



west virginia department of environmental protection

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

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

September 30, 2014

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-5902248, 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: 2355
Farm Name: LOGAN COAL & TIMBER CORP.
API Well Number: 47-5902248
Permit Type: Vertical Well
Date Issued: 09/30/2014

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

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.
8. This permit is being conditioned to address the possibility of flooding in the area of this well. Any tanks stored on this location must be securely anchored in cement to prevent the loss of tanks should a flood occur. In addition, cages must be placed around the well head to prevent debris from damaging the well head.

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 5 452

494477013	059	Magnolia	Majestic
Operator ID	County	District	Quadrangle

2) Operators Well Number 2355 3) Elevation: 812.8'

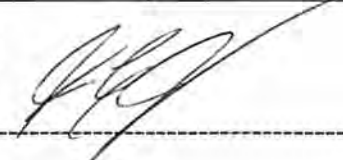
4) Well Type: (a) Oil _____ or Gas X
 (b) If Gas: Production ___ / Underground Storage _____
 Deep _____ Shallow X

- 5) Proposed Target Formation(s): B.Lime, Weir, Berea, B.Shale Proposed Target Depth: 4155'
 6) Proposed Total Depth: +/- 4275' Feet Formation at Proposed Total Depth: Harrell (Genesee)
 7) Approximate fresh water strata depths: Coal 345'
 8) Approximate salt water depths: NONE EXPECTED
 9) Approximate coal seam depths: 345'-347'
 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	
Conductor	13 3/8"	L.S.	37'	42'	42'	C.T.S.
Fresh Water	9 5/8"	L.S.	32'	380'	380'	C.T.S.
Coal	9 5/8"	L.S.	32'	380'	380'	C.T.S.
Intermediate	7"	L.S.	17'	2065'	2065'	C.T.S.
Production	4 1/2"	WTC 65	10.5	4275'	4275'	200' up in 7" casing
Tubing						
Liners						

Packers: Kind _____
 Sizes _____
 Depths Set _____

Received 
 OCT 29 '14

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 3/4" 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 2nd void if encountered and to fresh water casing point

Received

OCT 29 2014

Office of Oil and Gas
WW Dept. of Environmental Protection

10/03/2014

WW2-A1 SURFACE OWNERS

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

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

Dingess-Rum Properties, Inc. ✓
723 Kanawha Boulevard, East
Union Building, Fourteenth Floor
Charleston, West Virginia 25301

Received

DATE 2.9.14

WV Dept of Environmental Protection

10/03/2014

WW2-A2 COAL OWNERS

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

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

Dingess-Rum Properties, Inc.
723 Kanawha Boulevard, East
Union Building, Fourteenth Floor
Charleston, West Virginia 25301

Received

AUG 29 2014

WW2-A2 Coal Owners Committee

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Mingo Operator Quality Natural Gas, LLC
Operator well number 2355

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 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.

Received

Logan Coal & Timber Corporation

Signature Date: AUG 29 2014

Name By Its Rodman E THOMPSON JR President

Signature Date 2014-07-10

Office of Oil and Gas
WV Dept of Environmental Protection

10/03/2014

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Mingo Operator Quality Natural Gas, LLC
Operator well number 2355

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- 6) The proposed well work will constitute a hazard to the safety of persons.
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FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Received

Signature

Date: 7/7/14

Name Gary D. Baldwin
By
Its

Gary D. Baldwin
Signature

7/7/14
Date

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Mingo Operator Quality Natural Gas, LLC
Operator well number 2355

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- 11) The proposed well work will constitute a hazard to the safety of persons.
- 12) The soil erosion and sediment control plan is not adequate or effective;
- 13) Damage would occur to publicly owned lands or resources;
- 14) The proposed well work fails to protect fresh water sources or supplies;
- 15) 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..."

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FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Received

Signature _____ Date 7/2/14 Name By Its _____

Dingess-Rum Properties, Inc
Torrey Evans
President

Signature Torrey Evans Date 7/2/14

10/03/2014

590 2248

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Mingo
Operator Quality Natural Gas, LLC Operator's Well Number 2355

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 57th St. SE
Charleston, WV 25304
(304) 926-0499 extension 1654

WAIVER

The undersigned coal operator X / owner / 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.

CAM MINING, LLC.

Signature

Date

Name RONALD G. HULL
By _____
Its GMI-ENG
Ronald G. Hull 8/19/14
Signature Date

Received

29 14

10/03/2014

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FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

CAM OF KENTUCKY REAL ESTATE, LLC.

Signature
Date _____ Name RONALD G. HULL
By _____
Its GM-ENG
Ronald G. Hull 8/19/14
Signature Date

Received

AUG 29 '14

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FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Logan Coal & Timber Corporation

Signature _____ Date _____ Name By Robinson E THOMPSON Jr
Its President
Robinson E Thompson / 2014-07-15
Signature Date

Received

AUG 29 2014

WW-2A Coal Waiver

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FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

C.W. Campbell Company

Signature

Date

Name
By Gary D. Baldwin
Its President
Jay S. Blum 7/7/14
Signature Date

Received

AUG 29 '14

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Mingo
Operator Quality Natural Gas, LLC Operator's Well Number 2355

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Department of Environmental Protection
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FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Dingess-Rum Properties, Inc

Signature
Date _____ Name Torrey Evans
By president
Its _____
Torrey Evans 7/2/14
Signature Date

Received

AUG 29 2014

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

Operator's Well Number 2355

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Logan Coal & Timber Corporation	Kinzer Business Realty, LTD	1/8	BK 27 P 208
C.W. Campbell Company	Kinzer Business Realty, LTD	1/8	BK 27 P 208
Dingess-Rum Properties, Inc.	Kinzer Business Realty, LTD	1/8	BK 27 P 208

SEE ATTACHED

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

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

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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:

Its:

Terry King
Manager

10/03/2014

Kinzer Business Realty, Ltd.

Quality Natural Gas, LLC
P. O. Box 460
Allen, Kentucky 41601
Telephone #606-874-8041
Facsimile #606-874-9928
dlester@kinzerdrilling.com

September 11, 2014

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

Attn.: Mr. Jeff McLaughlin

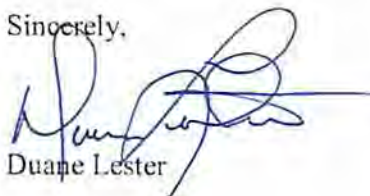
Re: Pending 11 Well Applications
Quality Natural Gas, LLC
Logan Coal & Timber Corp., et al
Mingo County, West Virginia

Dear Jeff:

As per our discussions yesterday regarding the relationship of the current Lessee, Kinzer Business Realty, Ltd., and that of the current applicant of the eleven (11) pending permit application by Quality Natural Gas, LLC, please be advised that these entities are currently owned and operated by the Kinzer Family. Kinzer Business Realty, Ltd., has designated Quality Natural Gas, LLC (as operator thereof) to permit, operate and maintain oil and gas wells in Kentucky and West Virginia.

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

Sincerely,

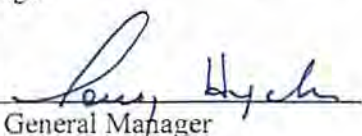


Duane Lester

Designated Operator

Quality Natural Gas, LLC

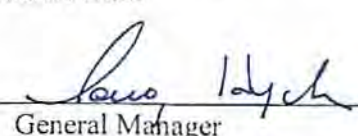
By: Quality Natural Gas Management, LLC
Its: Manger

By: 
General Manager

Consenting Party:

Kinzer Business Realty, Ltd.

By: Kinzer Buiness Realty, LLC
Its: General Partner

By: 
General Manager

STATE OF KENTUCKY

STATE AT LARGE

I, Duane Lester, a Notary Public of said County and State aforesaid, do certify that Doug Hyden, 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 11 day of September, 2014

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 **Doug Hyden, General Manager of Kinzer Business Realty, Ltd.**, 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 11 day of September, 2014

Duane Lester
Notary Public



WW-2B1
(5-12)

Well No. 2355

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

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

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name ACCULAB, INC., 167 Stollings Avenue, Logan, WV 25601
Sampling Contractor Acculab, Inc., 167 Stollings Avenue, Logan, WV 25601

Well Operator Quality Natural Gas, LLC
Address P.O. Box 460
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.

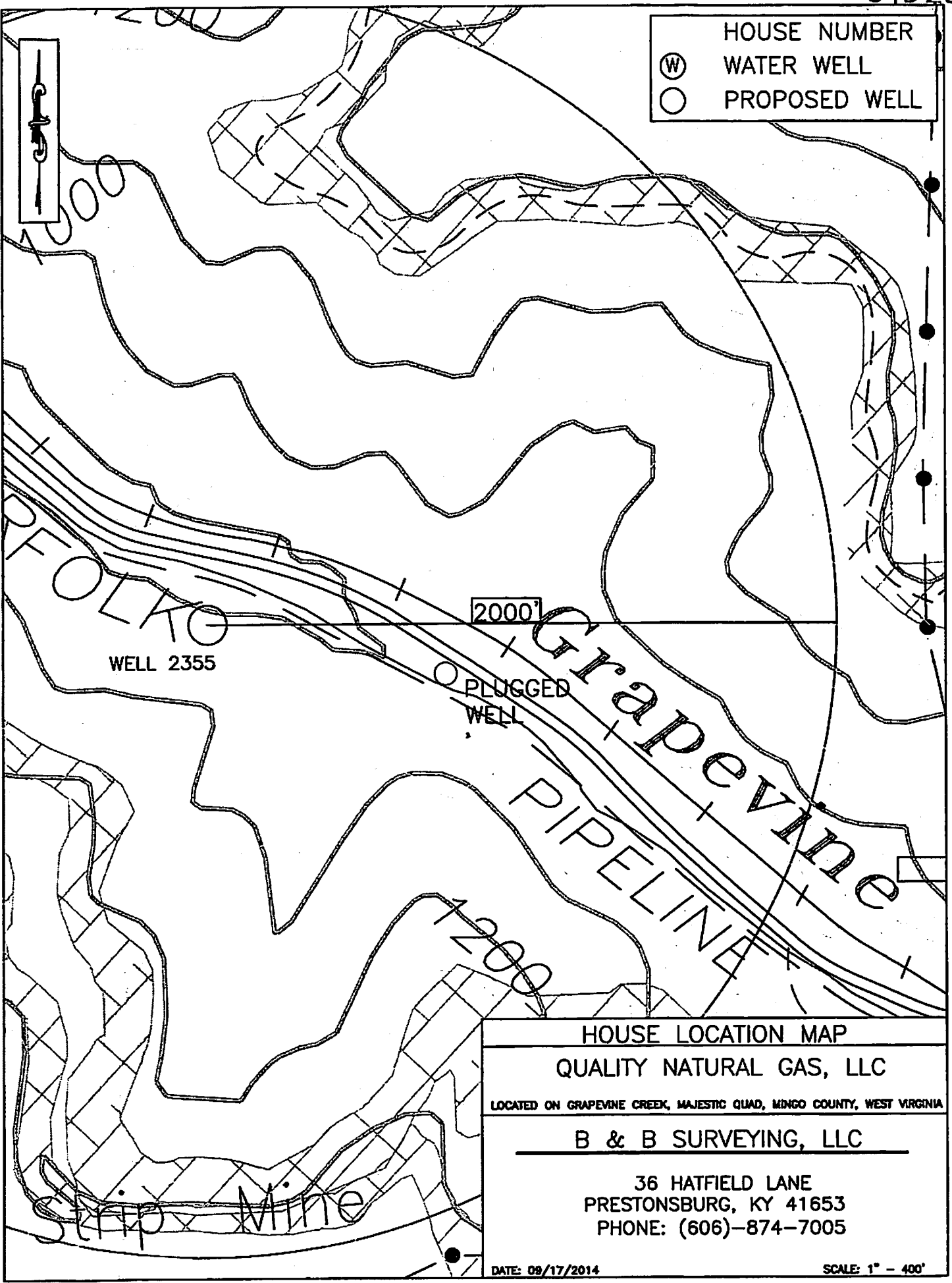
SEE ATTACHA

WW-2BA

WELL #2355

NO HOUSES WITHIN 2000'
OR WATER SUPPLIES
WITHIN 2000'

	HOUSE NUMBER
⊙	WATER WELL
○	PROPOSED WELL



HOUSE LOCATION MAP
 QUALITY NATURAL GAS, LLC
 LOCATED ON GRAPEVINE CREEK, MAJESTIC QUAD, MINGO COUNTY, WEST VIRGINIA

B & B SURVEYING, LLC

36 HATFIELD LANE
 PRESTONSBURG, KY 41653
 PHONE: (606)-874-7005

DATE: 09/17/2014 SCALE: 1" = 400'

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: Grapevine Creek of the Tug Fork River Quadrangle: Majestic

Elevation 794.20' County: Mingo District: Magnolia

Description of anticipated Pit Waste: Water encountered while drilling and various formation cuttings

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? : 40 - 20mil
20m

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 21 day of May, 20 14

[Signature]

Notary Public

Received

My Commission Expires 7-24-2017

AUG 29 2014



10/03/2014

Operator's Well No. 2355

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:

Comments:

Received

Title Inspector

Date: 5-21-14

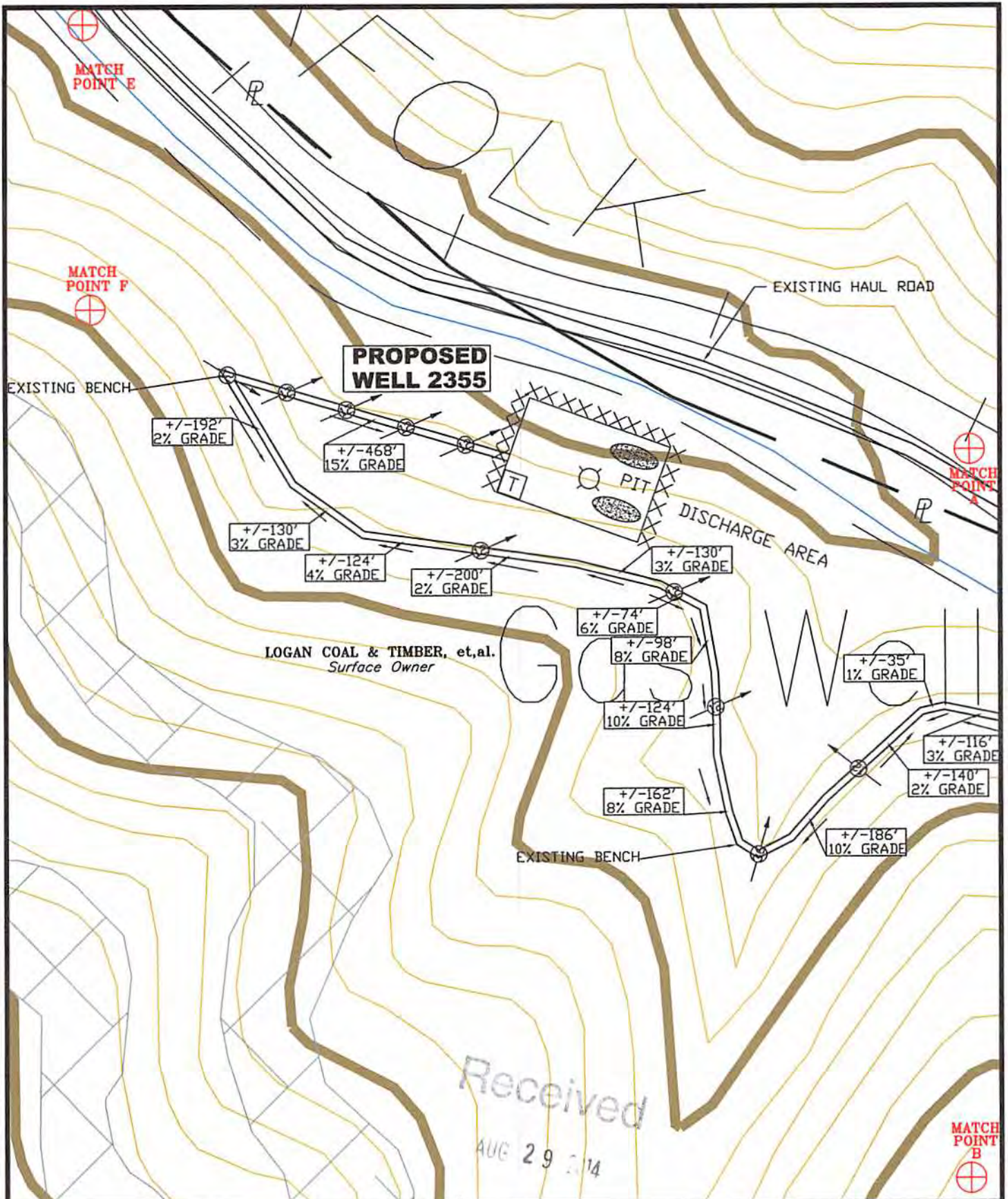
AUG 29 2014

Field Reviewed?

Yes

No

Office of Oil and Gas
WV Dept. of Environmental Protection



Office of Oil and Gas
WV Dept. of Environmental Protection

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

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 & GAS
CHARLESTON, WVA 25304

10/03/2014

**WELL SITE RECLAMATION PLAN
GAS WELL No. 2355**

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

QUADRANGLE: MAJESTIC

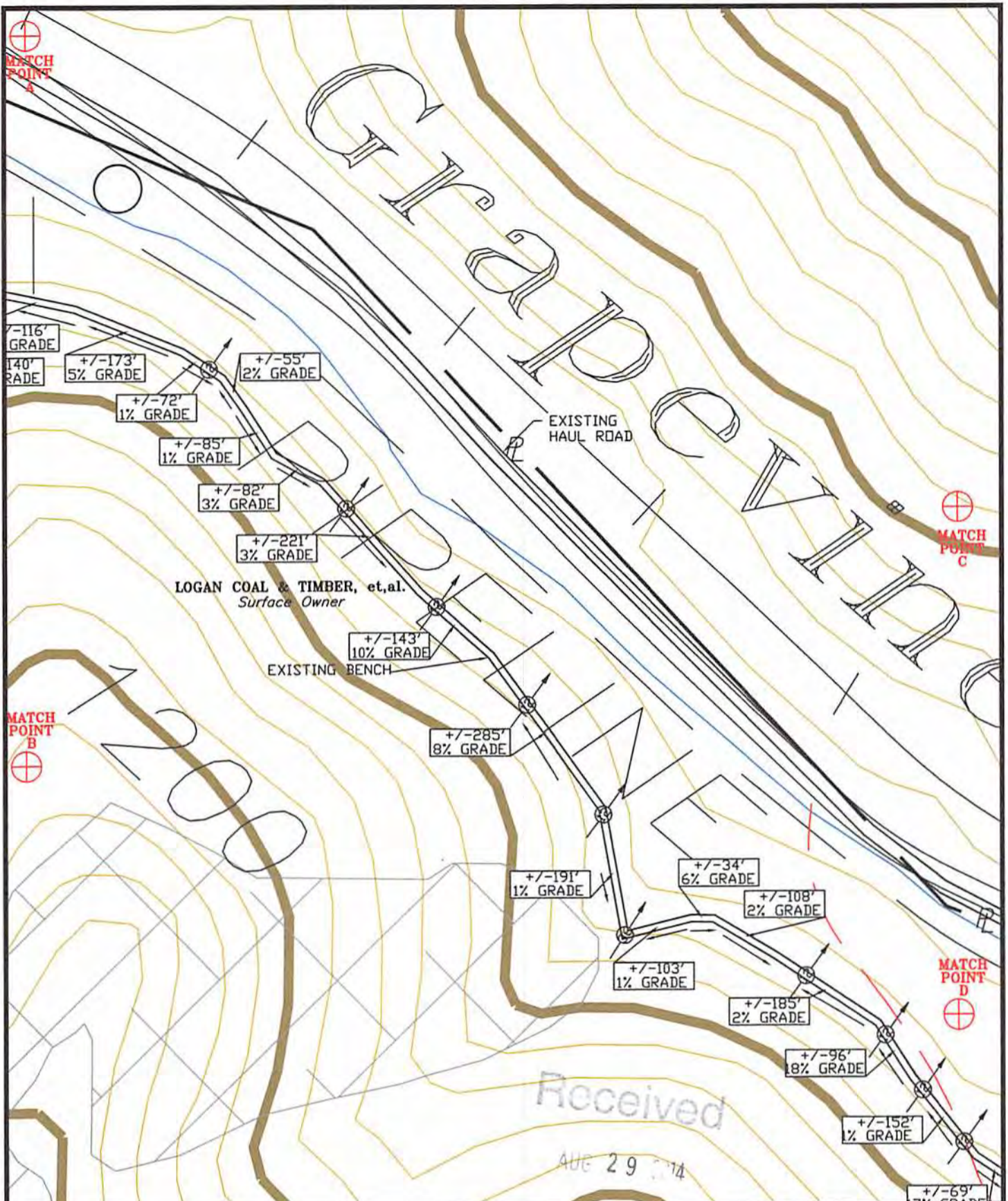
COUNTY: MINGO

LEASE #: 1147

DATE: 02/25/14

SCALE: 1" = 200'

DRAWING FILE: 2355-RECPLAN



Office of Oil and Gas
WV Dept. of Environmental Protection

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

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

QUADRANGLE: MAJESTIC

COUNTY: MINGO

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DRAWING FILE: 2355-RECPLAN

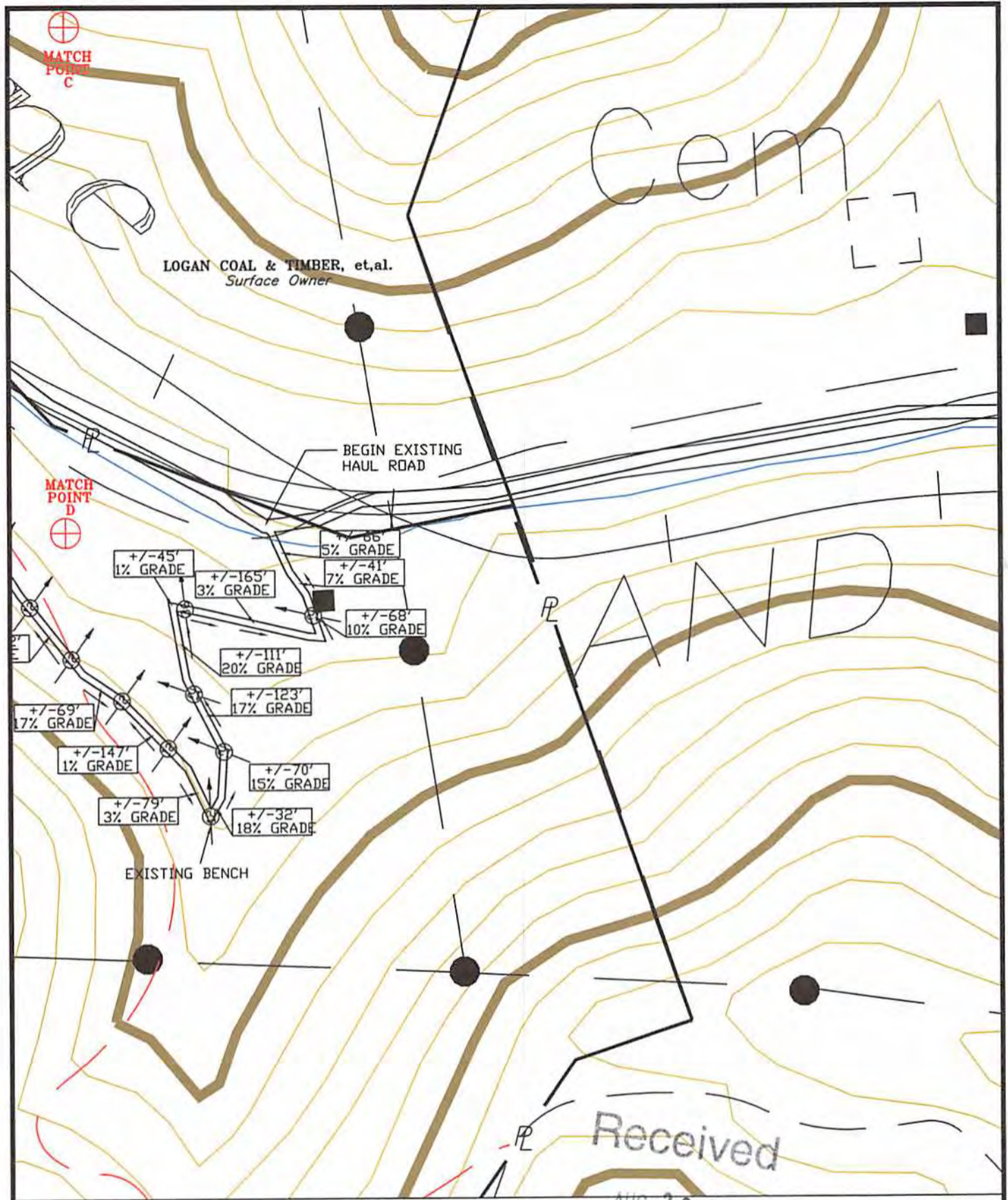
STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
CHARLESTON, WVA 25304

10/03/2014

**WELL SITE RECLAMATION PLAN
GAS WELL No. 2355**

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

PAGE 2 OF 6



Received
AUG 29 2014

<p>EXHIBIT MAP SURFACE PROPERTY LINES ARE APPROXIMATE; NOT TO BE USED FOR TRANSFER PURPOSES</p>	<p>STREAM </p> <p>ROAD </p> <p>EXISTING FENCE </p> <p>PLANNED FENCE </p> <p>OPEN DITCH </p> <p>ROCK </p> <p>BUILDING </p>	<p>WV Dept. of Environmental Protection Office of Oil and Gas</p> <p>WATER WELL </p> <p>PROPOSED WELL </p> <p>FLOW LINE </p> <p>CROSS DRAIN </p> <p>DRAIN PIPE </p> <p>FILTER STRIP </p> <p>DIVERSION DITCH </p>	<p>STORAGE TANK </p> <p>SPRING </p> <p>PIT: FILL WALLS </p> <p>PIT: CUT WALLS </p> <p>STORAGE </p> <p>WASTE AREA </p>
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B & B Engineering, LLC
36 Hatfield Lane
Prestonsburg, KY 41653
Phone: (606) 874-7005

QUADRANGLE: MAJESTIC _____

COUNTY: MINGO _____

LEASE #: 1147 _____

DATE: 02/25/14 _____

SCALE: 1" = 200' _____

DRAWING FILE: 2355-RECPLAN _____

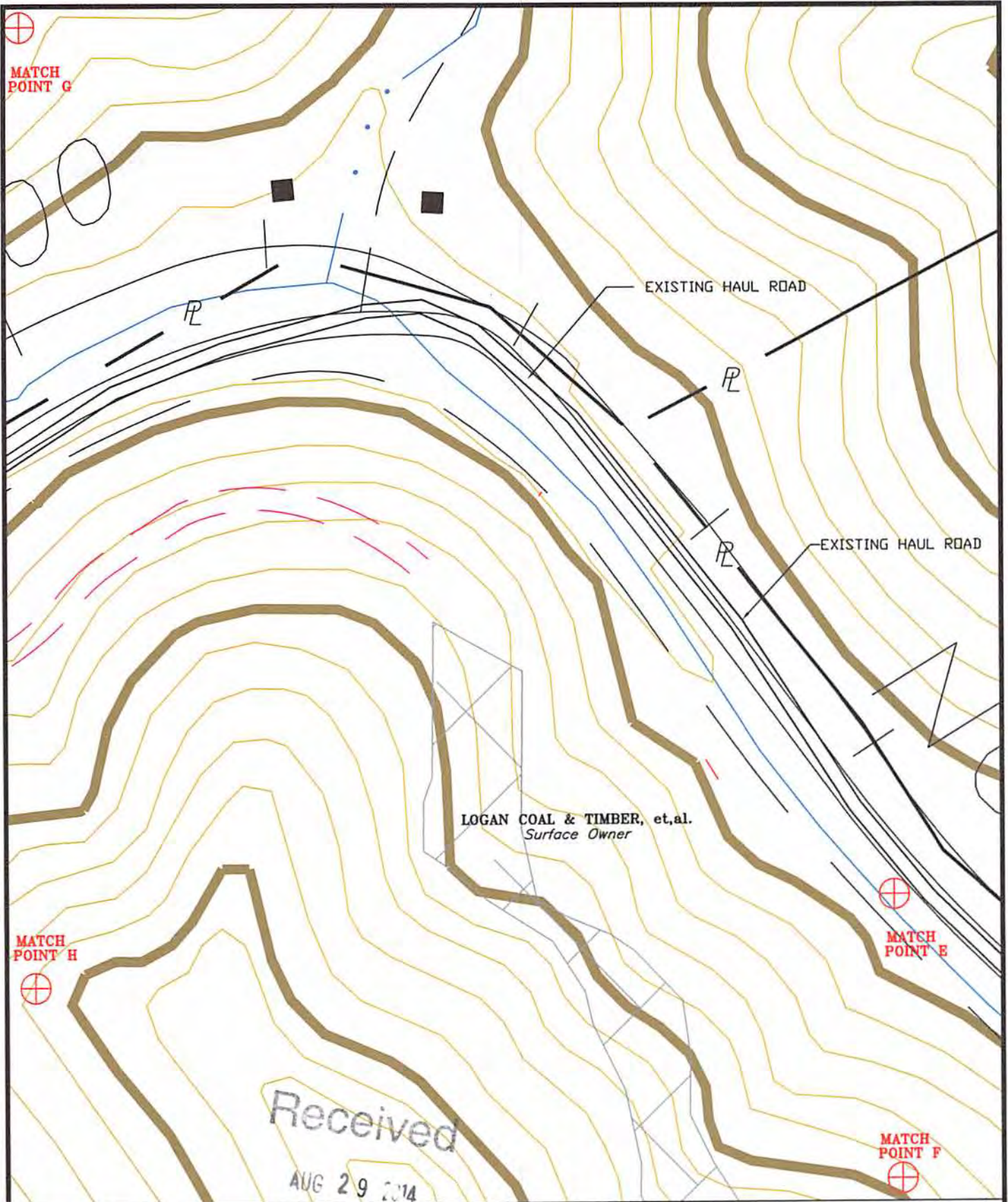
STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
CHARLESTON, WVA 25304

10/03/2014

WELL SITE RECLAMATION PLAN
GAS WELL No. 2355

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

PAGE 3 OF 6



Office of Oil and Gas
WV Dept. of Environmental Protection

	EXHIBIT MAP SURFACE PROPERTY LINES ARE APPROXIMATE; NOT TO BE USED FOR TRANSFER PURPOSES	STREAM ROAD EXISTING FENCE PLANNED FENCE OPEN DITCH ROCK BUILDING	WATER WELL PROPOSED WELL FLOW LINE CROSS DRAIN DRAIN PIPE FILTER STRIP DIVERSION DITCH	STORAGE TANK SPRING PIT: FILL WALLS PIT: CUT WALLS STORAGE WASTE AREA
	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 & GAS CHARLESTON, WVA 25304		

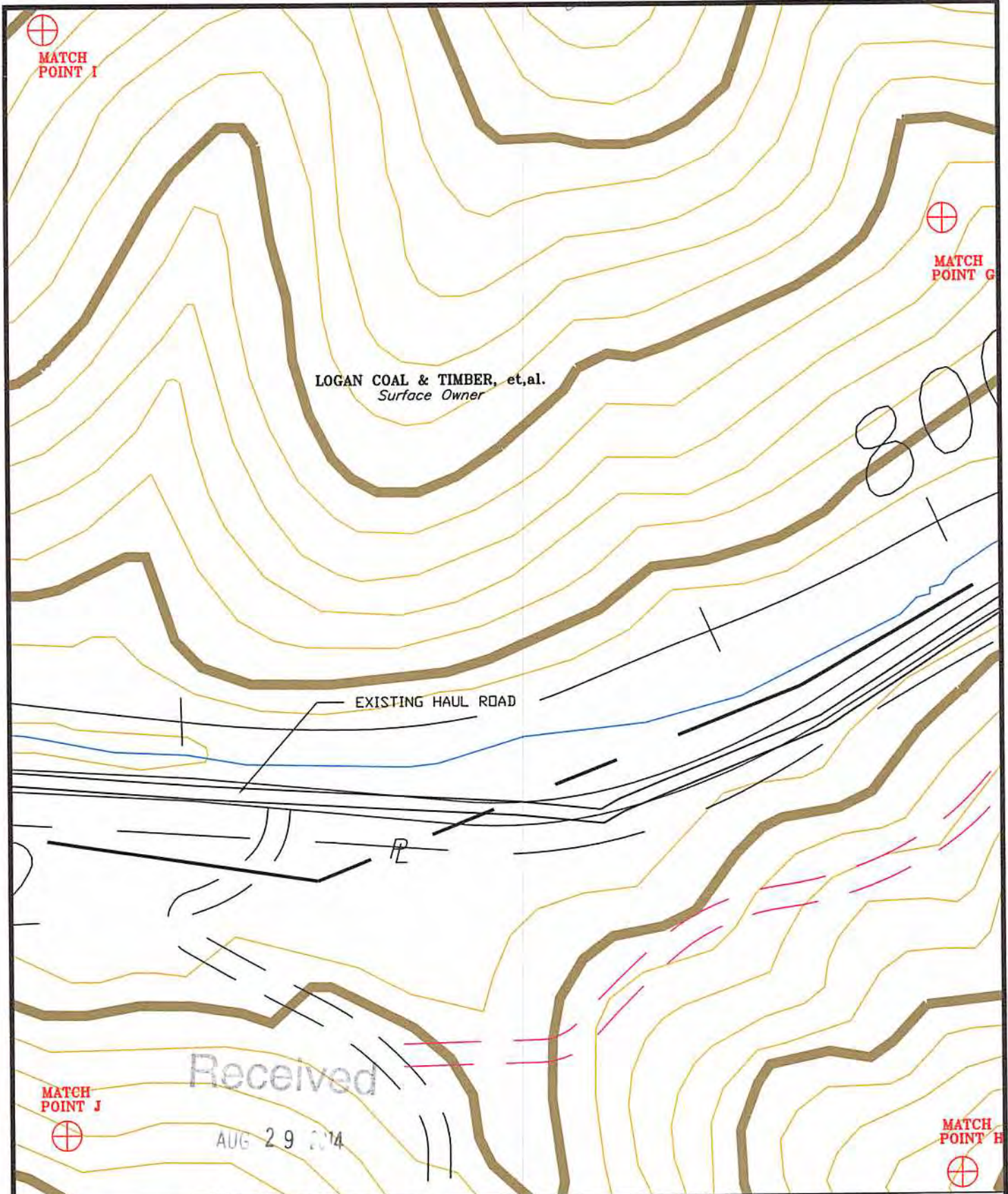
10/03/2014

**WELL SITE RECLAMATION PLAN
GAS WELL No. 2355**

QUALITY NATURAL GAS, LLC.

P.O. Box 480
Allen, Kentucky 41601

QUADRANGLE: MAJESTIC
 COUNTY: MINGO
 LEASE #: 1147
 DATE: 02/25/14
 SCALE: 1" = 200'
 DRAWING FILE: 2355-RECPLAN



Office of Oil and Gas
WV Dept. of 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 WASTE AREA	
ROCK		FILTER STRIP			
BUILDING		DIVERSION DITCH			

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 & GAS
CHARLESTON, WVA 25304

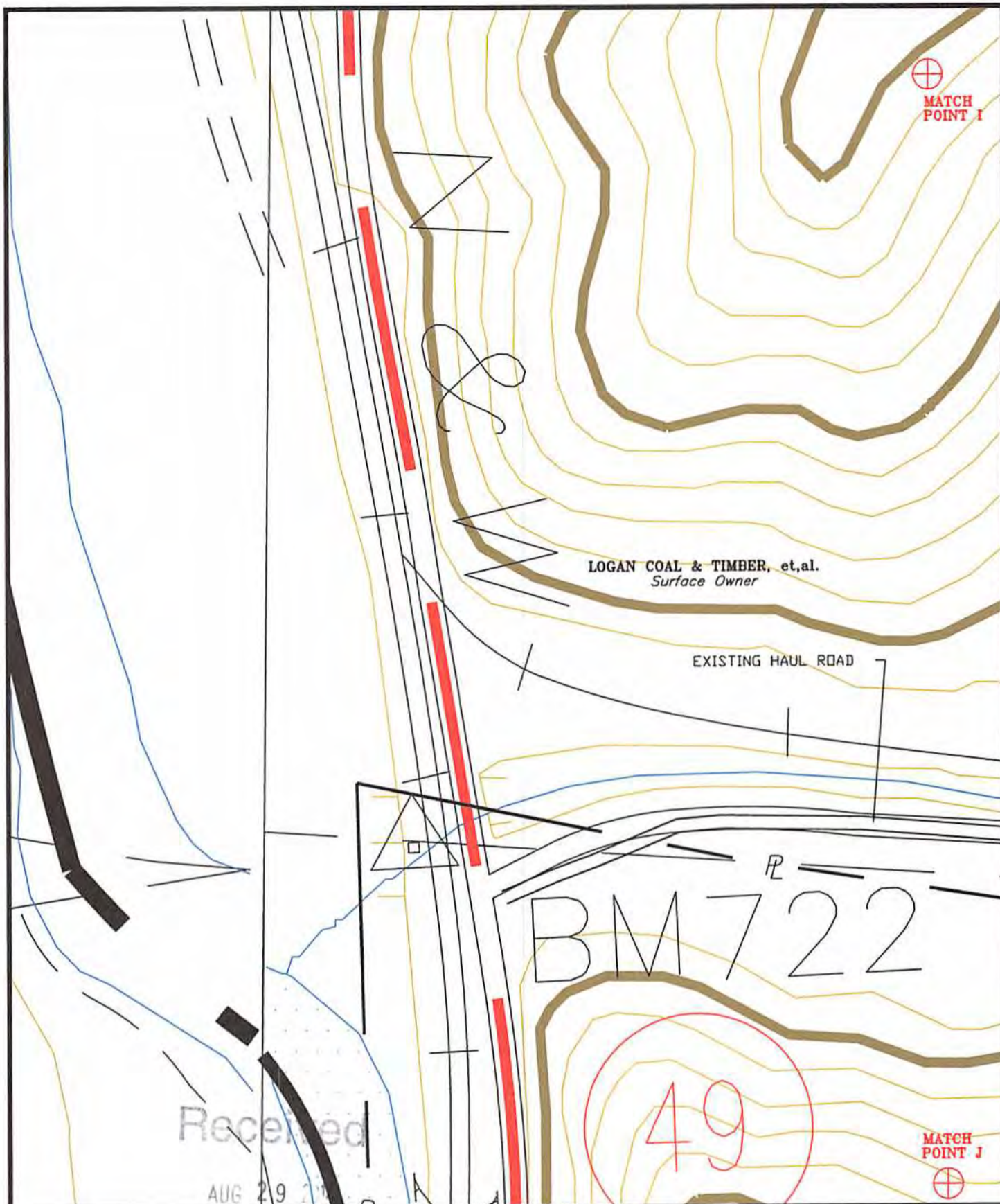
10/03/2014

**WELL SITE RECLAMATION PLAN
GAS WELL No. 2355**

QUALITY NATURAL GAS, LLC.

P.O. Box 480
Allen, Kentucky 41601

QUADRANGLE: MAJESTIC
COUNTY: MINGO
LEASE #: 1147
DATE: 02/25/14
SCALE: 1" = 200'
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Office of Oil and Gas
WV Dept. of 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	
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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 & GAS
CHARLESTON, WVA 25304

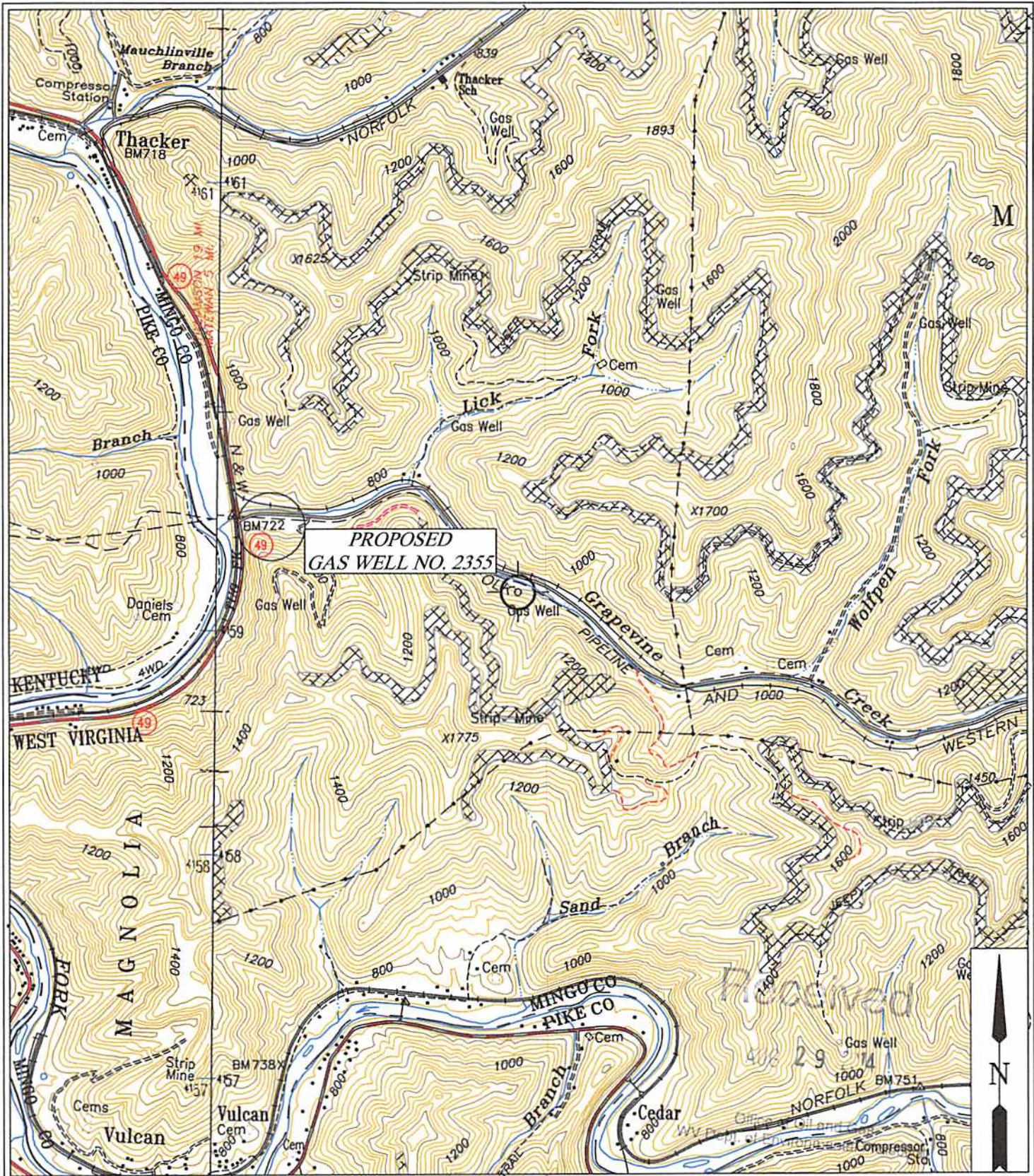
10/03/2014

**WELL SITE RECLAMATION PLAN
GAS WELL No. 2355**

QUALITY NATURAL GAS, LLC.

P.O. Box 480
Allen, Kentucky 41601

QUADRANGLE: MAJESTIC
COUNTY: MINGO
LEASE #: 1147
DATE: 02/25/14
SCALE: 1" = 200'
DRAWING FILE: 2355-RECPLAN



**PROPOSED
GAS WELL NO. 2355**

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

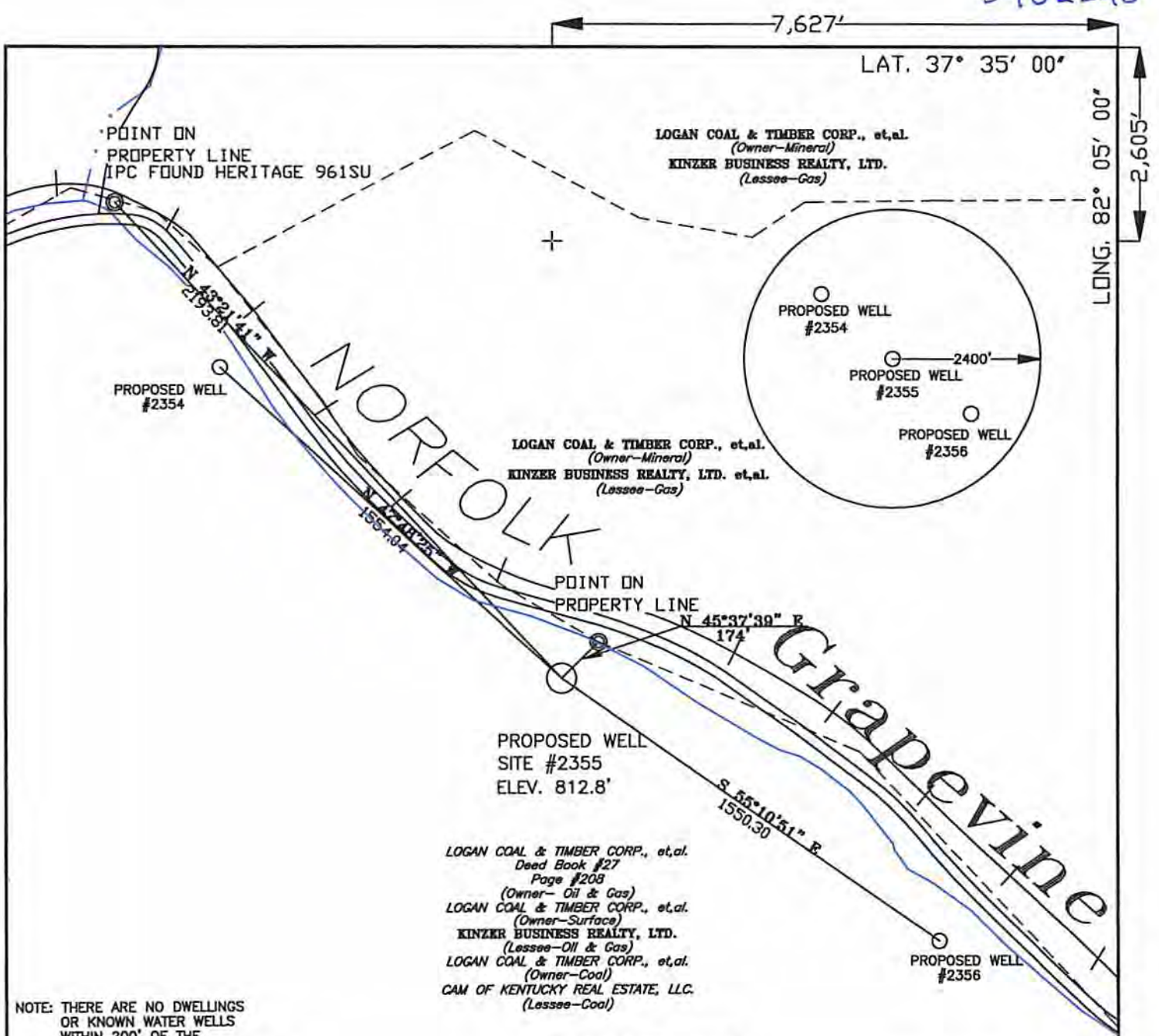
**QUALITY NATURAL GAS, LLC.
 LOCATION MAP**

PROPOSED GAS WELL NO. 2355

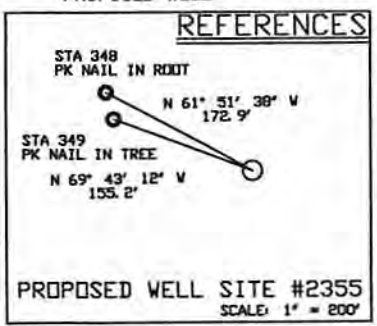
QUAD: MAJESTIC
 SCALE: 1" = 2000'
 DATE: 02/25/2014
 FILE NAME: 2355-VicMap.DWG

10/03/2014

5902248



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



State Plane
WV South Nad 27
N = 211,728.895
E = 1,678,413.526

Geographic Nad 27
LAT = 37° 34' 34.26"
LONG = 82° 06' 34.74"

State Plane
UTM NAD 83
Zone 17 (Meter)
N = 4,159,383.60
E = 402,029.32

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. 2365.DWG
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 2,500
 PROVEN SOURCE OF ELEVATION USGS BM J47 (TOPO BM 722) 721.7'

WILLIAM J. BAUSONS 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

DATE: 02/26/14
 OPERATOR'S WELL NO. 2355
 API WELL NO. 47 -- 59 -- 02248
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 812.8' WATER SHED GRAPEVINE
 DISTRICT MAGNOLIA CREEK OF THE COUNTY MINGO
 QUADRANGLE MAJESTIC TUG FORK RIVER

SURFACE OWNER LOGAN COAL & TIMBER CORP., et.al. ACREAGE ± 401
 OIL & GAS ROYALTY OWNER LOGAN COAL & TIMBER CORP., et.al. LEASE ACREAGE ± 401
 LEASE No. 10/03/2014

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 B.LIME, WEIR, BEREA, B.SHALE ESTIMATED DEPTH 4275'
 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 WHARNCLIFF, WV 25851

**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 +/- 401
Watershed Tug Fork River
District Magnolia
County Mingo
Public road access State Route 49
Generally used farm name Logan Coal & Timber Corporation, et.al.

(2) The undersigned realize (s) that a production or gathering pipeline is to be 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: Logan Coal & Timber Corporation

By: *Richard E. Thompson* Date: 2014-07-18
Signature

Its: President

Received

AUG 29 2014

Logan Coal & Timber Corporation

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

April 24, 2014

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

Quality Natural Gas, LLC
Gas Well Application
Well Number 2355 WV State Plane Coordinates N 211,729
E 1,678,414

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.

By: Redman E. Thompson

its: President

Date: 2014-07-15

Received

AUG 29 2014

C.W. Campbell Company

848 Fourth Avenue, Suite 301
Huntington, West Virginia 25701

April 24, 2014

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

Quality Natural Gas, LLC
Gas Well Application
Well Number 2355 WV State Plane Coordinates N 211,729
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By: Ang D. Balden

its: President

Date: 7/7/14

Received

AUG 29 2014

OFFICE OF OIL & GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
601 57th STREET
CHARLESTON, WV 25304

10/03/2014

Dingess-Rum Properties, Inc.

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

April 24, 2014

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

Quality Natural Gas, LLC
Gas Well Application
Well Number 2355 WV State Plane Coordinates N 211,729
E 1,678,414

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By: Tony Evans
Title: President
Date: 7/2/14

Received

AUG 29 2014

CAM of Kentucky Real Estate, LLC.

P.O. Box 1169 Pikeville, KY 41502

April 24, 2014

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

Quality Natural Gas, LLC

Gas Well Application

Well Number 2355 WV State Plane Coordinates N 211,729

E 1,678,414

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.

By: Ronald G. HullIts: GM-ENGDate: 8/19/14

Received

APR 29 14

Office of Oil and Gas
WV Department of Environmental Protection

10/03/2014

CAM Mining, LLC.
P.O. Box 1169 Pikeville, KY 41502

April 24, 2014

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

Quality Natural Gas, LLC
Gas Well Application
Well Number 2355 WV State Plane Coordinates N 211,729
E 1,678,414

Dear Mr. Martin:

The undersigned operator of the coal that underlies this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided; the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

By: Ronald B. Hull

its: GM-ENG

Date: 8/19/14

Received

APR 29 2014

Office of Oil and Gas
West Virginia Department of Environmental Protection

10/03/2014