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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Jim Justice , Governor  
Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Tuesday, October 24, 2017  
WELL WORK PERMIT  
Vertical / New Drill

QUALITY NATURAL GAS, LLC  
1555 KY ROUTE 80

PRESTONBURG, KY 41653

Re: Permit approval for 2408  
47-059-02263-00-00

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.

  
James A. Martin  
Chief

Operator's Well Number: 2408  
Farm Name: LOGAN COAL & TIMBER CORP., C. W. CAMPBELL CO. & JL  
U.S. WELL NUMBER: 47-059-02263-00-00  
Vertical / New Drill  
Date Issued: 10/24/2017

Promoting a healthy environment.

10/27/2017

I

4705902263

## PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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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.

10/27/2017

CK# 1151  
\$650.02

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

1) Well Operator: Quality Natural Gas, LLC      494477013      Mingo      Magnolia      Majestic  
Operator ID      County      District      Quadrangle

2) Operator's Well Number: 2408      3) Elevation: 1415.27

4) Well Type: (a) Oil \_\_\_\_\_ or Gas X \_\_\_\_\_  
(b) If Gas: Production X / Underground Storage \_\_\_\_\_  
Deep \_\_\_\_\_ / Shallow X \_\_\_\_\_

5) Proposed Target Formation(s): B. Lime, Berea, B. Shale      Proposed Target Depth: 3611-4760'

6) Proposed Total Depth: 4894 Feet      Formation at Proposed Total Depth: Harrell Shale

7) Approximate fresh water strata depths: 947-949' Coal Depth

8) Approximate salt water depths: None expected

9) Approximate coal seam depths: 947-949'

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

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

Brown Shale will be perforated with 20-40 holes and fracked with 1,000 mcf of N2 only.

Berea (if treated) will also be perforated and fracked with 1,000 mcf of N2 only.

Big Lime (if treated) will be perforated and fracked with 50 quality foam/acid and 250 mcf of N2.

**13) CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			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#	990'	990'	C.T.S.
Coal	9 5/8"	L.S.	32#	990'	990'	C.T.S.
Intermediate	7"	L.S.	20#	2645'	2645'	C.T.S.
Production	4 1/2"	WTC-65	10.5#	4894'	4894'	200' up in 7"
Tubing						
Liners						

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SEP 29 2017

Packers: Kind: \_\_\_\_\_  
Sizes: \_\_\_\_\_  
Depths Set \_\_\_\_\_

*[Handwritten Signature]* 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 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 casing point. The 9 5/8" casing can be set thru 2<sup>nd</sup> void if encountered and to fresh water casing point.

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WV Department of  
Environmental Protection

*AF*

10/27/2017  
9-29-17







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:

(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 <sup>528</sup> \_\_\_\_\_  
Watershed                      Tug Fork of Big Sandy River  
District   Magnolia   \_\_\_\_\_  
County   Mingo   \_\_\_\_\_  
Public road access   Route 194   \_\_\_\_\_  
Generally used farm name   Logan Coal & Timber   \_\_\_\_\_

(2) The undersigned realize (s) that a production or gathering pipeline is to be installed across the referenced surface tract in connection with the operation of the well identified below:

Well Operator   Quality Natural Gas, LLC    
Address   P.O. Box 480    
                    Allen Kentucky    
Telephone   (606) 874-8041    
Well: Api Permit No. 47- \_\_\_\_\_ - \_\_\_\_\_;

(3) For sufficient and satisfactory reasons, the undersigned hereby prescribe that as far as the surface interest owned by the undersigned is/are concerned, the production or gathering pipeline need **not** be buried as follows:

           On any part of the surface tract identified above:

or

           On the following parts of the surface tract identified above:

From \_\_\_\_\_ To \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_

(For execution by corporation, partnership, etc.)                      (For execution by natural persons)

Name:   Logan Coal & Timber Corporation  

By:                      Signature                      Date:   9/21/17  

Its:   Vice President   Signature                      Date:   9/21/17  

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WV Department of  
Environmental Protection  
**10/27/2017**



WW-2A  
(Rev. 6-14)

1). Date: 08-25-2017  
2.) Operator's Well Number 2408  
State 47- County MINGO Permit -  
3.) API Well No.: 47- MINGO -

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

4) Surface Owner(s) to be served:  
(a) Name See Attachment WW 2A-1  
Address \_\_\_\_\_  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector ALLEN FLOWERS  
Address 165 GRASSEY LICK LANE  
LIBERTY, WV 25124  
Telephone 304-552-8308  
5) (a) Coal Operator  
Name CAM MINING, LLC ✓w  
Address P.O. BOX 1169  
PIKEVILLE, KY 41502  
(b) Coal Owner(s) with Declaration  
Name SEE ATTACHMENT WW 2A-2  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name CAM OF KY REAL ESTATE, LLC  
Address P.O. BOX 1169 PIKEVILLE, KY 41502

**TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:**

OR Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through      on the above named parties by

- Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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 and imprisonment.

Well Operator QUALITY NATURAL GAS, LLC  
By: QUALITY NATURAL GAS MANAGEMENT, LLC  
Its: MANAGER  
Address: P.O BOX 460  
ALLEN, KY 41601  
Telephone: (606)874-8041  
Email: \_\_\_\_\_

Subscribed and sworn before me this 27 day of September 2017, Duane Lester

[Signature] Notary Public  
My Commission Expires 4.27.2022



**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 DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov)

10/27/2017



4705902263

**WW-2A-1 SURFACE OWNERS**

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

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

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

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WV Department of  
Environmental Protection

10/27/2017









WW-2A Surface Waiver  
(4/16)

**SURFACE OWNER WAIVER**

County   MINGO  

Operator   QUALITY NATURAL GAS,LLC    
Operator well number   2408  

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A**

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

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

**WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

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

**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.

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

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

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

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

**List of Water Testing Laboratories.** 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.

\_\_\_\_\_  
Signature \_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_  
Print Name

Company Name   JLCLCT,LLC    
By   Tony Fralls     9/22/17    
Its   managing member   Date  
  Tony Fralls     9/22/17    
Signature \_\_\_\_\_ Date \_\_\_\_\_

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10/27/2017



4705902263

WW-2A-2 COAL OWNERS

Logan Coal & Timber Corporation *vw*

37 North Valley Road, Suite 2-A

Paoli, Pennsylvania 19301

C.W. Campbell Company *JW*

848 Fourth Avenue, Suite 301

Huntington, West Virginia 25701

JLCLCT, LLC *vw*

723 Kanawha Blvd 14th Floor

Charleston, West Virginia 25301

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Environmental Protection  
*10/27/2017*

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County MINGO  
Operator Quality Natural Gas, LLC Operator's Well Number 2408

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0499 extension 1654

WAIVER

The undersigned coal operator \_\_\_\_\_ / owner X / lessee \_\_\_\_\_ / of the coal under 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.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

\_\_\_\_\_  
Signature Date

Company Name Logan Coal & Timber Corporation  
By Ruthier Woody 9/21/17  
Its \_\_\_\_\_ Date

Ruthier Woody 9/21/17  
Signature Date

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SEP 29 2017

WV Department of  
Environmental Protection  
10/27/2017

**Logan Coal & Timber Corporation**

4705902263

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

August 25, 2017

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 2408 WV State Plane Coordinates N 208607.345  
E 1642895.517

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

By: [Signature]

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Office of Oil and Gas

SEP 29 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 2408

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FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Company Name C.W. Campbell Company  
By Gary D. Baldwin 9/21/17  
Its President Date  
Gary D. Baldwin 9/21/2017  
Signature Date

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Office of Oil and Gas

SEP 29 2017



4705902263

**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  
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Charleston, WV 25304

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Date: 9/21/2017

C. W. Campbell Company

By: Kay D. Baldwin

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Environmental Protection  
10/27/2017

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County MINGO  
Operator Quality Natural as, LLC

Operator's Well Number 2408

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FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

\_\_\_\_\_  
Signature

Date

Company Name  
By  
Its

JLCLCT, LLC

Tonny Egan  
managing member Date 9/22/17

[Signature] Date 9/22/17  
Signature Date

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Office of Oil and Gas

SEP 29 2017

WV Department of  
Environmental Protection  
10/27/2017

4705902263

JLCLCT, LLC

723 Kanawha Blvd 14<sup>th</sup> Floor  
Charleston, West Virginia 25301

August 25, 2017

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


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Date: 9/20/17

JLCLCT, LLC

By: 

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Office of Oil and Gas

SEP 29 2017

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Environmental Protection  
10/27/2017

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County MINGO  
Operator Quality Natural Gas, LLC Operator's Well Number 2408

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FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

\_\_\_\_\_  
Signature Date

Company Name CAM MINING, LLC  
By RONALD G. HULL  
Its \_\_\_\_\_ Date \_\_\_\_\_  
Ronald G. Hull 9/18/17  
Signature Date

RECEIVED  
Office of Oil and Gas

SEP 29 2017

WV Department of  
Environmental Protection

10/27/2017



CAM MINING, LLC

4705902263

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

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Gas Well Application  
Well Number 2408 WV State Plane Coordinates N 208607.345  
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Date: 9/18/17

CAM MINING, LLC

By: Ronald S. Hull

RECEIVED  
Office of Oil and Gas

SEP 29 2017

WV Department of  
Environmental Protection

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](mailto:dlester@kinzerdrilling.com)

October 20, 2017

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

**Attn.: Mr. Jeff McLaughlin**

Re: West Virginia Well Applications  
Quality Natural Gas, LLC  
Mingo County, West Virginia

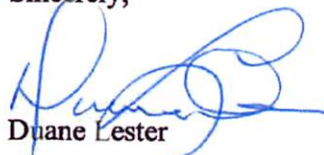
Dear Jeff:

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

CAM of Kentucky Real Estate, LLC

4705902263

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 2408 WV State Plane Coordinates N 208607.345  
E 1642895.517

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 N. Hull

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SEP 29 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 2408

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0499 extension 1654

WAIVER

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee X / of the coal under 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.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

\_\_\_\_\_  
Signature

Date \_\_\_\_\_

Company Name Cam of Kentucky Real Estate, LLC  
By RONALD G. HULL  
Its \_\_\_\_\_ Date \_\_\_\_\_

Ronald G. Hull 9/18/17  
Signature Date

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10/27/2017

DESIGNATED OPERATOR

Quality Natural Gas, LLC

By: Quality Natural Gas Management, LLC  
Its: Manager

By: Jerry Kinzer

CONSENTING PARTY:

Kinzer Business Realty, Ltd.

By: Kinzer Business Realty, LLC  
Its: General Partner

By: Jerry Kinzer

STATE OF KENTUCKY

STATE AT LARGE

I, Duane Lester, a Notary Public of said County and State aforesaid, do certify that **Kinzer Business Realty, Ltd.**, by its authorized signatory Jerry Kinzer 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 20 day of October, 2017

Duane Lester  
Notary Public



STATE OF KENTUCKY

STATE AT LARGE

I, Duane Lester, a Notary Public of said County and State aforesaid, do certify that **Quality Natural Gas, LLC**, by its authorized signatory Jerry Kinzer 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 20 day of October, 2017

Duane Lester  
Notary Public



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

WW-2A1  
(Rev. 1/11)

Operator's Well Number 2408

**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	9% OF 1/8	BK 27 P 208
C. W. Campbell Company	Kinzer Business Reality, LTD	9% OF 1/8	BK 27 P 208
JLCLCT, LLC	Kinzer Business Reality, LTD	9% OF 1/8	BK 27 P 208

SEE ATTACHMENT

**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

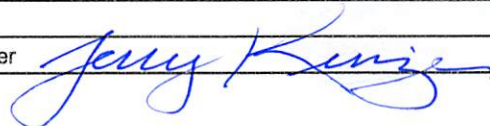
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Office of Oil and Gas  
  
SEP 29 2017  
  
WV Department of  
Environmental Protection

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

Well Operator:  
By: Its:

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

Manager



10/27/2017



WW-2B1  
(5-12)

Well No. 2408

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 contractor chosen to collect sample.

Certified Laboratory Name Elite Pit Removal, PO Box 967, Chapmanville, WV 25508 ph# 304 855-3562  
Sampling Contractor \_\_\_\_\_

Well Operator Quality Natural Gas, LLC  
Address PO Box 480  
Allen, KY 41601  
Telephone 606 874-8041

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

*NO WATER WELLS WITHIN 2000!*

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10/27/2017

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) Tug Fork of Big Sandy River Quadrangle Matewan

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 and 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 system be 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. \_\_\_\_\_

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Additives to be used in drilling medium? If needed, water mist with drilling foam.

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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

WV Department of  
Environmental Protection

-Landfill or offsite name/permit number? \_\_\_\_\_

Permittee shall provide written notice to the Office of Oil and Gas 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 Gas 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 Jerry Kinzer

Company Official (Typed Name) JERRY KINZER

Company Official Title Member

Subscribed and sworn before me this 27 day of September, 20 17

[Signature] Notary Public

My commission expires 4-27-2022



[Signature] 9-29-17

Proposed Revegetation Treatment: Acres Disturbed 2 Prevegetation pH 7.0

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 1/3 ton lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY 31	40	Orchard Grass	15
Aliske Clover	10	Aliske Clover	5
Annual Rye	5		
Red Top	2		

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Allen Flowers

Comments: mulch and reseed all affected areas per O&G-Dep regulation.

Title: OGG Inspection

Date: 9-29-17

Field Reviewed?  Yes  No

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Environmental Protection  
10/27/2017



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

Operator Name: Quality Natural Gas, LLCWatershed (HUC 10): Grapevine Creek of Tug Fork of Big Sandy River Quad: MajesticFarm Name: Logan Coal & Timber

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

All drilling fluids will be diverted to a ground pit first, lined with typar to control any possible punctures and then with a 20 mL liner. Pit size will be no less than 9 times the un-cased well bore capacity.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

In the event we would encounter excess fluids, such as fresh or salt water, these fluids would be hauled by vacuum truck to disposal facility. Drilling operations would cease at this time if necessary.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Proposed well 2408 is 3,450 feet from the Tug River and is in WP area Zone 1.

4. Summarize all activities at your facility that are already regulated for groundwater protection.

None

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SEP 29 2017

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

10/27/2017  
WV Department of  
Environmental Protection

No available data.

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

All fluids, such as salt water, drilling foam etc, will be treated to achieve the proper limits (ph, chloride, etc) and then approved by the WV DEP Oil & Gas inspector before discharging. Drill cuttings will be solidified with lime and covered with pit reclamation.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

All employees of Quality Natural Gas, LLC and all contractors working for Quality Natural Gas, LLC are trained in house to identify and act swiftly on any potential leaks or possible structural failures that could cause any ground water contamination. All necessary equipment, such as spill kits, will be on site along with all emergency contact numbers needed.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

Constantly while drilling and completing well.

Signature: *Jerry Kruger*

Date: 9-27-2017

*[Signature]* 9-29-17

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10/27/2017  
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4705902263

MATCH LINE

PROPOSED WELL 2409

7% GRADE

+/- 197' 1% GRADE

+/- 153' 1% GRADE

existing road

25% GRADE

1% GRADE

+/- 692' 6% GRADE

WELL 1729

1400

4550

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Environmental Protection



EXHIBIT MAP  
SURFACE PROPERTY LINES ARE  
APPROXIMATE; NOT TO BE USED  
FOR TRANSFER PURPOSES

STREAM		WATER WELL		STORAGE TANK	
ROAD		PROPOSED WELL		SPRING	
EXISTING FENCE		FLOW LINE		PIT: FILL WALLS	
PLANNED FENCE		CROSS DRAIN		PIT: CUT WALLS	
OPEN DITCH		DRAIN PIPE		STORAGE	
ROCK		FILTER STRIP		WASTE AREA	
BUILDING		DIVERSION DITCH			

Randall Stephens, LLC  
P.O. Box 267  
Hager Hill, KY 41222  
Phone: (423) 736-4572

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL & GAS  
CHARLESTON

10/27/2017

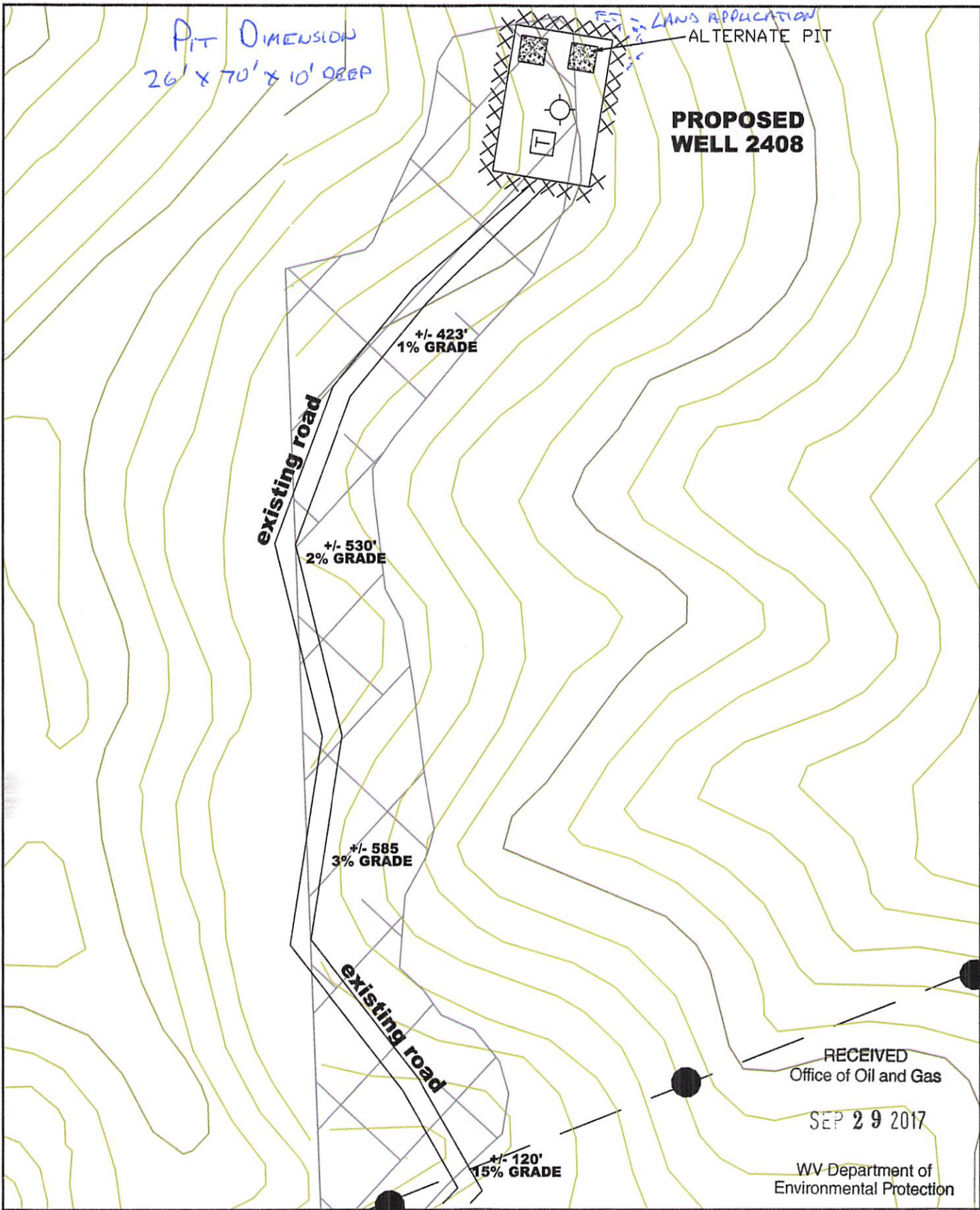
WELL SITE RECLAMATION PLAN  
GAS WELL No. 1729

QUALITY NATURAL GAS, LLC.

P.O. Box 480  
Allen, Kentucky 41601

QUADRANGLE: MATEWAN/MAJESTIC  
COUNTY: MINGO  
LEASE #: 855  
DATE: 08-26-2017  
SCALE: 1" = 200'  
DRAWING FILE: WVAREC2408.DWG





<p>EXHIBIT MAP SURFACE PROPERTY LINES ARE APPROXIMATE; NOT TO BE USED FOR TRANSFER PURPOSES</p>	<p>STREAM</p>	<p>WATER WELL</p>	<p>STORAGE TANK</p>
	<p>ROAD</p>	<p>PROPOSED WELL</p>	<p>SPRING</p>
<p>EXISTING FENCE</p>	<p>FLOW LINE</p>	<p>PIT: FILL WALLS</p>	<p>PIT: CUT WALLS</p>
<p>PLANNED FENCE</p>	<p>CROSS DRAIN</p>	<p>STORAGE WASTE AREA</p>	
<p>OPEN DITCH</p>	<p>DRAIN PIPE</p>		
<p>ROCK</p>	<p>FILTER STRIP</p>		
<p>BUILDING</p>	<p>DIVERSION DITCH</p>		

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 CHARLESTON

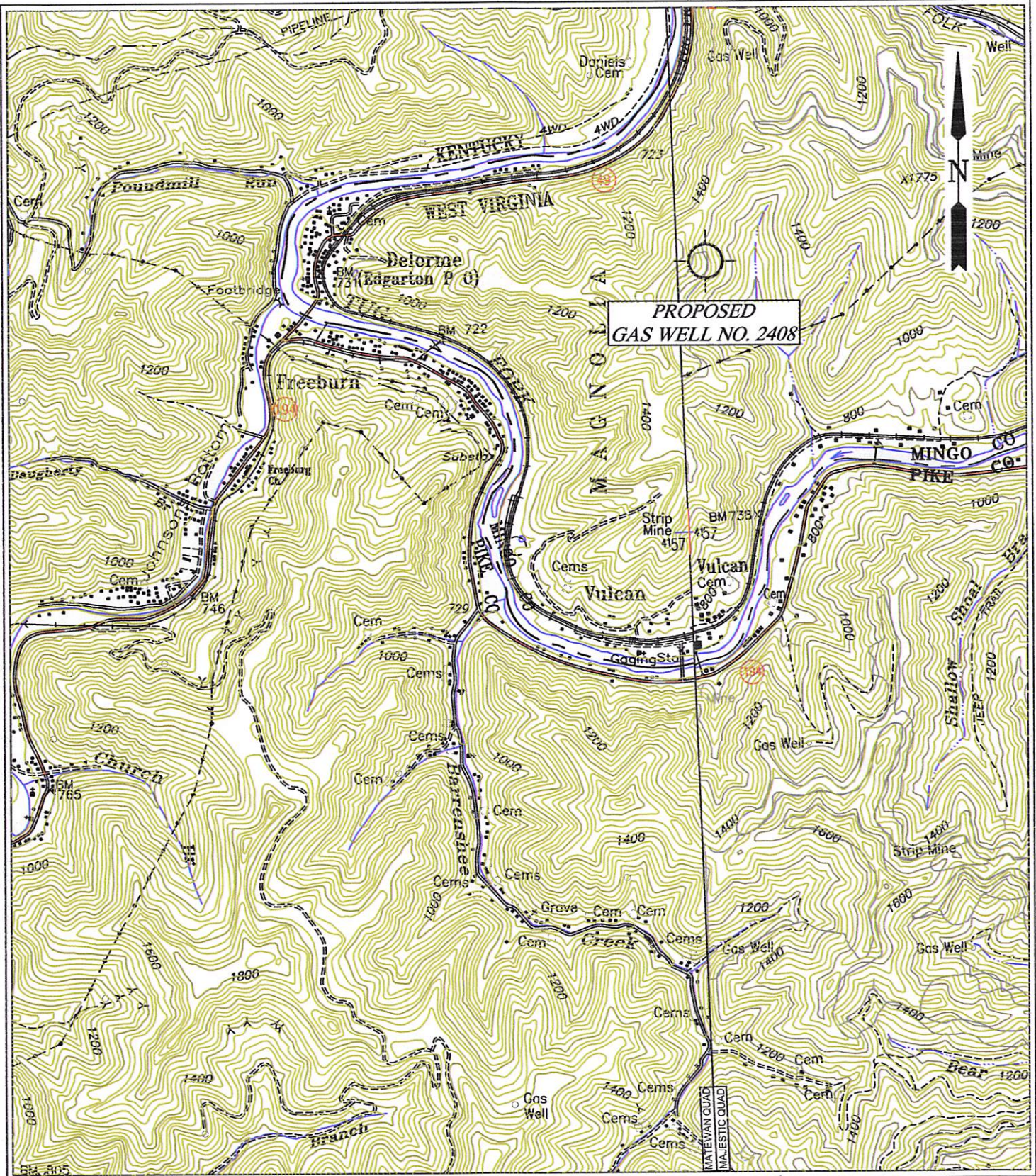
10/27/2017

**WELL SITE RECLAMATION PLAN  
 GAS WELL No. 2408**

**QUALITY NATURAL GAS, LLC.**  
 P.O. Box 480  
 Allen, Kentucky 41601

QUADRANGLE: MATEWAN/MAJESTIC  
 COUNTY: MINGO  
 LEASE #: 855  
 DATE: 08-26-2017  
 SCALE: 1' = 200'  
 DRAWING FILE: WVAREC2408.DWG





Randall Stephens, LLC  
 P.O. Box 267  
 Hager Hill, KY 41222  
 Phone: (423) 736-4572

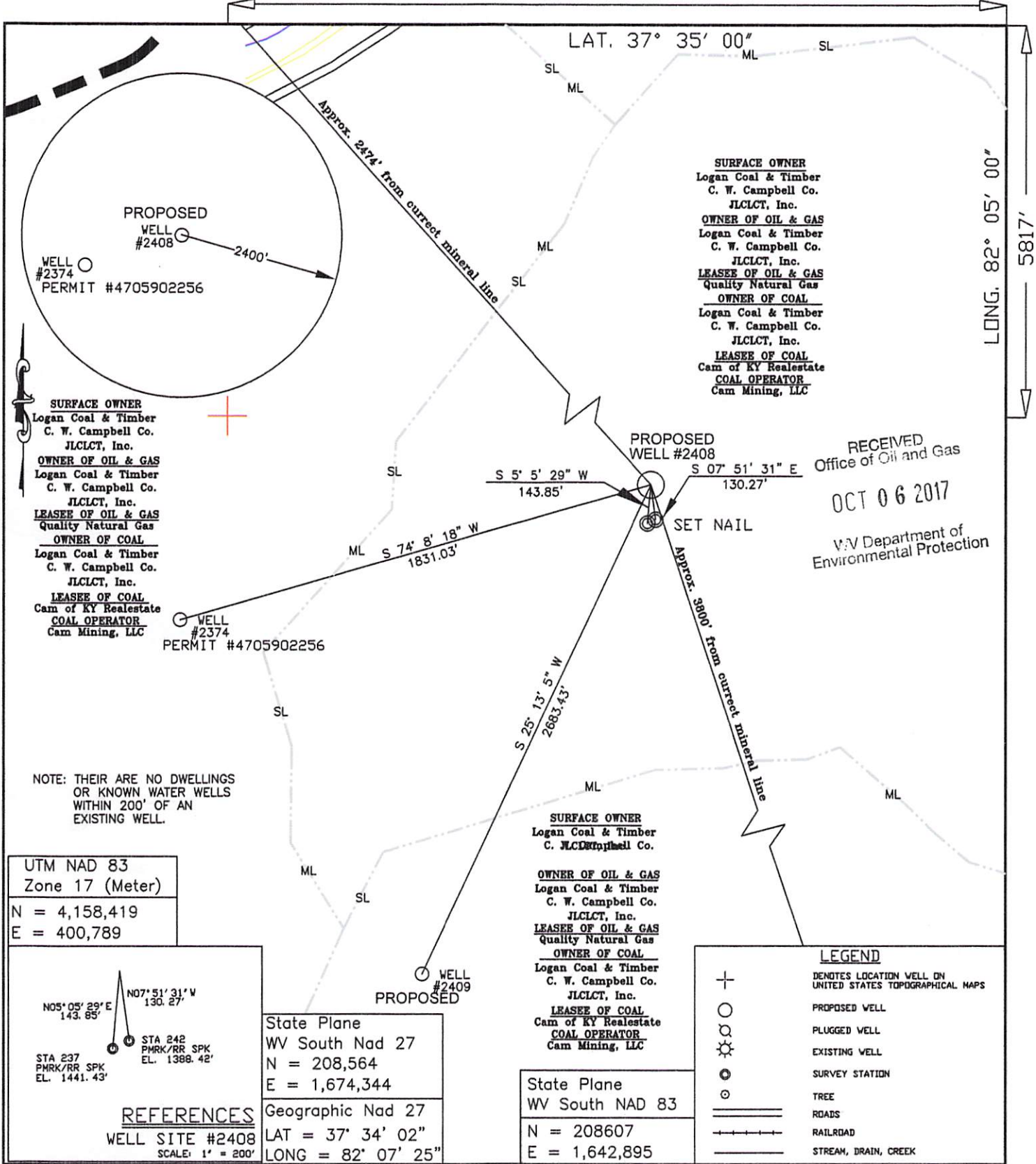
**QUALITY NATURAL GAS, LLC.**  
**LOCATION MAP**  
 PROPOSED GAS WELL NO. 2408

QUAD: MAJESTIC	RECEIVED Office of Oil and Gas
SCALE: 1" = 2000'	SEP 29 2017
DATE: 08-26-17	
FILE NAME: WWA VIC 2408.DWG	WV Department of Environmental Protection

10/27/2017



11,659'



**SURFACE OWNER**  
 Logan Coal & Timber  
 C. W. Campbell Co.  
 JLCCLT, Inc.

**OWNER OF OIL & GAS**  
 Logan Coal & Timber  
 C. W. Campbell Co.  
 JLCCLT, Inc.

**LEASEE OF OIL & GAS**  
 Quality Natural Gas

**OWNER OF COAL**  
 Logan Coal & Timber  
 C. W. Campbell Co.  
 JLCCLT, Inc.

**LEASEE OF COAL**  
 Cam of KY Realestate  
**COAL OPERATOR**  
 Cam Mining, LLC

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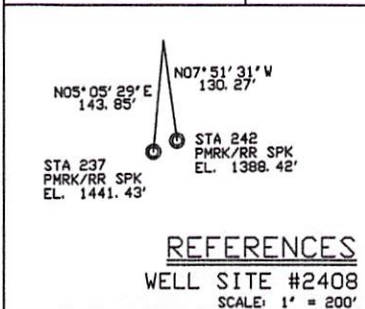
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 OCT 06 2017  
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 Environmental Protection

NOTE: THEIR ARE NO DWELLINGS  
 OR KNOWN WATER WELLS  
 WITHIN 200' OF AN  
 EXISTING WELL.

UTM NAD 83  
 Zone 17 (Meter)  
 N = 4,158,419  
 E = 400,789



State Plane  
 WV South Nad 27  
 N = 208,564  
 E = 1,674,344

Geographic Nad 27  
 LAT = 37° 34' 02"  
 LONG = 82° 07' 25"

**SURFACE OWNER**  
 Logan Coal & Timber  
 C. W. Campbell Co.  
 JLCCLT, Inc.

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 Cam Mining, LLC

DRAWING No. WVA2408.DWG  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 IN 2,500'  
 PROVEN SOURCE OF ELEVATION USGS B.M.  
 MONUMENT # 723



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL INFORMATION REQUIRED BY LAWS AND REGULATION ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL AGENCY.

*Randall C Stephens*  
 PE # 9648

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 CHARLESTON, WV.

DATE: 08/26/17  
 OPERATOR'S WELL NO. 2408

47 -- 59 -- 02263  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  OR STORAGE  OR SHALLOW

LOCATION: ELEVATION 1415.27' WATER SHED TUG FORK of BIG SANDY RIVER  
 DISTRICT MAGNOLIA COUNTY MINGO  
 QUADRANGLE MAJESTIC

SURFACE OWNER LOGAN COAL & TIMBER CORP., C.W. CAMPBELL CO. & JLCCLT, INC ACREAGE +/- 528' **10/27/2017**  
 OIL & GAS ROYALTY OWNER LOGAN COAL & TIMBER CORP., C.W. CAMPBELL CO. & JLCCLT, INC LEASE ACREAGE +/- 528'  
 LEASE No. 855

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

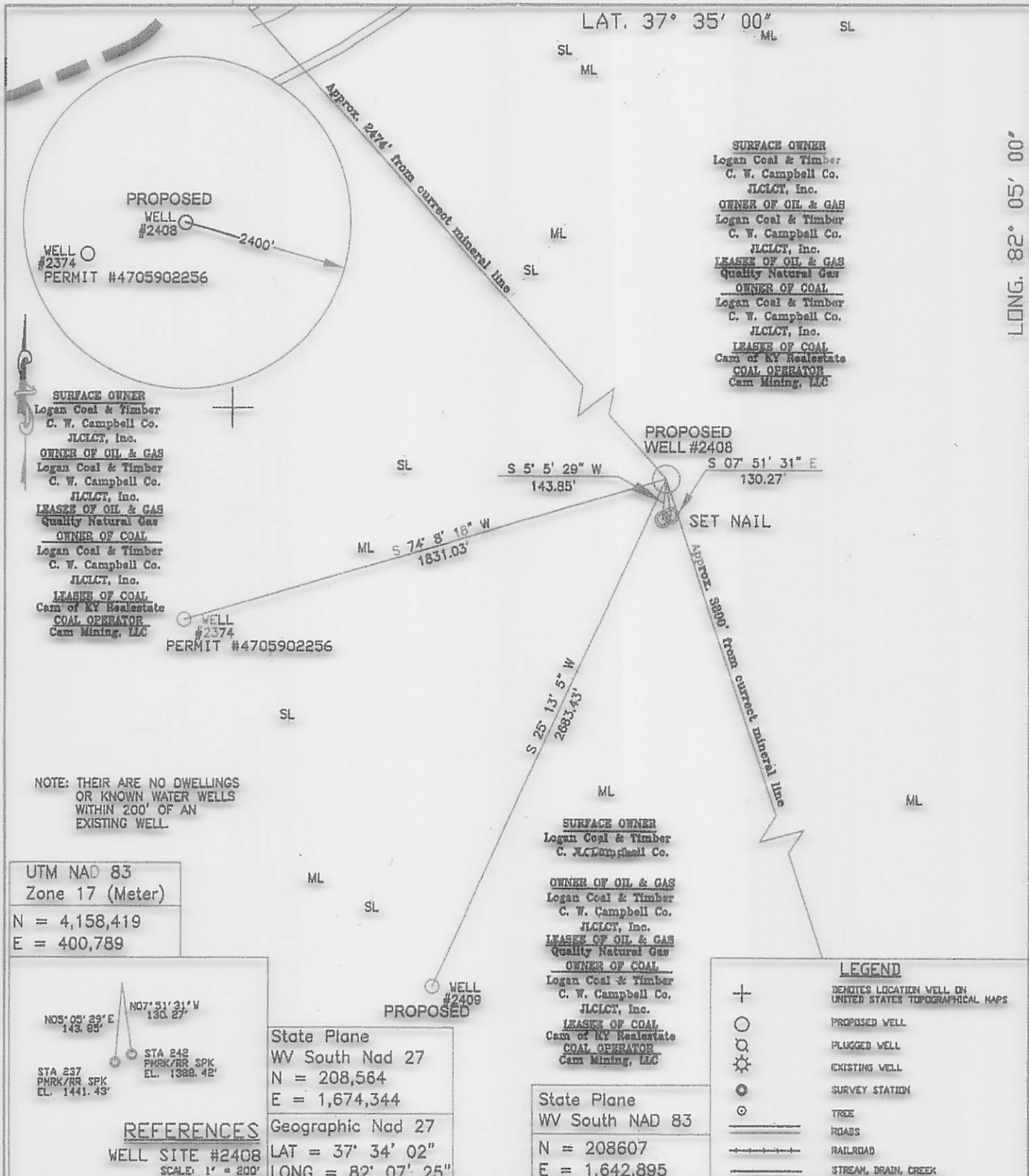
PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION HARRELL SHALE ESTIMATED DEPTH 4894  
 WELL OPERATOR QUALITY NATURAL GAS, LLC DESIGNATED AGENT JAMES HILL  
 ADDRESS P.O. BOX 480 ADDRESS HC 71 Rt. 4, BOX 87A  
Allen, Kentucky 41601 WHARNCLIFFE, WV 25651



11,659

LAT. 37° 35' 00"

LONG. 82° 05' 00"



**SURFACE OWNER**  
Logan Coal & Timber  
C. W. Campbell Co.  
JLCLCT, Inc.

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Cam of KY Realstate  
**COAL OPERATOR**  
Cam Mining, LLC

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**COAL OPERATOR**  
Cam Mining, LLC

NOTE: THEIR ARE NO DWELLINGS OR KNOWN WATER WELLS WITHIN 200' OF AN EXISTING WELL.

UTM NAD 83  
Zone 17 (Meter)  
N = 4,158,419  
E = 400,789

**REFERENCES**  
WELL SITE #2408  
SCALE: 1" = 200'

State Plane  
WV South Nad 27  
N = 208,564  
E = 1,674,344

Geographic Nad 27  
LAT = 37° 34' 02"  
LONG = 82° 07' 25"

STA 237  
PMK/RR SPK  
EL. 1441.43'

STA 248  
PMK/RR SPK  
EL. 1388.42'

N05° 05' 29" E  
143.85'

N07° 51' 31" W  
130.27'

**LEGEND**

- + IDENTIFIES LOCATION WELL ON UNITED STATES TOPOGRAPHICAL MAPS
- PROPOSED WELL
- ⊙ PLUGGED WELL
- ⊛ EXISTING WELL
- ⊙ SURVEY STATION
- TREE
- ROADS
- RAILROAD
- STREAM, DRAIN, CREEK

DRAWING No. WVA2408.DWG

SCALE 1" = 500'

MINIMUM DEGREE OF ACCURACY 1 IN 2,500'

PROVEN SOURCE OF ELEVATION USGS B.M.

MONUMENT # 723



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL INFORMATION REQUIRED BY LAWS AND REGULATION ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL AGENCY.

*Randall C Stephens*  
PE # 9648

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
CHARLESTON, WV.

DATE: 08/26/17  
OPERATOR'S WELL NO. 2408

47 -- 59 -- 0226.3  
STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
(IF "GAS") PRODUCTION  OR STORAGE  DEEP  OR SHALLOW

LOCATION: ELEVATION 1415.27' WATER SHED TUG FORK of BIG SANDY RIVER  
DISTRICT MAGNOLIA COUNTY MINGO  
QUADRANGLE MAJESTIC

SURFACE OWNER LOGAN COAL & TIMBER CORP., C.W. CAMPBELL CO. & JLCLCT, INC ACREAGE +/- 528' **10/27/2017**  
OIL & GAS ROYALTY OWNER LOGAN COAL & TIMBER CORP., C.W. CAMPBELL CO. & JLCLCT, INC LEASE ACREAGE +/- 528'  
LEASE No. 855

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON  CLEAN OUT AND REPLUG

TARGET FORMATION HARRELL SHALE ESTIMATED DEPTH 4894

WELL OPERATOR QUALITY NATURAL GAS, LLC DESIGNATED AGENT JAMES HILL  
ADDRESS P.O. BOX 480 ADDRESS HC 71 Rt. 4, BOX 87A  
Allen, Kentucky 41601 WHARNCLIFFE, WV 25651