



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

December 09, 2015

WELL WORK PERMIT

Re-Work

This permit, API Well Number: 47-5901894, issued to QUALITY NATURAL GAS, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto.

Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

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

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.


James Martin
Chief

Operator's Well No: 1817
Farm Name: QUALITY NATURAL GAS
API Well Number: 47-5901894
Permit Type: Re-Work
Date Issued: 12/09/2015

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. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced, 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.

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 059 Mag-nolia Matewan
Operator ID County District Quadrangle

2) Operators Well Number 1817 3) Elevation: 782.4'

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

5) Proposed Target Formation(s): Devonian Shale

6) Proposed Total Depth: 4283' Feet

7) Approximate fresh water strata depths: +/- 125

8) Approximate salt water depths: None Expected

9) Approximate coal seam depths: +/-50, +/-115, +/-295

10) Does land contain coal seams tributary to active mine? No

11) Describe proposed well work Re-work Existing Well, PERFORATE 4 1/2 AND NITROGEN FRAC IN DEVONIAN SHALE.

12) CASING AND TUBING PROGRAM

Table with 7 columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft), FOOTAGE INTERVALS (For Drilling, Left in Well), CEMENT (Fill -up (Cu. Ft.)). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

Packers: Kind Sizes Depths Set

Handwritten signature

Received

NOV 24 2015

WR-35
Rev (5-01)

DATE: 06-24-2011
API #: 47-5901894

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Quality Natural Gas Properties, LTD Operator Well NO.: 1817

LOCATION: Elevation: 753' Quadrangle: MATEWAN

District: MAGNOLIA County: MINGO
Latitude: 9,869 Feet South of 37 Deg. 35 Min. 00 Sec.
Longitude 2,545 Feet West of 82 Deg. 07 Min. 30 Sec.

Company: M&M DRILLING, INC.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>HC 71, RT. 4, BOX 87-A</u>	<u>13 3/8"</u>	<u>111'</u>	<u>103'</u>	
<u>WHARNCLIFFE, WV 25651</u>	<u>9 5/8"</u>	<u>319'</u>	<u>319'</u>	<u>236</u>
Agent: <u>JAMES HILL</u>	<u>7"</u>	<u>1988'</u>	<u>1988'</u>	<u>425</u>
Inspector: <u>GARY SCITES</u>	<u>4 1/2"</u>	<u>4557'</u>	<u>4557'</u>	<u>314</u>
Date Permit Issued: <u>01/04/2008</u>				
Date Well Work Commenced: <u>11/03/09</u>				
Date Well Work Completed: <u>11/10/09</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>YES</u> Cable Rig				
Total Depth (feet): <u>4,593'</u>				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? <u>NO</u>				
Coal Depths (ft.): <u>70-73', 220-224'</u>				

RECEIVED
WV DEP
JUN 30 2011
Office of Oil and Gas

OPEN FLOW DATA

Producing formation Shale, Shale/Berea Pay zone depth (ft) SEE ATTACHED
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 0 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 0 Hours
Static rock Pressure 0 psig (surface pressure) after 0 Hours

Second producing formation 0 Pay zone depth (ft) 0
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 0 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 0 Hours
Static rock Pressure 0 psig (surface pressure) after 0 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: Jerry Kuzin
Date: June 27, 2011

RECEIVED
Office of Oil and Gas
SEP 17 2015
WV Department of Environmental Protection

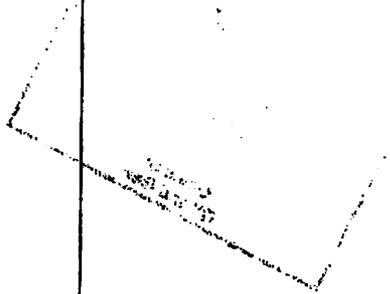
5901844W

API# 47-5901984

WELL

1817

FROM	TO	ROCK TYPE (DESCRIBE ROCK TYPES AND OTHER MATERIALS PENETRATED AND RECORD OCCURRENCES OF OIL GAS, AND WATER FROM SURFACE TO TOTAL DEPTH)	FROM	TO	ROCK TYPE (DESCRIBE ROCK TYPES AND OTHER MATERIALS PENETRATED AND RECORD OCCURRENCES OF OIL GAS, AND WATER FROM SURFACE TO TOTAL DEPTH)
0	8	SUB BASE			
8	30	SANDSTONE			GAS CHECK @ 2433' - WEIR/NO GAS
30	70	SAND/SHALE			GAS CHECK @ 3004' - B. SHALE/NO GAS
70	73	COAL			GAS CHECK @ 4593' - TD/NO GAS
73	220	SAND/SHALE			
220	224	COAL			
224	1923	SAND/SHALE			
1923	1978	SHALE			
1978	2030	LITTLE LIME			
2030	2265	BIG LIME			
2265	2373	INJUN			
2373	2397	WEIR			
2397	2560	SAND/SHALE			
2560	2917	SHALE			
2917	2970	BEREA			
2970	4593	SHALE			



RECEIVED
Office of Oil and Gas

SEP 17 2015

WV Department of
Environmental Protection

QUALITY NATURAL GAS, LLC
WR-35 COMPLETION REPORT - Attachment
TREATMENT SUMMARY

WELL NAME & NO.
API #
DATE

QUALITY NATURAL GAS, #1817
47-5901984
NOT YET TREATED

STAGE NO. 1

TYPE FRAC
ACID AMOUNT
PERFORATIONS
PERF INTERVAL
MAXIMUM PRESSURE
INSTANT SHUT IN PRESSURE
TOTAL TREATMENT VOLUME

STAGE NO. 2

TYPE FRAC
ACID AMOUNT
PERFORATIONS
PERF INTERVAL
MAXIMUM PRESSURE
INSTANT SHUT IN PRESSURE
TOTAL TREATMENT VOLUME

STAGE NO. 3

TYPE FRAC
ACID AMOUNT
PERFORATIONS
PERF INTERVAL
MAXIMUM PRESSURE
INSTANT SHUT IN PRESSURE
TOTAL TREATMENT VOLUME

Office of
Oil and Gas
JUN 30 2011

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Office of Oil and Gas

SEP 17 2015

WV Department of
Environmental Protection

CK # 11891
3,300.00

5901894W

1) Date: August 6, 2015

2) Operator's Well Number 1817

3) API Well No.: 47 - 059 - 01894
State County Permit

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

4) Surface Owner(s) to be served:
(a) Name Quality Natural Gas Properties, LTD **WAIVER**
Address P.O. Box 480
Allen, Kentucky 41601

5) (a) Coal Operator
Name N/A
Address _____

(b) Name _____
Address _____

(b) Coal Owner(s) with Declaration
Name Quality Natural Gas Properties, LTD
Address P.O. Box 480
Allen, Kentucky 41601

(c) Name _____
Address _____

Name _____
Address _____

6) Inspector Mr. Jeremy James
Address P.O. Box 147
Ona, WV 25508
Telephone (304) 951-2596

(c) Coal Lessee with Declaration
Name _____
Address _____

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

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

OR

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

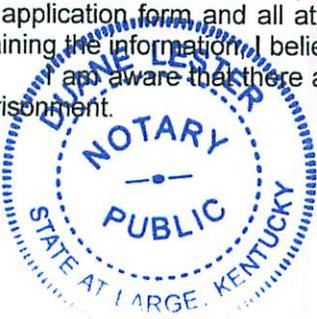
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

- ____ 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
By: [Signature]
Its: Manager
Address P.O. Box 480
Allen, KY 41601
Telephone (606) 874-8041

Received
Office of Oil & Gas
SEP 10 2015

Subscribed and sworn before me this 25 day of August, 2015

[Signature] Notary Public
My Commission Expires 4-27-2017

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Mingo Operator Quality Natural Gas, LLC
Operator well number 1817

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 OR District Oil and Gas Inspector
Department of Environmental Protection
601 57th Street
Charleston, WV 25304
(304) 926-0499

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, 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.

Company Name Quality Natural Gas Properties, LTD
By Terry or Jerry Kinzer
Its Manager

Jerry Kinzer

Signature Received Date

Office of Oil & Gas

SEP 10 2015

Signature Date

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Mingo
Operator Quality Natural Gas, LLC Operator's Well Number 1817

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 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.

WAIVER

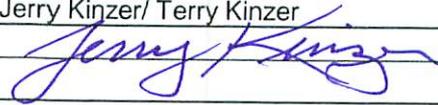
The undersigned coal operator _____ / owner X / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed 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 CORPORATION, ETC.

FOR EXECUTION BY A

Signature
Quality Natural Gas Properties, LTD

Date _____

Company Name Quality Natural Gas Properties, LTD
By Jerry Kinzer/ Terry Kinzer
Its 

Signature _____ Date _____

Received
Office of Oil & Gas
SEP 10 2015

Quality Natural Gas Properties, LTD

P.O. Box 480
Allen, KY 41601

August 6, 2015

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

Quality Natural Gas, LLC
Gas Well Application
Well Number 1817 WV State Plane Coordinates N 204,503
E 1,671,363

Dear Mr. Smith:

The undersigned coal owner 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.

Date: _____

Quality Natural Gas Properties, LTD

By: *Jerry L. Smith*

Received
Office of Oil & Gas

SEP 10 2015

**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
Nancy A Kessler Edwards	Quality Natural Gas Properties, LTD	100% OF 1/8	414/471

SEE ATTACHED ASSIGNMENT

Received
Office of Oil & Gas
SEP 10 2015

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

By: _____

Its: Manager *Jerry Kenzie*

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

December 4, 2015

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

Attn.: Mr. Jeff McLaughlin

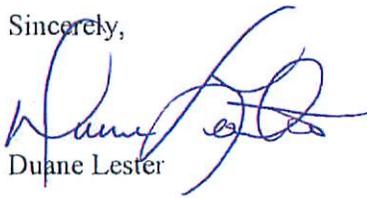
Re: West Virginia Well Applications
Quality Natural Gas, LLC
Mingo County, West Virginia

Dear Jeff:

As per our discussions yesterday regarding the relationship of the current Lessee and or owner of various leases and mineral properties, 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, please be advised that these entities are currently owned and operated by the Kinzer Family. Kinzer Business Realty, Ltd., and Quality Natural Gas Properties, Ltd., has designated Quality Natural Gas, LLC (as operator thereof) to permit, operate and maintain oil and all gas wells West Virginia at this time.

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

Sincerely,


Duane Lester

Designated Operator

Quality Natural Gas, LLC
By: Quality Natural Gas Management, LLC
Its: Manger

By: 
General Manager

Consenting Party:

Quality Natural Gas Properties, Ltd.
Kinzer Business Realty, Ltd.

Its: General Partner

By: 
General Manager

STATE OF KENTUCKY

STATE AT LARGE

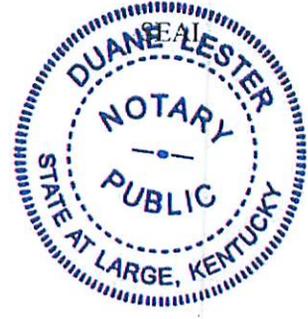
I, Duane Lester, a Notary Public of said County and State aforesaid, do certify that Jerry Kinzer, Manager of **QUALITY NATURAL GAS, LLC**, whose name is signed to the within writing has this day acknowledged the same before me in said county.

My commission expires 7.24.2017

Given under my hand this 21 day of December, 2015

Duane Lester
Notary Public

2192274
ID Number



STATE OF KENTUCKY

STATE AT LARGE

I, Duane Lester, a Notary Public of said County and State aforesaid, do certify that Jerry Kinzer, General Manager of **Kinzer Business Realty, Ltd., and Quality Natural Gas Properties, Ltd.**, whose name is signed to the within writing has this day acknowledged the same before me in said county.

My Commission Expires: 7.27.2017

Given under my hand this 21 day of December, 2015

Duane Lester
Notary Public

2192274
ID Number



FORM WW-9
Rev. 02/03

Page _____ of _____
API Number 47 - 059 - 018940000
Operator's Well No. 1817

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

Operator Name: Quality Natural Gas, LLC OP Code: 494477013

Watershed: Tug River Quadrangle: Matewan

Elevation 782.4' County: Mingo District: Magnolia

Description of anticipated Pit Waste: _____

ANY WELL EFFLUENT WILL
BE CONTAINED IN TANKS &
DISPOSED OF PROPERLY.
gmm

Will a synthetic liner be used in the pit? NO PIT

Proposed Disposal Method For Treated Pit Wastes:

- _____ Land Application
- _____ Underground Injection (UIC Permit Number _____)
- _____ Reuse (at API Number _____)
- X _____ Off Site Disposal (Supply form WW-9 for disposal location)
- _____ Other (Explain _____)

Proposed Work For Which Pit Will Be Used:

- _____ Drilling
- _____ Swabbing
- _____ Workover
- _____ Plugging
- X _____ Other (Explain Frac Well)

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on December 31, 1999, by the Office of Oil and Gas of the West Virginia Division 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.

RECEIVED
Office of Oil & Gas
SEP 10 2015

Company Official Signature Jerry Kinzer

Company Official (Typed Name) Terry Kinzer and/or Jerry Kinzer

Company Official Title Manager / Quality Natural Gas Management, LLC / Manager of Quality Natural Gas, LLC

Subscribed and sworn before me this 25 day of August, 20 15

[Signature] Notary Public

My Commission Expires 4-24-2017



LEGEND

Property Boundary

Road

Existing Fence

Planned Fence

Stream

Open Ditch

Rock

North

Buildings

Water wells

Drill site

Diversion

Spring

Wet Spot

Drain Pipe with size in inches

Waterway

Cross Drain

Artificial Filter Strip

Pit: cut walls

Pit: compacted fill walls

Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed 2 Prevegetation pH 7.0

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 Ton lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre or hydroseed

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	10	Alsike Clover	5
Annual Rye	5		
Redtop	2		

Attach:
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:

Received
Office of Oil & Gas
SEP 10 2015

Comments: _____

Title Inspector Date: 8-21-15

Field Reviewed? Yes No

5901894 W

FORM WW-75
(REV. 9/94)

**PRESCRIPTION NOT TO BURY
PRODUCTION OR GATHERING LINES**

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

(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 +/-13
Watershed Tug Fork
District Magnolia
County Mingo
Public road access Rt. 194
Generally used farm name Quality Natural Gas, LTD

(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, KY 41601
Telephone (606) 874-8041
Well: Api Permit No. 47- 59 - 47059018940000 ; (Well 1817)

(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:

X 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 _____

Received
Office of Oil & Gas

(For execution by corporation,
partnership, etc.)

(For execution by natural persons)

SEP 10 2015

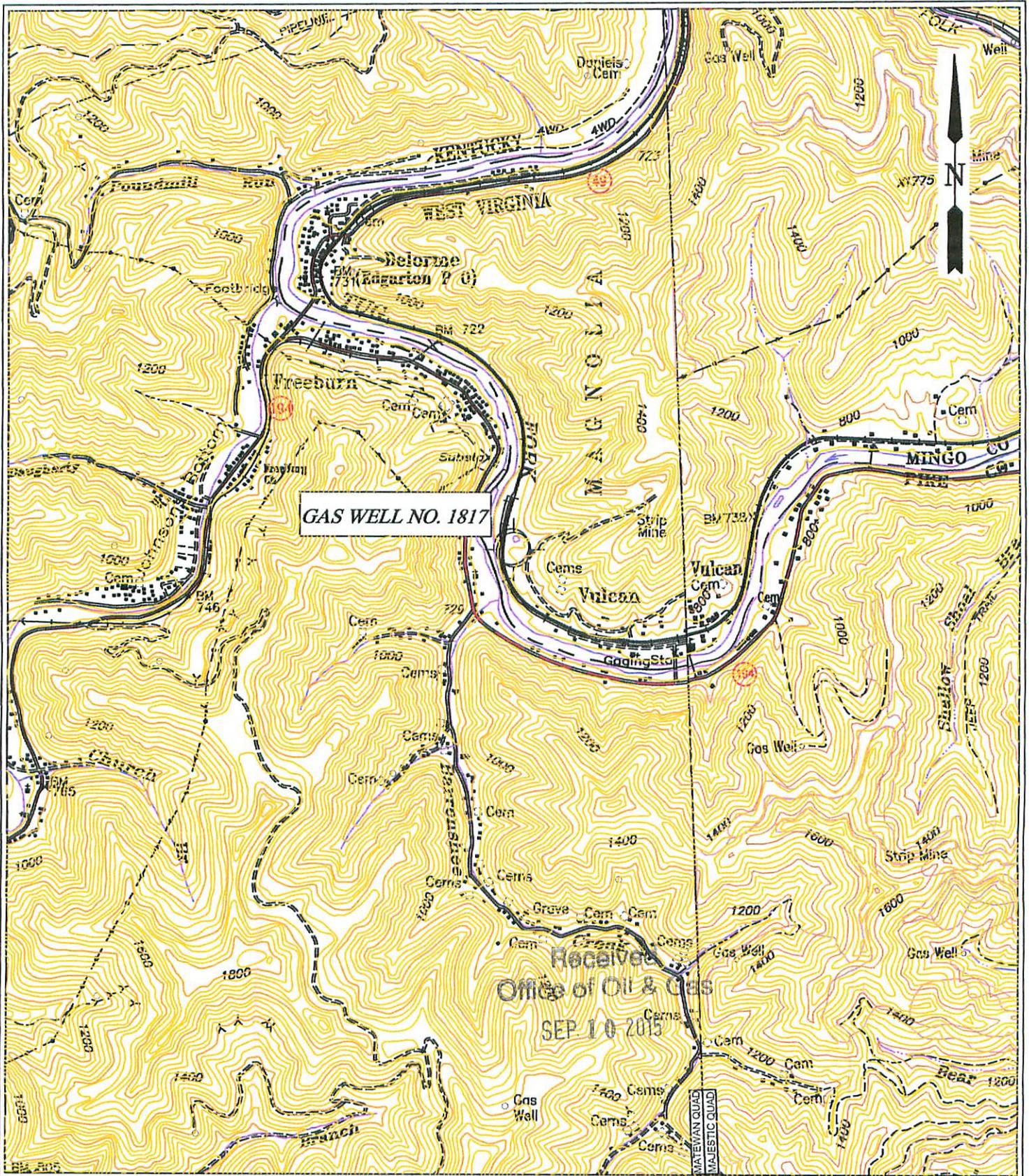
Name: Quality Natural Gas, LTD

By: Jerry Krize
Signature

Date: _____

Its: _____
Signature

Date: _____



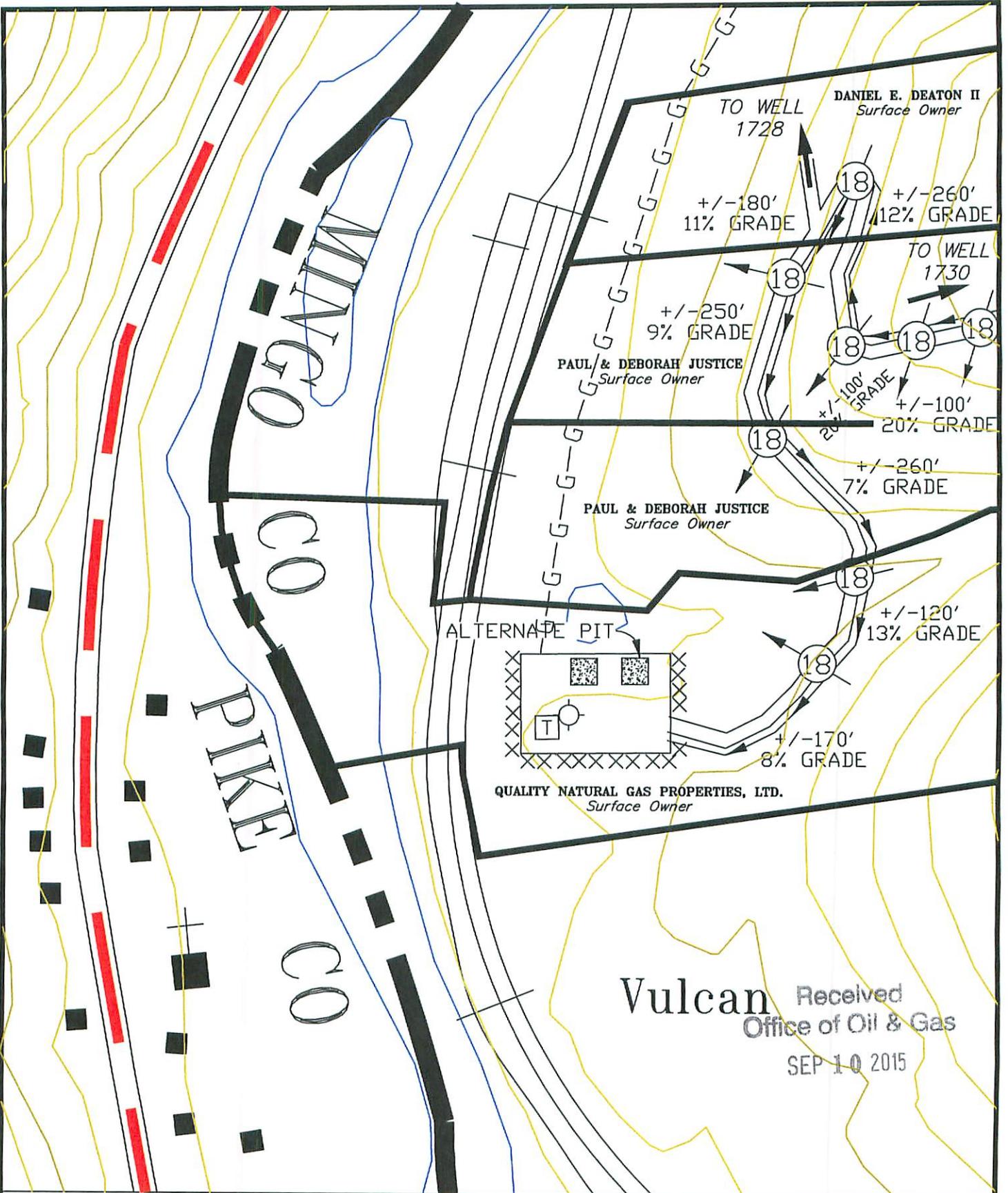
GAS WELL NO. 1817

Received
Office of Oil & Gas
SEP 10 2015

B & B Engineering, LLC
P.O. Box 1596
Prestonsburg, KY 41653
Phone: (606) 285-3400

QUALITY NATURAL GAS, LLC.
LOCATION MAP
PROPOSED GAS WELL NO. 1817

QUAD: MATEWAN
SCALE: 1" = 2000'
Date: 08/25/2015
FILE NAME: WVAVIC1817.DWG



Vulcan Received
Office of Oil & Gas
SEP 10 2015



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			

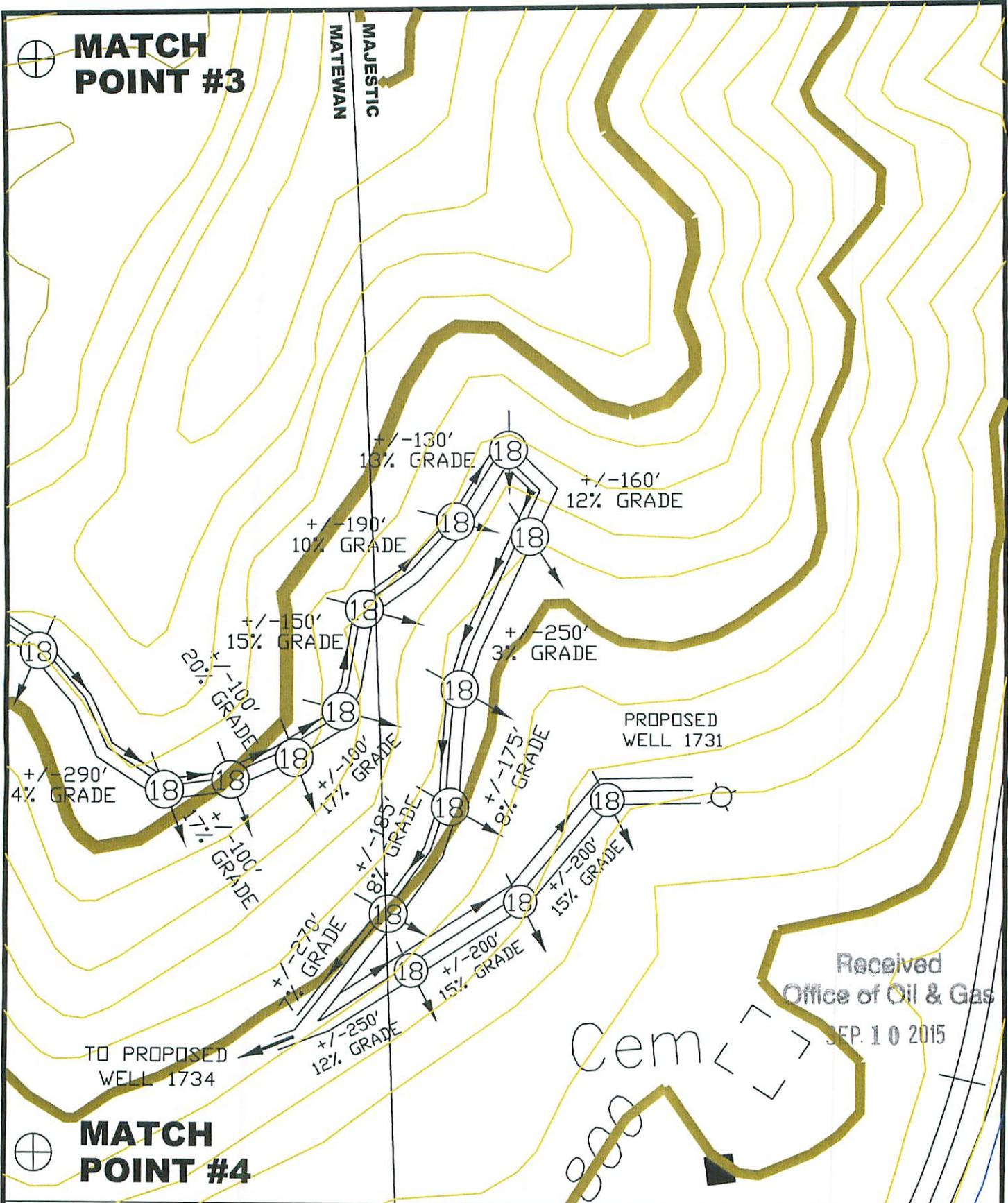
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Prestonsburg, KY 41653
Phone: (606) 285-3400

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

**WELL SITE RECLAMATION PLAN
GAS WELL No. 1817**

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

QUADRANGLE: MATEWAN
COUNTY: MINGO
LEASE #: 1005
DATE: 08-06-2015
SCALE: 1" = 200'
DRAWING FILE: WVAREC1817_10F2.DWG



SHEET 3 OF 3



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			

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

QUADRANGLE: MATEWAN
COUNTY: MINGO
LEASE #: 1005
DATE: 11/03/2007
SCALE: 1" = 200'
DRAWING FILE: WVAREC1817_30F3.DWG

**WELL SITE RECLAMATION PLAN
GAS WELL No. 1817**

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

2545'

LAT. 37° 33' 21"

LONG. 82° 07' 1"

986'

Cotiga Development Company
(Owner- Oil & Gas)
Chesapeake Appalachia, LLC.
(Lessee-Oil & Gas)

DANIEL E. DEATON
(Owner- Oil & Gas)
KINZER BUSINESS REALTY, LTD.
(Lessee-Oil & Gas)

DANIEL E. DEATON, II
(Owner-Oil & Gas)
KINZER BUSINESS REALTY, LTD.
(Lessee-Oil & Gas)

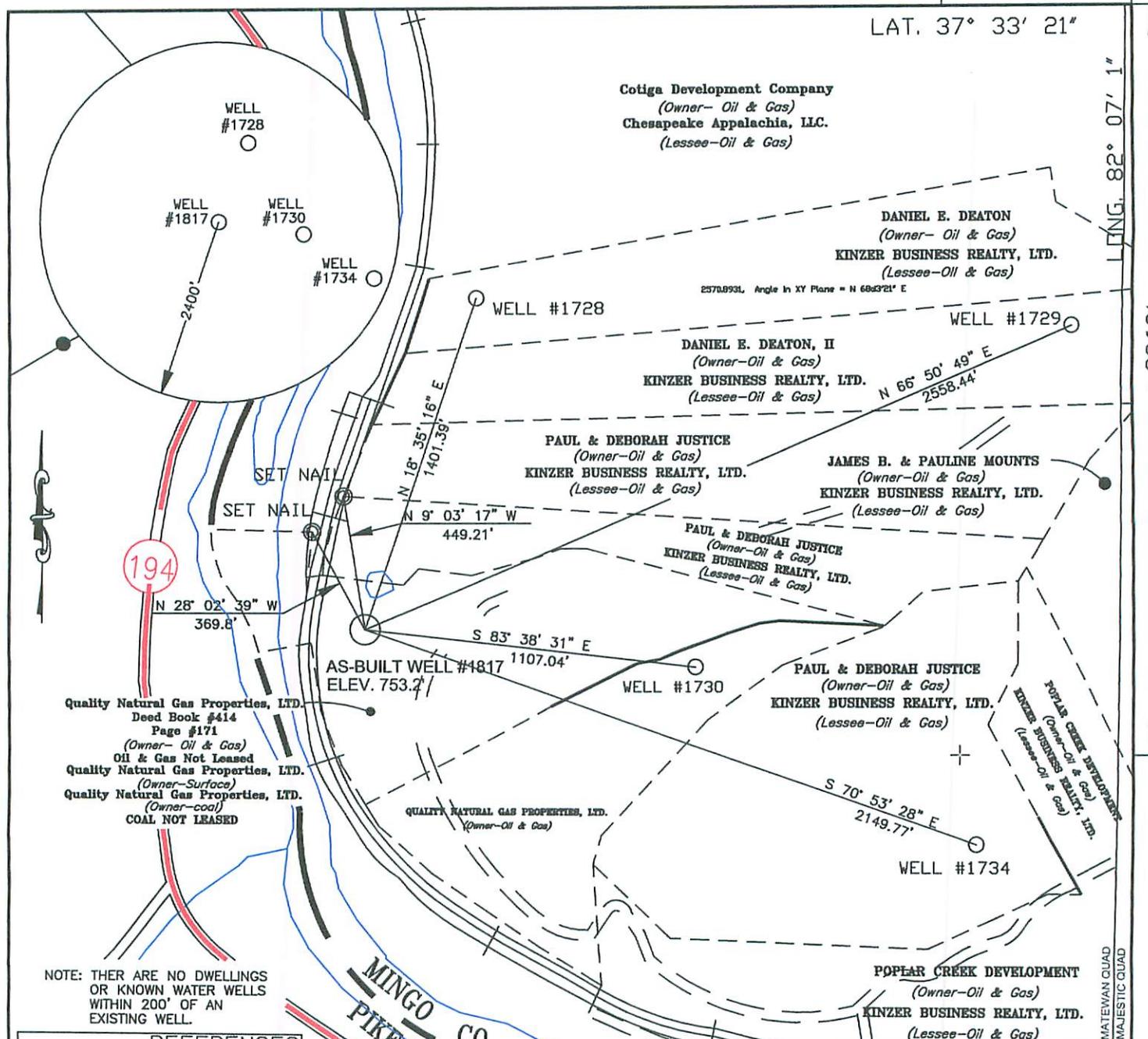
PAUL & DEBORAH JUSTICE
(Owner-Oil & Gas)
KINZER BUSINESS REALTY, LTD.
(Lessee-Oil & Gas)

JAMES B. & PAULINE MOUNTS
(Owner-Oil & Gas)
KINZER BUSINESS REALTY, LTD.
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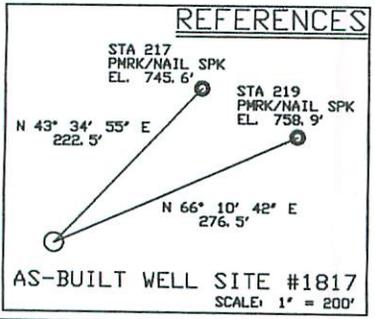
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(Owner-Oil & Gas)
KINZER BUSINESS REALTY, LTD.
(Lessee-Oil & Gas)

POPLAR CREEK DEVELOPMENT
(Owner-Oil & Gas)
KINZER BUSINESS REALTY, LTD.
(Lessee-Oil & Gas)



Quality Natural Gas Properties, LTD.
Deed Book #414
Page #171
(Owner- Oil & Gas)
Oil & Gas Not Leased
Quality Natural Gas Properties, LTD.
(Owner-Surface)
Quality Natural Gas Properties, LTD.
(Owner-coal)
COAL NOT LEASED

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



State Plane
WV South Nad 27
N = 204,503
E = 1,671,363

Geographic Nad 27
LAT = 37° 33' 21"
LONG = 82° 08' 01"

UTM NAD 83
Zone 17 (Meter)

N = 4,157,181
E = 399,881

State Plane
WV South NAD 83
N = 204545
E = 1671913

LEGEND

⊕ DENOTES LOCATION WELL IN UNITED STATES TOPOGRAPHICAL MAPS

○ PROPOSED WELL

⊙ PLUGGED WELL

⊗ EXISTING WELL

● SURVEY STATION

○ TREE

▬ ROADS

▬ RAILROAD

▬ STREAM, DRAIN, CREEK

Received
Office of Oil & Gas
SEP 10 2015

DRAWING No. WVA1817.DWG

SCALE 1" = 500'

MINIMUM DEGREE OF ACCURACY 1 IN 2,500'

PROVEN SOURCE OF ELEVATION USGS B. M.
MONUMENT # 722

REGISTERED PROFESSIONAL ENGINEER

17834
STATE OF
WEST VIRGINIA

W.A.B.

B & B Engineering, LLC
P.O. Box 1596
Prestonsburg, KY 41653
Phone: (606) 874-7005

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

DATE: 08/06/15
OPERATOR'S WELL NO. 1817
API WELL NO. 47059018940000
47 -- 59 -- 01894W
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 753' WATER SHED TUG FORK of BIG SANDY RIVER
DISTRICT MAGNOLIA COUNTY MINGO
QUADRANGLE MATEWAN

SURFACE OWNER QUALITY NATURAL GAS PROPERTIES, LTD. ACREAGE +/- 18
OIL & GAS ROYALTY OWNER QUALITY NATURAL GAS PROPERTIES, LTD. LEASE ACREAGE +/- 18
LEASE No. 1005

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 DEVONIAN SHALE ESTIMATED DEPTH 5000'

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

2545'

LAT. 37° 33' 21"

LONG. 82° 07' 1"

9869'

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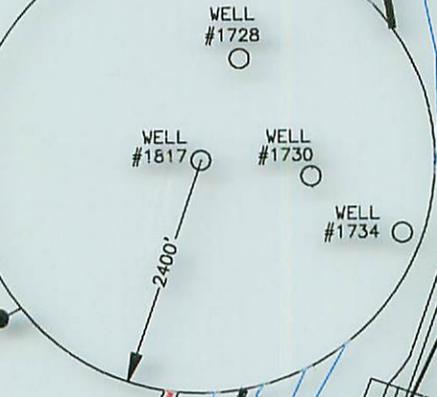
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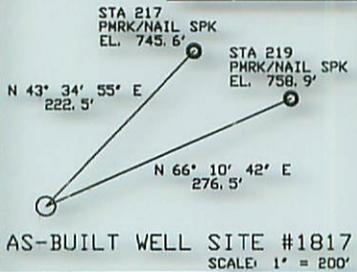
194

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UTM NAD 83
Zone 17 (Meter)
N = 4,157,181
E = 399,881
State Plane
WV South NAD 83
N = 204545
E = 1,643,913

LEGEND table with symbols for proposed well, plugged well, existing well, survey station, tree, roads, railroad, stream, drain, creek.

DRAWING No. WVA1817.DWG
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 IN 2,500'
PROVEN SOURCE OF ELEVATION USGS B. M. MONUMENT # 722



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TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5000'
WELL OPERATOR QUALITY NATURAL GAS, LLC DESIGNATED AGENT JAMES HILL
ADDRESS P.O. BOX 480 Allen, Kentucky 41601 ADDRESS HC 71 Rt. 4, BOX 87A WHARNCLIFFE, WV 25651