

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Monday, October 23, 2017 WELL WORK PERMIT Vertical / New Drill

QUALITY NATURAL GAS, LLC 1555 KY ROUTE 80

PRESTONBURG, KY 41653

Re:

Permit approval for 2361 47-059-02261-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

Operator's Well Number: 2361

Farm Name: LOGAN COAL & TIMBER CORP, C. W. CAMPBELL CO. & JLG

Chief

James A. Martin

U.S. WELL NUMBER: 47-059-02261-00-00

Vertical / New Drill

Date Issued: 10/23/2017

Promoting a healthy environment.

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, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

4705902261

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

(b) If Gas: Production X / Underground Storage	i) vveii Operato	r: Quali	ty Natura	l Gas, LLC	494477013	Mingo	Magnolia	Majestic
(b) If Gas: Production X / Underground Storage					Operator ID	County	District	Quadrangle
(b) If Gas: Production X / Underground Storage	2) Operator's Well Number: 2361				3) Elevation:	1388.78	_	
Deep/ Shallow X	l) Well Type: (a	ı) Oil	or Ga	x				
Proposed Target Formation(s): B Lime, Berea, B Shale Proposed Target Depth: 3562-4795 Proposed Total Depth: 4930 Feet Formation at Proposed Total Depth: Harrell Shale Approximate fresh water strata depths:	(b) If Gas:	Produ	ction X / Un	derground Sto	rage		
Peet Formation at Proposed Total Depth: Harrell Shale Peet Permation at Proposed Total Depth: Harrell Shale Pemproximate fresh water strata depths: 952-954 Peet Permation at Proposed Total Depth: Permatic Shale Permatic Sh			Deep	o/ S	Shallow X			
10) Approximate void depths, (coal, Karst, other): None expected. If void is encountered, see attached form WW-2B 11) Does land contain coal seams tributary to active mine? No 2) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed) rown Shale will be perforated with 20-40 holes and fracked with 1,000 mcf of N2 only. 12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed) rown Shale will be perforated and fracked with 1,000 mcf of N2 only. 13) CASING AND TUBING PROGRAM TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT 13) CASING AND TUBING PROGRAM TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT 14) Conductor 13 3/8" L.S. 37# 42' 42' C.T.S 15) Fresh Water 9 5/8" L.S. 32# 990' 990' C.T.S 16) Coal 9 5/8" L.S. 32# 990' 990' C.T.S 17) Intermediate 7" L.S. 20# 2,674' 2,674' C.T.S 18) Production 4 1/2" WTC-65 10.5# 4,930' 4,930' 200' up in 7" 18) Tubing Liners 19 Depths Set WW-Department	6) Proposed To 7) Approximate	tal Depth fresh wa	ter strata	Feet 952-954	Formation at I			
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Sizes: SEP 2 9 20 Depths Set	Dankara: Kind				,			Office of Oil and
Depths Set		-						SEP 2 9 20
	3.36	-					c	- 10/27/201

AF. 9-29-17

Form: WW - 2B ATT:

If a mine void is encountered, the 13 3/8" conductor pipe will be pulled, allowing us to drill on down with 17 $\frac{1}{2}$ " bit to 30' +/- below mine floor. This will allow us to set 13 3/8" below mine void and cement below and above void using baskets. We can then continue on with 12 1/4" bit to fresh water casting point. The 9 5/8" casing can be set thru 2^{nd} void if encountered and to fresh water casing point.

Office of Oil and Gas

SEP 2 9 2017

WV Department of Environmental Protection

10/27/2017 9-29. n

WW-2	2A
(Rev.	6-14)

1). Date: <u>08-25-2017</u>

2.) Operator's Well Number

2361 County

Permit

3.) API Well No .:

State 47-

MINGO

02261

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT Office of Oil and Gas

4) Surface Ow	vner(s) to be served: 5	i) (a) Coal Op	erator
(a) Name	See ATTACHMENT WW-2A-1	Name	CAM MINING. LLC Vcw SEP 2 9 2017
Address	GOOTH THOUNDERT WWY Z/Y T	Address	P.O. BOX 1169 WV Department of
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		71441000	P.O. BOX 1169 WV Department of PIKEVILLE, KY 41502 Environmental Protectio
(b) Name		(b) Coal C	Owner(s) with Declaration
Address		Name	SEE ATTACHMENT WW2-A-2
		Address	OLE ATTACHMENT WWZ AZ
	1		-
(c) Name		Name	
Address		Address	
6) Inspector	ALLEN FLOWERS	(c) Coal Le	essee with Declaration / CW
Address	165 GRASSEY LICK LANE	Name	CAM OF KY REAL ESTATE, LLC
	LIBERTY, WV 25124	Address	P.O. BOX 1169 PIKEVILLE, KY 41502
Telephone	304-552-8308		
	TO THE PERSONS NAMI	ED ABOVE T	AKE NOTICE THAT:
Included is t			acts by which I hold the right to extract oil and gas
OR			
			on 8(d) of the Code of West Virginia (see page 2)
I certify	that as required under Chapter 22-6 of	the West Virg	inia Code I have served copies of this notice and
application, a loc	ation plat, and accompanying document	ts pages 1 thro	ugh on the above named parties by:
-	Personal Service (Affidavit attache		/u
<u>X</u>	Certified Mail (Postmarked postal		:d)
12 m	Publication (Notice of Publication		i sala in inclusion can la prese examinada a
		35 CSR 4, and	I agree to the terms and conditions of any permit
issued under this		ally examined	and am familiar with the information submitted on
			ry of those individuals immediately responsible for
	ormation, I believe that the information is		
			alse information, including the possibility of fine and
imprisonment.			
			ATURAL GAS. LLC
			ATURAL GAS MANAGEMENT, LLC
		MANAGER.	Jemy Jense
		P.O BOX 46	
		ALLEN, KY 4	
		(606)874-80	11
	Email: _		ALL THE WAR
Subscribed and	sworn before me this 24 day of	Sester	60 2017 Duane Lester
7.24.200		100	Notary Public
My Commission	Expires 7. 27. 2027		8 2 3
Oil and Gas Privacy	Notice		17/ 2/4
The Office of Oil an	d Gas processes your personal information, su	ich as name, add	ress and phone number, as a part of our regulatory duties.

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer 0/27/201

WW-2A-1 SURFACE OWNERS

4705902261

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

JLCLCT, LLC

723 Kanawha Blvd 14th Floor

Charleston, West Virginia 25301

RECEIVED
Office of Oil and Gas

SEP 2 9 2017

WW-2A Surface Waiver (4/16)

SURFACE OWNER WAIVER

		SUKFACE O	WINER WAIVER			
County	MINGO	Оре	erator	Quality Natu	Natural Gas, LLC	
		Ope	erator well numb			
	INSTRUCTION	ONS TO SURFACE C	WNERS NAMED C	N PAGE WW2-A		
If the surfact appeared or be the only of are valid for		than three persons, the land or because eive these materials.) own any interest in the po, please notify the well of the land	then these materials you actually occupy See Chapter 22 of surface tract, pleased all operator and the IRED TO FILE AN	s were served on you the surface tract. In a the West Virginia Code forward these materion office of Oil and Gas.	because your name either case, you may e. Well work permits	
	of Oil and Gas				SEP 2 9 2017	
	of Environmental Protection	on			52. 20 LON	
601 57th St. Charleston,					WV Department of	
(304) 926-04				E	nvironmental Protection	
be filed in periods be sure of the lif you have be work described. Com operator's not the application. The application of the sure of the lift you a copy from List to test your with the lift order on For described the lift of the lif	of Water Testing Labora vater to establish water que VC eby state that I have read or a Well Work Permit on m WW2-B, a survey plat, \	ail by the Chief's office ostmaster to ensure a operator and you have the permit may be is g. Your comments must the approximate local ocuments, such as skeen or condition a well ill constitute a hazard ment control plan is not ablicly owned lands or all to protect fresh was ed a substantial violating the control of the condition of the control of t	the by the time stated dequate delivery time designed a "voluntar such at any time. The sust include your nantion of the proposed to the safety of person adequate or effect resources; ter sources or supplied to abate a copy of the order a copy of the order addition. Contact the ENT OF NO OBJE or and the transport of the order than the consisting of the order than the consisting erosion plan, all for the sust of the contact the contact that the contact the cont	d above. You may call he or to arrange special ry statement of no object the property of the proposed well work of the proposed well well and the proposed well work of the proposed well well and the proposed well and the proposed well and the proposed well and the proposed we	I the Chief's office to I expedited handling. ction" to the planned one number, the well trict and county from our comments. ollowing grounds: Ilation of one or more violation". you should request a which you can hire y. pies of a Notice and including a work in my surface land as	
FOR EXECU	ITION BY A NATURAL PE	ERSON	FOR EX	ECUTION BY A COR	PORATION, ETC.	
			Compony			
		Date	Company Name Lo	ogan Coal & Timbe	r Corporation	
	Signature		By Its	Leffner Woods	7 9/21/17 Date	
	Print Name		S	ly Wood	8 9/21/17 Date	

WW-2A Surface Waiver (4/16)

SURFACE OWNER WAIVER

County	MINGO	Operator	Quality Natural Gas, LLC
		Operator well number	_2361
	INSTRUCTIONS	S TO SURFACE OWNERS NAMED ON PA	AGE WW2-A

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

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

RECEIVED
Office of Oil and Gas

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

SEP 2 9 2017

WV Department of

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

<u>Comments must be in writing.</u> Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

<u>List of Water Testing Laboratories</u>. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

VOLUNTARY STATEMENT OF NO OBJECTION

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

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON		FOR EXECUTION BY A CORPORATION, ETC.		
	Date	Company Name	C.W. CAMPBELL COMP.	ANY
Signature		By Its	Gary D. Baldwin President	9/21/17 Date
Print Name			Signature	9/21/17 Date

WW-2A Surface Waiver (4/16)

Print Name

		SURFACE OWNER			
County	MINGO	Operato	r r well number	Quality Natu 2361	ral Gas, LLC
	INSTRUCTION	S TO SURFACE OWNE	RS NAMED ON P	AGE WW2-A	
If the surface appeared on to be the only ow are valid for 24		an three persons, then the land or because you are these materials.) See an any interest in the surface.	hese materials we ctually occupy the Chapter 22 of the ce tract, please for and the Office TO FILE ANY CO	ere served on you I surface tract. In e West Virginia Code rward these materiace of Oil and Gas.	because your name lither case, you may be. Well work permits
Chief, Office of	of Oil and Gas				SEP 2 9 2017
Department of 601 57th St. SI Charleston, W (304) 926-045	'V 25304				WV Department of Environmental Protection
be filed in person be sure of the lif you have be work describe Commoperator's nanthe application The Component of the life of	his Application. You have son or received in the mail date. Check with your posten contacted by the well op d in these materials, then the ments must be in writing. The and well number and the you may add other documents the power to deny the proposed well work will be soil erosion and sedime amage would occur to public proposed well work fails	by the Chief's office by the master to ensure adequate perator and you have sign the permit may be issued. Your comments must increase approximate location of ments, such as sketches or condition a well work constitute a hazard to the introduced to the control plan is not adeicly owned lands or reso	the time stated about the delivery time or ned a "voluntary state any time. It is at any time. It is proposed we so, maps or photograpermit based on content of the proposed were safety of persons quate or effective;	ove. You may call to arrange special atement of no object of the state	the Chief's office to expedited handling. ction" to the planned one number, the well rict and county from ur comments.
5) TI	he applicant has committed	a substantial violation of	ources or supplies; a previous permit	or a substantial viol	ation of one or more
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Signature

Date

WW-2A-1 COAL OWNERS

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

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

JLCLCT, LLC
723 Kanawha Blvd 14th Floor
Charleston, West Virginia 25301

RECEIVED
Office of Oil and Gas

SEP 2 9 2017

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County MINGO	The state of the s
Operator QUALITY NATURAL GAS, LLC	Operator's Well Number 2361
INSTRUCTIONS TO C	COAL OPERATOR, OWNER, OR LESSEE
any objection you wish to make or are re	essee named on page WW2-A. You are hereby notified that equired to make by WV Code 22-6-15, 16 or 17, must be filed as within fifteen (15) days after the receipt of this application
Chief, Office of Oil and Gas Department of Environmental Protection 601 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654	
	WAIVER
location has examined this proposed well location, the well location has been adde	/ owner X / lessee/ of the coal under this well location. If a mine map exists which covers the area of welled to the mine map. The undersigned has no objection to the n, provided, the well operator has complied with all applicable and the governing regulations.
FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTION BY A CORPORATION, ETC.
Date	Company Name LOGAN COAL & TIMBER CORP.
Signature	Its Roffner Woods Date Signature Date

RECEIVED
Office of Oil and Gas

SET 29 2017

Logan Coal & Timber Corporation

4709902261

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

August 25, 2017

Chief, Office of Oil & Gas

Department of Environmental Protection
601 57th Street

Charleston, WV 25304

Quality Natural Gas, LLC

Gas Well Application

Well Number 2361 WV State Plane Coordinates N 209633.960

E 1648389.400

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.

Date: 9 21 17

Logan Coal & Timber Corporation

3v(/11/1)

RECEIVED
Office of Oil and Gas

SEF 29 2017

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Mingo	
Operator Quality Natural Gas, LLC	Operator's Well Number 2361
INSTRUCTIONS TO C	COAL OPERATOR, OWNER, OR LESSEE
any objection you wish to make or are re	essee named on page WW2-A. You are hereby notified that equired to make by WV Code 22-6-15, 16 or 17, must be filed as within fifteen (15) days after the receipt of this application
Chief, Office of Oil and Gas Department of Environmental Protection 601 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654	
	WAIVER
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FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTION BY A CORPORATION, ETC.
Date	Company Name C.W. CAMPBELL COMPANY
Signature	Its Baldwin Date Aug D. Baldwin 9/21/2017 Signature Date

RECEIVED Office of Oil and Gas

SET 29 2017

C.W. Campbell Company

848 Fourth Avenue, Suite 301 Huntington, West Virginia 25701

August 25, 2017

Chief, Office of Oil & Gas

Department of Environmental Protection
601 57th Street

Charleston, WV 25304

Quality Natural Gas, LLC
Gas Well Application
Well Number 2361 WV State Plane Coordinates N 209633.960

E 1648389.400

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Date: 9/21/2017

C. W. Campbell Company

RECEIVED
Office of Oil and Gas

SEP 29 2017

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Mingo	2004
Operator Quality Natural Gas, LLC	Operator's Well Number 2361
INSTRUCTIONS TO C	OAL OPERATOR, OWNER, OR LESSEE
any objection you wish to make or are red	ssee named on page WW2-A. You are hereby notified that quired to make by WV Code 22-6-15, 16 or 17, must be filed is within fifteen (15) days after the receipt of this application
Chief, Office of Oil and Gas Department of Environmental Protection 601 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654	
	WAIVER
location has examined this proposed well location, the well location has been added	/ owner X / lessee/ of the coal under this well location. If a mine map exists which covers the area of well to the mine map. The undersigned has no objection to the provided, the well operator has complied with all applicable and the governing regulations.
FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTION BY A CORPORATION, ETC.
Date	Company Name JLCLCT, LLC
Signature	Its Tonney Econs 9/M//7 Marosing Member Date 1/2//
	Signature Date

RECEIVED
Office of Oil and Gas

SEP 2 9 2017

JLCLCT, LLC

723 Kanawha Blvd 14th Floor Charleston, West Virginia 25301

August 25, 2017

Chief, Office of Oil & Gas

Department of Environmental Protection

601 57th Street

Charleston, WV 25304

Quality Natural Gas, LLC

Gas Well Application

Well Number 2361 WV State Plane Coordinates N 209633.960

E 1648389.400

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Date: 1/20/17

JLCLCT, LLC

By: frung &

RECEIVED Office of Oil and Gas

SEP 2 3 2017

WV Department of Environmental Protection

10/27/2017

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Mingo			
Operator Quality Natural Gas, LLC	Operator's Well Number 2361		
INSTRUCTIONS TO C To the coal operator, owner, or leany objection you wish to make or are rewith the Chief of the Office of Oil and G by the Office. Mail objections to: Chief, Office of Oil and Gas Department of Environmental Protection 601 57 th St. SE Charleston, WV 25304	ssee named on page quired to make by W	WW2-A. You are hereby notified that V Code 22-6-15, 16 or 17, must be filed	
(304) 926-0499 extension 1654			
	WAIVER		
The undersigned coal operatorlocation has examined this proposed we location, the well location has been added work proposed to be done at this location requirements of the West Virginia Code and the second se	I location. If a mine n d to the mine map. T n, provided, the well o	he undersigned has no objection to the perator has complied with all applicable	
FOR EXECUTION BY A NATURAL PERSON	FO	R EXECUTION BY A CORPORATION, ETC.	
Date	Company Name	CAM OF KY REAL ESTATE, LLC	
Signature	By Its	RONALD G. HULL Date	
		Rendel J. Hull 9/18/17	
		Signature Date	

RECEIVED Office of Oil and Gas

SEP 29 2017

CAM of Kentucky Real Estate, LLC

P.O. Box 1169
Pikeville, KY 41502

August 25, 2017

Chief, Office of Oil & Gas

Department of Environmental Protection
601 57th Street

Charleston, WV 25304

Quality Natural Gas, LLC

Gas Well Application

Well Number 2361 WV State Plane Coordinates N 209633.960

E 1648389.400

Dear Mr. Martin,

The undersigned lessee 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.

Date: 9/10/17

CAM of Kentucky Real Estate, LLC

By: Ronald S. Hull

RECEIVED Office of Oil and Gas

SEP 2 9 2017

COAL OPERATOR, OWNER, OR LESSEE WAIVER

Operator Quality Natural Gas, LLC	Operator's Well Nu	mber 2361
Operator account to the second	_ Operator's Well Nu	mber
INSTRUCTIONS TO	COAL OPERATOR, O	WNER, OR LESSEE
any objection you wish to make or are	required to make by W\	WW2-A. You are hereby notified that V Code 22-6-15, 16 or 17, must be filed days after the receipt of this application
Chief, Office of Oil and Gas Department of Environmental Protectio 601 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654	n	
	WAIVER	
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FOR EXECUTION BY A NATURAL PERSON	FOR	R EXECUTION BY A CORPORATION, ETC.
Dai	Company Name	CAM MINING, LLC
Signature	By	RONALD G. HULL
	Its	Date
		Ronald B. Hull 9/18/17
		Signature Date

RECEIVED Office of Oil and Gas

SEP 2 9 2017

CAM MINING, LLC

P.O. Box 1169
Pikeville, KY 41502

August 25, 2017

Chief, Office of Oil & Gas

Department of Environmental Protection
601 57th Street

Charleston, WV 25304

Quality Natural Gas, LLC
Gas Well Application
Well Number 2361 WV State Plane Coordinates N 209633.960

E 1648389.400

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.

Date: 9/18/17.

CAM MINING, LLC

By: Ronald S. Hull

RECEIVED
Office of Oil and Gas

SEP 2 9 2017



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 Reality, LTD	% OF 1/8	BK 27 P 208
C. W. Campbell Company	Kinzer Business Reality, LTD	70 or 1/8	BK 27 P 208
JLCLCT, LLC	Kinzer Business Reality, LTD	% OF 1/8	BK 27 P 208

SEE MITACHEN AGREEMENT

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application he reby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

WV Division of Water and Waste Management

WV Division of Natural Resources

WV Division of Highways

U.S. Army Corps of Engineers

U.S. Fish and Wildlife Service

County Floodplain Coordinator

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Office of Oil and Gas

SEP 2 9 2017

WV Department of Environmental Protection

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be ac quired from the appr opriate aut hority before the affected activity is initiated.

Manager

Well Operator:

By:Its:

Quality Natural Gas, LLC/By: Quality Natural Gas Management, LLC/its: Manager

10/27/2017

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

October 20, 2017

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

Attn.: Mr. Jeff McLaughlin

Re: West Virginia Well Applications

Quality Natural Gas, LLC Mingo County, West Virginia

Dear Jeff:

As per our conversations yesterday and in the past, please be advised that the current Lessee and or owner of our various leases and mineral properties owned by Kinzer Business Realty, Ltd., and Quality Natural Gas Properties, Ltd., and that of current and future applications that may be pending a permit application by Quality Natural Gas, LLC are all entities owned by the Kinzer Family.

Kinzer Business Realty, Ltd., and Quality Natural Gas Properties, Ltd., has designated Quality Natural Gas, LLC to act as operator thereof for these entities to permit, operate and maintain all oil and gas wells drilled pursuant to all oil and gas leases, deeds of ownership and permit applications.

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

Sincerely,

Duane Lester

DESIGNATED OPERATOR CONSENTING PARTY: Quality Natural Gas, LLC Kinzer Business Realty, Ltd. By: Quality Natural Gas Management, LLC By: Kinzer Business Realty, LLC Its: Manager Its: General Partner STATE OF KENTUCKY STATE AT LARGE _____, a Notary Public of said County and State aforesaid, do certify that Kinzer Business Realty, Ltd., by its authorized signatory whose name is signed to the within writing has this day acknowledged the same before me in my said county. My commission expires 7.27. 2021 Given under my hand this do day of we hope , 2017 Notary Public STATE OF KENTUCKY STATE AT LARGE , a Notary Public of said County and State aforesaid, do certify that Quality Natural Gas, LLC, by its authorized signatory _____ whose name is signed to the within writing has this day acknowledged the same before me in my said county.

My commission expires 4.27. 2021

Given under my hand this aday of Webles, 2017

Notary Public

O SENARY

AUBLIC S

cc: file
Proposed Permit Applications
of Quality Natural Gas. LLC

WW	V-2B1
(5-	12)

Well No. 2361	
---------------	--

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 Sampling Control		Elite Pit Removal, PO Box 967, Chapmanville, WV 25508 ph# 304 855-3562
Well Operator	Quality Natural	Gas, LLC
Address	PO Box 480	
	Allen, KY 4160	
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.

THERE APPEARS TO BE NO WATER WELLS WITHIN 2000

RECEIVED Office of Oil and Gas

SEP 2 9 2017

WW-9 (5/16)

API Number 47 -	
Operator's Well No. 2361	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Quality Natural Gas, LLC OP Code
Watershed (HUC 10) Grapevine Creek of Tug Fork of Big Sandy River Quadrangle Majestic
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No Will a pit be used? Yes No
If so, please describe anticipated pit waste: Drilling water an various formation cuttings
Will a synthetic liner be used in the pit? Yes No If so, what ml.? 20 ml
Proposed Disposal Method For Treated Pit Wastes:
Land Application (if selected provide a completed form WW-9-GPP) Underground Injection (UIC Permit Number Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain
Will closed loop systembe used? If so, describe:
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. vertical, air
-If oil based, what type? Synthetic, petroleum, etc
Additives to be used in drilling medium? If needed, water mist with drilling foam.
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. leave in pit
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) lime
-Landfill or offsite name/permit number?
Permittee shall provide written notice to the Office of Oil and Cas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Cas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature from from
Company Official (Typed Name) TERRY KINZER
Company Official Title Member 1997
Subscribed and swom before me this 27 day of 5 epseudo Hind SEP 29 2017 My commission expires 4.24.2017 My commission expires 4.24.2017 My commission expires 4.27.2017

Aliske Clover 10 Aliske Clover 5 Innual Rye 5 End Top 2 Sch: (Sc) of road, location, pit and proposed area for land application (unless engineered plans including this info have been deed). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and deed). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and deed). It was a supplied section of involved 7.5' topographic sheet. Approved by: Approved by:				
Fertilizer type 10-20-20 or equivalent Fertilizer amount 1/3 ton	roposed Revegetation Tr	reatment: Acres Disturbed 2	Preveg etation pH	7.0
Fertilizer amount 1/3 ton holds/acre Mulch 2	Lime 3	Tons/acre or to correct	t to pH 6.5	
Seed Mixtures Temporary Seed Type Ibs/acre Seed Type Ibs/acre Y 31 40 Orchard Grass 15 Iske Clover 10 Aliske Clover 5 Innual Rye	Fertilizer type	10-20-20 or equivalent		
Seed Type ibs/acre Seed Type ibs/acre Seed Type ibs/acre Y 31 40 Orchard Grass 15 iske Clover 10 Aliske Clover 5 inual Rye 5 ad Top 2 ch: (s) of road, location, pit and proposed area for land application (unless engineered plans including this info have beer didd). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and div), and area in acres, of the land application area. Proposed section of involved 7.5' topographic sheet. Approved by: Alway Flowers Always	Fertilizer amount	1/3 ton	lbs/acre	
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ch: (s) of road, location, pit and proposed area for land application (unless engineered plans including this info have beer ided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and div/), and area in acres, of the land application area. **Decopied section of involved 7.5' topographic sheet.** Approved by: **Proceed or or or for Ood Occasion (Location area) **Decopied section of involved 7.5' topographic sheet.** **Decopied section of involved 7.5' topographic sheet.*	Aliske Clover	10	Aliske Clover	5
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Date: 9-29-10 Reviewed? () No On Sign	lan Approved by:	Alw 17. F	Howers	
Date: 9-29-10 Reviewed? () No On Sign				
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WV Department 0017
Environmental Protection

WW-9- GPP Rev. 5/16

Page _	of	_
API Number 47 -	·	_
Operator's Well No. 2361		

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

	GROUNDW	ATER PROTECTION	PLAN	
Operator Name:	Quality Natural Gas, LLC			
Watershed (HU	C 10): Grapevine Creek of Tug Fork of I	Big Sandy River	Quad: Majestic	
arm Name: Log	gan Coal & Timber			
. List the pro	ocedures used for the treatment and dis er.	charge of fluids. Includ	e a list of all operations that coul	d contaminate the
	fluids will be diverted to a ground and then with a 20 mL liner. Soity.			
. Describe p	rocedures and equipment used to protec	t groundwater quality fi	rom the list of potential contamina	int sources above.
	nt we would encounter excess by vacuum truck to disposal f			
. List the clo	esest water body, distance to closest verea.	vater body, and distand	ce from closest Well Head Prote	ction Area to the
Proposed	well 2361 is 3,950 feet from th	ne Tug River and	is in WP area Zone 1.	
. Summarize	all activities at your facility that are all	eady regulated for grou	andwater protection.	
None				
				Office of Oil
5. Discuss an	y existing groundwater quality data for	your facility or an adjac	cent property.	PECELVE Office of Oil an

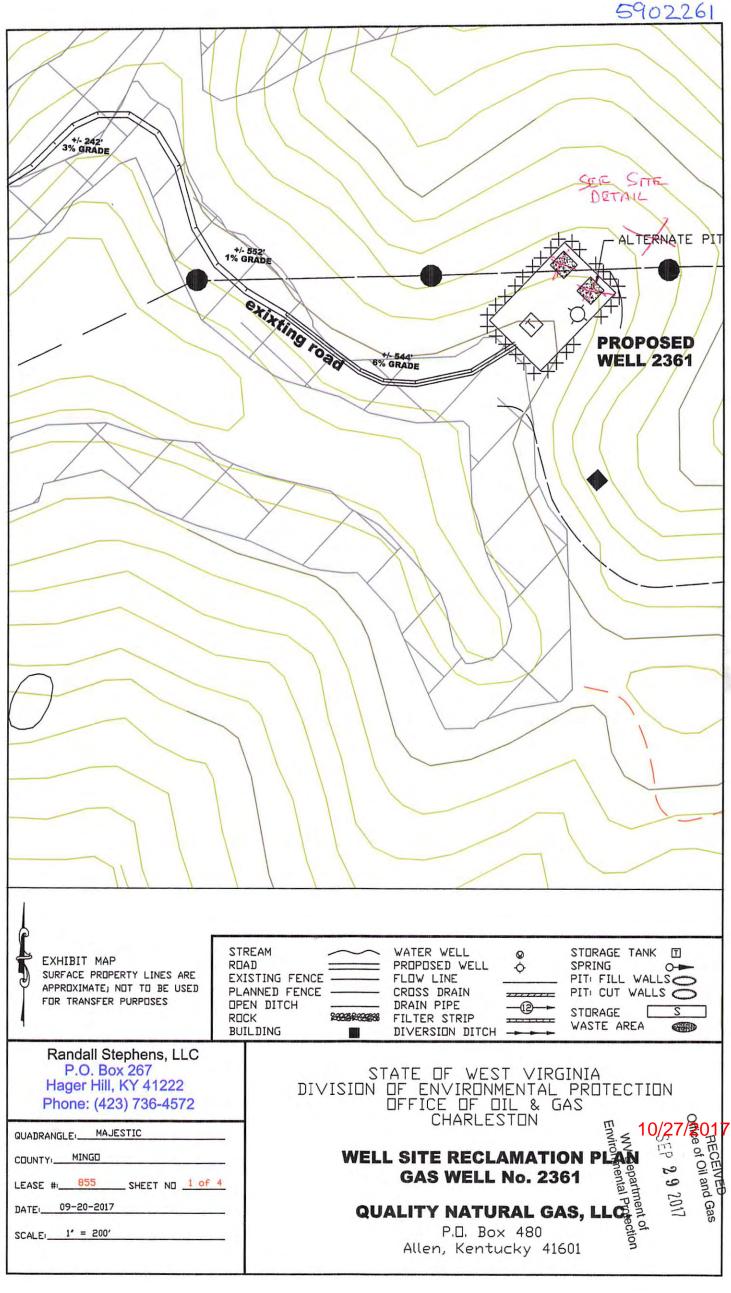
WW	-9-	GPP
Rev.	5/1	6

/W-9- GPP ev. 5/16	Page of API Number 47 Operator's Well No. 2361
No available data.	
Provide a statement that no waste mater	rial will be used for deicing or fill material on the property.
chloride, etc) and then approved	lling foam etc, will be treated to achieve the proper limits (ph, d by the WV DEP Oil & Gas inspector before discharging. Drill ne and covered with pit reclamation.
Describe the groundwater protection in provide direction on how to prevent gro	nstruction and training to be provided to the employees. Job procedures shall bundwater contamination.
LC are trained in house to iden ailures that could cause any gro	Gas, LLC and all contractors working for Quality Natural Gas, tify and act swiftly on any potential leaks or possible structural bund water contamination. All necessary equipment, such as the all emergency contact numbers needed.
Provide provisions and frequency for in	spections of all GPP elements and equipment.
Constantly while drilling and com	npleting well.
ignature; Jenny H	n

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SEP 29 2017

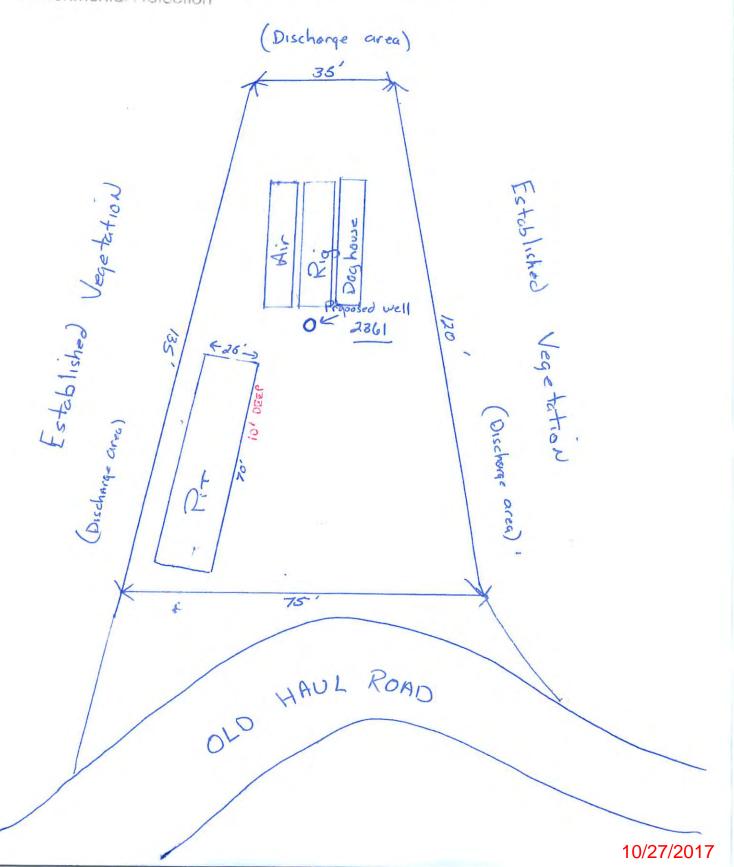
WV Department 2017 Environment of 17

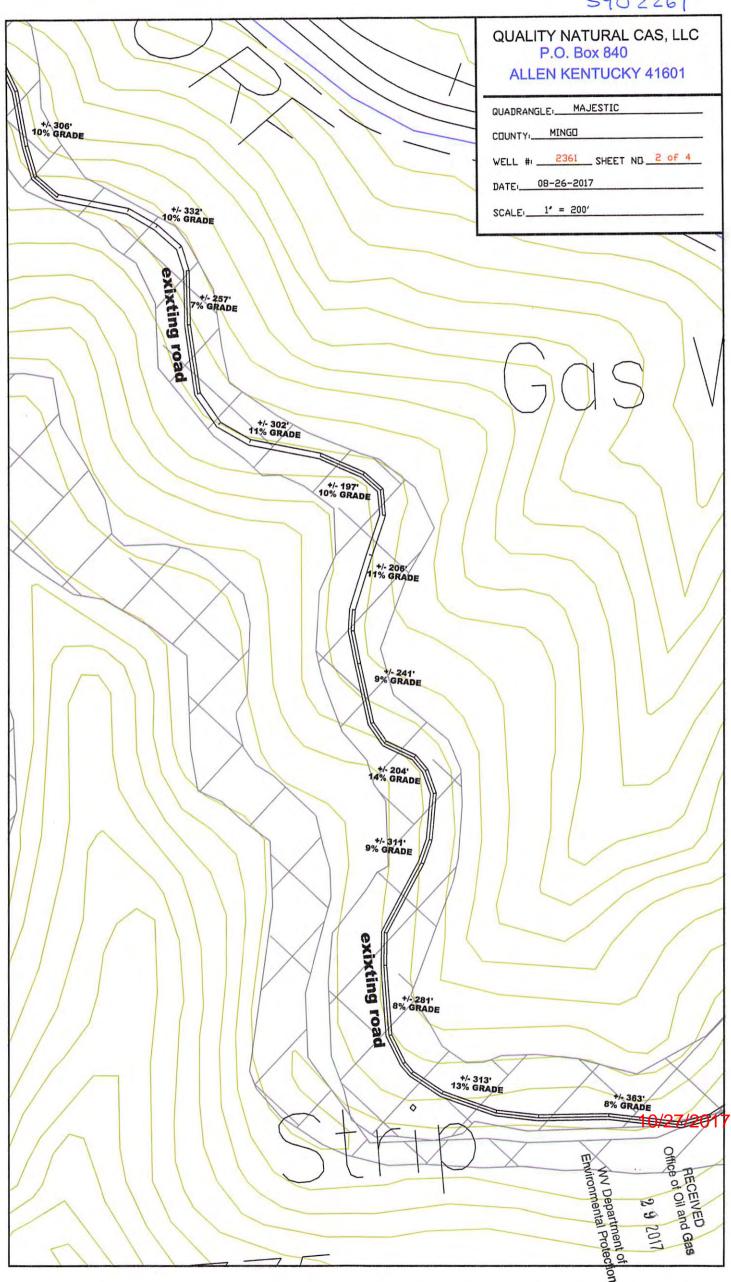


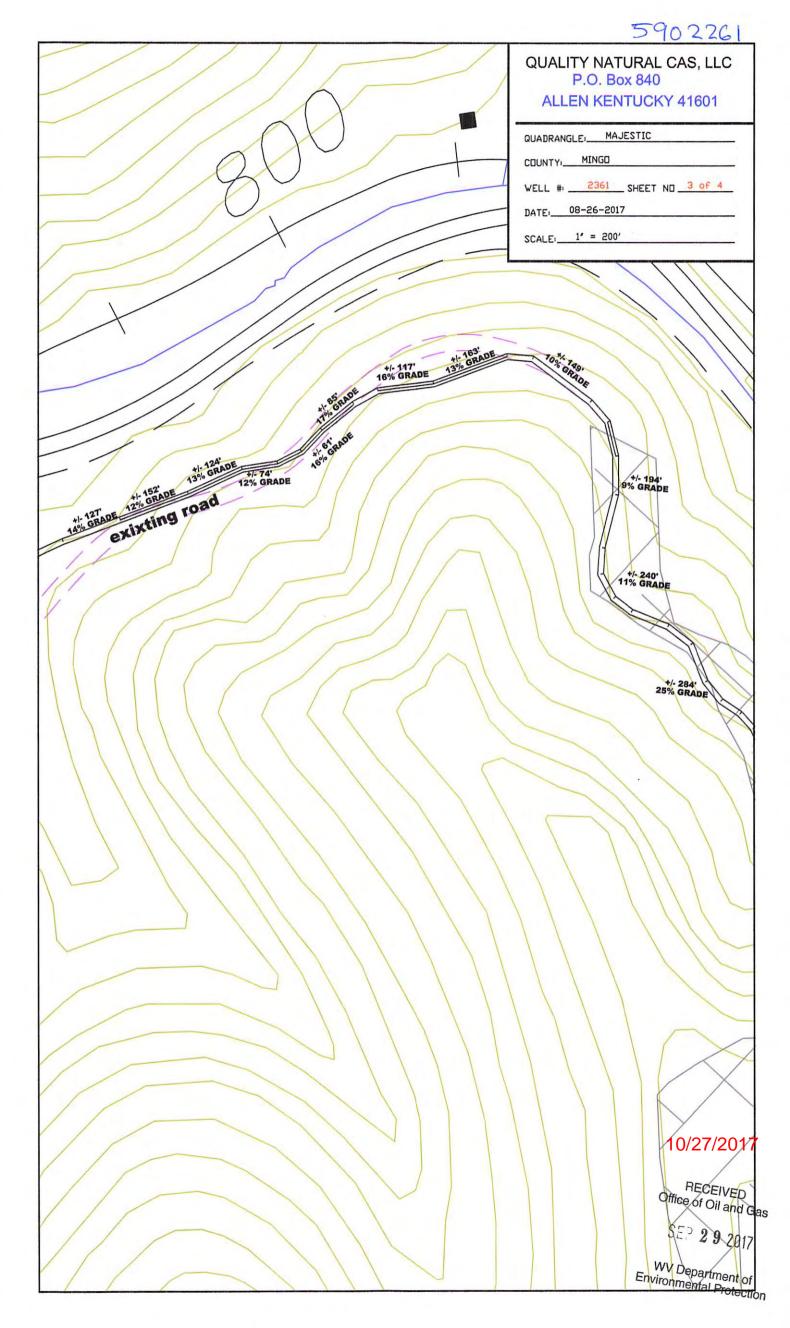
SITE, PIT & DISCHARGE AREA DETAIL

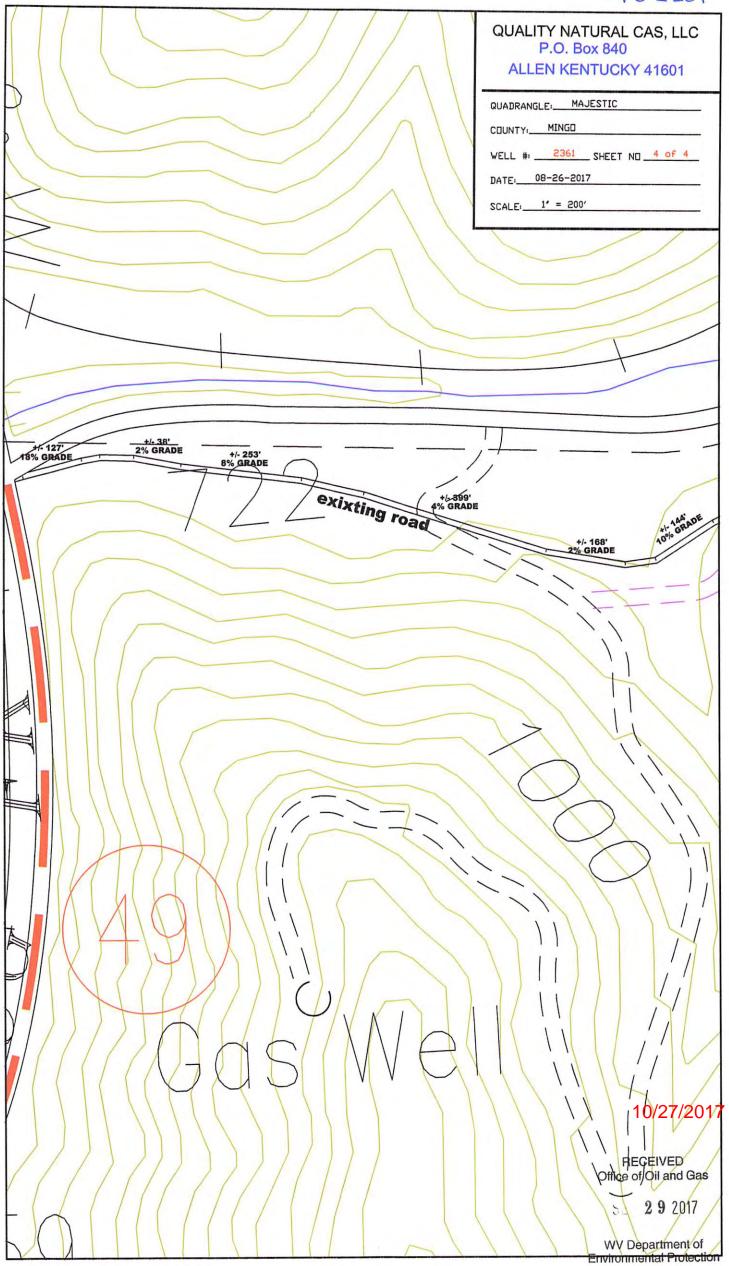
OCT 17 2017

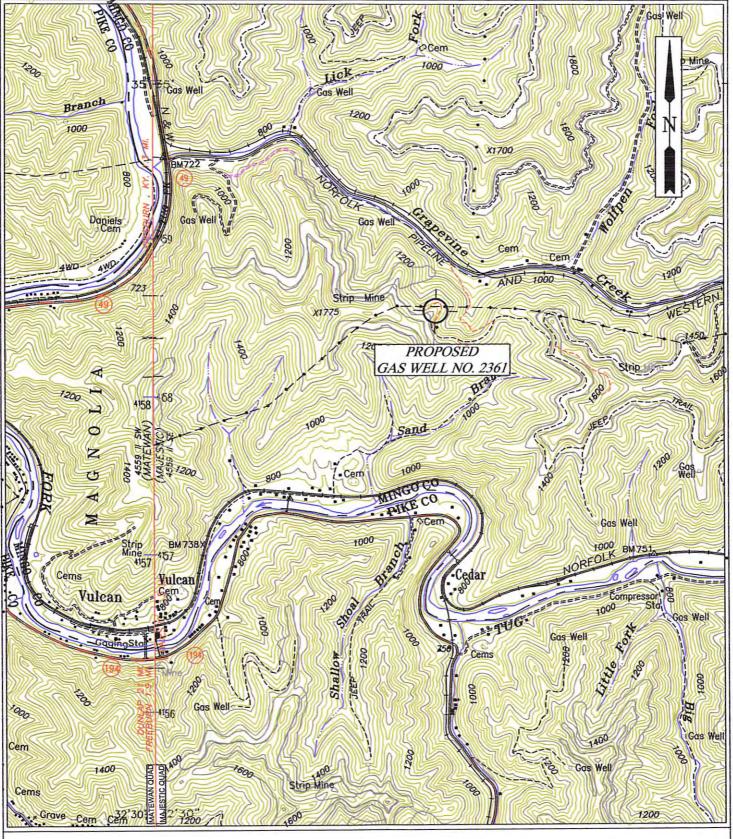
WV Department of Established Vegetation











Randall Stephens, LLC P.O. Box 267 Hager Hill, KY 41222

QUALITY NATURAL GAS, LLC. LOCATION MAP

PROPOSED GAS WELL NO. 2361

QUAD: MAJESTIC

SCALE: 1" = 2000'

Office of Oil and Gas

DATE: 08-26-17

FILE NAME: WVAVIC2361.DWG

WV Department of

Environmental Grove ction

