

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

September 23, 2014

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-5902252, issued to QUALITY NATURAL GAS, LLC, 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: 2359

Farm Name: LOGAN COAL & TIMBER CORP.

API Well Number: 47-5902252

Permit Type: Vertical Well Date Issued: 09/23/2014

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 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.

Form: WW - 2B

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

)Well Operator	Qualit	y Natural C	Gas, LLC	4944	77013	159	Magnolia	Majestic
/30 TO E F T T T T T T T T T T T T T T T T T T				Ope	rator ID (County	District	Quadrangle
) Operators Well	Number 2	359		3) Elev	ation:	1,076.9'	- 17
Well Type: (a) (b) If	Oilc Gas:	or Gas <u>X</u> Product	tion / U ShallowX	Inderground Stor	age	_	ckt	\$650°°
) Proposed Targe) Proposed Total) Approximate fre) Approximate sa	Depth:esh water s	+/- 4540 strata depth	NONE EX	ation at Propo Coal 610'	roposed sed Tota	Target I Depti	t Depth: <u>442</u> h: <u>Harrell (</u> 0	<u>0'</u> Genesee) -
	void depths	s, (coal, kar	est, other): None tary to active mine	? <u>No</u>	oid is encou	untered	see WW-2B	Attachment
			ail Drill and comple	ete.				
			il <u>Drill and compl</u>	ete.				
2)Describe proposition (2)	osed well v	vork in deta	ASING AND TU		RAM INTER	VALS	CEMI	≣NT
2)Describe proposition (2)	osed well v	vork in deta	ASING AND TU	BING PROGE	RAM INTER		CEM I Fill -up (Cu	Can I =
2)Describe proposed as a second secon	SPECIFIC	vork in deta	ASING AND TU	BING PROGE	INTER	Well	N THE TAY	. Ft.)
2)Describe proposed at 2) TYPE S Conductor	SPECIFIC Size	CATIONS Grade	ASING AND TU Weight per ft	BING PROGE FOOTAGE For Drilling	Left in	Well	Fill -up (Cu	. Ft.)
3) TYPE S Conductor Fresh Water	SPECIFIC Size 13 3/8"	CATIONS Grade L.S.	Weight per ft	BING PROGE FOOTAGE For Drilling	Left in	Well	Fill -up (Си с.т.s.	. Ft.)
2)Describe proposed at 2) TYPE S Conductor Fresh Water Coal	SPECIFIC Size 13 3/8" 9 5/8"	CATIONS Grade L.s. L.s.	Weight per ft 37' 32'	BING PROGE FOOTAGE For Drilling	Left in 42	Well	C.T.S.	. Ft.)
3) TYPE S Conductor Fresh Water Coal Intermediate	SPECIFIC Size 13 3/8" 9 5/8"	CATIONS Grade L.S. L.S.	Weight per ft 37' 32' 32'	BING PROGE FOOTAGE For Drilling 42'	Left in 1 42 632 472	Well	C.T.S. C.T.S.	. Ft.)
2)Describe proposition (2)	SPECIFIC Size 13 3/8" 9 5/8" 9 5/8"	CATIONS Grade L.S. L.S. L.S.	Weight per ft 37' 32' 32' 17'	BING PROGE FOOTAGE For Drilling 42 '	Left in \(42'\) 632 472 2339	Well	C.T.S. C.T.S. C.T.S. C.T.S.	. Ft.)

AUG 2 9 2014

Form: WW - 2B ATT:

If a mine void is encountered the 13 %" conductor pipe will be pulled allowing us to drill on down with 17 %" bit to 30' \pm below mine floor. This will allow us to set 13 %" below mine void and cement below mine floor and above void using baskets. We can then continue on with 12 %" bit to fresh water casing point. The 9 %" casing can be set thru 2nd void if encountered and to fresh water casing point

Peceived Aug 29 2014

Office of Oil and Gas Viv Dept. of covironmental Protection

WW2-A	
(Revised	6/07)

1) Date: MAY 20, 2014

2) Operator's Well Number

2359

3) API Well No.: 47 -

059 County

Permit

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

A) Curfore Our	ner(s) to be served:	5) (a) Coal C	\$(0.50°
(a) Name	SEE ATTCHEMNT WW2-A1	Name	CAM MINING, LLC.
Address	SEE ATTCHEMINT WWZ-AT	Address	P.O. BOX 1169 PIKEVILLE, KY 41502
Address			110.200 1100 1 1100 1
(b) Name	-	(b) Coal Ow	ner(s) with Declaration
Address		Name	SEE ATTACHMENT WW2-A2
Address		Address	
(c) Name		Name	
Address		Address	
6) Inspector	Jeremy James	(c) Coal Les	see with Declaration
Address	P.O. BOX 147	Name	CAM OF KENTUCKY REAL ESTATE, LLC.
71441656	Ona, WV 25545	Address	P.O. BOX 1169 PIKEVILLE, KY 41502
Telephone	(304) 951-2596		
, and 100 man			
	TO THE PERSONS	NAMED ABOVE TA	KE NOTICE THAT:
Included is t	the lease or leases or other continuing c	ontract or contracts b	y which I hold the right to extract oil and gas
OR			
X Included is t	the information required by Chapter 22,	Article 6, Section 8(d)	of the Code of West Virginia (see page 2)
L certify that as r	equired under Chapter 22-6 of the Wes	t Virginia Code I hav	e served copies of this notice and application, a location
nlat and accome	panying documents pages 1 through	on the above named	d parties by:
plat, and accomp	Personal Service (Affidavit attac	ched)	
(-	X Certified Mail (Postmarked post	al receint attached)	
·	Publication (Notice of Publication	an attached)	
4 6000 7	Publication (Notice of Publication	1 35 CSD 4 and 1	agree to the terms and conditions of any permit issued
		35 CSK 4, and 1 a	agree to the terms and conditions of any permit issued
under this applic	ation.	reasolly evenined o	and am familiar with the information submitted on this
I certify	under penalty of law that I have be	ersonally examined a	se individuals immediately responsible for obtaining the
	the state of the second and the seco	a and acmalata	
		tion for submitting	false information, including the possibility of fine and
i am a	iware that there are significant pena-	illes for submitting	laise information, including the poecising of the
imprisonment.	Well Operator	Quality Natura	Il Gas, LLC / By: Quality Natural Gas Management,
anc:	Vveii Operator	LLC / Its; Mana	
100	Well Operator By: Its: Address	LEG / Its, Walle	V
	7 9 Tale 1ts:	Managar	- har
1110	I S.	Manager V	
Va.	Address	P.O. Box 460	
	and Ga Protection	Allen, KY 4160	
	Telephone	(606) 874-8041	A TANKSTANES
C	Mich Euglion	4.	0-44
Subscribed and	sworn before me this	of May	2014
MA			140 C
	Its: Address Address Telephone sworn before me this Expires The protection of the	Jer Cil	Notary Public
111500-1000	N 74: ~	10	1 5 1 5
My Commission	Expires	0	

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 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 EEP's Chief Privacy Officer at depprivacyofficer@wv.gov

WW2-A1 SURFACE OWNERS

Logan Coal & Timber Corporation 37 North Valley Road, Suite 2-A, Paoli, Pennsylvania 19301

C.W. Campbell Company 848 Fourth Avenue, Suite 301 Huntington, West Virginia 25701

Dingess-Rum Properties, Inc. 723 Kanawha Boulevard, East Union Building, Fourteenth Floor Charleston, West Virginia 25301

Received

Office of Oil and Gas

WV Dept. of Environme and Protection

WW2-A2 COAL OWNERS

Logan Coal & Timber Corporation 37 North Valley Road, Suite 2-A, Paoli, Pennsylvania 19301

C.W. Campbell Company 848 Fourth Avenue, Suite 301 Huntington, West Virginia 25701

Dingess-Rum Properties, Inc. 723 Kanawha Boulevard, East Union Building, Fourteenth Floor Charleston, West Virginia 25301

Fleceived

VIV Deht, of Experimental Protection

WW-2A Surface Waiver

SURFACE OWNER WAIVER					
County	Mingo	Operato			ural Gas, LLC
		Operato	r well number	2:	359
	INSTRUCTIONS TO SU	IRFACE OWN	ERS NAMED ON PA	AGE WW2-A	
If the surface tract is appeared on the Sheri be the only owner who permits are valid for 20 true owner immediately	tor named on page WW2A owned by more than three ff's tax ticket on the land or o will actually receive thes ff months. If you do not ow or if you know who it is. Also NOTE: YOU ARE N WHERE TO FILE COMME	persons, then r because you se materials.) In any interest or please notify OT REQUIRE	these materials we actually occupy the See Chapter 22 of in the surface tract, the well operator and TO FILE ANY CO	re served on you be surface tract. In eit f the West Virginia please forward the ad the Office of Oil a MMENT.	ecause your name ther case, you may Code. Well work se materials to the
Department of Environ 601 57 th St. SE		as Inspector			
operator files his Applibe filed in person or rebe sure of the date. handling. If you have the planned work described to the planned work described to the planned work described to the planned	cation. You have FIFTEEN ceived in the mail by the Conceived in the mail by the Conceived in the mail by the Conceived in these materials, the in writing. Your comme well number and the approximate a documents, so the power to deny or condicated well work will constitute rosion and sediment controlly owners and the sed well work fails to protect and the committed a subsequent of the controlly of the permit as in the Chief. Testing Laboratories. The stablish water quality prior to the control of the permit as in the Chief. Testing Laboratories. The that I have read the instruction of the permit as the Chief.	I (15) DAYS a chief's office by ster to ensure operator and en the permit rate nust including the permit rate of the permit rat	fter the filing date to a the time stated above the time stated above adequate delivery you have signed a "nay be issued at any ide your name, add of the proposed weres, maps or photograk permit based on cone safety of persons lequate or effective; ources; sources or supplies; on of a previous permit has failed to abater a copy of the orditains a list of water ling. Contact the Charles of the company of the orditains a list of water ling. Contact the Charles of the company and that	tile your comments ove. You may call to time or to arrange voluntary statement of time. Il ress and telephone all site including distribution and the following mit or a substantial e or seek review of the der denying the petersting laboratories ief to obtain a copy. None in the peterstine is the p	the Chief's office to e special expedited to find objection" to e number, the well ict and county from r comments. owing grounds: violation of one or the violation". ermit, you should which you can hire bies of a Notice and
Application for a Well order on Form WW2 described therein	Work Permit on Form WW -B, a survey plat, and a s that I have no objection to	2-A, and attac	hments consisting on plan, all for propo	f pages 1 through _ sed well work on r	including a work my surface land as
a permit being issued	on those materials.			UTION BY A CORP	
	Receiv	-014	Logan	Coal & Timber Corp	ooration
	AUG Date		Name	F 10-0-1	PSGIV TR
Signature			By Kody	tesiden!	PSOLV JK
	Office of Oil & W/ Dent. of Environ	nental Protection	Kirlin	in E Jum	ypn/ 201407
	MA Days		Signature	4	Date

09/26/2014

WW-2A Surface Waiver

VVV Z/ Culla		URFACE OWN	ER WAIVER		
County	Mingo	Operato	or	Quality Natur	ral Gas, LLC
			r well number	23	59
	INSTRUCTIONS TO	SURFACE OWN	ERS NAMED ON PA	AGE WW2-A	
If the surface tract appeared on the Sh be the only owner permits are valid for	erator named on page Wissowned by more than the seriff's tax ticket on the lar who will actually receive 24 months. If you do not tely if you know who it is. NOTE: YOU AR WHERE TO FILE COM	nree persons, then nd or because you these materials.) of own any interest Also, please notify RE NOT REQUIRE	these materials wer actually occupy the See Chapter 22 of in the surface tract, the well operator and D TO FILE ANY COI	re served on you be surface tract. In eith the West Virginia (please forward thes d the Office of Oil an MMENT.	cause your name her case, you may Code. Well work e materials to the
Chief, Office of Oil a	and Gas OR District Oil an	d Gas Inspector			
Department of Envir 601 57 th St. SE	ronmental Protection				
Charleston, WV 25 (305) 926-0450	304				
operator files his Ap be filed in person of be sure of the dat handling. If you have the planned work de Comments must If operator's name and the application. You The Chief h 6) The pro 7) The soi 8) Damag 9) The pro 10) The ap more of If you wan request a copy fro List of Wat to test your water to I hereby sta Application for a We	ter Testing Laboratories establish water quality pr	the Chief's office by the chief's then the permit representation of the chief of the c	fter the filing date to y the time stated about adequate delivery you have signed a "vanay be issued at any ide your name, addition of the proposed well es, maps or photograk permit based on come safety of persons, equate or effective; ources; sources or supplies; n of a previous permit has failed to abate or a copy of the orditains a list of water thing. Contact the Chit T OF NO OBJECTION ce owners and that I havents consisting of	file your comments. ove. You may call the time or to arrange strong time. ress and telephone of the site including district aphs to support your formments on the following the perfect obtains a copy. I set to obtain a copy. None of the pages 1 through	Comments must be Chief's office to special expedited of no objection" to number, the well and county from comments, wing grounds: Violation of one or ne violation". rmit, you should which you can hire the ses of a Notice and including a work
described therein.	te that I have no objection				
a permit being issue	ed on those materials.				
FOR EXECUTION	BY A NATURAL PERSON	ived	FOR EXECU	JTION BY A CORPO	RATION, ETC.
	1.0	A11 - 0	C.W. Ca	ampbell Company	
	AUG E	Date:	Name	 	
Signat		ou and Gas	Its President	Sidwin	
	Office of	Oll and Gas Protection	May)	Boldin	7/7/201
	MA Detu of		Signature	- Come Sa	Date

09/26/2014

WW-2A Surface Waiver

	SU	IRFACE OWNER	WAIVER	
County	Mingo	Operator		Quality Natural Gas, LLC
		Operator w	ell number	2359
	INSTRUCTIONS TO	SURFACE OWNERS	NAMED ON PAGE V	WW2-A
If the surface tract is appeared on the Sher be the only owner whe permits are valid for 2 true owner immediate	owned by more than the iff's tax ticket on the land no will actually receive to 44 months. If you do not by if you know who it is.	ree persons, then the d or because you act these materials.) Se t own any interest in t Also, please notify the E NOT REQUIRED To	se materials were ser yally occupy the surface Chapter 22 of the he surface tract, pleas well operator and the D FILE ANY COMME!	NT.
Chief, Office of Oil and	d Gas OR District Oil and	d Gas Inspector		
Department of Enviror 601 57 th St. SE	nmental Protection			
Charleston, WV 2530)4			
(306) 926-0450		The fact as a size	these materials to be	served on or before the date the
operator files his Apple be filed in person or representation be sure of the date. handling. If you have the planned work described operator's name and the application. You represent the application.	lication. You have FIFTE eceived in the mail by the Check with your post been contacted by the cribed in these materials in writing. Your comwell number and the appray add other document	EEN (15) DAYS after ne Chief's office by the master to ensure ad well operator and you , then the permit may ments must include proximate location of to see such as sketches.	the filing date to file your time stated above. You can be stated above. You can be issued at any time be issued at any time your name, address the proposed well site maps or photographs to	You may call the Chief's office to or to arrange special expedited tary statement of no objection" to
11) The property 12) The soil of 13) Damage 14) The property 15) The applications are selected as the property 15.	osed well work will const erosion and sediment cor would occur to publicly o osed well work fails to pr icant has committed a s	itute a hazard to the s ntrol plan is not adequ wned lands or resourd otect fresh water sour substantial violation of	afety of persons. ate or effective; ces; ces or supplies; f a previous permit or	a substantial violation of one or eek review of the violation".
If you want	a copy of the permit a	as it is issued or a	copy of the order de	enying the permit, you should
request a copy from	the Chief.	The Office maintain	s a list of water testing	g laboratories which you can hire
to test your water to e	stablish water quality pri	or to and after drilling.	Contact the Chief to	obtain a copy.
Application for a Well	that I have read the ins	VW2-A, and attachme	wners and that I have ents consisting of page	e received copies of a Notice and es 1 through including a work vell work on my surface land as
described therein.	that I have no objection	to the planned work	described in these ma	terials, and I have no objection to
a permit being issued	on those materials.			N BY A CORPORATION, ETC.
FOR EXECUTION BY	Y A NATURAL PERSON	*	FOR EXECUTION	I BI A CORPORATION, ETC.
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	29 D	afte: Na	me Torney	Fuans
Signatur	e AUG	By	- 1	
	Cultob or Oll and	1 Gos Its	1110310	mm 7/1/14
	AST TO DOME	ulia) blotadiou	Signature	Date
			9	

Operator _				
	Quality Natural Gas, LLC	Operator's Well N	Number	2359
INS	TRUCTIONS TO CO	OAL OPERATOR,	OWNER, OR	LESSEE
any objection you wis	h to make or are rec	juired to make by C	code 22-6-15,	ou are hereby notified that 16 or 17, must be filed with eceipt of this application by
Chief, Office of Oil and Department of Environment of Environment of Environment of St. SE Charleston, WV 2530	nmental Protection 4			
(304) 926-0499 exten	Sion 1004	WAIVER		
		VVAIVEIX		
well location, the well to the work proposed	location has been	added to the mine	map. The un	its which covers the area of dersigned has no objection rator has complied with all
applicable requiremen	nts of the West Virgi	nia Code and the g	overning regu	lations.
applicable requirements	nts of the West Virgi	nia Code and the g	overning regu	lations.
applicable requiremen	nts of the West Virgi	nia Code and the g	overning regu	lations.
applicable requirements	nts of the West Virgi	nia Code and the g	OR EXECUTION	lations.
applicable requiremen	nts of the West Virgi	nia Code and the g	CAM MIN	I BY A CORPORATION, ETC. ING, LLC. 6. HULL
applicable requirements	nts of the West Virgi	nia Code and the g	CAM MIN RONALD GM-	I BY A CORPORATION, ETC. ING, LLC. G. HULL ENG
applicable requirements	nts of the West Virgi	nia Code and the g	CAM MIN	I BY A CORPORATION, ETC. ING, LLC. G. HULL ENG

Received

AUG 29 2014

W/V Dept. of Entering Protection

County	Mingo		A Company	
Operator	Quality Natural Gas, LLC	Operator's Well N	Number	2359
	INSTRUCTIONS TO CO	OAL OPERATOR,	OWNER, OR LES	SSEE
any objection y	oal operator, owner, or les ou wish to make or are req e Office of Oil and Gas wi	uired to make by C	Code 22-6-15, 16	or 17, must be filed with
601 57 th St. SE Charleston, W\	Environmental Protection			
(304) 920-0498	extension 1004	WAIVER		
well location ha well location, the to the work pro	ersigned coal operator as examined this proposed ne well location has been a oposed to be done at this airements of the West Virgi	well location. If a added to the mine location, provided	mine map exists we map. The unders to the well operate	which covers the area of signed has no objection or has complied with all
FOR EXECUTION	N BY A NATURAL PERSON	F	OR EXECUTION BY	A CORPORATION, ETC.
			Cam of Kentu	cky Real Estate, LLC.
	Date	Name	RONALD G	HULL
Signat	ture	By		
		Its	Romald & Hus	20 8/19/14
			Cianatura	Date
			Signature	Date

Received

AUG 2 9 2014

County	Mingo			
Operator	Quality Natural Gas, LL	C Operator's We	Il Number	2359
	INSTRUCTIONS TO	COAL OPERATO	R, OWNER, OR I	LESSEE
any objection you	wish to make or are	equired to make by	y Code 22-6-15, 1	ou are hereby notified that 16 or 17, must be filed with ceipt of this application by
Chief, Office of Oi Department of En 601 57 th St. SE Charleston, WV 2 (304) 926-0499 ex	vironmental Protectio 5304			
		WAIVER		
well location has e well location, the to the work propo applicable require	examined this proposition well location has bee	ed well location. If n added to the min is location, provide	a mine map exist ne map. The und ed; the well oper e governing regul	/ of the coal under this its which covers the area of dersigned has no objection rator has complied with all ations. BY A CORPORATION, ETC.
			Logan Coa	l & Timber Corporation
Signature	Da	e Name By Its		E THOITPSON TR Champuf 2014-07-12 Date
		Macein	red	
		AUG 29	2014	
		Office of Oil a WV Dept. of Environs	ind Gas nental Protection	

County Operator	Mingo Quality Natural Gas, LLC	Operator's Well	Number	2359
	INSTRUCTIONS TO CO	OAL OPERATOR,	OWNER, OF	LESSEE
any objection yo	u wish to make or are req	uired to make by	Code 22-6-15	You are hereby notified that , 16 or 17, must be filed with receipt of this application by
Chief, Office of O Department of E 601 57 th St. SE Charleston, WV (304) 926-0499	nvironmental Protection 25304			
(304) 920-0499 (extension 1004	WAIVER		
well location has well location, the to the work prop applicable requir	e examined this proposed well location has been a	well location. If a added to the mine location, provided nia Code and the	mine map ex map. The und; the well op governing reg	/ of the coal under this ists which covers the area of ndersigned has no objection erator has complied with all ulations.
			C.W. Ca	mpbell Company
	Date	Name		
Signatu	re	By	Gary Ba	Boldwin 7/7/2014 Date
	Piece	aived 29 214		
	Aug	o of Oil and Publishment		

County	Mingo		
Operator	Quality Natural Gas, LLC	Operator's Well Number	2359
	INSTRUCTIONS TO C	OAL OPERATOR, OWNE	R, OR LESSEE
any objection vo	ou wish to make or are red	uired to make by Code 22	2-A. You are hereby notified that 2-6-15, 16 or 17, must be filed with the receipt of this application by
601 57 th St. SE Charleston, WV	Environmental Protection 25304		
(304) 926-0499	extension 1654	WAIVER	
well location ha well location, th to the work pro	s examined this proposed e well location has been posed to be done at this	well location. If a mine madded to the mine map.	essee/ of the coal under this ap exists which covers the area of The undersigned has no objection ell operator has complied with all ng regulations.
FOR EXECUTION	BY A NATURAL PERSON	FOR EXE	CUTION BY A CORPORATION, ETC.
		D	ingess-Rum Properties, Inc
	Date	Name	Torrey Evans
Signati	ure	By Its	oresident 7/2/14
		Signatu	Date Date

AUG 29 24

Received

Form WW-2A-1 (Rev.1/11)

Operator's	Well N	Number
------------	--------	--------

2359

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
Logan Coal & Timber Corporation	Kinzer Business Realty, LTD	1/8	BK 27 P 208
C.W. Campbell Company	Kinzer Business Realty, LTD	1/8	BK 27 P 208
Dingess-Rum Properties, Inc.	Kinzer Business Realty, LTD	1/8	BK 27 P 208

SEE ATTACHED

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 acknowledges 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

406 29 2014

09/26/2014

Diffice of Oil and Gas

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 acquired from the appropriate authority before the affected activity is initiated.

Well Operator:	Quality Natural Gas, LLC / BY: Quality Natural Gas Management, LLC / Its: Manager
By:	Ten King
Its:	Manager

Kinzer Business Realty, Ltd.

Quality Natural Gas, LLC P. O. Box 460 Allen, Kentucky 41601 Telephone #606-874-8041 Facsimile #606-874-9928 dlester@kinzerdrilling.com

September 11, 2014

West Virginia Department of Environmental Protection 601 57th Street, S.E. Charleston, West Virginia 25304

Attn.: Mr. Jeff McLaughlin

Re:

Pending | 1 Well Applications Quality Natural Gas, LLC Logan Coal & Timber Corp., et al Mingo County. West Virginia

Dear Jeff:

As per our discussions yesterday regarding the relationship of the current Lessee, Kinzer Business Realty, Ltd., and that of the current applicant of the eleven (11) pending permit application by Quality Natural Gas, LLC, please be advised that these entities are currently owned and operated by the Kinzer Family. Kinzer Business Realty, Ltd., has designated Quality Natural Gas, LLC (as operator thereof) to permit, operate and maintain oil and gas wells in Kentucky and West Virginia.

Should you have any questions, please feel free to contact me at your earliest convenience.

Singerely.

Duane Lester

Designated Operator

Quality Natural Gas, LLC

By: Quality Natural Gas Management, LLC

Its: Manger

General Manager

Consenting Party:

Kinzer Business Realty, Ltd.

By: Kinzer Buiness Realty, LLC

Its: General Partner

Ву:__

General Manager

STATE OF KENTUCKY	
STATE AT LARGE	
I. A Notary Public of sa certify that Down Hyder, Manager of QUA whose name is signed to the within writing has this day acknowledged	LITY NATURAL GAS, LLC.
My commission expires 4.24.2017	_
Given under my hand this 11 day of 5 opton by Notary Public Notary Public 1	OUANE AND
STATE OF KENTUCKY	Thumann.
I, where AT LARGE I, a Notary Public of said County and Hyden, General Manager of Kinzer Business Realty, Ltd., whose in has this day acknowledged the same before me in said county.	State aforesaid, do certify that Doug ame is signed to the within writing
My Commission Expires: 7.27.297	
	2014 WATAP DUANE LOOKER STATE OUR LANGE, KENTUMBER STATE OF THE STATE

WW-2B1	
(5-12)	

Well	No. 2359	

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

ACCULAB, INC., 167 Stollings Avenue, Logan, WV 25601

Sampling Contractor

Acculab, Inc., 167 Stollings Avenue, Logan, WV 25601

Well Operator

Quality Natural Gas, LLC

Address

P.O. Box 460

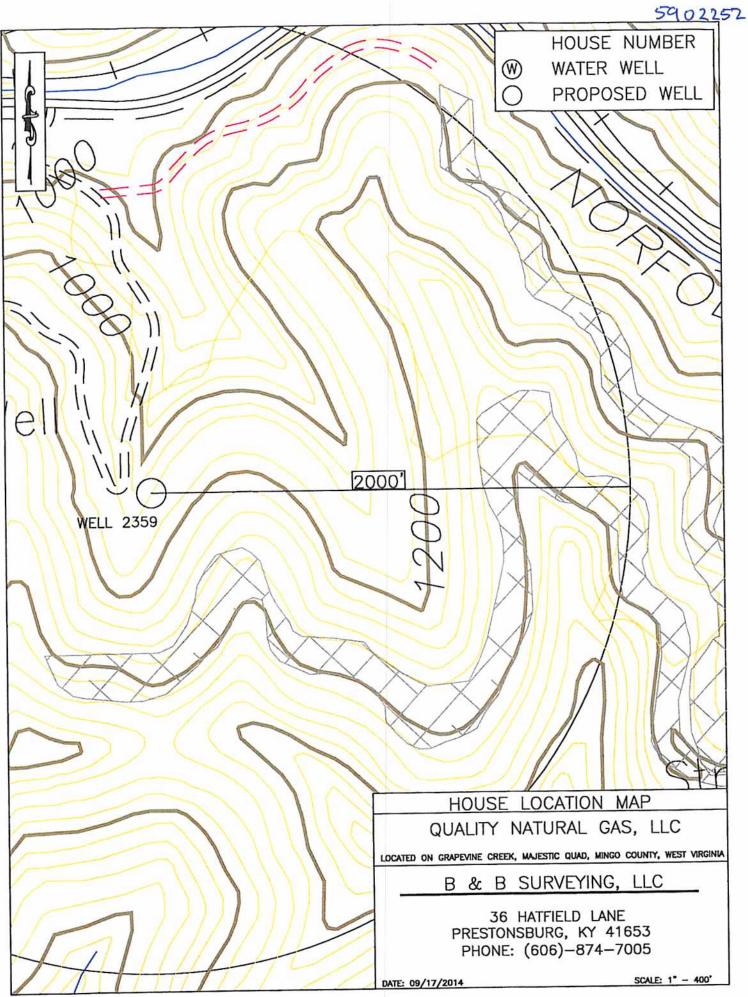
Allen, KY 41601

Telephone

(606) 874-8041

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.

NO WELLS W/IN 2000'



WW-2BA WELL #2359

NO HOUSES WITHIN 2000'

FORM WW-9 Rev. 05/10

Page	of	
API Num	ber 47 - 059 -	
Operator's	Well No. 2359	

STATE OF WEST VIRGINIA

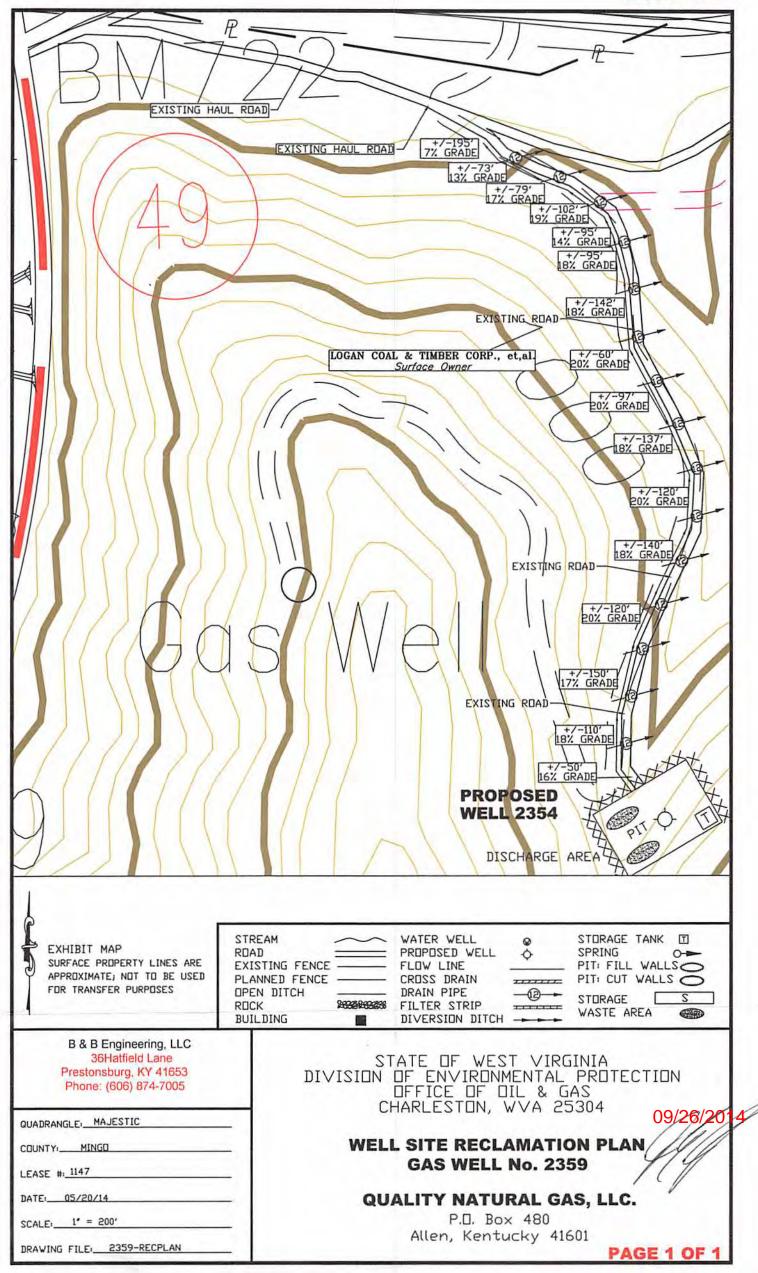
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

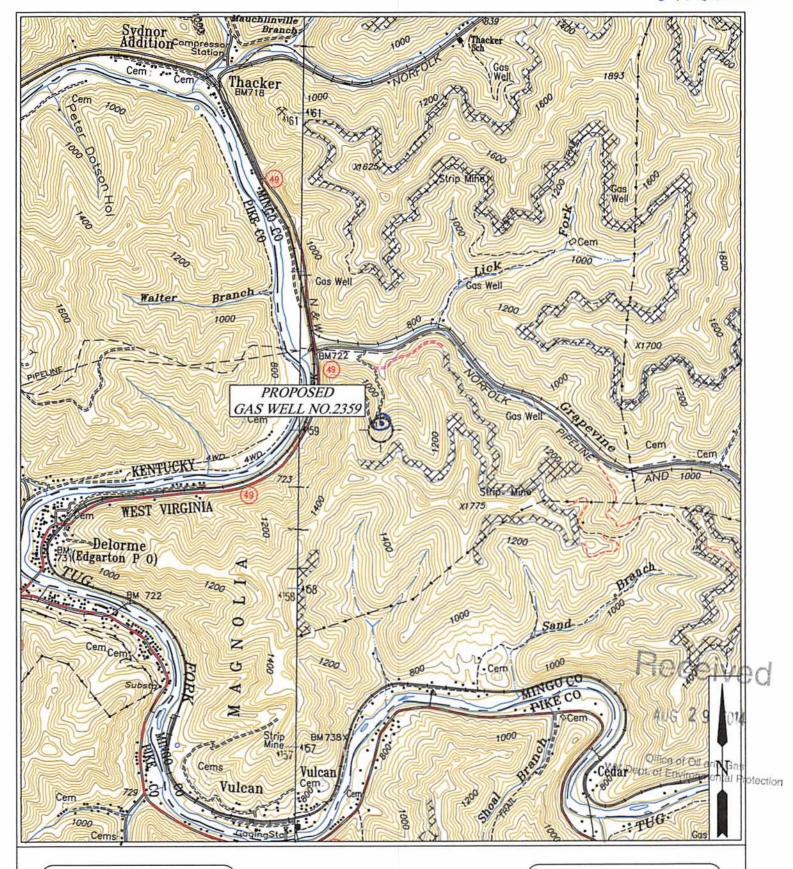
Operator Name	e: Quality Natu	ral Gas, LLC	OP Co	ode: 494477013	
Watershed:	Grapevine Creek o	of the Tug Fork River	_	Quadrangle: Majestic	
Elevation	1076.9	County: Mingo	District: Magnolis	a	
Description of	anticipated Pit Was	te: Water encountered wh	nile drilling and various	s formation cuttings	
Do you antici	pate using more tha	n 5,000 bbls of water to com	plete the proposed well w	ork? YesNo	<u></u>
Will a syntheti	ic liner be used in the	e pit? Yes, if impervious m	naterial is unavailable c	on site. If so what mil?:	€ 20 mil.
Proposed Disp	oosal Method For Tro				
	<u>x</u>	Land Application Underground Injection (UIC Permit Number		
		Reuse (at API Number	y form WW-9 for disposal		
		Other (Explain			
-If o	il based what type?	is well? Air, Freshwater, oil ba Synthetic, petroleum, etc ves			
-If le	eft in pit and plan to	solidify what medium will be	used? Cement, lime, sawdu	ist. Lime	
31, 1999, by t enforceable by action. I cer all attachment information is of fine or important	the Office of Oil and y law. Violations of trify under penalty of its thereto and that, but true, accurate, and risonment.	Gas of the West Virginia Div of any term or condition of the flaw that I have personally ex- pased on my inquiry of those is complete. I am aware that the	ision of Environmental Pro e general permit and/or ot camined and am familiar w individuals immediately re are are significant penalties	AL WATER POLLUTION PE stection. I understand that the her applicable law or regulati ith the information submitted of sponsible for obtaining the inf for submitting false informati	provisions of the permit are on can lead to enforcement on this application form and formation, I believe that the on, including the possibility
Company Off	icial Signature	Tony Kin	_		
		Terry Kinzer and/or Jer			
Company Off	icial Title <u>Mana</u>	ger / Quality Natural Gas M	anagement, LLC / Manag	er of Quality Natural Gas, L	LC
Subscribed an	nd sworn before me t	his 21 day of	May	, 20_14	ETEN COLOR
My Commissi	ion Expires	4.27.2017		Receive	002-800

AUG 2 9 714

Operator's Well No. 2359

		LEGEND	
Property Boundary		Diversion 22222211111111	
Road = = = = = =	=====	Spring —	
Existing Fence — X -		Wet Spot	
Planned Fence / _	_/_/_	Drain Pipe with size in inches .	_
Stream Aug 7		Waterway \longleftrightarrow	\rightarrow \leftarrow
_	· · · · · · · · · · · · · · · · · · ·	Cross Drain	
Rock ESESSE	_	Artificial Filter Strip XXXX	**********
North N	~	Pit: cut walls	
Buildings		Pit: compacted fill walls	
Water wells		Area for Land Application of Pit	Waste
Drill site			
		4	
Proposed Revegetation Treatmen	t: Acres Disturbed2	Prevegetation pH	_
Lime3	Tons/acre or to correct to pH	6.5	
Fertilizer (10-20-20 or	equivalent)1/3 Ton	lbs/acre (500 lbs minimum)	
Mulch 2	Tons/acre or hydroseed		
		Seed Mixtures	
Area I		Area II	I
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	10	Alsike Clover	5
Annual Rye	5		
Redtop	2		
Attach: Drawing(s) of road, location, pit	and proposed area for land applica	ition.	
Photocopied section of involved	7.5' topographic sheet.		
i notocopica socion or involves	7.5 topograpina silvan		
Plan Approved by:			
Comments:			
			1
		De	ceived
Title Inspector	Date:) - /	y war war -
Title <u>Inspector</u>	i iata.		
Field Reviewed?	VYes () No A	UG 29 114





B & B Engineering, LLC

36 Hatfield Lane Prestonsburg, KY 41653 Phone: (606) 784-7005

QUALITY NATURAL GAS, LLC. LOCATION MAP

PROPOSED GAS WELL NO 2359

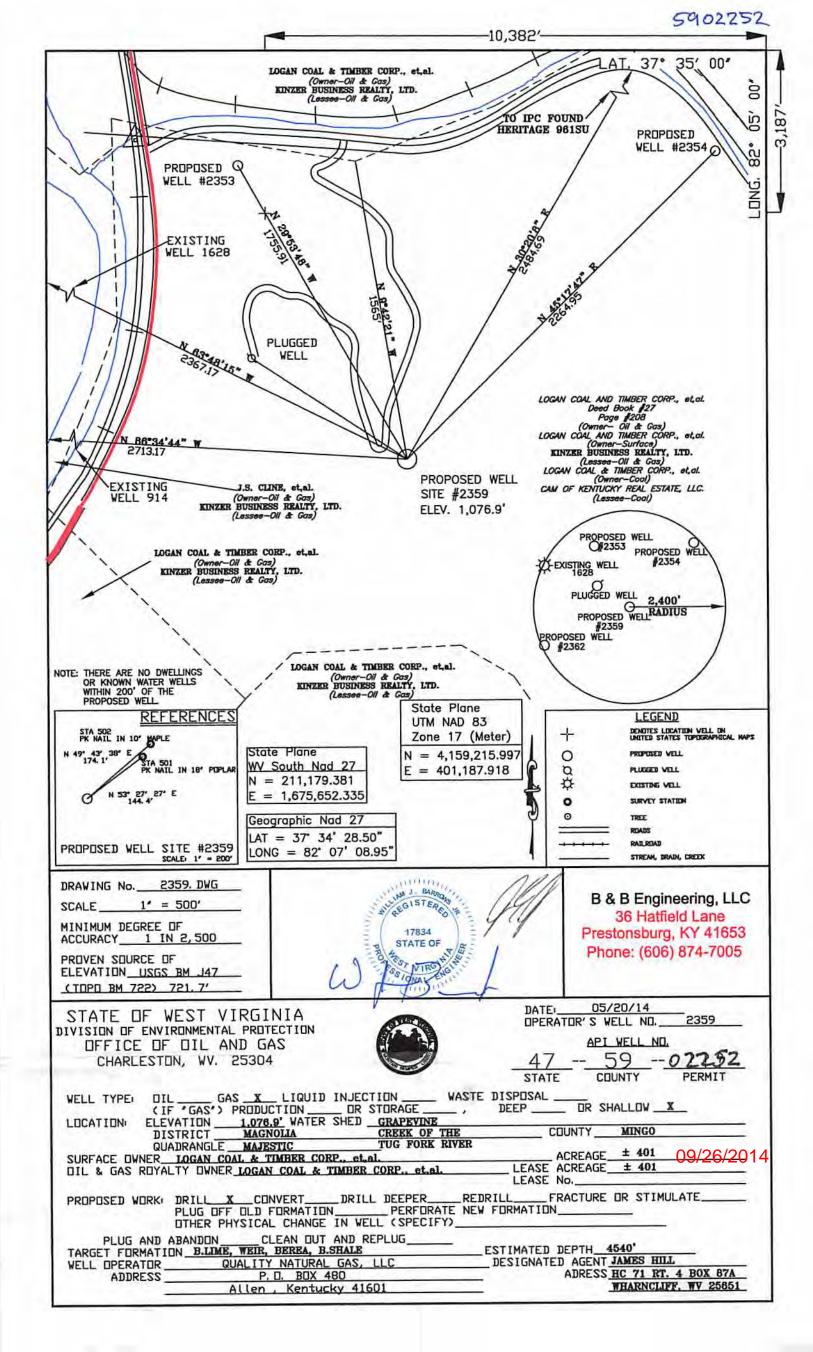
QUAD:MAJESTIC

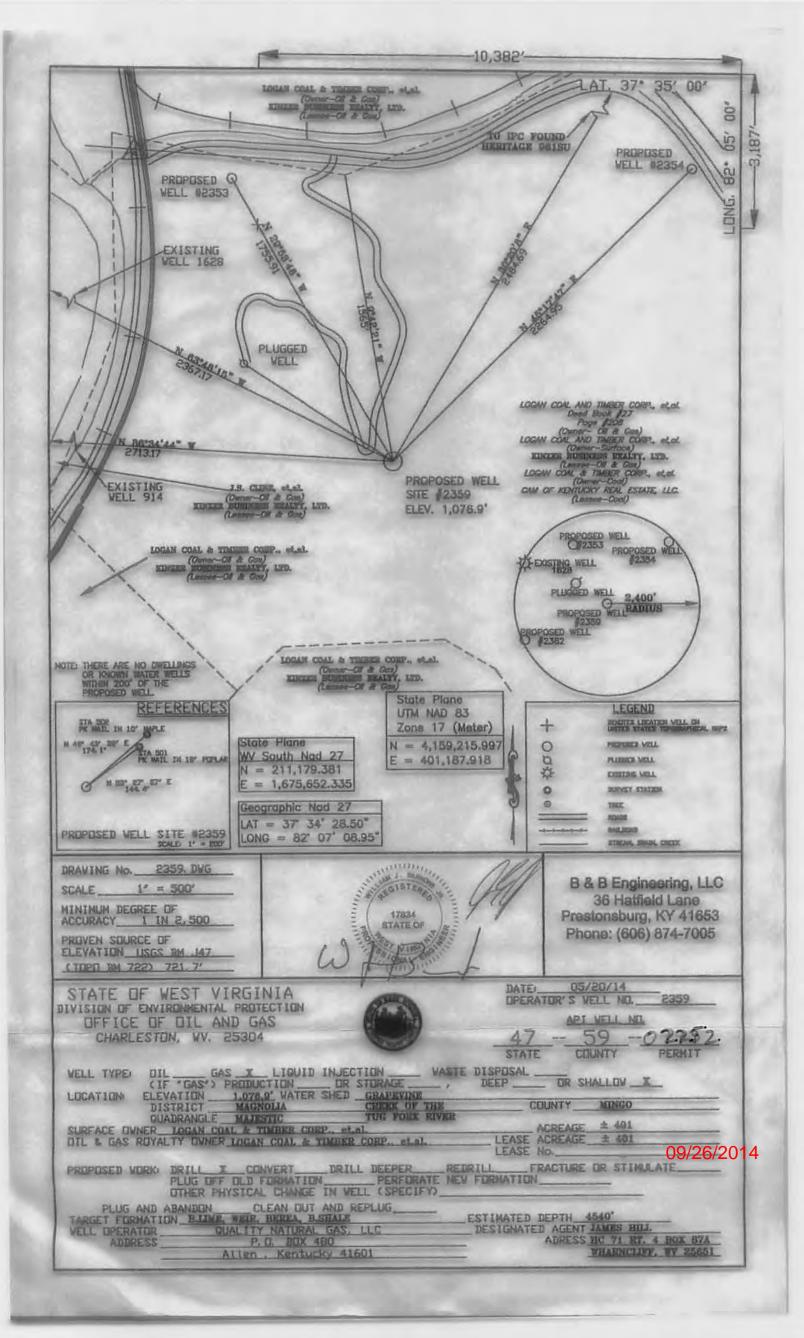
SCALE: 1" = 2000"

DATE: 05/20/2014

FILE NAME: 2359VicMap.DWG

09/26/2014





5902252

Dingess-Rum Properties, Inc.

723 Kanawha Boulevard, East Union Building, Fourteenth Floor Charleston, West Virginia 25301

May 20, 2014

Chief, Office of Oil & Gas Department of Environmental Protection 601 57th Street Charleston, WV 25304

Quality Natural Gas, LLC
Gas Well Application
Well Number 2359 WV State Plane Coordinates N 211,179
E 1,675,652

Dear Mr. Martin:

The undersigned owner of the coal that underlies this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

By: _

By: Przide

Date:

Received

AUG 2 9 714

Logan Coal & Timber Corporation

37 North Valley Road, Suite 2-A, Paoli, Pennsylvania 19301

May 20, 2014

Chief, Office of Oil & Gas Department of Environmental Protection 601 57th Street Charleston, WV 25304

Quality Natural Gas, LLC
Gas Well Application
Well Number 2359 WV State Plane Coordinates N 211,179
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By: Rodman E THOTTEGIN J.

2011-07:18

Received

AUG 29 2014

Office of Oil and Gas WV Dept. of Environmental Protection

CAM Mining, LLC. P.O. Box 1169 Pikeville, KY 41502

May 20, 2014

Chief, Office of Oil & Gas Department of Environmental Protection 601 57th Street Charleston, WV 25304

> Quality Natural Gas, LLC Gas Well Application Well Number 2359 WV State Plane Coordinates N 211,179 E 1,675,652

Dear Mr. Martin:

The undersigned operator of the coal that underlies this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

By: Ronald S. Hull its: Gm - ENG

Date:

Received

AUG 29 714

5902252

C.W. Campbell Company

848 Fourth Avenue, Suite 301 Huntington, West Virginia 25701

May 20, 2014

Chief, Office of Oil & Gas Department of Environmental Protection 601 57th Street Charleston, WV 25304

Quality Natural Gas, LLC
Gas Well Application
Well Number 2359 WV State Plane Coordinates N 211,179
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By: Day D. Baldwi

By: tresident

Date: 7/7/2014

Received

AUG 29 2014

MA Debr in grammanal historiau

CAM of Kentucky Real Estate, LLC.

P.O. Box 1169 Pikeville, KY 41502

May 20, 2014

Chief, Office of Oil & Gas Department of Environmental Protection 601 57th Street Charleston, WV 25304

Quality Natural Gas, LLC
Gas Well Application
Well Number 2359 WV State Plane Coordinates N 211,179
E 1,675,652

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By: Ronald G. Hull

its: GM-ENG

Date: 8/19/14.

Received

TUG 2 9 2014

PRESCRIPTION NOT TO BURY PRODUCTION OR GATHERING LINES

Pursuant to the Administrative Regulation 35CSR4-16.7 of the Office of Oil and Gas, Department of Environmental Protection, the undersigned states that:

(1) The	undersigned is/are the owner(s) of record of	
	X the surface	
or		
	an interest in the surface of a tract of land described as follows:	
	an interest in the surface of a fract of land described as follows.	
	Acres +/- 401	
	Watershed Grapevine Creek of the Tug Fork River	
	District Magnolia	
	County Mingo	_/
	Public road access State Route 49	_
	Generally used farm name Logan Coal & Timber Corporation, et,al.	-
(2) referen	The undersigned realize (s) that a production or gathering pipeline is ced surface tract in connection with the operation of the well identified by	is to be installed across the below:
	Well Operator Quality Natural Gas, LLC	<u> </u>
	Address P.O. Box 480	
	Allen, KY 41601	_
	Telephone (606) 874-8041	
	Well: API Permit No. 47 (Pending	1)
	For sufficient and satisfactory reasons, the undersigned hereby p interest owned by the undersigned is/are concerned, the production or ed as follows:	gathering pipeline need not
	X On any part of the surface tract identified above:	
	or	
	On the following parts of the surface tract identified above:	
	FromTo	
	FromTo	
	ecution by corporation, (For execution by natural persons) rship, etc.)	Received
Name:	Dingess-Rum Properties, Inc	W & 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	Tomy hours Date: 7/2/14	AUG 2 9 214
Ву:	Signature Date.	
lts:	President Signature	WV Dunt of community of the

FORM WW-75 (REV, 9/94)

PRESCRIPTION NOT TO BURY PRODUCTION OR GATHERING LINES

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or	
an interest in the surface of a tract of land described as follows:	
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District Magnolia	
County Mingo Public road access State Route 49	
Generally used farm name Logan Coal & Timber Corporation, et,al.	
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Well Operator Quality Natural Gas, LLC	
Address P.O. Box 480	-
Allen, KY 41601	-
Telephone (606) 874-8041 Well: API Permit No. 47; (Pending)	-
vveii. At the entitle two.	
(3) For sufficient and satisfactory reasons, the undersigned hereby pressurface interest owned by the undersigned is/are concerned, the production or go be buried as follows:	scribe that as far as the athering pipeline need not
X On any part of the surface tract identified above:	
or	
On the following parts of the surface tract identified above:	
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FromTo	
FromTo	
From To	Received
From To	Received

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or	
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Well Operator Quality Natural Gas, LLC	_ <u>_</u>
Address P.O. Box 480	
Allen, KY 41601	
Telephone (606) 874-8041 Well: API Permit No. 47; (Pendin	
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(3) For sufficient and satisfactory reasons, the undersigned hereby surface interest owned by the undersigned is/are concerned, the production of be buried as follows:	prescribe that as far as the or gathering pipeline need not
X On any part of the surface tract identified above:	
or	
On the following parts of the surface tract identified above:	
FromTo	
Erom 10	
FromTo	
(For execution by corporation, partnership, etc.) (For execution by natural persons)	P****
paraioromp, o.o.,	Received
Name: Logan Coal & Timber Corporation	- 10001100
By: Robin & Olympon Date: 2014-0718 Signature Date: 2014-0718	AUG 2 9 2014
110. <u>11. 12. 12. 12. 12. 12. 12. 12. 12. 12. </u>	Office of Oil and Gas WV Dept. of Environmental Protection