Managed Annual Control of the Contro	everyl a world
My commission expires Maked 33, 30,5	RECEIVED Office of Oil and Gas
40 8	Office of Oil and Gas

AF: 11-29.17

NOV 3 0 2017/12/2018

	11-	0
Operator's Well No. MOHR NO.	1	_
evegetation pH 6.2		

	ent: Acres Disturbed		Prevegetation pH 6	, ż
Lime3	Tons/acre or to co	prect to pH	6.5	
Fertilizer type 10-20-	20 or equivalent			
Fertilizer amount_	1/3 Ton	lbs/acre		
Mulch Hay		2 Tons/acre	-¥	
		Seed Mixtur	<u>es</u>	
Temp	orary	1	Permanen	t-
Seed Type	lbs/acre		Seed Type	lbs/acre
KY-31	40		Orchard Grass	15
Alsike Clover	5		Alsike Clover	5
Annual Rye	15	+		- Chair
an Approved by:	A/W	Flower	ers.	
an Approved by:	Allw.	Flower	المراج .	
Activities .	Allas,			
mments:	AH. A	otice 7	to the sta	
mments: A 8	AH. A L berg	otre of	to the sta	in begin
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Please I	Jorn J	Speero	Con Service Con S	torow
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API Number 47 -		Keyrock Energy I
Operator's Well N	o. Mohr No.1	

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

udges Creek Quad: Milton 7.5"
s used for the treatment and discharge of fluids. Include a list of all operations that could contaminate
tested, then aerated with lime being added to bring the ph to 7.0 plus. In the ve chlorides, the pit fluids will be evaluated to either dilute with fresh water or broved disposal facility. Pit water will sit a minimum of ten days to let the solid
es and equipment used to protect groundwater quality from the list of potential contaminant sources abo
pit fluids are at acceptable levels for discharge then the pumps intake line will ximately 12 ⁿ below the water level and the discharge line will be set up to er over the designated discharge area. The water will be sprayed in a back so as not to oversaturate any given area.
ter body, distance to closest water body, and distance from closest Well Head Protection Area to
224' ead Protection Area's in the vicinity.
rities at your facility that are already regulated for groundwater protection.

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

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lev. 5/16	API Number 47 Operator's Well No. Mohr No.1
No known groundwater quality da within 1000' of the proposed well	ata. Samples have been offered for non-public water sources
Provide a statement that no waste materia	al will be used for deicing or fill material on the property.
No waste material will be used for	or deicing or fill material on the property.
Describe the groundwater protection ins	struction and training to be provided to the employees. Job procedures shall undwater contamination.
All employees will be familiar with implement it. Work practices will a company HSE Policy.	n the contents of the groundwater protection plan and how to support the protection of groundwater from contamination per
Provide provisions and frequency for ins	spections of all GPP elements and equipment.
All GPP elements and equipment a problem. Work will not commen	t present will be inspected daily prior to use and in the event of nce until any problems are remediated and documented.
Signature:	At 11.29 10
Date:	

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