



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: 47-5901875, 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: 1734

Farm Name: JUSTICE, PAUL & DEBORAH

API Well Number: 47-5901875

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.

RECEIVED
Office of Oil and Gas

SEP 17 2015

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

WV Department of
Environmental Protection

API 47-059-1875 County MINGO District MAGNOLIA
Quad MATEWAN Pad Name _____ Field/Pool Name _____
Farm name JUSTICE, PAUL & DEBORAH Well Number 1734
Operator (as registered with the OOG) QUALITY NATURAL GAS, LLC
Address P.O. BOX 480 City ALLEN State KY Zip 41601

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing _____ Easting _____
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 972.7 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
N/A

Date permit issued 10/24/2007 Date drilling commenced 9/17/2009 Date drilling ceased 9/27/2009
Date completion activities began 6/26/2015 Date completion activities ceased 7/01/2015
Verbal plugging (Y/N) N/A Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft N Open mine(s) (Y/N) depths N
Salt water depth(s) ft 610' Void(s) encountered (Y/N) depths N
Coal depth(s) ft N Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
JK 08/21/2015

SEP 17 2015
Page 2 of 4

WR-35
Rev. 8/23/13

API 47-059 - 1875 Farm name JUSTICE, PAUL & DEBORAH Well number 1734
WV Department of Environmental Protection

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	17 1/2"	13 3/8"	119'	New	LS		
Surface	12 1/4"	9 5/8"	386'	New	LS	322', 64'	YES, 2BBL
Coal							
Intermediate 1	8 7/8"	7"	2206'	New	LS	NONE	YES 4 1/2 BBL
Intermediate 2							
Intermediate 3							
Production	6 3/8"	4 1/2"	4811'	New	L-65	NONE	500' UP IN 7"
Tubing							
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A						
Surface	Class A	200	15.5	1.18	236	Surface	8
Coal							
Intermediate 1	Class A	100, 200	15.6, 12.3	1.18, 1.84	118, 368	Surface	8
Intermediate 2							
Intermediate 3							
Production	Class A	165	13.6	1.90	313.5	500' up in 7"	8
Tubing							

Drillers TD (ft) 4840' Loggers TD (ft) 4848'
Deepest formation penetrated HARRELL SHALE Plug back to (ft) _____
Plug back procedure _____

Kick off depth (ft) _____

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No
For drilling purposes only.

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING 4 1/2" ONLY - 4641.4, 4471.8
4302.2, 4132.80, 3963, 3793.4, 3623.80, 3454.2, 3284.8 and 3115

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

5901875W

RECEIVED
Office of Oil and Gas

SEP 17 2015

WELL #1734

API#47-5901875

WV Department of

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC)
					Environmental Protection
SURFACE	0	126			
SLATE	126	207			
SAND/SLATE	207	271			
SLATE	271	329			
SAND	329	610			
SAND/SLATE	610	620			
SAND	620	777			
SAND/SLATE	777	823			
SALT SAND	823	1060			
BROKEN SAND	1060	1248			
SALT SAND	1248	1500			
BROKEN SAND	1500	1580			
SAND/SLATE	1580	1612			
RED ROCK/SAND/SLATE	1612	1660			
SAND/SLATE	1660	1700			
RED ROCK	1700	1742			
SAND/SLATE	1742	1764			
RED ROCK/SLATE	1764	1795			
RED ROCK	1795	1829			
RED ROCK/SLATE	1829	1853			
SLATE	1853	1909			
SAND/SLATE	1909	1937			
SAND	1937	2006			
SAND/SLATE	2006	2040			
SAND	2040	2064			
SAND/SLATE	2064	2154			
SLATE	2154	2170			
SAND	2170	2186			
SAND/LIME	2186	2200			
DARK LIME	2200	2270			
BIG LIME	2270	2490			

08/21/2015

CK# 11891
3,300.00

5901875W

1) Date: August 6, 2015
2) Operator's Well Number 1734
3) API Well No.: 47 - 059 - 01875
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 Paul Justice WAIVER
Address Rt. 2 Box 104
Delbarton, WV 25670
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Mr. Jeremy James
Address P.O. Box 147
Ona, WV 25508
Telephone (304) 951-2596

5) (a) Coal Operator
Name N/A
Address _____
(b) Coal Owner(s) with Declaration
Name See Attached Sheet
Address _____
Name _____
Address _____
(c) Coal Lessee with Declaration
Name _____
Address _____

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

OR Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas
X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:
 Personal Service (Affidavit attached)
 X Certified Mail (Postmarked postal receipt attached)
 Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Well Operator Quality Natural Gas, LLC / By: Quality Natural Gas Management, LLC / Its: Manager
By: _____
Its: Manager Jerry F. Linn
Address P.O. Box 480
Allen, KY 41601
Telephone (606) 874-8041

Subscribed and sworn before me this 25 day of August, 2015
Duane Lester
My Commission Expires 7-27-2017

Notary Public

Received
Office of Oil & Gas
SEP 10 2015

5901875W

5 (b)

Paul Justice
Rt. 2 Box 104
Delbarton, WV 25670

Received
Office of Oil & Gas
SEP 10 2015

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Mingo Operator Quality Natural Gas, LLC
Operator well number 1734

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 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

Paul Justice
Signature
Paul Justice

Date 8-31-15
Company Name
By
Its

FOR EXECUTION BY A CORPORATION, ETC.

Office of Oil & Gas
SEP 10 2015

Signature

Date

Received
Office of Oil & Gas

Paul Justice

Rt. 2 Box 104
Delbarton, WV 25670

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 1734 WV State Plane Coordinates N 203,804
E 1,673,394

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: 8-31-15

Paul Justice

By: 

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
Paul Justice	Kinzer Business Realty, LTD	1/8	97/444

SEE ASSIGNMENT

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

By: *Jerry Kinzer*
Its: Manager

Received
Office of Oil & Gas
SEP 10 2015

Kinzer Business Realty, Ltd.

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

December 4, 2015

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

Attn.: Mr. Jeff McLaughlin

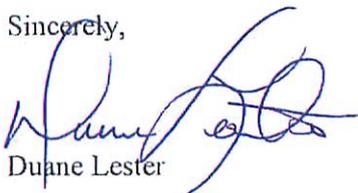
Re: West Virginia Well Applications
Quality Natural Gas, LLC
Mingo County, West Virginia

Dear Jeff:

As per our discussions yesterday regarding the relationship of the current Lessee and 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

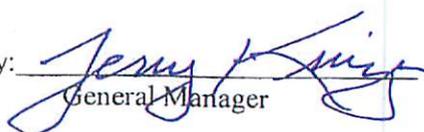
Quality Natural Gas, LLC
By: Quality Natural Gas Management, LLC
Its: Manger

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

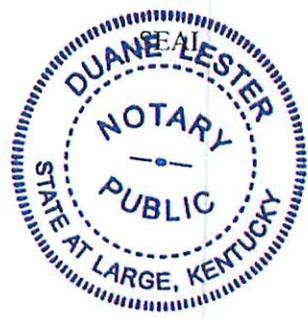
I, Duane Hester, a Notary Public of said County and State aforesaid, do certify that Jerry Kinzer, Manager of **QUALITY NATURAL GAS, LLC**, whose name is signed to the within writing has this day acknowledged the same before me in said county.

My commission expires 7-24-2017

Given under my hand this 21 day of December, 2015

Duane Hester
Notary Public

492274
ID Number



STATE OF KENTUCKY

STATE AT LARGE

I, Duane Hester, 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 Hester
Notary Public

492274
ID Number



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 972' County: Mingo District: Magnolia

Description of anticipated Pit Waste: _____

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

ANY WELL EFFLUENT MUST
BE CONTAINED IN TANKS AND
DISPOSED OF OFF-SITE. gwn

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 _____)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Swabbing
- Workover
- Plugging
- 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.

Company Official Signature Jerry Kinzer

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

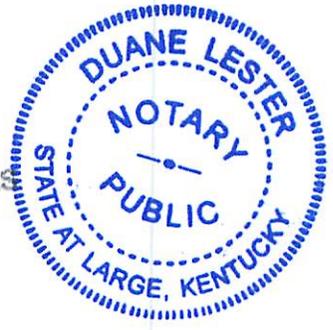
Company Official Title Manager / Quality Natural Gas Management, LLC / Manager of Quality Natural Gas, LLC

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

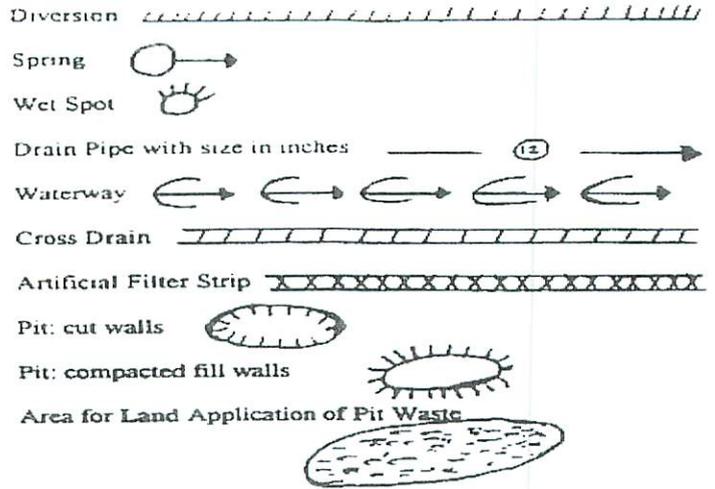
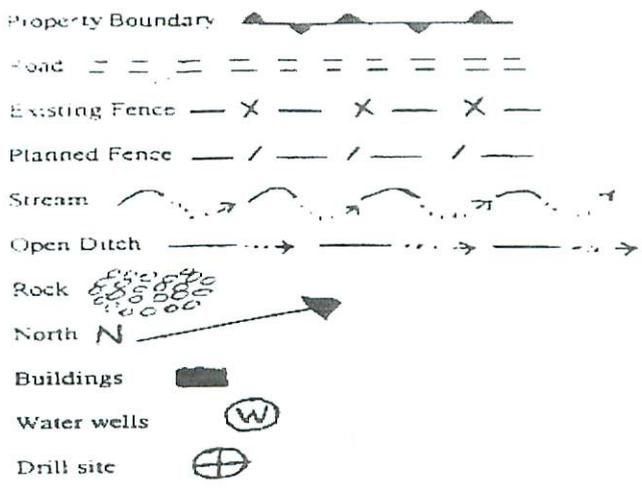
[Signature] Notary Public

My Commission Expires 7-27-2017

Received
Office of Oil & Gas
SEP 10 2015



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: [Signature]
 Comments: _____

Title Inspector Date: 8-21-15

Field Reviewed? Yes No

Received
 Office of Oil & Gas
 SEP. 10 2015

**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 28.00
Watershed Tug Fork
District Magnolia
County Mingo
Public road access Rt. 194
Generally used farm name Paul Justice

(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 - 470590187500; (Well 1734)

(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)

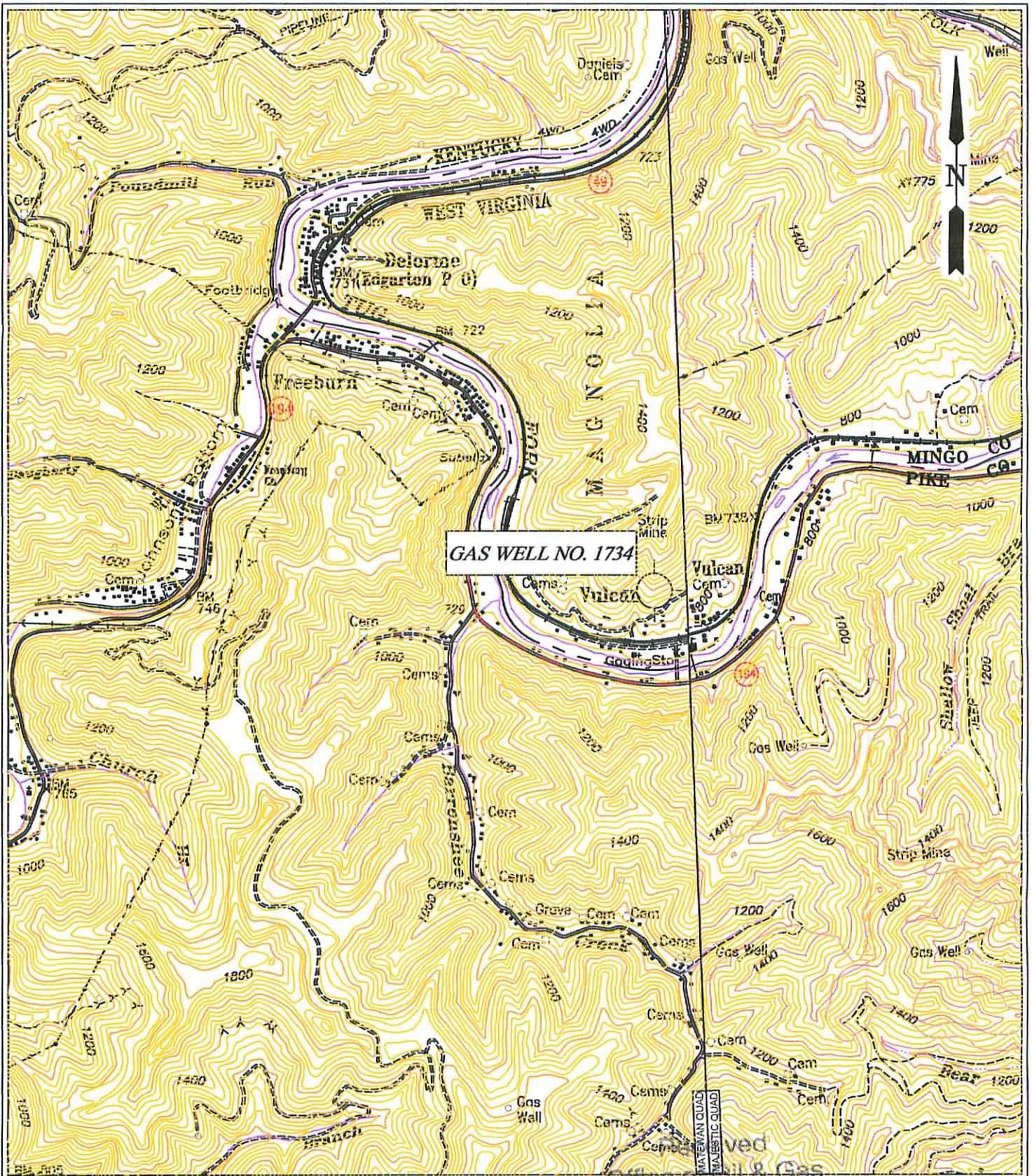
Name: Paul Justice

By: Paul Justice
Signature

Date: 8-31-15

Its: _____
Signature

Date: _____



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. 1734

SEP 10 2015

QUAD: MATEWAN
SCALE: 1" = 2000'
DATE: 08/25/2015
FILE NAME: WVAVIC1734.DWG

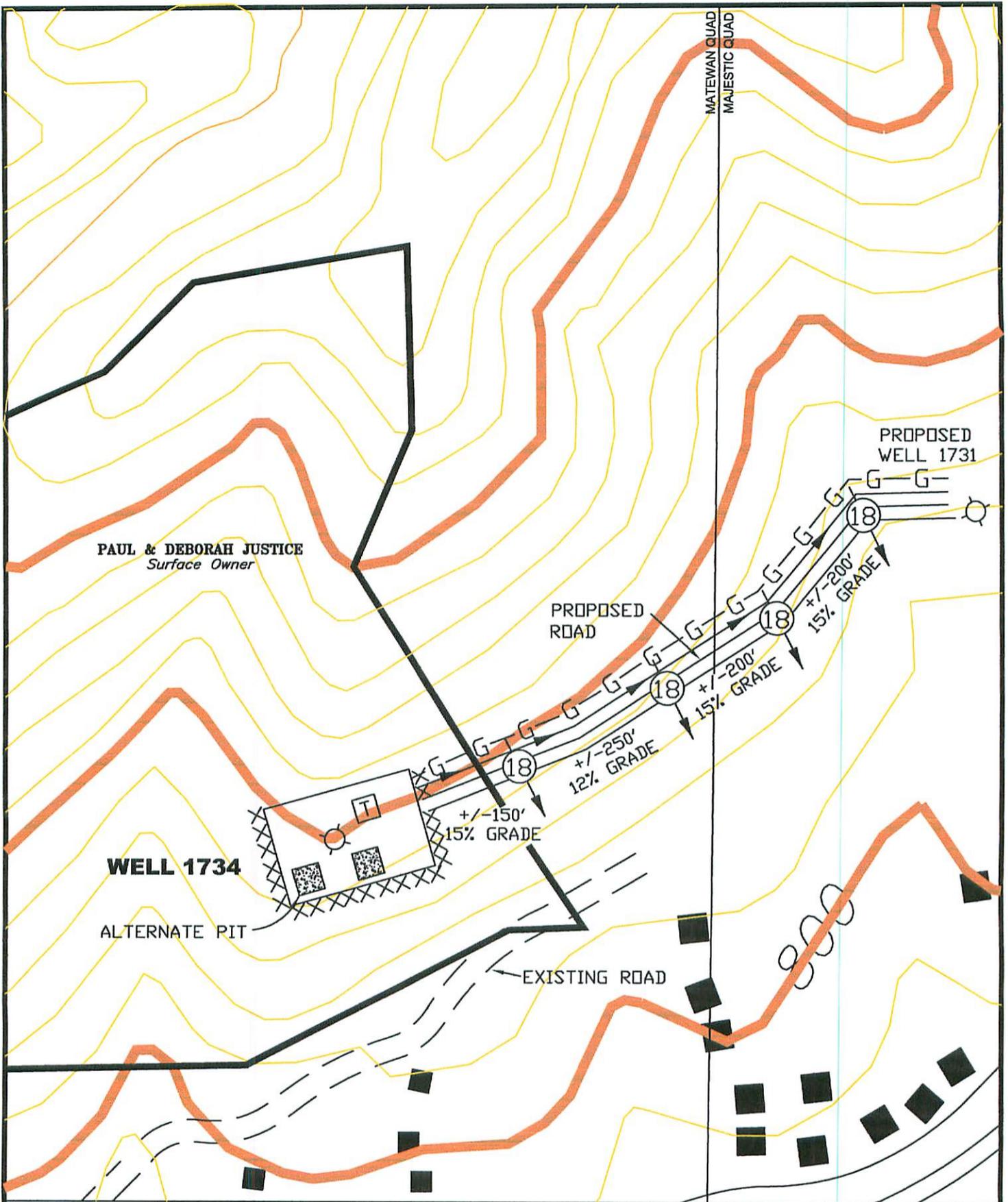


EXHIBIT MAP
 SURFACE PROPERTY LINES ARE
 APPROXIMATE; NOT TO BE USED
 FOR TRANSFER PURPOSES

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			

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

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

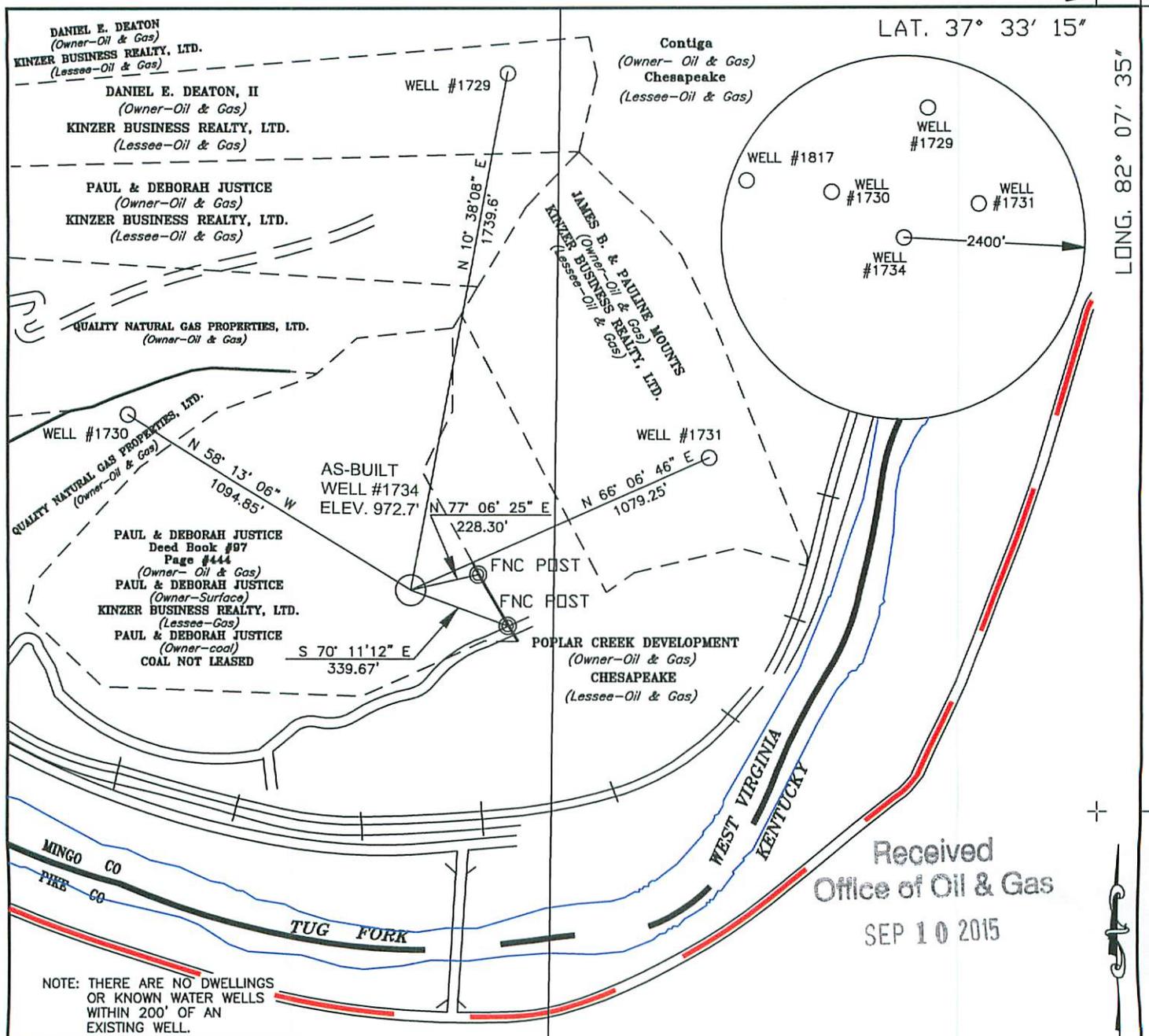
**WELL SITE RECLAMATION PLAN
 GAS WELL No. 1734**

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

QUADRANGLE: MATEWAN
 COUNTY: MINGO
 LEASE #: 726
 DATE: 08/25/2015
 SCALE: 1" = 200'
 DRAWING FILE: WVARECLAN1734.DWG

5901875W

599'



LONG. 82° 07' 35"

10,583'

LAT. 37° 33' 15"

REFERENCES



State Plane
WV South Nad 27
N = 203,804
E = 1,673,394

Geographic Nad 27
LAT = 37° 33' 15"
LONG = 82° 07' 35"

UTM NAD 83
Zone 17 (Meter)
N = 4,156,968
E = 400,500

State Plane
WV South NAD 83
N = 203847
E = 1,641,940

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. WVA1734.DWG

SCALE 1" = 500'

MINIMUM DEGREE OF ACCURACY 1 IN 2,500'

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

WFB

REGISTERED PROFESSIONAL ENGINEER
17834 STATE OF WEST VIRGINIA
WILLIAM B. BABBS, JR.

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. 1734
API WELL NO. 47059018750000

47 -- 59 -- 01875W
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF 'GAS') PRODUCTION X OR STORAGE ___ , DEEP ___ OR SHALLOW X

LOCATION: ELEVATION 972.7' WATER SHED ___
DISTRICT MAGNOLIA COUNTY ___
QUADRANGLE MATEWAN

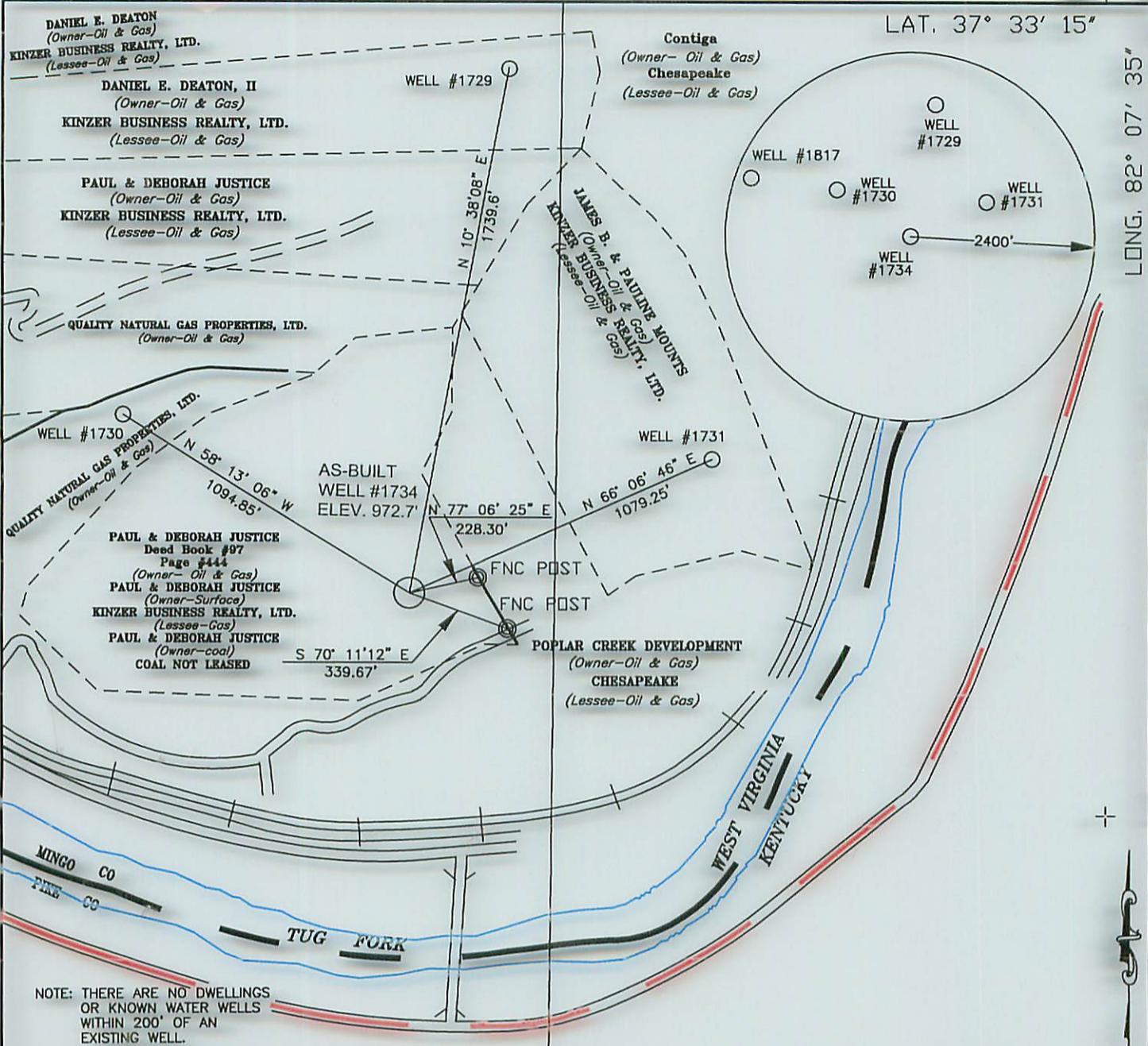
SURFACE OWNER PAUL & DEBORAH JUSTICE ACREAGE +/- 28
OIL & GAS ROYALTY OWNER PAUL & DEBORAH JUSTICE LEASE ACREAGE +/- 28
LEASE No. 726

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

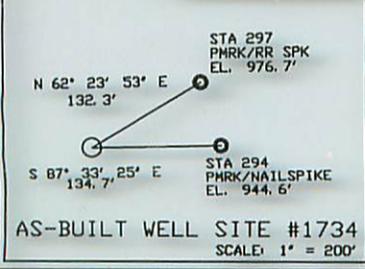
TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 4397'

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



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

REFERENCES



State Plane WV South Nad 27
 N = 203,804
 E = 1,673,394
 Geographic Nad 27
 LAT = 37° 33' 15"
 LONG = 82° 07' 35"

UTM NAD 83
 Zone 17 (Meter)
 N = 4,156,968
 E = 400,500
 State Plane WV South NAD 83
 N = 203847
 E = 1,641,945

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. WVA1734.DWG
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 2,500'
 PROVEN SOURCE OF ELEVATION USGS B. M.
 MONUMENT # 722

Professional Engineer Seal for William J. Barrows, Jr., Registered Professional Engineer, State of West Virginia, No. 17834.

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. 1734
 API WELL NO. 47059018750000
47 -- 59 -- 01875W
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 972.7' WATER SHED _____
 DISTRICT MAGNOLIA COUNTY _____
 QUADRANGLE MATEWAN

SURFACE OWNER PAUL & DEBORAH JUSTICE ACREAGE +/- 28
 OIL & GAS ROYALTY OWNER PAUL & DEBORAH JUSTICE LEASE ACREAGE +/- 28
 LEASE No. 726

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 4397'
 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