

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

June 02, 2014

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-8510126, issued to TERM ENERGY CORP., 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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 feet free to contact me at (304) 926-0499 ext. 1654.

Chief

Operator's Well No: MCCULLOUGH NO. 2

Farm Name: MCCULLOUGH, PATRICIA L.

API Well Number: 47-8510126 Permit Type: Vertical Well

Date Issued: 06/02/2014

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.



- 8. Pursuant to 35 CSR § 4-19.1.c, if the operator is unable to sample and analyze any water well or spring within 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.

WW - 2B (Rev. 8/10) CK 2796

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

	WELL WORK PER	RMIT APPLIC	SATION	2	393
1) Well Operator:	TERM Energy Corporation	306756	Ritchie	Grant	Harrisville
		Operator ID	County	District	Quadrangle
2) Operator's Wel	Number: McCullough # 2		3) Elevation:	897'	
i) Well Type: (a)	Oil_X or GasX				
(b) I	f Gas: Production X / Unde	erground Stor	rage		
	Deep/ Sh	allow X			
 Proposed Total Approximate free 	et Formation(s): Gordon Depth: 2800' Feet Formation esh water strata depths: 120' alt water depths: 1170'	Formation at P	Proposed Ta Proposed Tot		
) Approximate co	pal seam depths: None				
	and the second of the second of	Jone			
0) Approximate	oid depths,(coal, Karst, other): <u></u>	10110			
	void depths,(coal, Karst, other): <u>h</u> ntain coal seams tributary to activ		0		
Does land cor Describe propo		ve mine? No	tach additiona		

CASING AND TUBING PROGRAM

TYPE S	SPECIFIC	ATIONS		FOOTAGE	INTERVALS	<u>CEMENT</u>
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	9 5/8"	R-2	26#	30'	30'	Grout to surface
Fresh Water	7"	R-3	17#	350'	350'	To surface
Coal						MAY 1 9 2014
Intermediate					WV	Department of
Production	4 1/2"	R - 3	10.5#	2800'		1800 (248culft)
Tubing						
Liners						

Packers: Kind: NA

13)

Sizes: NA

Depths Set NA

Dud-06/06/2014

WW-2	2A
(Rev.	6-07)

1). Date:			
2.) Operator's Wel	l Number	McCullough #	12
	State	County	Permit
3 \ API Well No .	47-	195	

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

A al al	Patricia L. McCullough		Addison
Address	47 Farrow Hill Road		Address
	Davisville, WV 26142-888	9	4.6.16.
(b) Name			(b) Coal Owner(s) with Declaration
Address			Name
			Address
(c) Name			Name
Address			Address
Chamantan	27112		(a) Coal Lagger with Declaration
Inspector	David Cowan		(c) Coal Lessee with Declaration
Address	1597 Devil Hole Road		Name
4.0	Harrisville, WV 26362		Address
Telephone	304-389-3509		
- T- TT- 10	TO THE	PERSONS NA	MED ABOVE TAKE NOTICE THAT: contract or contracts by which I hold the right to extract oil and gas
Included is the I certify to plication, a local	hat as required under ation plat, and accom × Personal Servic Certified Mail (F	er Chapter 22-6 npanying docume ce (Affidavit attac Postmarked post	al receipt attached)
Included is the I certify to plication, a local	hat as required under ation plat, and accommod Personal Service Certified Mail (Foundation (No ad and understand Capplication. Index penalty of law orm and all attachmer mation, I believe that	er Chapter 22-6 npanying docume ce (Affidavit attace Postmarked post tice of Publicatio hapter 22-6 and that I have pers ents, and that ba it the information hificant penalties	of the West Virginia Code I have served copies of this notice and ents pages 1 through on the above named parties by: ched) al receipt attached) al receipt attached) at 35 CSR 4, and I agree to the terms and conditions of any permit conally examined and am familiar with the information submitted on used on my inquiry of those individuals immediately responsible for is true, accurate and complete. for submitting false information, including the possibility of fine and
Included is the I certify to polication, a local leading to the polication, a local leading the sued under this I certify used to taining the information I am aware in the leading the le	hat as required under ation plat, and accommod Personal Service Certified Mail (Foundation (No ad and understand Capplication. Index penalty of law orm and all attachmer mation, I believe that	er Chapter 22-6 panying docume ce (Affidavit attace Postmarked post tice of Publicatio hapter 22-6 and that I have pers ents, and that ba to the information inficant penalties Well Operator	of the West Virginia Code I have served copies of this notice and ents pages 1 through on the above named parties by: ched) all receipt attached) all receipt attached) all 35 CSR 4, and I agree to the terms and conditions of any permit conally examined and am familiar with the information submitted on issed on my inquiry of those individuals immediately responsible for is true, accurate and complete. for submitting false information, including the possibility of fine and
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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.gov

		SURFACE	OWNER WAIVER	
County	Ritchie	Ор	erator	TERM Energy Corporation
		Op	erator well number	McCullough # 2
	INSTRUCT	IONS TO SUPEACE	OWNERS NAMED ON I	PAGE WW2.A
	INSTRUCT	IONS TO SURFACE	OWNERS NAMED ON	-AGE WWZ-A
If the surface appeared on be the only permits are v	e tract is owned by mor the Sheriff's tax ticket o owner who will actually valid for 24 months. If y nmediately if you know wo NOTE:	e than three persons on the land or because receive these mater ou do not own any in who it is. Also, please YOU ARE NOT REQ	then these materials we you actually occupy the ials.) See Chapter 22 of terest in the surface trace	
01:-1.05	10110			
	of Oil and Gas of Environmental Protec	tion		
601 57th St. S	SE			
Charleston, V				
(304) 926-04 Time Limits		comments. The lav	v requires these material	s to be served on or before the date the
be sure of thandling. If the planned of the planned well operator from the app The	he dat e. C heck with y you have been contacte work described in these ments must be in writ 's name and well numb lication. You may add o Chief has the power to o The proposed well work	your pos tmaster to end by the well operator materials, then the peting. Your comments and the approximation of condition a we will constitute a hazar	ns ure a dequate delivery rand you have signed a ermit may be issued at ar is must include your nam te location of the propose as sketches, maps or pl	ne, address and telephone number, the ed well site including district and county hotographs to support your comments, comments on the following grounds; is.
3) [Damage would occur to	publicly owned lands	or resources;	
5)	The applicant has commore of the rules promul	nitted a substantial vi lgated under Chapter	22, and has failed to aba	rmit or a substantial violation of one or ate or seek review of the violation". rder denying the permit, you should
	ppy from the Chief.		W . 7	
	vater to establish water of	quality prior to and aft	maintains a list of water er drilling. Contact the C MENT OF NO OBJECTI	
Application for	eby state that I have rea or a Well Work Permit or rm WW2-B, a s urvey p	ad the instructions to	surface owners and that attachments consisting of	I have received copies of a Notice and of pages 1 through including a work osed well work on my surface land as
I furt			ed work described in the	ese materials, and I have no objection to
FOR EXECU	ITION BY A NATURAL I	PERSON	FOR EXEC	CUTION BY A CORPORATION, ETC.

Company Name By Its PATRICIA L Mc Collough Date WV Department of Da Signature Vironmental Protection Print Name

Operator's	Well Number	McCullough # 1
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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
Carl L. Friedley etal	Ritchie Petroleum Corporation, Inc.	1/8	134/387
Ritchie Petroleum Corporation, Inc.	TERM Energy Corporation	1/8	253/1074

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 he reby 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 overfides 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 MAY 1 9 2014 initiated.

> Well Operator: By: Its:

Leroy Baker **Designated Agent**

TERM Energy Corporation

V	/W-2B1
(5-12)

McCullough # 2	
	McCullough # 2

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

Microbac Laboratories

Sampling Contractor

158 Starlight Drive, Marietta, Ohio 45750

Well Operator

TERM Energy Corporation

Address

713 East Main Street

Harrisville, WV 26362

Telephone

304-643-4500

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.

F THERE ARE NO WELLS OR SPRINGS
WITHIN LODO' THEN YOU MUST TEST
AT LEAST ONE WELL OR SPRING IF
THERE ARE ANY WITHIN 2000' FROM
PROPOSED WELL BEFORE SPUDGING.

Office of Oil and Gas

MAY I 8 2014

WV Department of Environmental Protection

MC 06/06/2012

WW-9 (5/13)

	Pa	ige of
API Number 47 -0	085	1
Operator's	Well No.	McCullough # 2

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_ TERM Energy	Corporation	OP Code 306756
Watershed (HUC 10) Addis	Run	Quadrangle Harrisville
Elevation 897'	County_Ritchie	District Grant
Do you anticipate using more	than 5,000 bbls of water to complete th	ne proposed well work? Yes NoX
Will a pit be used for drill cut	tings? Yes X No	
If so, please describe	anticipated pit waste: Drilling water -	Flowback fluid
Will a synthetic liner	be used in the pit? YesX No	If so, what ml.?20
Proposed Disposal N	Method For Treated Pit Wastes;	
Un Re Of	nd Application derground Injection (UIC Permit Numuse (at API Number f Site Disposal (Supply form WW-9 fother (Explain	r disposal location)
Will closed loop system be us	sed? No	
Orilling medium anticipated f	or this well? Air, freshwater, oil based	, etc. air
-If oil based, what ty	pe? Synthetic, petroleum, etc. NA	
Additives to be used in drillin	g medium? TD 200 Drilling Soap (if needed	d)
	l? Leave in pit, landfill, removed offsit	
		? (cement, lime, sawdust) None
on August 1, 2005, by the Off provisions of the permit are of law or regulation can lead to of I certify under pena application form and all atta obtaining the information, I	fice of Oil and Gas of the West Virginia enforceable by law. Violations of any enforcement action. Ity of law that I have personally exar achments thereto and that, based on	tions of the GENERAL WATER POLLUTION PERMIT issued a Department of Environmental Protection. I understand that the term or condition of the general permit and/or other applicable mined and am familiar with the information submitted on this my inquiry of those individuals immediately responsible for accurate, and complete. I am aware that there are significant fine or imprisonment.
Company Official (Typed Na	ime) Leroy Baker	
Company Official Title Desi		Office of Oil and Gas
Subscribed and sworn before	me this 16th day of 17	Day 20 / 4MAY I D 2014
Jean =	Trelland	Notary Public Day of Month Official SE
My commission expires	March 8, 2019	Environmental Protection Protection

Form WW-9		Opera	tor's Well No. McCullough #	
Proposed Reveretation Tres	atment: Acres Disturbed 1	.5 Provenetal	tion pH 6.0	
2		6.5	ion pri	
Linie	Tons/acre or to correc	et to pH		
Fertilizer (10-20-20) or equivalent) 500	lbs/acre (500 lbs minimum)		
_{Mulch} straw/	hay 2	_Tons/acre		
		Seed Mixtures		
Area I			Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre	
Ky - 31	40	Orchard Grass	40	
Clover	5	Clover	5	
Rye	15	Rye	15	
Plan Approved by:	Jan elan	of at	20.01/2	
Comments: PM	and 4 major	as an oria or	E fresh C	
ton per a	ou manufar	i al C45 due	in operation?	
<u> </u>			<u> </u>	
A				
Title: odved	is inselle	Date: 5-/6	-14	
Field Reviewed? (is inflets	Date:	RECENT-	
			RECEIVED Office of Oil and Ga	

WV Department of Environmental Protection

MAY 1 9 2014



