

### 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: 47-5902250, 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: 2357

Farm Name: LOGAN COAL & TIMBER CORP.

API Well Number: 47-5902250

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. <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.

Form: WW - 2B

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

404477042			
494477013	059	Magnolia	Majestic
Operator ID	County	District	Quadrangle
3) E	levation:	876.3'	-
ind Storage			
Proposed To	d Target otal Dept	Depth: <u>431</u> h: <u>Harrell</u>	9' (Genesee)
d. If a void is end	countered	see WW-2B	Attachment
	ale_Propose Proposed To '	ale_Proposed Target Proposed Total Dept D	ale Proposed Target Depth: <u>431</u> Proposed Total Depth: <u>Harrell</u>

13) <u>CASING AND TUBING PROGRAM</u>

TYPE S	SPECIFIC	CATIONS		FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13 3/8"	L.S.	37'	42 '	42 '	C.T.S.
Fresh Water	9 5/8"	L.S.	32'	472'	472'	C.T.S.
Coal	9 5/8"	L.S.	32'	472'	472'	C.T.S.
Intermediate	7"	L.S.	17'	2129'	2129'	C.T.S.
Production	4 1/2"	WTC 65	10.5	4339'	4339'	200'up in 7" casing
Tubing						
Liners						/

Packers: Kind

Sizes

Depths Set

Received

AUG 29 7014

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 2<sup>nd</sup> void if encountered and to fresh water casing point

Received

AUG 2 9 2014

Office of Oil and Gas WV Dept. of Environmental Protection WW2-A (Revised 6/07) 1) Date:

MAY 12, 2014

2) Operator's Well Number

2357

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

	ner(s) to be served:	5) (a) Coal C Name	Operator CAM MINING, LLC.
(a) Name Address	SEE ATTCHEMNT WW2-A1	Address	P.O. BOX 1169 PIKEVILLE, KY 41502
Address	-		
(b) Name		(b) Coal Ow	ner(s) with Declaration
Address		Name	SEE ATTACHMENT WW2-A2
	1	Address	-
(c) Name		Name	
Address	-	Address	
6) Inspector	Jeremy James	(c) Coal Les	ssee with Declaration
Address	P.O. BOX 147	Name	CAM OF KENTUCKY REAL ESTATE, LLC.
	Ona, WV 25545	Address	P.O. BOX 1169 PIKEVILLE, KY 41502
Telephone	(304) 951-2596		
	TO THE PERSONS	NAMED ABOVE TA	AKE NOTICE THAT:
Included is t	he lease or leases or other continuing co	ntract or contracts b	y which I hold the right to extract oil and gas
OR	16 68 99 96 50 50 50 50 50 70 70 70 70 70 70 70 70 70 70 70 70 70		
X Included is t	he information required by Chapter 22, A	rticle 6, Section 8(d)	of the Code of West Virginia (see page 2)
I certify that as r	equired under Chapter 22-6 of the West	Virginia Code I hav	re served copies of this notice and application, a location
plat, and accomp	panying documents pages 1 through	on the above named	d parties by:
	Personal Service (Affidavit attac		
-	X Certified Mail (Postmarked posta		
	Publication (Notice of Publication		The second secon
		35 CSR 4, and I a	agree to the terms and conditions of any permit issued
under this applic	ation.		and an familiar with the information submitted on this
I certify	under penalty of law that I have per	sonally examined a	and am familiar with the information submitted on this se individuals immediately responsible for obtaining the
application form	ieve that the information is true, accurate	and complete	se illulviduals illillediately responsible for obtaining the
Information, 1 bei	ware that there are significant negative	ies for submitting	false information, including the possibility of fine and
imprisonment.		ico ioi casimang	land memorial managers
imprisoriii ca.	Well Operator	Quality Natura	al Gas, LLC / By: Quality Natural Gas Management,
1		LLC / Its: Mana	
	2 9 1214 By:	Trem	K
AUE	Its:	Manager	
	Address	P.O. Box 460	
	Oil and Gas	Allen, KY 4160	1
Ottic	a of Oil and Gas Frotection Telephone	(606) 874-8041	
My Debt c.	Elmin		
Subscribed and	sworn before methis 2 day	of May	2014
()			
Mu	ul fulle		Notary Public
	MANA	IM	
My Commission	Expires 4.27-2	21	

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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>

### 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

AUG 29 114

Green of Oil and Gas WV Dept - American Protection

09/26/2014

### WW-2A Surface Waiver

	SU	RFACE OWNER	WAIVER	
County	Mingo	Operator		Quality Natural Gas, LLC
, <u></u>		Operator w	ell number	2357
	INSTRUCTIONS TO			
If the surface tract is appeared on the She be the only owner was permits are valid for	s owned by more than threeriff's tax ticket on the land who will actually receive the 24 months. If you do not ely if you know who it is. A	ee persons, then the l or because you act nese materials.) Se own any interest in to also, please notify the NOT REQUIRED T	ese materials wer ually occupy the see Chapter 22 of the surface tract, well operator an O FILE ANY COI	
Chief, Office of Oil an Department of Enviro 601 57 <sup>th</sup> St. SE Charleston, WV 253		Gas Inspector		
(304) 926-0450  Time Limits and me operator files his App be filed in person or be sure of the date handling. If you have the planned work decomments must be operator's name and the application. You The Chief had 1) The properator's name and the application. You The Chief had 1) The properator's name and the application. You The Chief had 1) The properator's name and the application. You The properator's name and the application. You The properator's name and the application. You want application of the properator of the propera	ethods for filing commentation. You have FIFTE received in the mail by the received in the mail by the received in the mail by the received in these materials, in writing. Your commentation well number and the appropriate and the power to deny or corposed well work will constitute rosion and sediment controls would occur to publicly ow cosed well work fails to produce the rules promulgated under a copy of the permit as in the Chief.  Testing Laboratories. establish water quality priover.	EN (15) DAYS after to Chief's office by the naster to ensure advell operator and you then the permit may ments must include roximate location of to, such as sketches, and the a hazard to the strol plan is not adequated lands or resound tect fresh water sour ubstantial violation of the Chapter 22, and he it is issued or a The Office maintain or to and after drilling. ARY STATEMENT O	the filing date to e time stated about the time stated about the proposed at any your name, addute proposed well maps or photogratermit based on contact the proposed well at a previous permit based on contact the proposed well as failed to abate the proposed well as failed to abate the proposed well as failed to abate the proposed was failed to abate the proposed was a list of water the proposed water the proposed was a list of water the proposed water th	ress and telephone number, the well is site including district and county from aphs to support your comments. It is important to support your comments on the following grounds:  mit or a substantial violation of one or er or seek review of the violation".  Ider denying the permit, you should stesting laboratories which you can hire ite to obtain a copy.
Application for a We order on Form WW described therein.	ll Work Permit on Form W 2-B, a survey plat, and a	W2-A, and attachment soil and erosion place	ents consisting of an, all for propos	pages 1 through including a work sed well work on my surface land as the materials, and I have no objection to
- normit hoing icque	d on those materials. YA NATURAL PERSON	l		JTION BY A CORPORATION, ETC.
	0.0 114		Logan (	Coal & Timber Corporation
Signatu		Ву		sider'  con E Champy 2014-07-

AAA	121	Surface	Maiyor
VVV	1-ZM	Suriace	vvalvel

VVV-ZA Guita		URFACE OWNER	WAIVER	
County	Mingo	Operator		Quality Natural Gas, LLC 2357
		Operator w	ell number	2357
	INSTRUCTIONS TO	SURFACE OWNERS	NAMED ON PAG	E WW2-A
If the surface tract appeared on the S be the only owner permits are valid for	is owned by more than the heriff's tax ticket on the law who will actually receive or 24 months. If you do not ately if you know who it is.	nree persons, then the nd or because you act these materials.) Se ot own any interest in the Also, please notify the RE NOT REQUIRED T	se materials were ually occupy the su e Chapter 22 of the he surface tract, place well operator and to O FILE ANY COM!	MENT.
	and Gas OR District Oil ar ironmental Protection 5304	nd Gas Inspector		
(305) 926-0450  Time Limits and roperator files his A be filed in person of the da handling. If you hat the planned work of Comments must operator's name at the application. You have a comment of the planned work of the Application. You have a comment of the Application of the properator's name at the application. You have a comment of the Application o	methods for filing common polication. You have FIF1 or received in the mail by the stee. Check with your possive been contacted by the described in these material be in writing. Your contact well number and the application of the power to deny or composed well work will consider would occur to publicly reposed well work fails to populate the committed a copy of the permit on the Chief.	the Chief's office by the stmaster to ensure ad well operator and you so, then the permit may ments must include oproximate location of the such as sketches, condition a well work pestitute a hazard to the structure of lands or resour owned lands or resour substantial violation of the structure of the substantial violation of the sub	the filing date to file time stated above equate delivery tin have signed a "vo be issued at any tir your name, address the proposed well smaps or photographermit based on comafety of persons, ate or effective; ces; rees or supplies; fa previous permit as failed to abate or copy of the orders a list of water tes	ss and telephone number, the well site including district and county from the support your comments. In the support your comments on the following grounds:  It or a substantial violation of one or or seek review of the violation"  It denying the permit, you should sting laboratories which you can hire
I hereby so Application for a Worder on Form Worder described therein.  I further st a permit being issue	o establish water quality properties that I have read the invell Work Permit on Form W2-B, a survey plat, and that I have no objectioned on those materials.	rior to and after drilling.  FARY STATEMENT OF  Instructions to surface of  WW2-A, and attachmed  a soil and erosion ple  In to the planned work	Contact the Chief F NO OBJECTION owners and that I hents consisting of pan, all for propose described in these	to obtain a copy.  ave received copies of a Notice and ages 1 through including a work d well work on my surface land as materials, and I have no objection to
FOR EXECUTION	BY A NATURAL PERSOI	Stron	FOR EXECUT	ION BY A CORPORATION, ETC.
	90A	29 - 14	C.W. Can	npbell Company
		Date: Na	ime	211
Signa	ature	Environmental Programmer By		Kaldwin
	An Elec o	IIO	2 verides	12/1
			Signature	Date
			Signature	09/26/2014
				00/20/2017

MANA	1-24	Surface	Waiver
VVVI	1-21	Sullace	vvaivei

VVVV Z/Y Ouria		JRFACE OWN	IER WAIVI	ER		
County	Mingo	Operate	or		Quality Natu	ral Gas, LLC
	minge		or well num	nber	23	57
	INSTRUCTIONS TO	SURFACE OWI	NERS NAME	D ON PAGE	WW2-A	
If the surface tract appeared on the SI be the only owner permits are valid for	perator named on page WV is owned by more than the heriff's tax ticket on the land who will actually receive or 24 months. If you do not ately if you know who it is.  NOTE: YOU AR WHERE TO FILE COM	ree persons, the id or because you these materials.) t own any interest Also, please notifi E NOT REQUIR!	n these mate u actually occ See Chapt st in the surfa fy the well ope ED TO FILE	erials were secupy the surfacter 22 of the loce tract, pleaterator and the ANY COMME	rved on you be ce tract. In eith West Virginia on se forward thes Office of Oil ar NT.	ner case, you may Code. Well work se materials to the
Chief, Office of Oil	and Gas OR District Oil and	d Gas Inspector				
Department of Env 601 57 <sup>th</sup> St. SE	ironmental Protection					
Charleston, WV 25 (306) 926-0450	5304					
operator files his A be filed in person of be sure of the da handling. If you ha the planned work of Comments must operator's name and the application. You The Chief 11) The pr 12) The so 13) Damag 14) The pr 15) The approve of If you wa request a copy fro List of Wa to test your water to I hereby so Application for a Wo order on Form Wi	ater Testing Laboratories o establish water quality pri	EEN (15) DAYS ne Chief's office It tmaster to ensur well operator and s, then the permit ments must inco proximate locatio ts, such as sketcl ondition a well we titute a hazard to ntrol plan is not a owned lands or re rotect fresh water substantial violati der Chapter 22, a as it is issued  The Office mai for to and after dr Structions to surf NW2-A, and atta	after the filing by the time side adequate of you have side adequate of the property of the safety of dequate or esources; and has failed or a copy of the contact of the safety of the	g date to file y tated above. delivery time gned a "volunged at any time me, address osed well site photographs sed on commo persons. If ective; supplies; ious permit of to abate or set the Ohief to BJECTION and that I have sisting of pag	You may call the or to arrange tary statement and telephone including district to support your ents on the following the period of the entire that is a substantial seek review of the entire that is a substantial seek revie	comments must be Chief's office to special expedited of no objection" to number, the well of and county from comments. It is wing grounds:  violation of one or the violation".  ermit, you should which you can hire es of a Notice and including a work
described therein. I further st	ate that I have no objection	to the planned v	vork describe	ed in these ma	aterials, and I ha	ave no objection to
a permit being issu FOR EXECUTION	ied on those materials. BY A NATURAL PERSON		FOR	R EXECUTIO	N BY A CORPO	DRATION, ETC.
	Rece	ived		_	n Properties, In	
	20	)ate; 14	Name	lorrey	<i>Evans</i>	
Signa	ature		By	Presid	enx	7. 2
		pt(spin fluis common t Netonian		trung 1	- m	7/2/14
	44 to 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		S	ignature		Date

### 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

Received

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(young of Oil and Gas

### WW-2A Coal Waiver

### COAL OPERATOR, OWNER, OR LESSEE WAIVER

County	Mingo			
Operator	Quality Natural Gas, LLC	Operator's Well N	lumber	2357
	INSTRUCTIONS TO CO	OAL OPERATOR,	OWNER, OR LESSEE	
any objection vo	oal operator, owner, or les ou wish to make or are red e Office of Oil and Gas wi	uired to make by C	ode 22-6-15, 16 or 17	, must be filed with
601 57 <sup>th</sup> St. SE Charleston, WV	Environmental Protection 25304			
(304) 926-0499	extension 1654	WAIVER		
		WAIVEIX		
well location ha well location, th to the work pro	ersigned coal operators examined this proposed be well location has been a posed to be done at this irements of the West Virgi	well location. If a r added to the mine location, provided;	mine map exists which map. The undersigne the well operator ha	ed has no objection
FOR EXECUTION	BY A NATURAL PERSON	F	OR EXECUTION BY A CC	RPORATION, ETC.
			CAM MINING, LLC.	
	Date	Name	RONALD G. H	DLI
Signati		By	KUNGED C. II	
		Its	GM-ENG	
			Ronald G. Hull	8/19/14
			Signature	Date
			170	

Received

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### COAL OPERATOR, OWNER, OR LESSEE WAIVER

County	Mingo			
Operator	Quality Natural Gas, LLC	Operator's Well Nur	mber	2357
	INSTRUCTIONS TO CO	OAL OPERATOR, OV	VNER, OR LESS	EE
any objection you	al operator, owner, or les I wish to make or are req Office of Oil and Gas wi	uired to make by Cod	le 22-6-15, 16 or	17, must be filed with
Chief, Office of O Department of Er 601 57 <sup>th</sup> St. SE Charleston, WV 2	nvironmental Protection			
(304) 926-0499 e				
(00.) 020 0.00		WAIVER		
to the work prop	well location has been a osed to be done at this ements of the West Virgi	location, provided; the	ne well operator l	has complied with all
FOR EXECUTION E	BY A NATURAL PERSON	FOR	EXECUTION BY A	CORPORATION, ETC.
			Cam of Kentucky	Real Estate, LLC
	Date	Name	RONALD G.	HULL
Signatur	e	Ву		
		lts	GM-ENG-	a lia liit
			malel J. Hull	8/19/14
		Si	gnature	Date

Received

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### COAL OPERATOR, OWNER, OR LESSEE WAIVER

County	Mingo		
Operator	Quality Natural Gas, LLC	Operator's Well Number	er <u>2357</u>
	INSTRUCTIONS TO CO	OAL OPERATOR, OWN	ER, OR LESSEE
any objection voi	u wish to make or are req	uired to make by Code 2	N2-A. You are hereby notified that 22-6-15, 16 or 17, must be filed with er the receipt of this application by
601 57 <sup>th</sup> St. SE Charleston, WV	nvironmental Protection 25304		
(304) 926-0499 6	extension 1004	WAIVER	
well location has well location, the to the work prop	examined this proposed well location has been a	well location. If a mine and added to the mine map. location, provided; the	lessee/ of the coal under this map exists which covers the area of The undersigned has no objection well operator has complied with all ing regulations.
FOR EXECUTION E	BY A NATURAL PERSON	FOR EX	ECUTION BY A CORPORATION, ETC.
			Logan Coal & Timber Corporation
	Date	Name 🕏	
Signatu		By Ro	President Thompson 72  President Thompson 2014-67-15
		Signa	ture Date

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WV Dept. of Environmental Protection

### WW-2A Coal Waiver

### COAL OPERATOR, OWNER, OR LESSEE WAIVER

County	Mingo					
Operator	Quality Natural Gas, LL	c Operato	or's Well Nur	nber	2357	-
	INSTRUCTIONS TO	COAL OPE	RATOR, OV	VNER, OR L	ESSEE	
any objection y	oal operator, owner, or ou wish to make or are r e Office of Oil and Gas	equired to r	nake by Cod	le 22-6-15, 1	6 or 17, must be filed w	vith
601 57 <sup>th</sup> St. SE Charleston, W	Environmental Protectio	n				
(00.1) 020 0100		WAI	VER			
well location ha well location, th to the work pro applicable requ	lersigned coal operator as examined this proposine well location has been oposed to be done at the lirements of the West Vi	ed well loca n added to nis location,	tion. If a mir the mine ma provided; the and the gove	ne map exists ap. The und ne well opera erning regula	s which covers the area ersigned has no object ator has complied with	a of tion all
				C.W. Camp	bell Company	
	Da	te	Name			
Signat	ure		Its P	gnature	ll 7/7/19 Date	4
				Ro	ceived	
				400	2 9 7014	
				WW Debt - 6	(V.Ottan) Glas	

### COAL OPERATOR, OWNER, OR LESSEE WAIVER

County	Mingo		
Operator	Quality Natural Gas, LLC	Operator's Well Number	2357
	INSTRUCTIONS TO C	OAL OPERATOR, OWNER, O	OR LESSEE
any objection vo	ou wish to make or are red	uired to make by Code 22-6-	You are hereby notified that 15, 16 or 17, must be filed with e receipt of this application by
601 57 <sup>th</sup> St. SE Charleston, WV	Environmental Protection / 25304		
(304) 926-0499	extension 1654	WAIVER	
well location, the	ne well location has been oposed to be done at this	added to the mine map. The	exists which covers the area of undersigned has no objection operator has complied with all egulations.
FOR EXECUTION	BY A NATURAL PERSON	FOR EXECUT	TION BY A CORPORATION, ETC.
		Dinge	ss-Rum Properties, Inc
S/	Date	Name	rey Evans
Signati	ure		osident 7/2/14
		Signature	Date

Received

A 2 9 1014

Office of Oll and Gas

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

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

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4	J	J	٠

## 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

ALC 29 114

United of Cill and Gas
WV Dropt of Environmental Protection.

09/26/2014

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:	Terry 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 11 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.

Designated Operator

Quality Natural Gas, LLC

By: Quality Natural Gas Management, LLC

Its: Manger

By: General Manager Consenting Party:

Kinzer Business Realty, Ltd.

By: Kinzer Buiness Realty, LLC

Its: General Partner

General Manager

TATE OF KENTUCKY
TATE AT LARGE
, a Notary Public of said County and State aforesaid, do rify that bound the within writing has this day acknowledged the same before me in said county.
y commission expires 4.24.2017
ven under my hand this U day of Septenden, 2014  Deptendent of Motary Public NOTAR DEAL NOTAR DEPARTMENT OF KENTUCKY
ATE OF KENTUCKY
ATE AT LARGE
, a Notary Public of said County and State aforesaid, do certify that Doug vden, General Manager of Kinzer Business Realty, Ltd., whose name is signed to the within writing is this day acknowledged the same before me in said county.
Commission Expires: 4.27.267
ven under my hand this day of Seph La. 2014  Mary Public  Out of Seph La. 2014

WW-2B1 (5-12)

Well No.	2357		
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### 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.

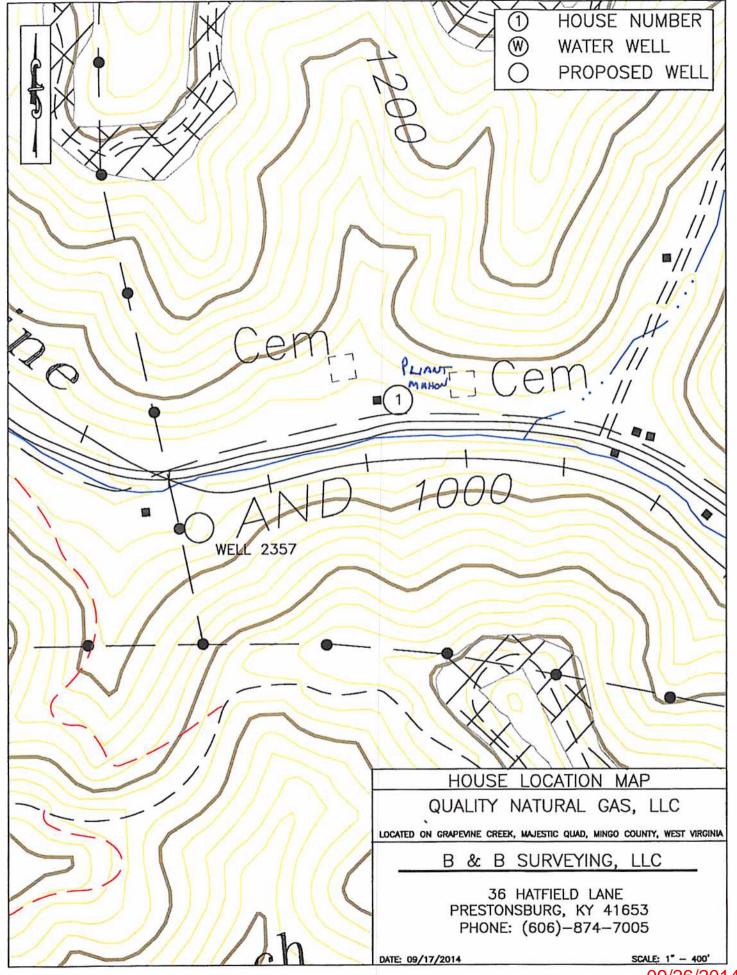
Certified Labora		ACCULAB, INC., 167 Stollings Avenue, Logan, WV 25601
Sampling Conti	ractor	Acculab, Inc., 167 Stollings Avenue, Logan, WV 25601
Well Operator	Quality Natural	Gas, LLC
Address	P.O. Box 460	
	Allen, KY 4160	1

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 ATTACHED

WW-2BA WELL #2357

PLIANT MAHON
POBOX 392
MATENAN, WV 25678



FORM WW-9 Rev. 05/10 Page of
API Number 47 - 059 Operator's Well No. 2357

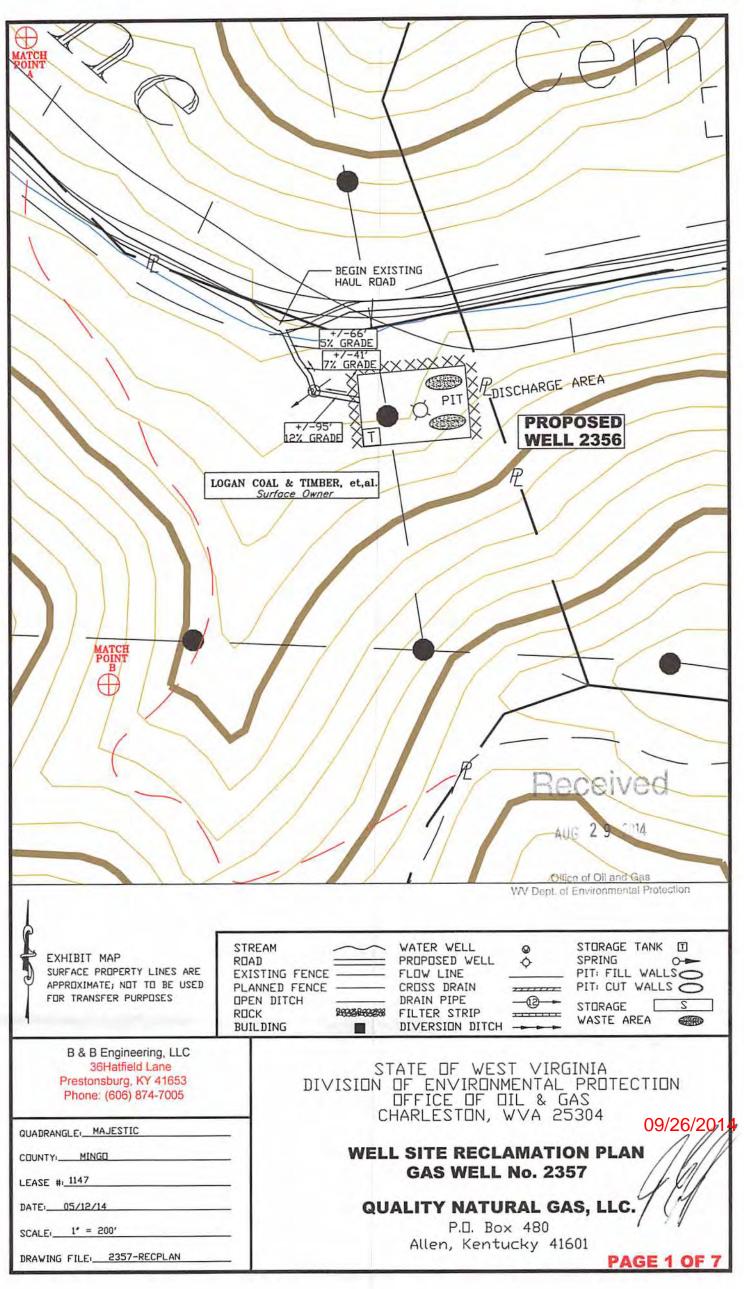
### STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

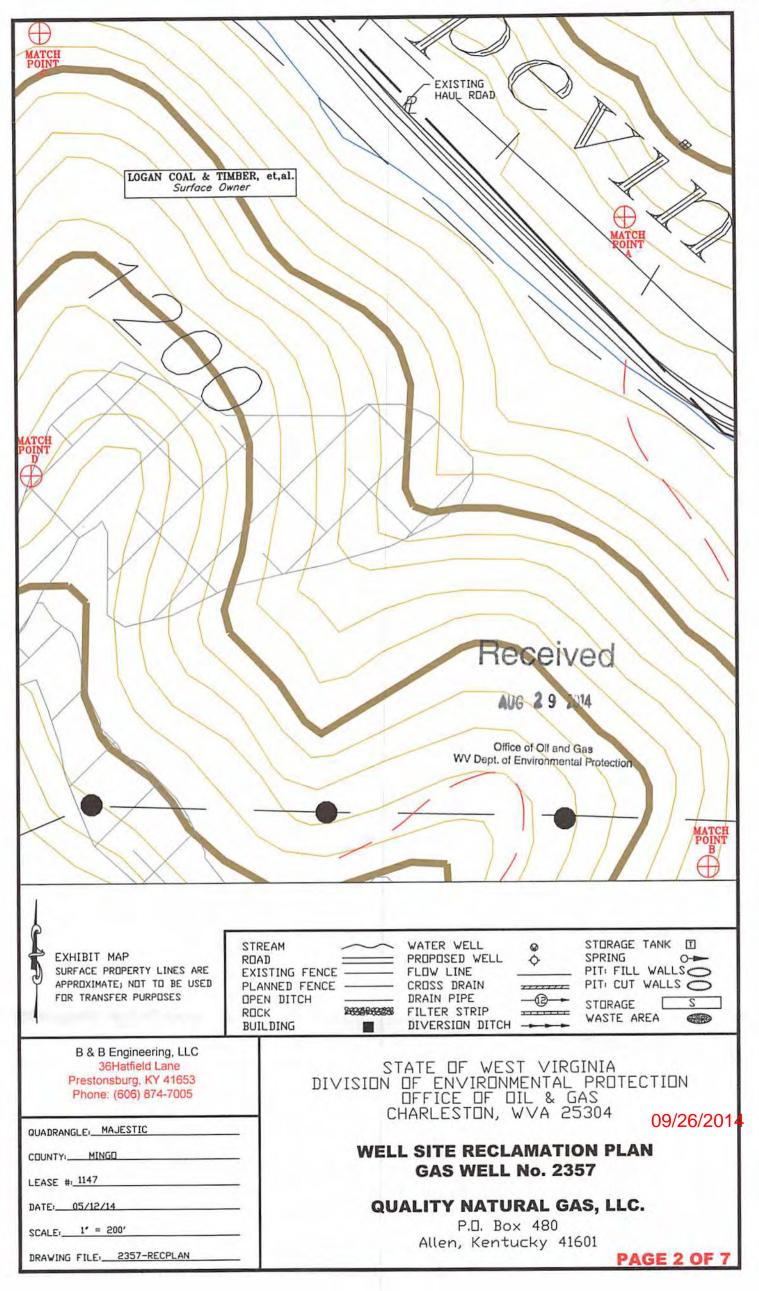
Operator Nan	ne: Quality Natu	ıral Gas, LLC		OP Code: _	494477013	
Watershed:	Grapevine Creek	of the Tug Fork River			Quadrangle: Majesti	ie
Elevation	794.20	County: Mingo	District:	Magnolia		_
Description o	f anticipated Pit Wa	ste: Water encountered w	hile drilling a	nd various for	mation cuttings	
Do you antic	ipate using more th	an 5,000 bbls of water to con	nplete the prop	osed well work?	YesNo	_X
Will a synthe	tic liner be used in the	he pit? Yes, if impervious	naterial is un	available on sit	e-If so what mil?;	10- 2041L.
Proposed Dis	posal Method For T	reated Pit Wastes:				
	<u>x</u>	Land Application Underground Injection (	(UIC Permit Nu	mber		)
		Reuse (at API Number_ Off Site Disposal (Supp Other (Explain_	ly form WW-9	for disposal locat	ion)	
-lf	ium anticipated for t oil based what type? be used? <u>No Addit</u>					
-1f	left in pit and plan to	eave in pit, landfill, removed of solidify what medium will be e/permit number?	used? Cement,	lime, sawdust		
31, 1999, by enforceable laction. I coall attachmer information	the Office of Oil and by law. Violations ertify under penalty its thereto and that, is true, accurate, and	d Gas of the West Virginia Di- of any term or condition of the of law that I have personally e based on my inquiry of those	vision of Environment general permits and an and an individuals improved the control of the cont	onmental Protection it and/or other a not	on. I understand that pplicable law or reg e information submi- sible for obtaining the	N PERMIT issued on December the provisions of the permit a gulation can lead to enforcement tited on this application form an including the possibility
of fine or im	A STANCE OF THE	- V				
		Tung K.				
Company Of	Ticial (Typed Name	) Terry Kinzer and/or Je	rry Kinzer			
Company Of	ficial Title Man	ager / Quality Natural Gas M	lanagement, Ll	LC / Manager of	Quality Natural G	as, LLC
Subscribed a	and sworn before me	thisday of	May	, 20	14	
-4	denel	70_		Notar	y Public	
My Commis	sion Expires	1.24.2017	F	Receiv	ed	
				AUG 29 1	14	20 3 (1)

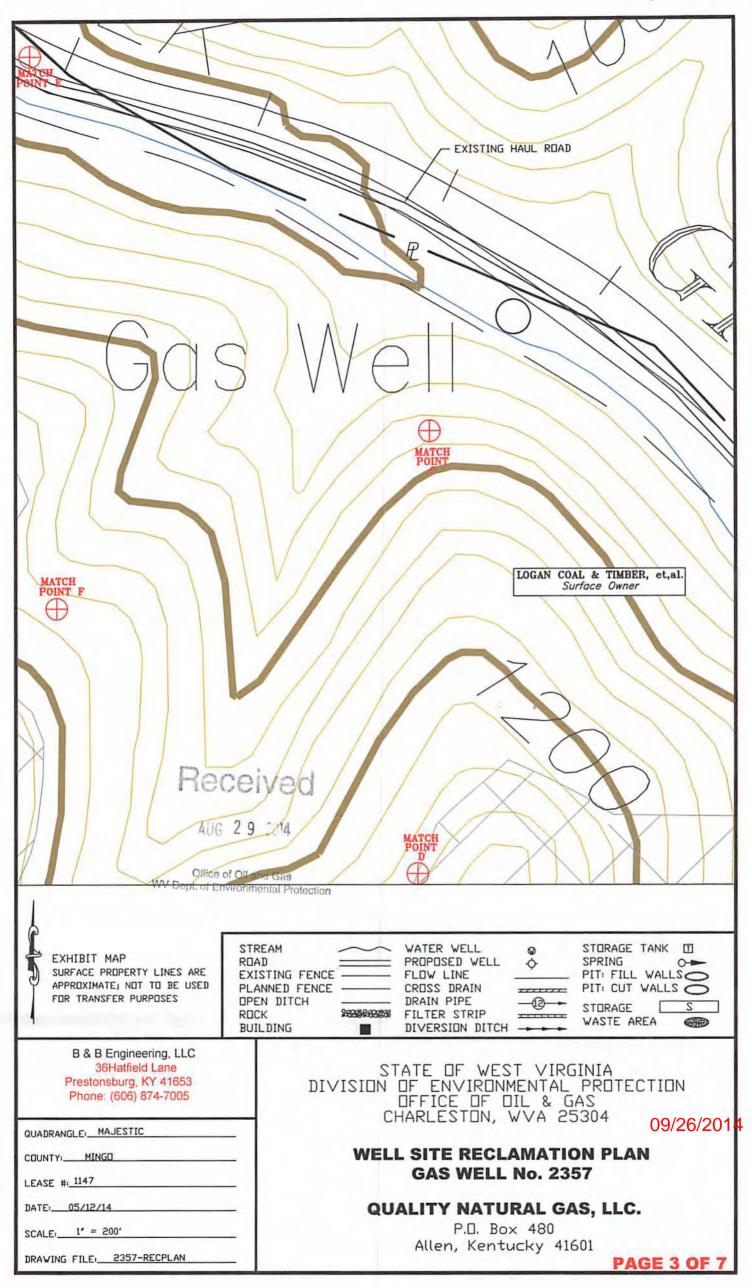
Operator's Well No. \_\_\_\_\_\_2357\_

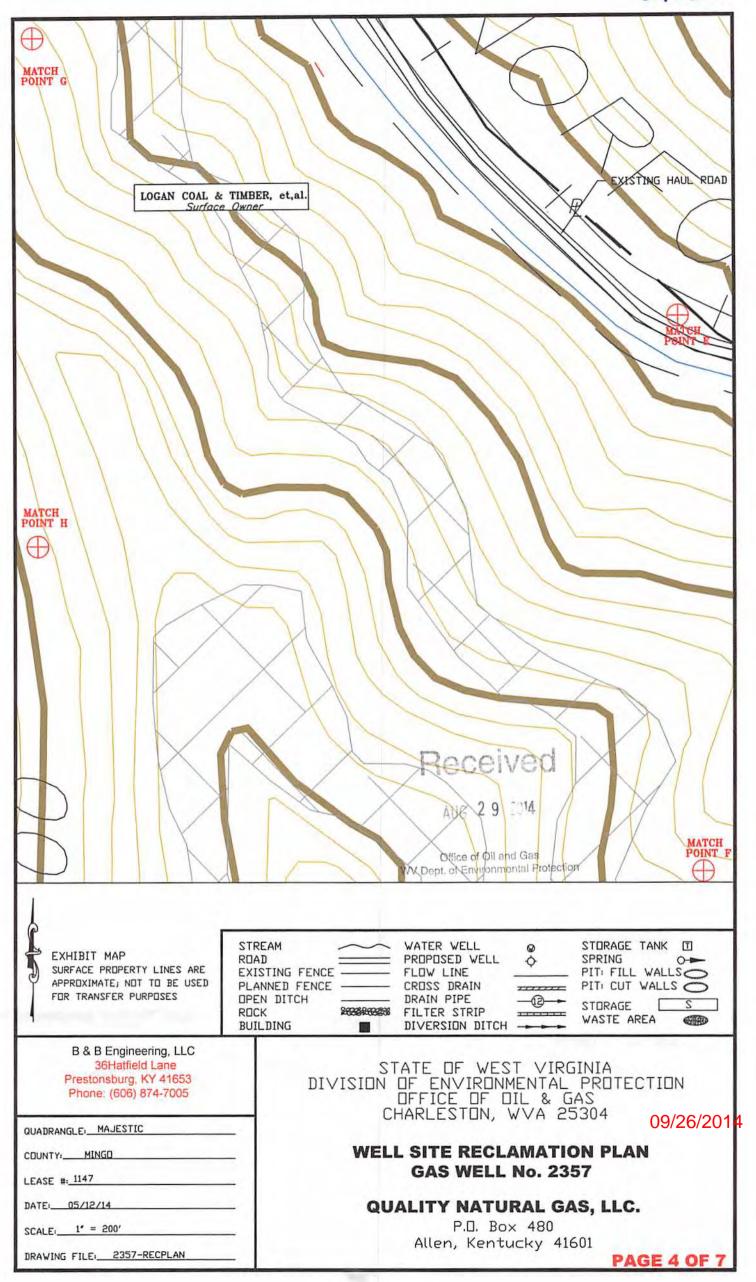
		LEGEND	
Property Boundary		Diversion Weller	<u> </u>
Rond = = = = =	=====	Spring —	
Existing Fence — X —		Wet Spot	
Planned Fence /		Drain Pipe with size in inches	◎
_		Waterway $\longleftrightarrow$	$\rightarrow$ $\Longleftrightarrow$
Open Ditch ————	• •	Cross Drain	
Rock ESESSE	_	Artificial Filter Strip XXXXX	***********
North N	•	Pit: cut walls	
Buildings		Pit: compacted fill walls	
Water wells		Area for Land Application of Pit W	/aste
Drill site			
Proposed Revegetation Treatment:	Acres Disturbed2	Prevegetation pH 7.0	<u>.</u>
Lime3	Tons/acre or to correct to pH_	6.5	
Fertilizer (10-20-20 or e	quivalent) 1/3 Ton	lbs/acre (500 lbs minimum)	
Mulch2	Tons/acre or hydroseed		
	S	eed Mixtures	
Area I Seed Type	lbs/acre	Area II Seed Type	lbs/acre
• •	40	Onshard Crees	15
KY-31 Alsike Clover	10	Orchard Grass Alsike Clover	<u>15</u> 5
Annual Rye	5		
Redtop	2		
Attach: Drawing(s) of road, location, pit a Photocopied section of involved 7	nd proposed area for land applicati	on.	
Plan Approved by:			
Comments:			
Title Inspector	Date:	1-14 Receiv	ed
	Viyes (	0 0 0	14
Field Reviewed? (	V ) Yes (	) No AUG 2 9 1.	·**

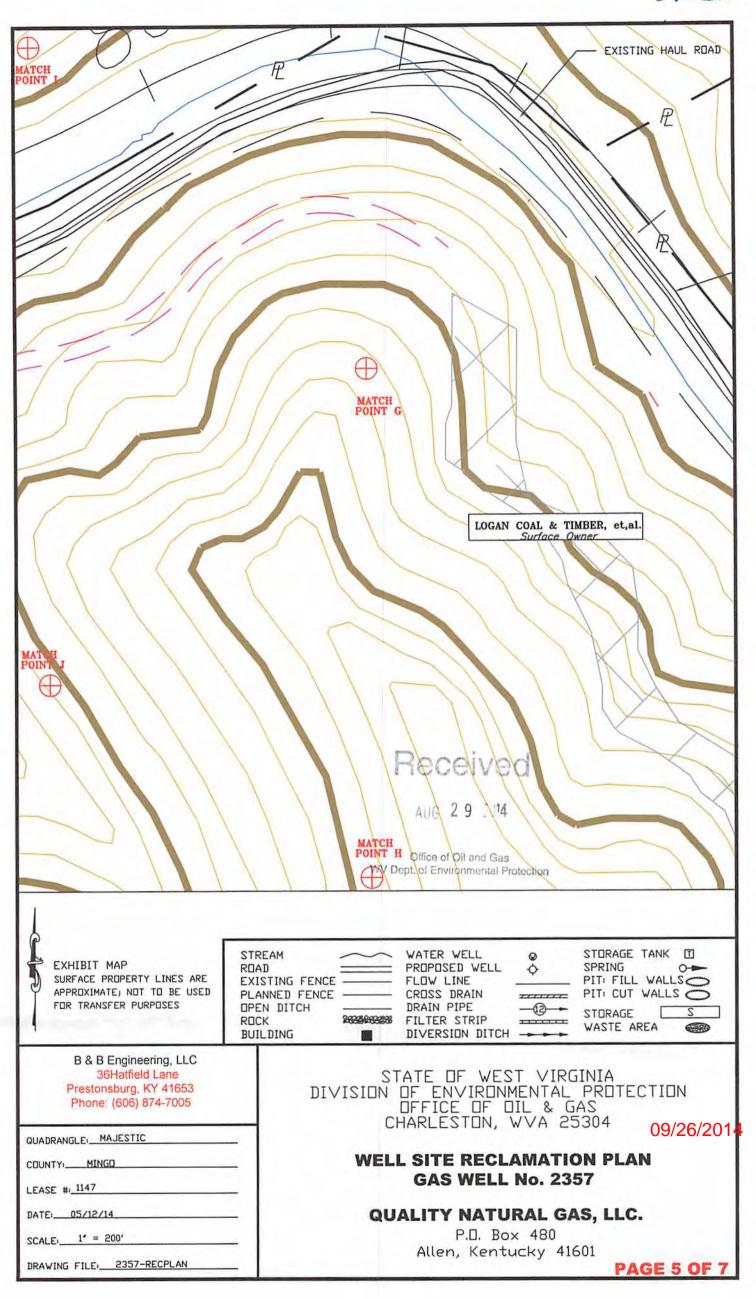
Office of Oil and Gas WV Dept. of Environmental Protection

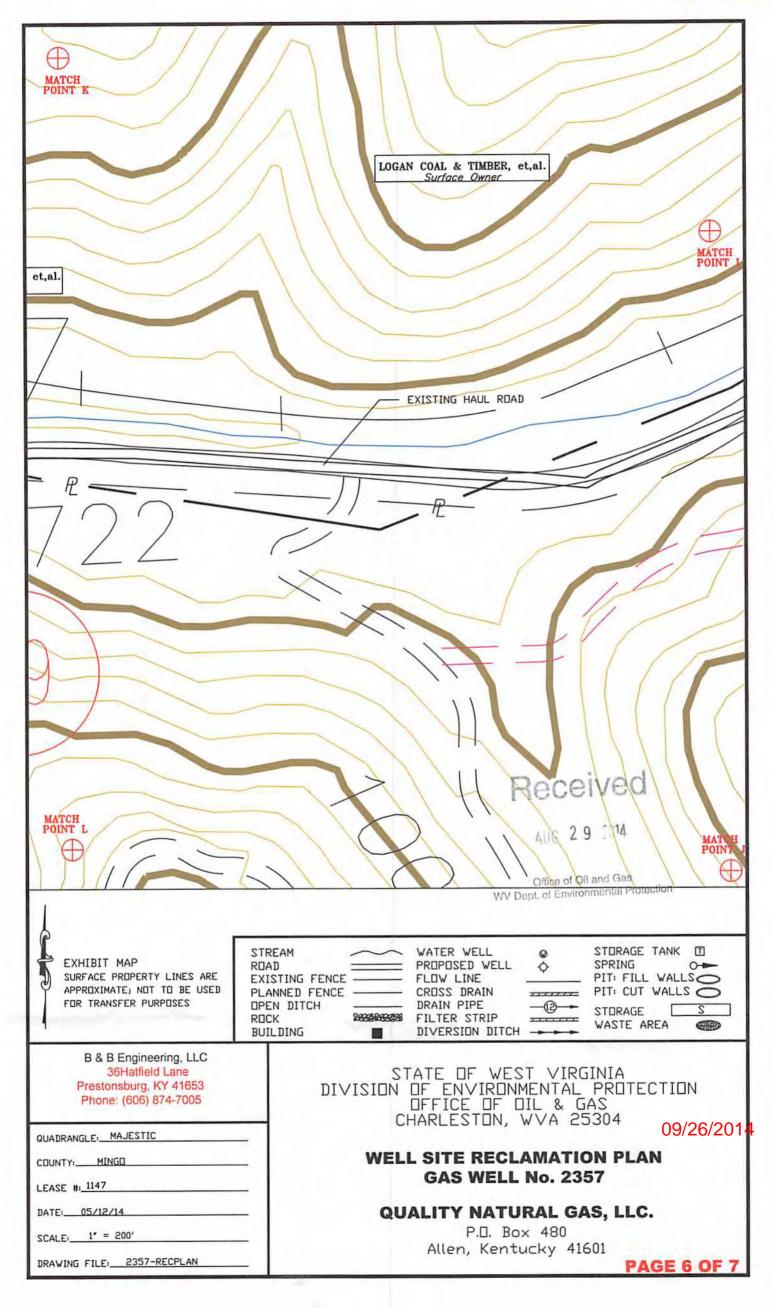


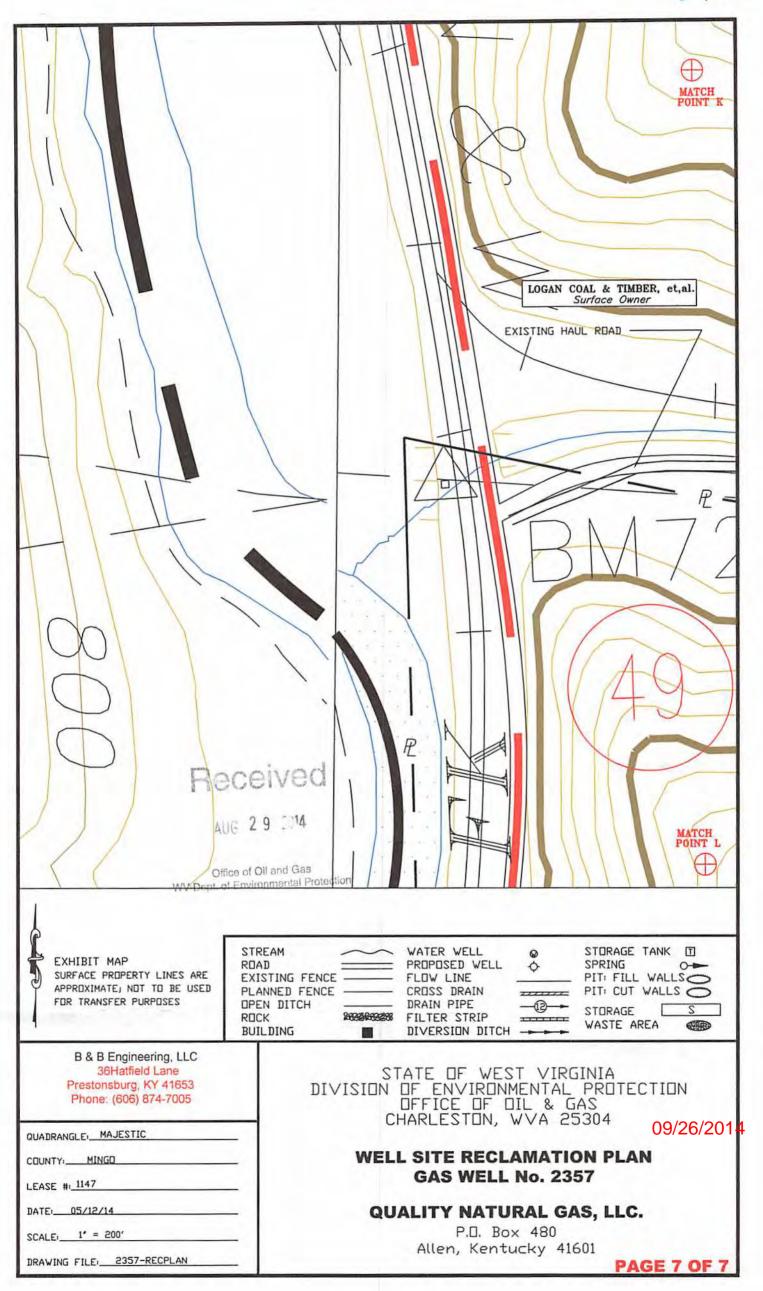


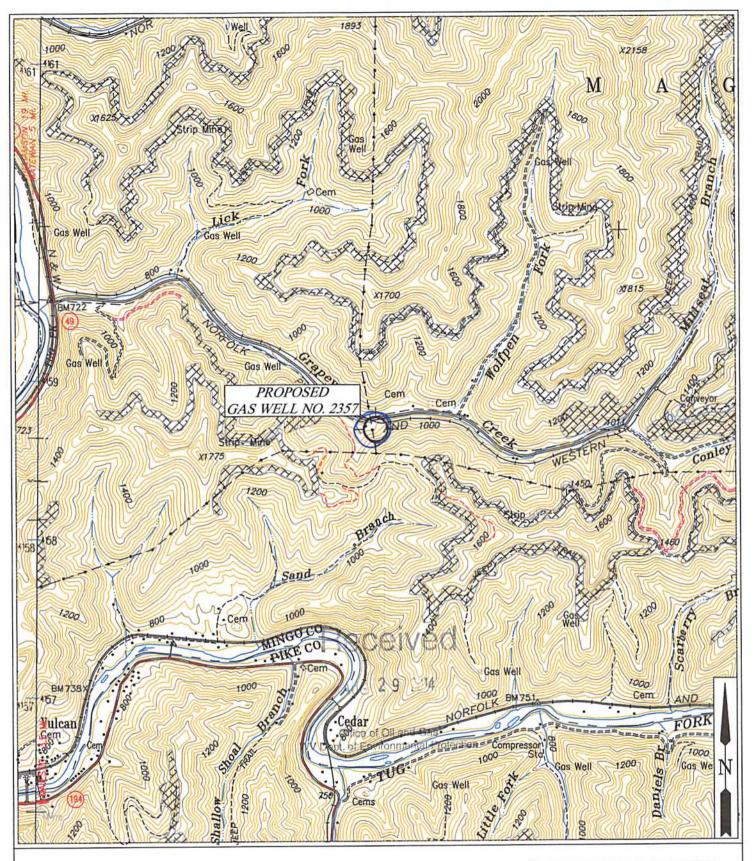












B & B Engineering, LLC 36 Hatfield Lane

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

### QUALITY NATURAL GAS, LLC. LOCATION MAP

PROPOSED GAS WELLINO. 2357

QUAD: MAJESTIC

SCALE: 1" = 2000'

DATE: 05/12/2014

FILE NAME: 2357-VicMap.DWG

09/26/2014

### 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:

<ol> <li>The undersigned is/are the owr</li> </ol>	ner(s) of record of	
X_ the surface		
or		
an interest in the su	rface of a tract of land desc	cribed as follows:
Acres +/- 401		
Watershed Grapevine Cre-	ek of the Tug Fork River	
District Magnolia		
County Mingo		
Public road access	State Route 49	TOTAL CONTROL OF THE PARTY.
Generally used farm name	Logan Coal & Timber Corp	poration, et,al.
<ol> <li>The undersigned realize ( eferenced surface tract in connect Well Operator <u>Quality Na</u></li> </ol>	ion with the operation of the	
Address B.O. Bo	x 480	
	41601	
Tolophone (606) 874	-8041	
Well: ADI Dormit No	-8041 47	(Pending)
3) For sufficient and satisfa	ctory reasons, the unders	signed hereby prescribe that as far as the
surface interest owned by the under the buried as follows:	ersigned is/are concerned,	the production or gathering pipeline need not
X On any part of th	e surface tract identified at	pove:
or		
On the following p	arts of the surface tract ide	ntified above:
From		
From	To	
From	To	
(For execution by corporation, partnership, etc.)	(For execution by natura	al persons)
Name: Dingess-Rum Properties,	nc	haceived
Dingess Auti Froperics,	1	1
By: hung him Sign	Date: 7/2	179 29 204
Its: President	Tary C	

WV 12.10 - WV 10.10 09/26/2014

FORM WW-75 (REV. 9/94)

### 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:

	X the surface			
0				
	an interest in the surfac	e of a tract of land describe	ed as follows:	
	Acres +/- 401			
	Watershed Grapevine Creek o	of the Tug Fork River		
	District Magnolia			
	County Mingo			-
	Public road access State		Non-at-al	-
	Generally used farm name Loc	gan Coal & Timber Corpora	tion, et,ai.	
(2) referer	The undersigned realize (s) the need surface tract in connection	hat a production or gather with the operation of the we	ng pipeline is all identified be	to be installed across the low:
	Well Operator Quality Natura	I Gas, LLC		
	Address P.O. Box 48	30		_
	Allen KV 116	601		
	Allen, KT 4 IC	001		
	Telephone (606) 874-804	41		-
	Telephone (606) 874-804 Well: API Permit No. 47-	41	; (Pending)	
surfac	Telephone (606) 874-804 Well: API Permit No. 47- For sufficient and satisfactor e interest owned by the undersig ied as follows:	y reasons, the undersigned is/are concerned, the part of the part	; (Pending) ed hereby pre production or g	scribe that as far as the eathering pipeline need <b>no</b>
surfac	Telephone (606) 874-804 Well: API Permit No. 47- For sufficient and satisfactor interest owned by the undersig	y reasons, the undersigned is/are concerned, the part of the part	; (Pending) ed hereby pre production or g	escribe that as far as the pathering pipeline need <b>no</b>
surfac	Telephone (606) 874-804 Well: API Permit No. 47- For sufficient and satisfactor e interest owned by the undersig ied as follows:	y reasons, the undersigned is/are concerned, the part of the part	; (Pending) ed hereby pre production or g	escribe that as far as the pathering pipeline need <b>no</b>
surfac	Telephone (606) 874-804 Well: API Permit No. 47- For sufficient and satisfactor e interest owned by the undersig ied as follows:  X On any part of the su  or	y reasons, the undersigned is/are concerned, the part of the part	; (Pending) ed hereby pre production or g	escribe that as far as the pathering pipeline need <b>no</b>
surfac	Telephone (606) 874-804 Well: API Permit No. 47- For sufficient and satisfactors interest owned by the undersigned as follows:  On any part of the success On the following parts	y reasons, the undersigned is/are concerned, the purface tract identified above of the surface tract identified	; (Pending) ed hereby pre production or g :	athering pipeline need <b>no</b>
surfac	Telephone (606) 874-804  Well: API Permit No. 47-  For sufficient and satisfactor e interest owned by the undersigned as follows:	y reasons, the undersigned is/are concerned, the purface tract identified above of the surface tract identified	; (Pending) ed hereby pre production or g : ed above:	athering pipeline need <b>no</b>
	Telephone (606) 874-804 Well: API Permit No. 47-  For sufficient and satisfactor e interest owned by the undersigned as follows:  On any part of the success or On the following parts  From From	y reasons, the undersigned is/are concerned, the purface tract identified above of the surface tract identified	; (Pending) ed hereby pre production or g : ed above:	athering pipeline need <b>no</b>
surfactore bur	Telephone (606) 874-804 Well: API Permit No. 47- For sufficient and satisfactor interest owned by the undersigned as follows:	y reasons, the undersigned is/are concerned, the purface tract identified above of the surface tract identified ToTo	; (Pending)  ed hereby pre production or g  :  ed above:	athering pipeline need <b>no</b>
surfactor be bur	Telephone (606) 874-804 Well: API Permit No. 47-  For sufficient and satisfactor e interest owned by the undersigned as follows: XOn any part of the success or On the following parts  From From From From From From From From From	y reasons, the undersigned is/are concerned, the purface tract identified above of the surface tract identified ToTo	; (Pending)  ed hereby pre production or g  :  ed above:	athering pipeline need <b>no</b>
(For e. partne	Telephone (606) 874-804 Well: API Permit No. 47- For sufficient and satisfactor interest owned by the undersigned as follows:	y reasons, the undersigned is/are concerned, the purface tract identified above of the surface tract identified ToTo	; (Pending)  ed hereby pre production or g  :  ed above:	Pathering pipeline need no
(For e. partne	Telephone (606) 874-804 Well: API Permit No. 47- For sufficient and satisfactor interest owned by the undersigned as follows:  On any part of the success or On the following parts  From	y reasons, the undersigned is/are concerned, the purface tract identified above of the surface tract identified ToTo	; (Pending)  ed hereby pre- production or g  :  ed above:	Pathering pipeline need no

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(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:	
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) The undersigned realize (s) that a production or gathering pipeline is to be referenced surface tract in connection with the operation of the well identified below:	e installed across the
Well Operator Quality Natural Gas, LLC	
Address P.O. Box 480	
Allen, KY 41601	
Telephone (606) 874-8041	
Telephone (606) 874-8041 ; (Pending)	
(3) For sufficient and satisfactory reasons, the undersigned hereby prescrib surface interest owned by the undersigned is/are concerned, the production or gathe be buried as follows:  X On any part of the surface tract identified above:	e that as far as the ring pipeline need <b>not</b>
or	
On the following parts of the surface tract identified above:	
From To	
FromTo	
FromTo	
(For execution by corporation, partnership, etc.)  (For execution by natural persons)	
Name: Logan Coal & Timber Corporation	Received
By: Prolum & humpy, Date: 2014-07-18	AUG <b>2 9</b> 20 <b>14</b>
Its: President Signature	AUG 43 714

Office of Oil and Gas
WV Dept. of Environmental Protection

### **CAM Mining, LLC.**

P.O. Box 1169 Pikeville, KY 41502

May 12, 2014

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

Quality Natural Gas, LLC
Gas Well Application
Well Number 2357 WV State Plane Coordinates N 210,136
E 1,680,984

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 & Hull

its: GM-ENG

Date: 8/19/14

77 seived

### CAM of Kentucky Real Estate, LLC.

P.O. Box 1169 Pikeville, KY 41502

May 12, 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 2357 WV State Plane Coordinates N 210,136 E 1.680.984

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Date: \_\_\_\_\_8/19/14

41 29 : 14

5902250

### Dingess-Rum Properties, Inc.

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

May 12, 2014

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

Quality Natural Gas, LLC
Gas Well Application
Well Number 2357 WV State Plane Coordinates N 210,136
E 1,680,984

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y: \_ hu

By: Preside

- Beived

29:14

### C.W. Campbell Company

848 Fourth Avenue, Suite 301 Huntington, West Virginia 25701

May 12, 2014

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

Quality Natural Gas, LLC
Gas Well Application
Well Number 2357 WV State Plane Coordinates N 210,136
E 1,680,984

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By: Poesident

Date: \_

Received

101 29 7114

### **Logan Coal & Timber Corporation**

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

May 12, 2014

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

Quality Natural Gas, LLC
Gas Well Application
Well Number 2357 WV State Plane Coordinates N 210,136
E 1,680,984

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iIs By: President

Date: 2014-07-15

40 29 2014