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**west virginia** department of environmental protection

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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](http://www.dep.wv.gov)

April 24, 2014

**WELL WORK PERMIT**

**Vertical Well**

This permit, API Well Number: 47-5902243, 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: 2365

Farm Name: MAYNARD, RAYMOND

**API Well Number: 47-5902243**

**Permit Type: Vertical Well**

Date Issued: 04/24/2014

**Promoting a healthy environment.**

**04/25/2014**

# PERMIT CONDITIONS

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

## CONDITIONS

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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 within 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.

Form: WW - 2B

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

1) Well Operator Quality Natural Gas, LLC 1 502  

<u>494477013</u>	<u>059</u>	<u>Hardee</u>	<u>Naugatuck</u>
Operator ID	County	District	Quadrangle

2) Operators Well Number 2365 3) Elevation: 851.1'

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

5) Proposed Target Formation(s): Devonian Shale Proposed Target Depth: 3460'

6) Proposed Total Depth: +/- 3681' Feet Formation at Proposed Total Depth: Devonian Shale

7) Approximate fresh water strata depths: 400'

8) Approximate salt water depths: NONE EXPECTED

9) Approximate coal seam depths: None expected due to info on other well's in the area

10) Approximate void depths, (coal, karst, other): None expected. If a void is encountered see WW-2B Attachment

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

12) Describe proposed well work in detail Drill and complete.

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.	42'	42'	42'	C.T.S.
Fresh Water	9 5/8"	L.S.	32'	430'	430'	C.T.S.
Coal	9 5/8"	L.S.	32'	430'	430'	C.T.S.
Intermediate	7"	L.S.	17'	1751'	1751'	C.T.S.
Production	4 1/2"	J55	10.5	3681'	3681'	200' up in 7" line <sup>CASING</sup>
Tubing						
Liners						

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



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**Form: WW - 2B ATT:**

If a mine void is encountered the 13 3/4" 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 mine floor 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

**Received****MAR 24 2014****Office of Oil and Gas  
WV Dept. of Environmental Protection**

04/25/2014

1. MIRU
2. Drill 17 1/2 hole to 42' or until rock is encountered
3. Set 42' of 13 3/8 37 lb. casing
4. Nipple up and run in hole w/ 12 1/4 hammer drill and bit and drill to 462 g.l. pull bit and run 430 of 32 lb. 9/8 casing. Cement casing to surface using 150 sks class a cement includes 30% access w.o. 8 hours
5. Nipple up and run in hole w 8 7/8 hammer bit and drill to 1781 or far enough to set casing in top of big lime plus 30 of rat hole cement casing to surface w/ 270 sks of 35/65 poz mi (lead cement) and 100 sks class a cement (tail) includes 30% access w.o.c. 8 hours
6. Nipple up and run in hole w/ 6/38 hammer bit and drill 3681 + or - to top of Harrell shale formation clean hole and pull bit out (well drilled entirely w/ air no mud)
7. Log well
8. Run 10.5 lb. 4.5" casing to as close to t.d. as possible
9. Cement to 4.5" w/145 sks of class a cement (1.90 yield) bringing cement top 500 + or - up in 7" casing
10. Rig down and moving drilling rig off
11. Bring in swab unit and perforate 1<sup>st</sup> stage of dev. Shale on 10-14 holes
12. Move in N2 services company and frac 1<sup>st</sup> stage w/ 900,000 of straight N2
13. Set retrievable wireline plug above 1<sup>st</sup> stage with perforating unit under pressure Perforate 2nd stage of Dev shale with 10 holes
14. Frac and stage on /900,000 cu/ft of straight n/2
15. If Berea formation looks promising – set retrievable plug w/ perforating unit above 2nd stage perforate Berea w/ 10-15 holes
16. Frac Berea w/900,000 cu/ft of straight N2
17. Run in hole w/ perforating truck wireline and retrieve plugs under pressure
18. Move all frac equipment off location and flow well back



Received

APR 22 2014

W2-A  
(Revised 6/07)

1) Date: MARCH 04, 2014  
2) Operator's Well Number 2365

5902243  
CK 1046  
65000

3) API Well No.: 47 - 059 -           
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 Raymond Maynard  
Address P.O. Box 2  
Lenore, WV 25676  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Jeremy James  
Address P.O. BOX 147  
Ona, WV 25545  
Telephone (304) 951-2596

5) (a) Coal Operator  
Name Unleased  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Raymond Maynard  
Address P.O. Box 2  
Lenore, WV 25676  
(c) Coal Lessee with Declaration  
Name Unleased  
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: Tony K...  
Its: Manager  
Address P.O. Box 460  
Allen, KY 41601  
Telephone (606) 874-8041

Subscribed and sworn before me this 6 day of March, 2014  
[Signature] Notary Public

My Commission Expires 7.27.2017

**Received**

**Oil and Gas Privacy Notice**  
The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact EEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov)



5902243

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Mingo Operator Quality Natural Gas, LLC  
Operator well number 2365

**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 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, 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.

Raymond Maynard

Company

  
Signature

Date: 3-11-14 Name \_\_\_\_\_  
By \_\_\_\_\_  
Its \_\_\_\_\_

**Received**  
**MAR 24 2014**  
Office of Oil and Gas  
WV Dept. of Environmental Protection

Signature

Date

04/25/2014

# Raymond Maynard

P.O. Box 2  
Lenore, WV 25676

March 04, 2014

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

Quality Natural Gas, LLC  
Gas Well Application  
Well Number 2365 WV State Plane Coordinates N 295,286  
E 1,625,889

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.

Raymond Maynard

By: 

Date: 3-11-14

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Office of Oil and Gas  
WV Dept. of Environmental Protection

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WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Mingo  
Operator Quality Natural Gas, LLC Operator's Well Number 2365

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.

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.

Raymond Maynard

Company

  
Signature

Date 3-11-14

Name \_\_\_\_\_  
By \_\_\_\_\_  
Its \_\_\_\_\_

Signature

Date

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**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       +/- 16        
Watershed   Pigeon Creek    
District   Hardee        
County   Mingo        
Public road access       State Route 65        
Generally used farm name   Raymond Maynard  

(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-      ; (Pending)

(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       

(For execution by corporation,  
partnership, etc.)

(For execution by natural persons)

Name:   Raymond Maynard  

By:   *Raymond Maynard*   Signature

Date:   3-11-14  

Its:       

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Office of Oil and Gas  
WV Dept. of Environmental Protection

04/25/2014



**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
Raymond Maynard	Kinzer Business Realty, LTD	1/8	BK 433 P 214

**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:

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Office of Oil and Gas  
Department of Environmental Protection

- 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

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

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

By: Tony Kinzer

Its: Manager

**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.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

Be advised, you have the right to sample and analyze any water supply at your own expense.

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

_____ Contractor Name	_____ See Note Below:
_____ Well operator's private laboratory	_____
Well Operator	<u>Quality Natural Gas, LLC</u>
Address	<u>P.O. Box 480</u>
	<u>Allen, KY 41601</u>
Telephone	<u>(606) 874-8041</u>

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 please indicate such.

**Note: There are no water wells within 1000 feet. Per Department of West Virginia Oil and Gas we have extended the water samples out to 2000 feet. The inventoried houses are attached.**

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ATTACHMENT WW2-B-A

Laboratory used for analysis: ACCULAB, INC  
167 Stollings Avenue  
Logan, WV 25601

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Office of Oil and Gas  
WV Dept. of Environmental Protection

04/25/2014

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: Pigeon Creek Quadrangle: Naugatuck

Elevation 851.1' County: Mingo District: Hardee

Description of anticipated Pit Waste: Drill water, frac below back and various settings

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_\_\_ No X

Will a synthetic liner be used in the pit? Yes, if impervious material is unavailable on site. If so what mil? : 70 20 MIL

Proposed Disposal Method For Treated Pit Wastes:

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

Drilling medium anticipated for this well? Air, Freshwater, oil based, etc. Air

-If oil based what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used? No Additives

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? \_\_\_\_\_

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.

Company Official Signature Terry 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 6 day of March, 20 14

[Signature] Notary Public

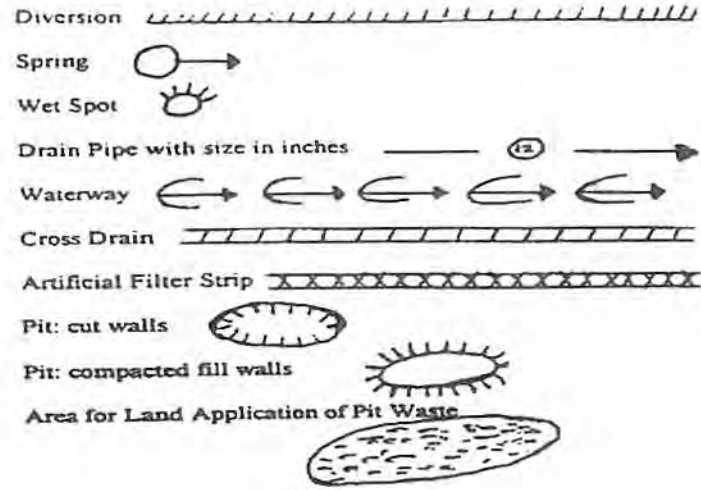
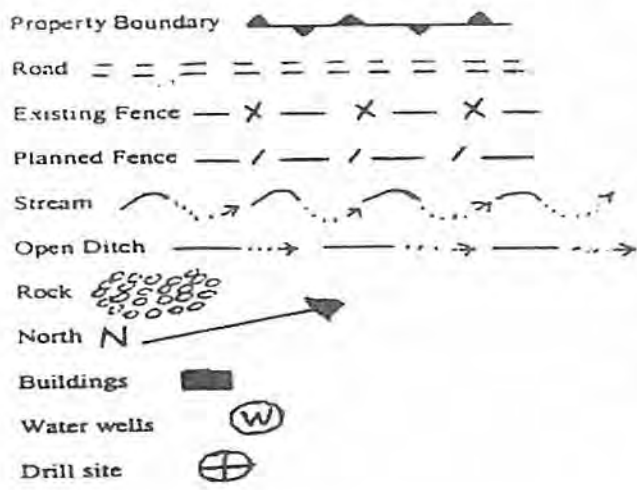
My Commission Expires 7-27-2017

RECEIVED

MAR 24 2014



LEGEND




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: 

Comments: \_\_\_\_\_

Title Inspector Date: 3-12-14  
 Field Reviewed?  Yes  No

Received  
 MAR 24 2014

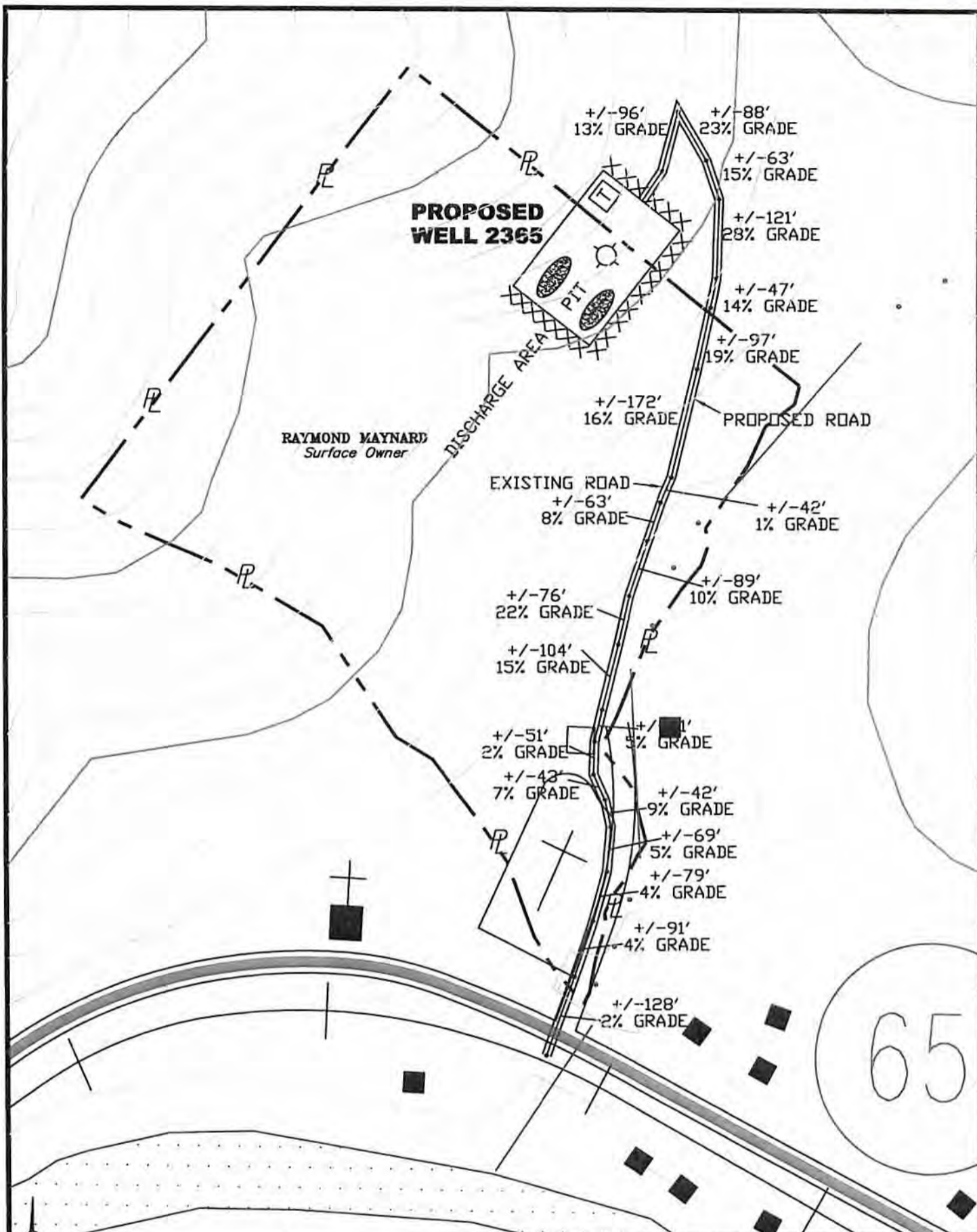


EXHIBIT MAP  
 SURFACE PROPERTY LINES ARE APPROXIMATE; NOT TO BE USED FOR TRANSFER PURPOSES

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 WASTE AREA	
ROCK		FILTER STRIP			
BUILDING		DIVERSION DITCH			

B & B Engineering, LLC  
 36 Hatfield Lane  
 Prestonsburg, KY 41653  
 Phone: (606) 874-7005

QUADRANGLE: NAUGATUCK  
 COUNTY: MINGO  
 LEASE #: \_\_\_\_\_  
 DATE: 03/04/2014  
 SCALE: 1" = 200'  
 DRAWING FILE: 2365-RECPLAN.DWG

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL & GAS  
 CHARLESTON, WVA 25304

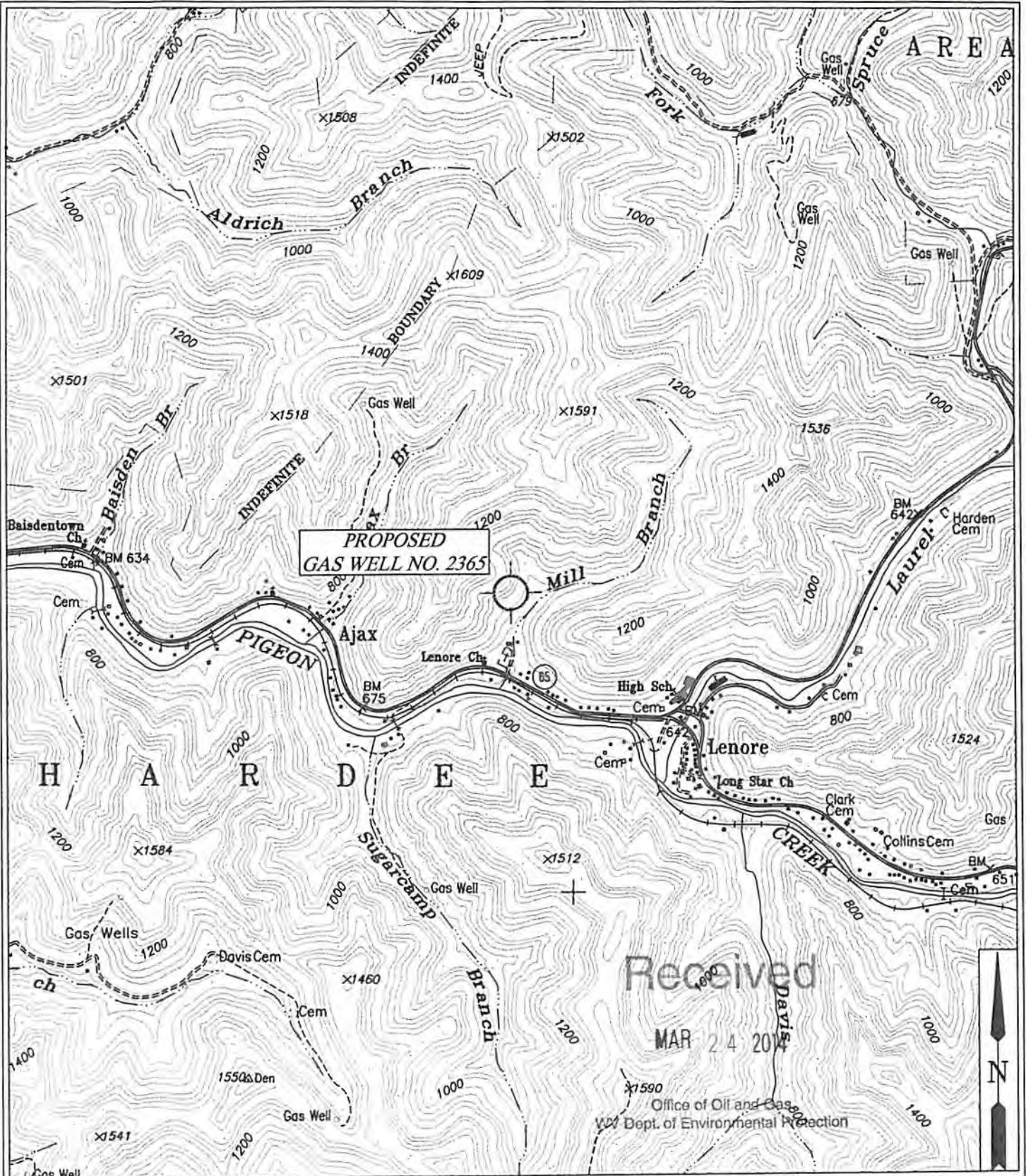
04/25/2014

**WELL SITE RECLAMATION PLAN**  
**GAS WELL No. 1286**

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

*949*





Received  
MAR 24 2014

Office of Oil and Gas  
Dept. of Environmental Protection



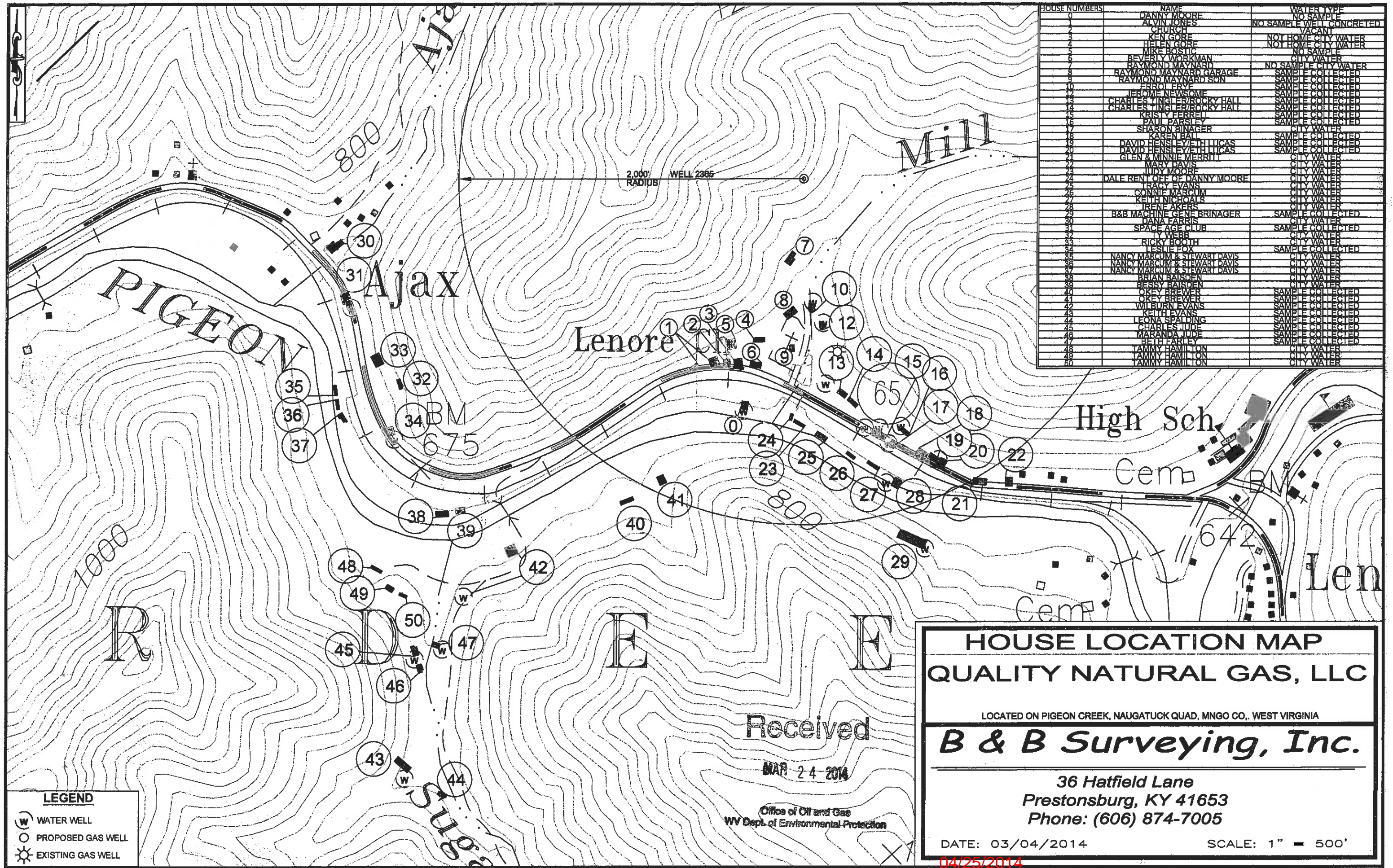
B & B Engineering, LLC  
36 Hatfield Lane  
Prestonsburg, KY 41653  
Phone: (606) 784-7005

**QUALITY NATURAL GAS, LLC.**  
**LOCATION MAP**  
PROPOSED GAS WELL NO. 2365

QUAD: NAUGATUCK  
SCALE: 1" = 2000'  
DATE: 03/04/2014  
FILE NAME: 2365-VIC.DWG

*Handwritten signature in blue ink.*





HOUSE NUMBERS	NAME	WATER TYPE
0	DANNY MOORE	NO SAMPLE
1	ALVIN JONES	NO SAMPLE WELL CONCRETED
2	CHURCH	VACANT
3	KEN GORE	NOT HOME CITY WATER
4	HELEN GORE	NOT HOME CITY WATER
5	MIKE BOSTIC	NO SAMPLE
6	BEVERLY WORKMAN	CITY WATER
7	RAYMOND MAYNARD	NO SAMPLE CITY WATER
8	RAYMOND MAYNARD GARAGE	SAMPLE COLLECTED
9	RAYMOND MAYNARD SON	SAMPLE COLLECTED
10	FERRI ERY	SAMPLE COLLECTED
11	JEROME NEWSOME	SAMPLE COLLECTED
12	CHARLES TINGLE/ROCKY HALL	SAMPLE COLLECTED
13	CHARLES TINGLE/ROCKY HALL	SAMPLE COLLECTED
14	KRISTY FERRELL	SAMPLE COLLECTED
15	PAUL PARSELY	SAMPLE COLLECTED
16	SHARON BINAGER	CITY WATER
17	KAREN BALL	SAMPLE COLLECTED
18	DAVID HENSLEY/THI LUCAS	SAMPLE COLLECTED
19	DAVID HENSLEY/THI LUCAS	SAMPLE COLLECTED
20	GLEN & MINNIE MERRILL	CITY WATER
21	MARY DAVIS	CITY WATER
22	JUDY MOORE	CITY WATER
23	DALE RENT OFF OF DANNY MOORE	CITY WATER
24	TRACY EVANS	CITY WATER
25	CONNIE MARCUM	CITY WATER
26	KEITH NICHOLS	CITY WATER
27	IRINE AKERS	CITY WATER
28	B&B MACHINERY/BRINAGER	SAMPLE COLLECTED
29	DANN FARRIS	CITY WATER
30	SPACE AGE CLUB	SAMPLE COLLECTED
31	LY WEBB	CITY WATER
32	RICKY BOOTH	CITY WATER
33	LESLIE FOX	SAMPLE COLLECTED
34	NANCY MARCUM & STEWART DAVIS	CITY WATER
35	NANCY MARCUM & STEWART DAVIS	CITY WATER
36	NANCY MARCUM & STEWART DAVIS	CITY WATER
37	NANCY MARCUM & STEWART DAVIS	CITY WATER
38	BRIAN BAISDEN	CITY WATER
39	BESSY BAISDEN	CITY WATER
40	OKEY BREWER	SAMPLE COLLECTED
41	OKEY BREWER	SAMPLE COLLECTED
42	WILBURN EVANS	SAMPLE COLLECTED
43	KEITH EVANS	SAMPLE COLLECTED
44	LEONA SPALDING	SAMPLE COLLECTED
45	CHARLES JUDE	SAMPLE COLLECTED
46	MARANDA JUDE	SAMPLE COLLECTED
47	KEITH HAMILTON	CITY WATER
48	TAMMY HAMILTON	CITY WATER
49	TAMMY HAMILTON	CITY WATER
50	TAMMY HAMILTON	CITY WATER

**LEGEND**

- W WATER WELL
- O PROPOSED GAS WELL
- S EXISTING GAS WELL

**HOUSE LOCATION MAP**  
**QUALITY NATURAL GAS, LLC**

LOCATED ON PIGEON CREEK, NAUGATUCK QUAD, MNGO CO., WEST VIRGINIA

**B & B Surveying, Inc.**

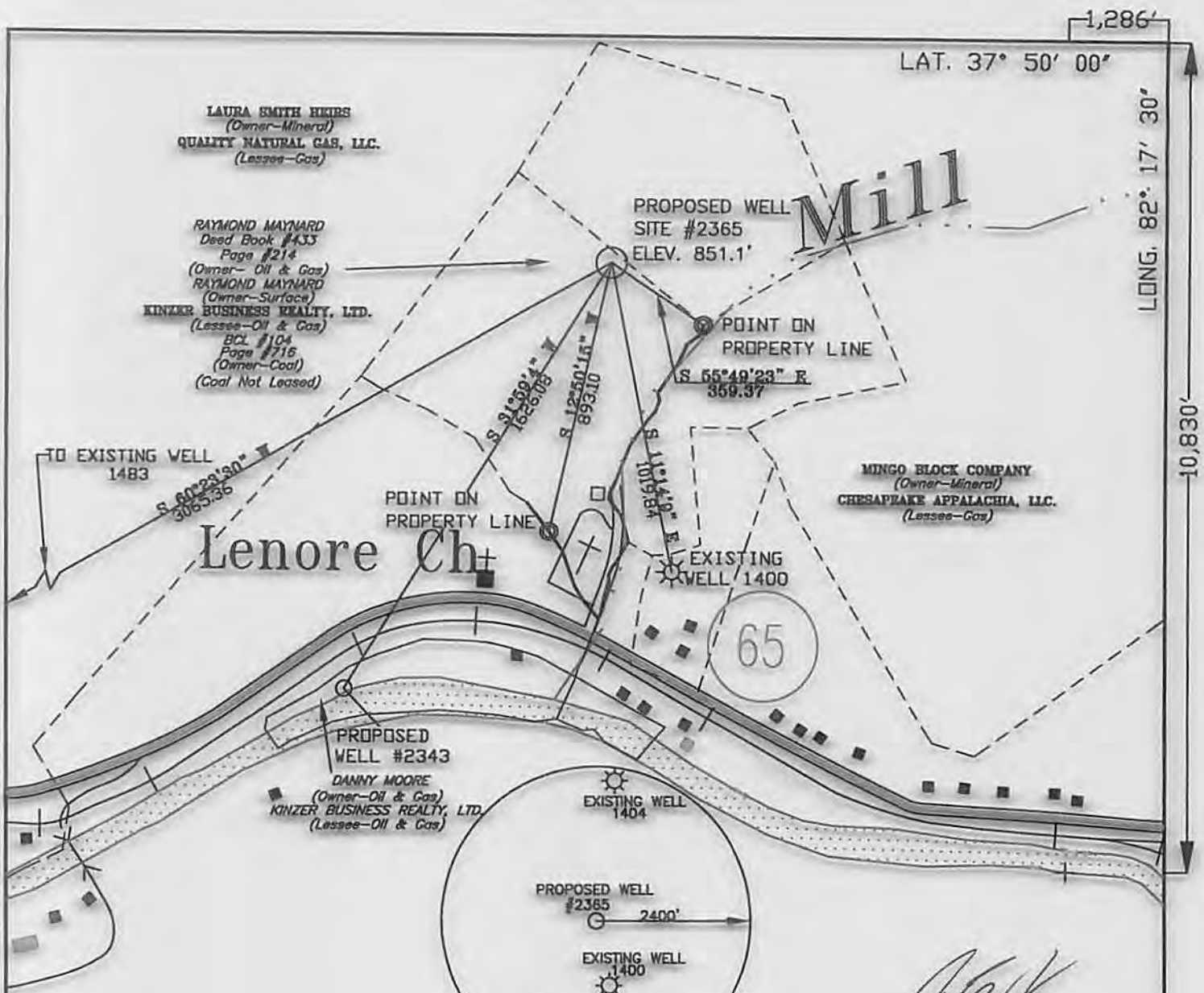
36 Hatfield Lane  
 Prestonsburg, KY 41653  
 Phone: (606) 874-7005

DATE: 03/04/2014 SCALE: 1" = 500'

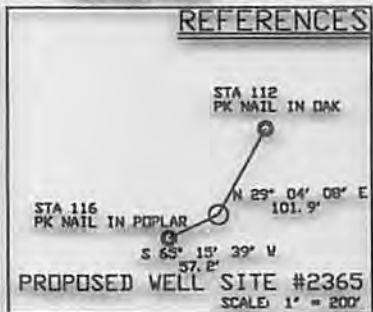
04/25/2014

Received  
 MAR 24 2014  
 Office of Oil and Gas  
 WV Dept. of Environmental Protection





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



State Plane  
 WV South Nad 27  
 N = 295,286.196  
 E = 1,625,888.835

Geographic Nad 27  
 LAT = 37° 48' 13.57"  
 LONG = 82° 17' 41.62"

State Plane  
 UTM NAD 83  
 Zone 17 (Meter)  
 N = 4,184,843.63  
 E = 386,019.17

**LEGEND**

+	DENOTES LOCATION WELL ON UNITED STATES TOPOGRAPHICAL MAPS
○	PROPOSED WELL
○	PLUGGED WELL
⊙	EXISTING WELL
○	SURVEY STATION
○	TREE
—	ROADS
—+—+—	RAILROAD
—	STREAM, DRAIN, CREEK

DRAWING No. 2365.DWG  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 IN 2,500  
 PROVEN SOURCE OF ELEVATION USGS T 144 1957  
650.90'



**B & B Engineering, LLC**  
 36 Hatfield Lane  
 Princeton, KY 41653  
 Phone: (606) 874-7005

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 CHARLESTON, WV. 25304

DATE: 04/16/14  
 OPERATOR'S WELL NO. 2365  
 API WELL NO. 47-059-02243  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 851.1' WATER SHED PIGEON CREEK  
 DISTRICT HARDEE COUNTY MINGO  
 QUADRANGLE NAUGATUCK

SURFACE OWNER RAYMOND MAYNARD ACREAGE ± 16  
 OIL & GAS ROYALTY OWNER RAYMOND MAYNARD LEASE ACREAGE ± 16 LEASE No. 1259

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 BIG LIME, BEREA, WEIR, BROWN SHALE ESTIMATED DEPTH 3681'  
 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

04/25/2014



5902243

1,286'

LAT. 37° 50' 00"

LONG. 82° 17' 30"

10,830'

LAURA SMITH HEIRS  
(Owner-Mineral)  
QUALITY NATURAL GAS, LLC.  
(Lessee-Gas)

RAYMOND MAYNARD  
Deed Book #433  
Page #214  
(Owner- Oil & Gas)  
RAYMOND MAYNARD  
(Owner-Surface)  
KINZER BUSINESS REALTY, LTD.  
(Lessee-Oil & Gas)  
ECL #104  
Page #716  
(Owner-Coal)  
(Coal Not Leased)

PROPOSED WELL  
SITE #2365  
ELEV. 851.1'

Mill

POINT ON  
PROPERTY LINE  
S 55°49'23" E  
359.37

MINGO BLOCK COMPANY  
(Owner-Mineral)  
CHESAPEAKE APPALACHIA, LLC.  
(Lessee-Gas)

POINT ON  
PROPERTY LINE

Lenore Ch

EXISTING  
WELL 1400

65

PROPOSED  
WELL #2343

DANNY MOORE  
(Owner-Oil & Gas)  
KINZER BUSINESS REALTY, LTD.  
(Lessee-Oil & Gas)

EXISTING  
WELL  
1404

PROPOSED WELL  
#2365

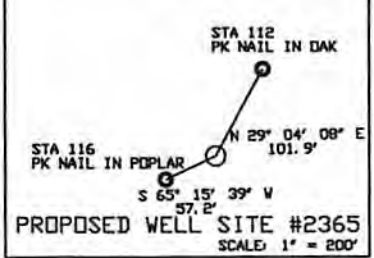
2400'

EXISTING  
WELL  
1400

PROPOSED WELL  
#2343

NOTE: THERE ARE NO DWELLINGS  
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PROPOSED WELL.

REFERENCES



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E = 1,625,888.835

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Zone 17 (Meter)  
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LEGEND

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- STREAM, DRAIN, CREEK

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MINIMUM DEGREE OF  
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PROVEN SOURCE OF  
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650.90'

WILLIAM J. BARROWS, JR.  
REGISTERED  
17834  
STATE OF  
WEST VIRGINIA  
PROFESSIONAL ENGINEER

B & B Engineering, LLC  
36 Hatfield Lane  
Prestonsburg, KY 41653  
Phone: (606) 874-7005

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
CHARLESTON, WV. 25304



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API WELL NO.  
47 -- 059 -- 02243  
STATE COUNTY PERMIT

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