

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

May 20, 2014

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-8510116, 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 feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: RICHARDS 11

Farm Name: RICHARDS, LONNIE D. & MIRIA

API Well Number: 47-8510116 Permit Type: Vertical Well

Date Issued: 05/20/2014

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.
- 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 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)



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

DATE OF THE PARTY					85		392
) Well Operat	or: TERM	/ Energy	Corporation	306756	Ritchie	Grant	Harrisville
				Operator ID	County	District	Quadrangl
) Operator's V	Well Numb	per: L. Ric	chards 11		3) Elevation:	936'	,
Well Type: (a) Oil_X	or Ga	as X				
(b) If Gas:	Produ	iction X / Un	derground Sto	orage	_	
		Deep	p/ \$	Shallow X			
Proposed Ta					Proposed Ta		
) Proposed To) Approximate) Approximate	e fresh wa	ter strata		Formation at	Proposed Tot	al Depth; Gord	don.
) Approximate	e coal sea	m depth:	S; None				
			al, Karst, other):	None			
утрыолина	to void de	Puis,(000	ai, ixaiot, ouici)				_
1) Does land	contain co	al seam	s tributary to ac	tive mine? _h	lo		
and the facilities will be for the first	On the second		nd fracturing metlen and/or Gel water				
ill new well and	On the second	ith Nitroge	n and/or Gel water	r fracturing meth	ods. (Pit not exc		
Il new well and	On the second	ith Nitroge	n and/or Gel water	r fracturing meth	ods. (Pit not exc	eed 5000 barre	els water.)
ill new well and	stimulate wi	ith Nitroge	n and/or Gel water	r fracturing meth	ods. (Pit not exc	eed 5000 barre	els water.)
Ill new well and 3) TYPE	stimulate wi	ith Nitroge CA ATIONS	ASING AND TU	BING PROGR	ods. (Pit not exc RAM INTERVALS	eed 5000 barre	NT . Ft.)
3) TYPE S Conductor	SPECIFIC Size	cA ATIONS Grade	ASING AND TU	BING PROGR FOOTAGE	RAM INTERVALS	S CEME!	NT . Ft.) urface
ill new well and	SPECIFIC Size 9 5/8"	CA ATIONS Grade R - 2	ASING AND TU Weight per ft 26#	BING PROGE FOOTAGE For Drilling 30'	RAM INTERVALS Left in Well	CEME! Fill -up (Cu.	NT . Ft.) urface
3) TYPE S Conductor Fresh Water	SPECIFIC Size 9 5/8"	CA ATIONS Grade R - 2	ASING AND TU Weight per ft 26#	BING PROGE FOOTAGE For Drilling 30'	RAM INTERVALS Left in Well	CEME! Fill -up (Cu.	NT . Ft.) urface
TYPE S Conductor Fresh Water Coal ntermediate	SPECIFIC Size 9 5/8"	CA ATIONS Grade R - 2	ASING AND TU Weight per ft 26#	BING PROGE FOOTAGE For Drilling 30'	RAM INTERVALS Left in Well	CEMEI Fill -up (Cu. Grout to s To surf	NT . Ft.) urface ace
TYPE S Conductor Fresh Water Coal Intermediate Production	SPECIFIC Size 9 5/8" 7"	CA ATIONS Grade R - 2 R - 3	Weight per ft 26# 17#	BING PROGE FOOTAGE For Drilling 30' 350'	RAM INTERVALS Left in Well 30' 350'	Grout to s To surf	NT Ft.) urface ace
3) TYPE S Conductor Fresh Water Coal	SPECIFIC Size 9 5/8" 7"	CA ATIONS Grade R - 2 R - 3	Weight per ft 26# 17#	BING PROGE FOOTAGE For Drilling 30' 350'	RAM INTERVALS Left in Well 30' 350'	Grout to s To surf	NT . Ft.) urface ace
TYPE S Conductor Fresh Water Coal Intermediate Production Fubing	SPECIFIC Size 9 5/8" 7" 4 1/2"	CA ATIONS Grade R - 2 R - 3	Weight per ft 26# 17#	BING PROGE FOOTAGE For Drilling 30' 350'	RAM INTERVALS Left in Well 30' 350'	Grout to s To surf	NT . Ft.) urface ace Schiff) and Ga

David Wlave

05/23/2014

WW-2A (Rev. 6-07)

1). Date:			
2.) Operator's Wel	Number	L. Richards	11
	State	County	Permit
3 \ API Well No .	47-	085	4.3

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

4) Surface Ow	ner(s) to be served	t	5) (a) Coal Operator
(a) Name	Lonnie D. Richards et ux	W	Name
Address	413 S. Spring Street		Address
	Harrisville, WV 26362		
(b) Name			(b) Coal Owner(s) with Declaration
Address			Name
1 1521 202	-		Address
(c) Name			Name
Address	-		Address
Audiess	-		
6) Inchestor	David Cause		(c) Coal Lessee with Declaration
6) Inspector	David Cowan		
Address	1597 Devil Hole Road		Name
Granda Tra	Harrisville, WV 26362		Address
Telephone	304-389-3509		ta volume d e menero en la com
			MED ABOVE TAKE NOTICE THAT:
	he lease or leases or	other continuing	contract or contracts by which I hold the right to extract oil and gas
<u>OR</u>			
			2, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
			of the West Virginia Code I have served copies of this notice and
application, a loc			ents pages 1 through on the above named parties by:
_	x Personal Servi		
_			tal receipt attached)
Var. A		tice of Publication	
		hapter 22-6 and	d 35 CSR 4, and I agree to the terms and conditions of any permit
issued under this		near residence	The second secon
			sonally examined and am familiar with the information submitted on
			ased on my inquiry of those individuals immediately responsible for is true, accurate and complete.
			s for submitting false information, including the possibility of fine and
imprisonment.	are that there are sign	illicant penalties	To submitting talse information, including the possibility of fine and
imprisoritient.		Well Operator	TERM Energy Corporation
		By:	Leroy Baker
		Its:	Designated Agent
		Address	713 East Main Street
		1,100,000	Harnsville, WV 26362
		Telephone	304-643-4500
Subscribed and	sworn before me this		
A STATE OF THE PARTY OF THE PAR			
Lan	n =) rec	land	Notary Public Pu
My Commission	Expires 5770	1ch 8 20	0 19
Oil and Gas Privacy			Office of Oil and Gas
			My Commission Exercis March 8, 2019 My Commission Exercis March 8, 2019
The Office of Oil and	d Gas processes your pe	rsonal 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

Environmental Protection

SURFACE OWNER WAIVER

County	Ritchie	Operator	TERM Energy Corporation	
1.6		Operator well number	L. Richards 11	

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:

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

<u>Time Limits and methods for filing comments.</u> 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 a dequate 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;
- 4) 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.

VOLUNTARY STATEMENT OF NO OBJECTION

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 F orm WW2-B, a s urvey plat, and a s oil 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	REXECUTIO	N BY A CORPORATION, ETC.
Lonne D Ruhils Date	Company 5-5-14/Name		
Signature	Ву		RECEIVED
Lonnie D. Kickards	Its		Office of Oil and lates
Print Name			MAY 0 9 2014
		Signature	WV Department of

Environmental Protection

WW-2A1 (Rev. 1/11)

Operator's	Well	Number	L. Richards 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
Holmes L. and Vada J. Lemon	TERM Energy Corporation	5/32	241/1094

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 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 attended with the appropriate authority before the attended with the Office of Oil and Gas initiated.

> Well Operator: By:Its:

Leroy Baker **Designated Agent**

TERM Energy Corporation

WV Department of **Environmental Protection**

MAY 0 8 2014

WW-	·2B1
(5-1	2)

Well No.	L. Richards # 11	

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.

There appears to be two water sources within 1000' of well.

Surface owners contacted:

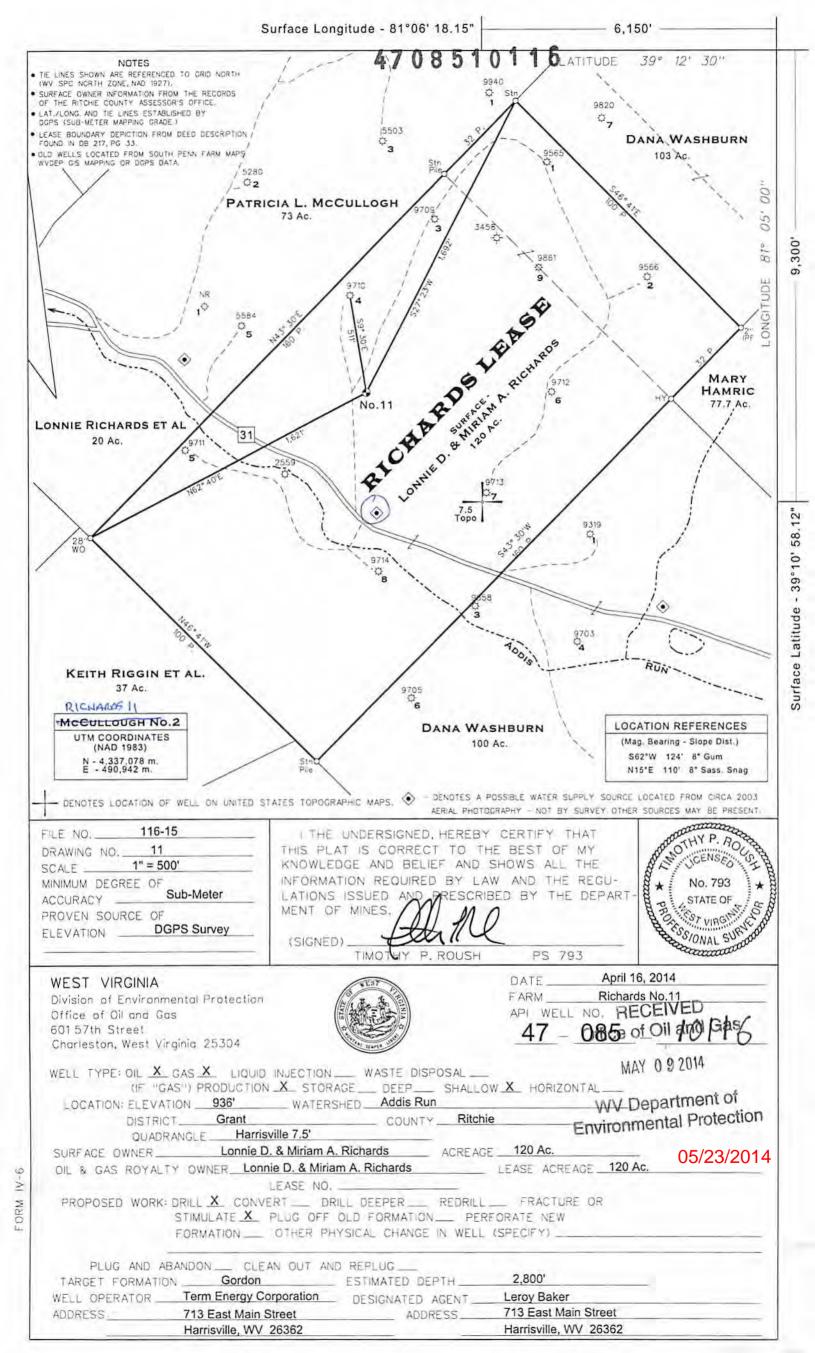
Anita & Lonnie Richards 413 South Spring Street Harrisville, WV 26362

Patricia McCullough 47 Farrow Hill Road Davisville, WV 26142-8889

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MAY 0 9 2014

WV Department of Environmental Protection 4



WW-9 (5/13)

	Page of
API Number 47 - 085	
Operator's Well N	lo. L. Richards # 11

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Watershed (HUC 10) Addis Run Qu Elevation 936' County Ritchie Do you anticipate using more than 5,000 bbls of water to complete the Will a pit be used for drill cuttings? Yes X No If so, please describe anticipated pit waste: Drilling water - Flow Will a synthetic liner be used in the pit? Yes X No Proposed Disposal Method For Treated Pit Wastes: Land Application	lowback fluid
Do you anticipate using more than 5,000 bbls of water to complete the Will a pit be used for drill cuttings? Yes X No If so, please describe anticipated pit waste: Drilling water - Flow Will a synthetic liner be used in the pit? Yes X No Proposed Disposal Method For Treated Pit Wastes:	proposed well work? YesNo_X
Will a pit be used for drill cuttings? Yes X No No If so, please describe anticipated pit waste: Drilling water - Flow Will a synthetic liner be used in the pit? Yes X No	lowback fluid
If so, please describe anticipated pit waste: Drilling water - Flow Will a synthetic liner be used in the pit? Yes X No Proposed Disposal Method For Treated Pit Wastes:	
Will a synthetic liner be used in the pit? Yes X No Proposed Disposal Method For Treated Pit Wastes:	
Will a synthetic liner be used in the pit? Yes X No Proposed Disposal Method For Treated Pit Wastes:	
Proposed Disposal Method For Treated Pit Wastes:	11 SO, What III.:
Land Application	
Underground Injection (UIC Permit Number	er_2D0855151
Reuse (at API Number)
Off Site Disposal (Supply form WW-9 for d Other (Explain	disposal location)
Orilling medium anticipated for this well? Air, freshwater, oil based, et	
-If oil based, what type? Synthetic, petroleum, etc. NA	
Additives to be used in drilling medium? TD 200 Drilling Soap (if needed)	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite,	etc. leave in pit
-If left in pit and plan to solidify what medium will be used? ((cement, lime, sawdust) None
-Landfill or offsite name/permit number?	
I certify that I understand and agree to the terms and condition on August 1, 2005, by the Office of Oil and Gas of the West Virginia D provisions of the permit are enforceable by law. Violations of any terlaw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examin application form and all attachments thereto and that, based on my obtaining the information, I believe that the information is true, accepenalties for submitting false information, including the possibility of fincompany Official Signature Company Official (Typed Name) Leroy Baker	Department of Environmental Protection. I understand that the firm or condition of the general permit and/or other applicable and am familiar with the information submitted on the inquiry of those individuals immediately responsible for curate, and complete. I am aware that there are significated
Company Official Title Designated Agent	RECEIVED
ريح م	Office of Oil and C
Subscribed and sworn before me this 5th day of 77	ay , 20 19
Jean Speland	Notary Public MAY 0 9 2014
My commission expires) March 8, 2019	OFFICIAL SEAL OF THE OFFICE AND A COMMENT OF THE OFFICE AN

Proposed Revegetation Treatment: Acres Disturbed Lime 3 Tons/acre or to correct to pH 6.5 Fertilizer (10-20-20 or equivalent) 500 Ibs/acre (500 lbs minimum) Mulch straw/hay 2 Tons/acre Seed Mixtures Area I Seed Type Ibs/acre Seed Type Ibs/acre Seed Type Ibs/acre Clover 5 Clover 5 Rye 15 Rye 15 Provegetation pH 6.0 Area II Seed Type Ibs/acre Seed	6.5 cre (500 lbs minimum) re Mixtures	
Fertilizer (10-20-20 or equivalent) 500lbs/acre (500 lbs minimum)	cre (500 lbs minimum) re Mixtures	
Seed Mixtures Seed Type Area I Seed Type Ibs/acre Ky - 31 Clover 5 Rye 15 Rye 15 Rye Seed Type Ibs/acre Clover 5 Rye 15 Rye Seed Type Ibs/acre Seed Type I	e Mixtures	
Seed Mixtures Area I Seed Type Ibs/acre Seed Type Ibs/acre Ky - 31 40 Orchard Grass 40 Clover 5 Clover 5 Rye 15 Rye 15 Attach: Plan Approved by: Attach.	Mixtures	
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Seed Type lbs/acre Seed Type lbs/acre Ky - 31 40 Orchard Grass 40 Clover 5 Clover 5 Rye 15 Rye 15 Attach: Orawing(s) of road, location,pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet.	Åras	
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Attach: Orawing(s) of road, location,pit and proposed area for land application. Photocopicd section of involved 7.5' topographic sheet. Plan Approved by:	Rye	15
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even per acre manque a		Clover Rye cation.

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Office of Oil and Gas

MAY 09 2014

WV Department of Environmental Brotection4

Alternate

Pit Location

Cut Arear

No.11

Fill Area

Reclamation Plan For:

Richards No.11

Refer to W.Va. Erosion & Sediment Control Field Manual (WVDEP - May 2012) Follow all BMP's for permitted work.

RICHARDS LEASE

Lonnie D. & Miriam A. Richards
- Surface Owner

ds Existing Access Road 350' of 22% Grade Existing Stoned Road Approach

Z

(A)

Notes:

• Requested permit is for drilling of new well.

• Access from WV S.R. 31 to Point (A) will follow existing lease road. All drainage structures will be maintained.

 All disturbed areas will be re-vegetated as outlined on Form WW-9.

Maintain sediment barriers and drainage structures.

• All road grades <5% except as noted.

 Location of drill pit may be changed based on as-built considerations.

• All road banks will be pre-seeded and mulched.

WV Department of Environmental Protection Note: Drawing not to Scale

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