

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Monday, December 10, 2018 WELL WORK PERMIT Vertical / New Drill

KEYROCK ENERGY LLC PO BOX 2223

JOHNSON CITY, TN 37605

Re: Permit approval for TASSEN 5

47-011-01009-00-00

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: TASSEN 5

Farm Name: JACQUELINE TASSEN

U.S. WELL NUMBER: 47-011-01009-00-00

Vertical New Drill Date Issued: 12/10/2018



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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.
- 2. 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 on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

12/14/2018

WW - 2B (Rev. 8/10)

CK# 14877
ANT \$650
10/17/2018

STATE OF WEST VIRGINIA

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

1) Well Operato	r: Keyro	ck Energ	y LLC	494507629	Cabell	Grant	Milton 7.5'
				Operator ID	County	District	Quadrangl
2) Operator's W	ell Numb	er: Tasse	n No. 5		3) Elevation:	632'	_
) Well Type: (a) Oil_X	_ or Ga	IS				
(b) If Gas:	Produ	ction/ Und	derground Sto	rage		
		Deep	o/ S	Shallow X			
) Approximate	rresn wa	ter strata	Feet a depths: 66', 126', 126', 1761', fro	281, 4/1, 521, 5/1	Proposed Ta Proposed Tot from offset well 010	rget Depth: De tal Depth: De 006.	2,275' vonian Shale
) Approximate	coal sea	m depths	s: None				
				None			
u) Approximate	e voia de	pins,(co	al, Karst, other):	None	1		
1) Does land c	ontain co	al seam	s tributary to act	tive mine? N	0		
2) Describe prop	posed we	ll work ar	nd fracturing meth	ods in detail (a	ttach addition	al sheets if ne	eeded)
			a new well (estima	ted using 60k lbs	s. foam frac).		
/ill not produce fro	m the Mar	cellus For	mation			RECEIVE	ed Gas
					Oi	fice of Oil a	IIU Clas
3)		3.35.4	ASING AND TU		Tariff American Control	NOV 1 5 2	
TYPE S	PECIFIC		LOCKLING TO FLAT	FOOTAGE	INTERVAL	MV Departn	nent of
	<u>Size</u>	Grade	Weight per ft	For Drilling	Left in Well	FILTUDICO	@rFtection
Conductor	9 5/8"			30'	30'	20 Cu. F	t., CTS
Fresh Water	7"			630'	630'	102 Cu. F	t., CTS
Coal							
Intermediate							
Production	4 1/2"			2,275'	2,275'	233 Cu. F	t., CTS
Tubing	2 3/8"			2,225'	2,225'	Per WV D	EP Rule
Liners							
Packers: Kind Size					1.C	11-15	-208

WW-2A		1). Date	e:			
(Rev. 6-14)			The same of the same	N. In complete as in	- W. N.	N DEC
		2.) Ope	erator's Well	Number	<u>Tassen</u> County	No. 5 Permit
		3.) API	Well No.:	47	Cabell	·
DEP	ARTMENT OF ENVIRONMENT NOTICE AND APPLICAT		TION, OFFI			AS
4) Surface Ov	vner(s) to be served:	5) (a) Coal Op	erator			
(a) Name	Jacquiline R. Tassen Lunsford	and the second s	n/a			
Address	3153 Howells Mill Road W		184			
7 100.000	Ona, WV 25545	7	-			
(b) Name	Olia, VV 25545	(h) Coal C	Owner(s) with	Declarat	ion	
Address		Name	n/a	Decidial		
Addiess		Address	11/a			
		Address				
(c) Name		Name	-			
Address		Address	_			
/ tdd/ 000	÷	_ ///	-		R	eceived of Oil and Gas
) Inspector	Allen Flowers	(c) Coal I	essee with D)eclaration		of Oil and Gas
Address	165 Grassy Lick Ln.	Name		occiar atio		2 5 2018
Address		Address	none		.00.	20 2010
Talaukada	Liberty, WV 25124	Address			1 \/ \/	Department of
Telephone	304-552-8308 TO THE PERSONS NAM				Environt	Department of mental Protectio
Included is to a certify application, a local polication and a certify application is application in the certify this application is application in the infection and application and	under penalty of law that I have person form and all attachments, and that base ormation, I believe that the information ware that there are significant penalties	Article 6, Section of the West Virgonts pages 1 through the discount of the West Virgonts pages 1 through the discount of the west of the	on 8(d) of the ginia Code I hough on the ed) I I agree to the and am famility of those in eand complete alse information	Code of Whave serve ne above no ne terms a dividuals i e.	est Virginia (d copies of t amed parties and conditions ne information mmediately r	see page 2) this notice and by: s of any permit n submitted on esponsible for
		Keyrock Ene		10		
		Morgan Pate Geologist	May			
		P. O. Box 22	23 207 F	Main St	Suite 2-D	
	, idal cos.	Johnson City			Julio 2 D	amount.
	Telephone:	423-276-111			- 0	INA Y. SW.
		mpate@keyr		com	8	
Subscribed and	sworn before me this day of	Octobe	OK.	, 2	2018 = /	STATE
	15 Shister				E /	
MULA	y world		Note	ary Public	-01	TENNESSEE NOTARY
My Commission	Expires 7-9-3014				185	PUBLIC

Oil 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 Buties. 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.gov

WW-2A	Surface	Waiver
(4/16)		

SURFACE OWNER WAIVER

		THE STREET WAITER	
County	Cabell	Operator Operator well number	Keynock Energy LLC Tassen No. 5

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

RECEIVED
Office of Oil and Gas

OCT 2 5 2018

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

WV Department of Environmental Protection

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his 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 Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, 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.

The Chief 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;
- The proposed well work fails to protect fresh water sources or supplies;
- 5) 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. .".

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 Chief.

<u>List of Water Testing Laboratories.</u> The Office 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 Chief to obtain a copy.

<u>VOLUNTARY STATEMENT OF NO OBJECTION</u>

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ____ including a work order on Form WW2-B, a survey plat. WW-9, and a soil and erosion plan, all for proposed well work on my surface land 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 on those materials.

FOR EXECUTION BY A NATURAL PERSON	FOR	EXECUTION BY A CO	RPORATION, ETC.
Jacquelle Dassen Tensford Date	Company Name By	n/a	
Jacqueline Rlassen Lunstord	lts		Date
Print Name		Signature	Date

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Cabell		Tagger No. 5
Operator Keyrock Energy	Operator's Well Number	Tassen No. 5
INSTRUCTIONS TO CO	OAL OPERATOR, OWN	ER, OR LESSEE
To the coal operator, owner, or les any objection you wish to make or are req with the Chief of the Office of Oil and Gas by the Office. Mail objections to:	uired to make by WV Co	· · · · · · · · · · · · · · · · · · ·
Chief, Office of Oil and Gas Department of Environmental Protection 601 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654		
	WAIVER	
location has examined this proposed well location, the well location has been added work proposed to be done at this location, requirements of the West Virginia Code ar	location. If a mine map to the mine map. The uprovided, the well operand the governing regulation	undersigned has no objection to the ator has complied with all applicable ons.
FOR EXECUTION BY A NATURAL PERSON		ECUTION BY A CORPORATION, ETC.
Date	Company Name	
Signature	By Its	Date
	-0:	Data
	SI	gnature Date
		Office of Oil and Gas
		OCT WV Department of WV Department of Environmental Protection

WW.	-2	!A	1	
(Rev.	1	/1	1	١

Operator's Well Number	Tassen No. 5	
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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
Jacquiline R. Tassen Lunsford	Keyrock Energy LLC	1/8	391/234

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

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OCT 2 5 2018

WV Department of Environmental Protection

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:
D 14	

Keyrock Energy LLC

Morgan Pate

By: Its: Ge

Geologist

WW-2B	•
(5-12)	

Well	No.	Tassen No. 5	

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		Pace Analytical	
Sampling Contractor		True Line Surveying	
Well Operator	Marcalli Faran	21.0	RECEIVED Office of Oil and Gas
Well Operator Keyrock Energy		LLC	00T 0 F 2010
Address PO Box 2223			OCT 2 5 201 8
	Johnson City, T	N 37605	WW Department of
Telephone 423-276-1116			Environmental Protection

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.

SEE ATTACHMENT

WATER NOTICE FOR KEYROCK ENERGY, LLC WELL TASSEN 5

WATER SOURCES IDENTIFIED WITHIN 2,000' OF PROPOSED WELL SITE:

Tammy J. Pardue 2761 Collis Ave. Huntington, WV 25702 304 743-4266

Steven & Angela Kinder 591 Little Fudges Creek Road Barboursville, WV 25504

The above 2 water sources were not in working service on 10/22/18.

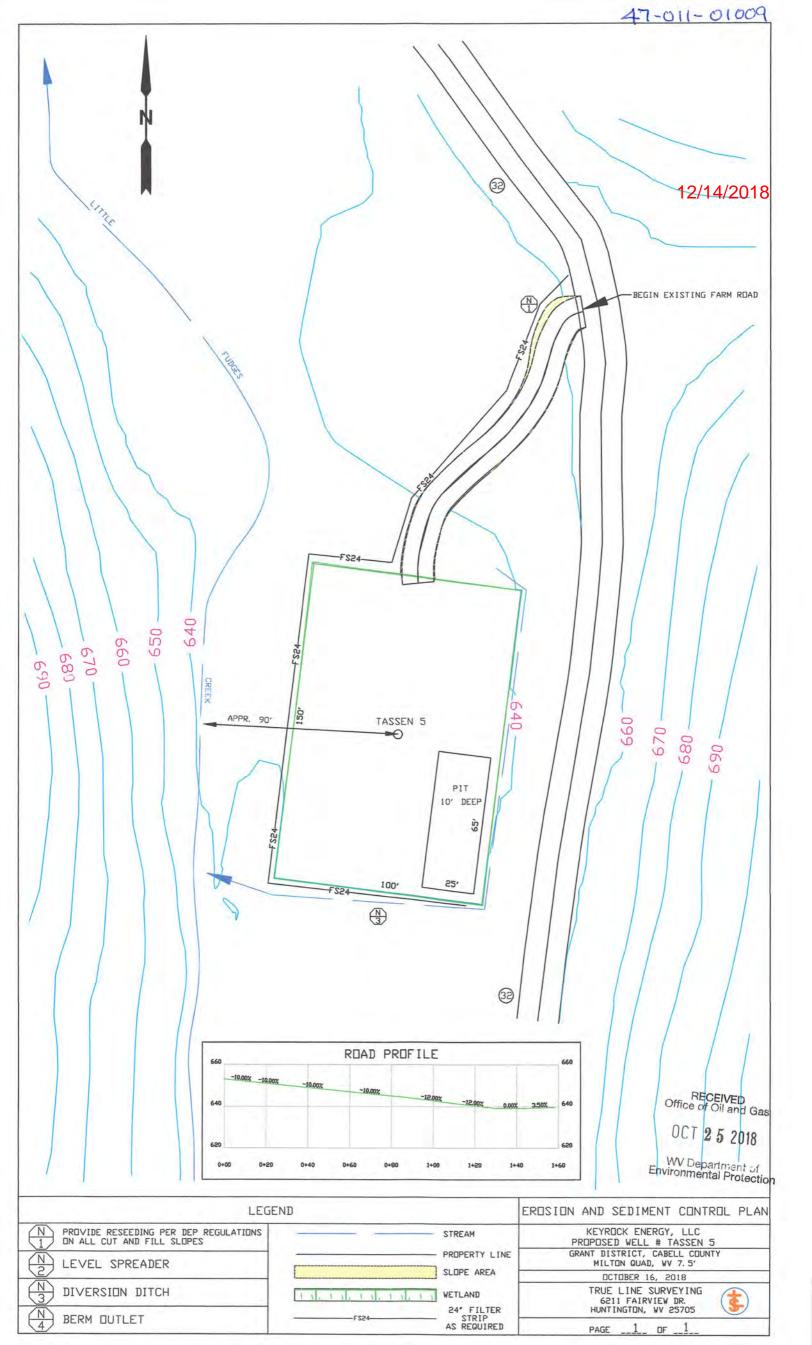
Belinda S. Brumfield 565 Little Fudges Creek Road Barboursville, WV 25504

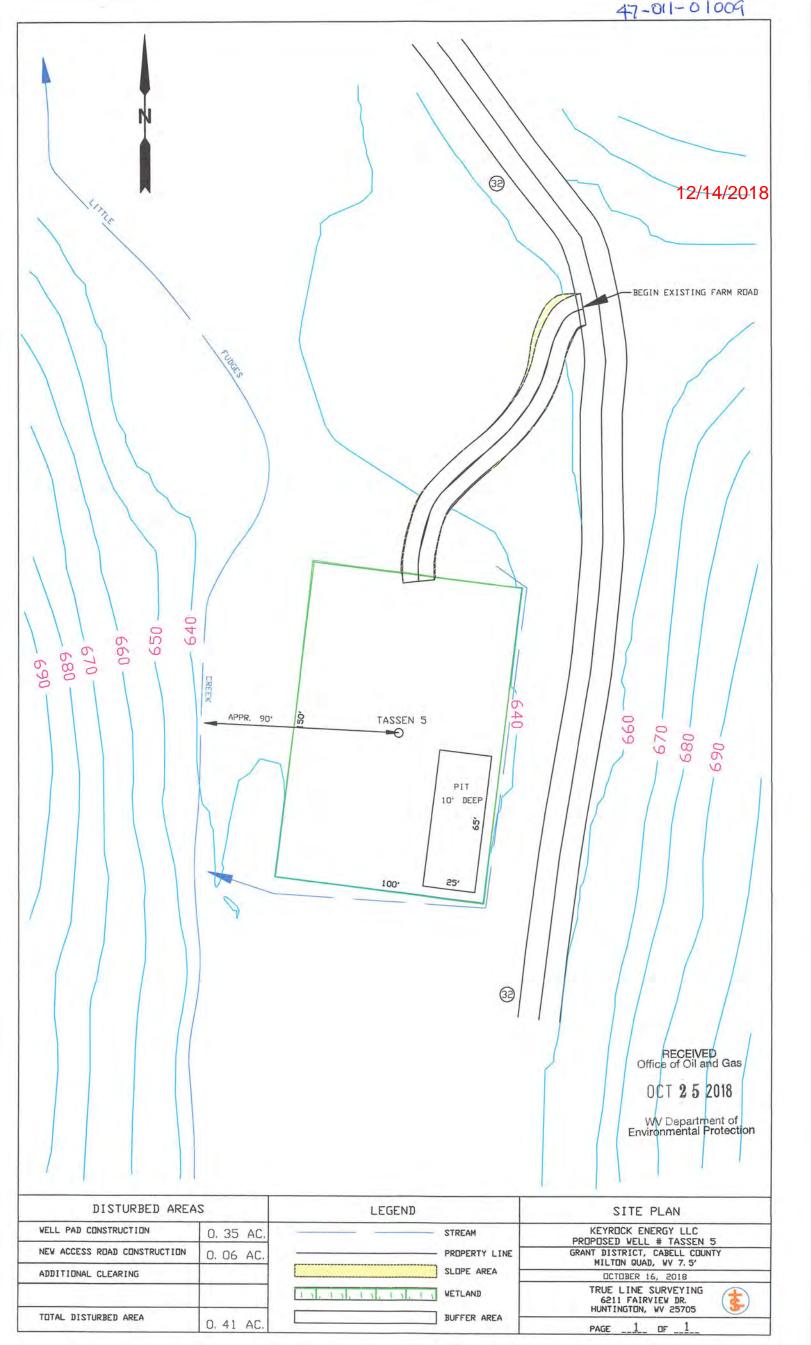
> RECEIVED Office of Oil and Gas

OCT 2 5 2018

WV Department of Environmental Protection

10/22/2018
TRUE LINE SURVEYING, INC.





API Number 47	011 -	01009
Operator's Well N	lo. Tassen No.	5

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) Little Fudges Creek	Quadrangle Milton 7.5'
Do you anticipate using more than 5,000 bbls of water to com	uplete the proposed well work? Yes No
Will a pit be used? Yes No No	
If so, please describe anticipated pit waste: Drill wa	ater, cement cuttings, rock dust
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? 20 mil
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected prov Underground Injection (UIC Pem Reuse (at API Number	
Off Site Disposal (Supply form W Other (Explain To BE	W-9 for disposal location) DETERMINED GWM
Will closed loop system be used? If so, describe: No	
Drilling medium anticipated for this well (vertical and horizon	ntal)? 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, remove	d offsite, etc. Leave in pit.
-If left in pit and plan to solidify what medium will b	be used? (cement, lime, sawdust) Lime & Sawdust
-Landfill or offsite name/permit number?	
West Virginia solid waste facility. The notice shall be provide where it was properly disposed. I certify that I understand and agree to the terms and on April 1, 2016, by the Office of Oil and Gas of the West V	d Gas of any load of drill cuttings or associated waste rejected at any ed within 24 hours of rejection and the permittee shall also disclose d conditions of the GENERAL WATER POLLUTION PERMIT issued Virginia Department of Environmental Protection. 1 understand that the
or regulation can lead to enforcement action. I certify under penalty of law that I have persona application form and all attachments thereto and that, based o	
Company Official Signature	WV Department of
Company Official (Typed Name) Morgan Pate	Environmental Protection
Company Official Title Geologist	William,
Subscribed and sworn before me this	Octder , 20 18 STATE TENNESSEE NOTARY
My commission expires	NOTARY PUBLIC

Operator's Well No. Tassen No. 5

4-9	ment: Acres Disturbed	Preveg etation	
Lime 3	Tons/acre or to con	rect to pH 6.5	
Fertilizer type 10-2	20-20 equivalent	<u> </u>	
Fertilizer amount_1/	/3 Ton	lbs/acre	
Mulch Hay		2 Tons/acre	
		Seed Mixtures	
Te	mporary		manent
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
Maps(s) of road, location, pit provided). If water from the L, W), and area in acres, of	pit will be land applied, p the land application area		
Maps(s) of road, location, pit provided). If water from the L. W), and area in acres, of Photocopied section of invol-	pit will be land applied, p the land application area	orovide water volume, include dimensions (L, W, D) of the pit, and dimensions
Maps(s) of road, location, pit provided). If water from the L. W), and area in acres, of Photocopied section of invol-	pit will be land applied, p the land application area	orovide water volume, include dimensions (
Maps(s) of road, location, pit provided). If water from the L, W), and area in acres, of Photocopied section of invol- Plan Approved by:	pit will be land applied, p the land application area	orovide water volume, include dimensions (L, W, D) of the pit, and dimensions
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	pit will be land applied, p the land application area	orovide water volume, include dimensions (RECEIVED Office of Oil and Ga
Maps(s) of road, location, pit provided). If water from the p L, W), and area in acres, of Photocopied section of invol- Plan Approved by:	pit will be land applied, p the land application area	orovide water volume, include dimensions (RECEIVED Office of Oil and Ga NOV 1.5 2018 WV Department of Environmental Protect

47 011-01009

WILL NOT LAND APPLY FOR THIS WELL,

12/14/2018

WW-9- GPP Rev. 5/16 Page _1 ___ of _2

API Number 47 - ___
Operator's Well No, Tassen No. 5

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

Operator Name: Keyrock Energy LLC	The state of the s
Vatershed (HUC 10): Little Fudges Creek	Quad: Milton 7.5'
arm Name: Jacquiline R. Tassen Lunsford	
 List the procedures used for the treatment and discharg groundwater. 	ge of fluids. Include a list of all operations that could contaminate the
event of excessive chlorides, the pit fluids w	ne being added to bring the ph to 7.0 plus. In the rill be evaluated to either dilute with fresh water or water will sit a minimum of ten days to let the
Describe procedures and equipment used to protect gro	undwater quality from the list of potential contaminant sources abov
be floated approximately 12" below the water	levels for discharge then the pumps intake line will er level and the discharge line will be set up to harge area. The water will be sprayed in a back any given area.
 List the closest water body, distance to closest water discharge area. 	body, and distance from closest Well Head Protection Area to the
Little Fudges Creek: 90' No known well head protection areas in the	vicinity.
Summarize all activities at your facility that are already	Office of Oil
n/a	OCT 2 5

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

WW-9- GPP Rev. 5/16

	Page 2	of 2
API Number 47		
Operator's Well N	No. Tassen M	No. 5

ev. 5/10	Operator's Well No. Tassen No. 5
No known groundwater quality dat within 1000' of the proposed well.	ta. Samples have been offered for non-public water sources
. 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 or fill material on the property.
. Describe the groundwater protection instruction provide direction on how to prevent ground	ruction and training to be provided to the employees. Job procedures shall indwater contamination.
	the contents of the groundwater protection plan and how to support the protection of groundwater from contamination per
Provide provisions and frequency for insp	pections of all GPP elements and equipment.
All GPP elements and equipment	present will be inspected daily prior to use and in the event of ice until any problems are remediated and documented.
Signature:	
Date: 10/19/18	

