IREDELL COUNTY HEALTH DEPARTMENT

Application For Improvement Permit and/or Authorization To Construct, Existing System Inspection

(THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED - APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS)

1. APPLICATION FOR: ___ Improvement Permit ___Authorization To Construct X BOTH ___Existing System Inspection

2. Page 2: *Site Plan Worksheet* Form MUST Accompany This Application
   The following optional attachments may also be submitted: ___ Survey Plat, Scaled no more than 1 Inch = 60 Feet
   Place check ( ) beside whichever is submitted if applicable ___ Custom Site Plan, Scaled no more than 1 Inch = 60 Feet

3. Applicant Information:

Applicant Name	Mailing Address	Home Phone	Work Phone
Paul V Kelly	146 Keenan Dr.	(704) 664-7592	
Owner Name	Mailing Address	Home Phone	Work Phone
Same	Mooresville, NC 28117		(704) 799-2250 cell (704) 574-2838

4. Property Information:

Street Address	Subdivision Name	Section/Phase and Lot Number
a Dave		

Driving Directions: _____

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5. RESIDENTIAL Site Development Information: *(Check or Complete ALL that apply)*

( ) New, Single Family Residence
( ) New, Multi-Family Residence
( ) Expansion of Existing Septic System
(X) Repair To Failing Septic System

Maximum Number of Bedrooms 3
Maximum Number of Occupants ___
If Expansion, Current Number of Bedrooms ___

( ) Crawl Space Foundation?
( ) Concrete Slab Foundation?
(X) Basement w/Plumbing?
( ) Basement w/out Plumbing?

IF Non- Residential Site Development: Type of Business _____
Square Footage of Building _____
Maximum Number of Employees _____
Maximum Number of Seats _____

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6. Proposed Water Supply:

( ) New Well (X) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

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7. Desired Septic System Type: *(You may rank in order of preference, if any)*

( ) Alternative (X) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other_____ ( ) No Preference

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8. Please Answer The Following To The Best of Your Ability:

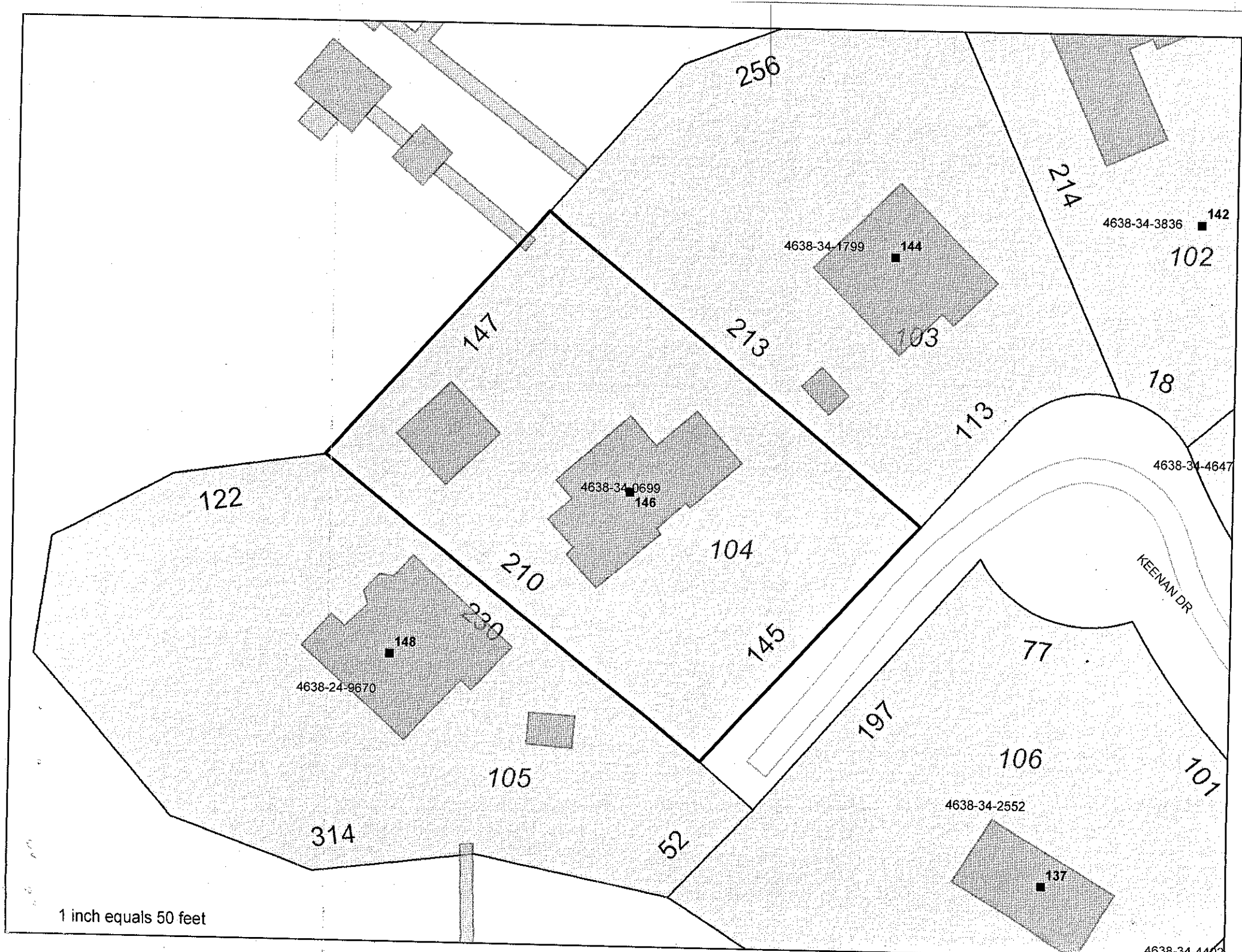
( ) Yes (X) No Does the site contain any jurisdictional wetlands?
( ) Yes (X) No Is any non-domestic sewage (i.e. industry) to be generated?
( ) Yes (X) No Is the site subject to approval by any other public agency?

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I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

9. Signature: Paul V. Kelly
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

10/12/05
DATE


256
214
4638-34-3836
142
102
4638-34-1799
144
103
147
213
18
113
4638-34-4647
122
4638-34-0699
146
104
210
KEENAN DR
230
148
4638-24-9670
145
77
197
106
101
105
4638-34-2552
314
52
137
1 inch equals 50 feet
4638-34-4402

Michael F. Easley, Governor
William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources

Coleen H. Sullins, Director
Division of Water Quality

AQUIFER PROTECTION SECTION
April 4, 2008

Air Drilling Company
176 Commerce Blvd.
Statesville, NC 28625
Attention: Neill Pardue

RE: Variance Request to Rule 15A NCAC 2C .0107(a)(2)(M) and (Q) – Separation distance between a well and a Building Foundation and a Tank for Heating Fuel
Paul Kelly Residence – Private Water Supply Well
146 Keenan Drive, Mooresville, Iredell County
Well Variance Permit #WV0300013

Dear Mr. Pardue:

On April 3, 2008, the Mooresville Regional Office received a written request for a variance to the well construction rules, specifically rules 15A NCAC 2C.0107(a)(2)(M), which specifies a 25-foot separation from a building foundation and (Q), which requires a 50-foot separation from a storage tank containing fuel for heating. The variance request is for the construction of a private residential water supply well at the property of Paul Kelly, 146 Keenan Drive, Mooresville, in Iredell County.

In the request and based on the field visit, the only suitable location for the well is approximately 12 feet from the foundation of the house and approximately 4 feet from the propane tank. Based upon the information that has been submitted, a variance to the above-cited rules is granted. The variance will be effective from the date issued until October 4, 2008. Since the well will not meet the regulatory requirements, the following minimum additional construction requirements will be necessary to mitigate any potential problems that could affect public health and/or the well's effective operation:

1. Galvanized steel casing with drive shoe shall be used, or PVC casing may be used if fitted with appropriate galvanized steel shoe.

2. The casing shall extend into consolidated bedrock in accordance with the following table:

Depth to Consolidated Bedrock	Minimum Depth of Casing
Less than 50 feet	15 feet into bedrock
50 to 100 feet	10 feet into bedrock
More than 100 feet	5 feet into bedrock

3. The entire length of the casing shall be grouted. A drill bit that is at least 4 inches greater than the outside diameter of the casing shall be used to drill the cased portion of the well. Grout shall be installed using a pump and tremmie pipe. The annular space to be grouted shall be free of obstructions; if not, the grout must be placed to the maximum achievable depth of the annular space and a well liner with packer must be installed 10 feet below the casing and fully grouted. The final construction method shall be shown on the GW-1 Well Construction Record.

4. The well shall be located in the area indicated on the attached map.

WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2901

1. WELL CONTRACTOR:

Chad Hartness
Well Contractor (Individual) Name

Air Drilling, Inc.
Well Contractor Company Name

STREET ADDRESS 176 Commerce Blvd.

Statesville NC 28625
City or Town State Zip Code

(704)- 872-7614
Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable)

STATE WELL PERMIT # (if applicable)

COUNTY WELL PERMIT # (if applicable)

DWQ or OTHER PERMIT # (if applicable)

WELL USE (Check applicable use): ☐ Monitoring ☒ Residential

☐ Municipal/Public ☐ Industrial/Commercial ☐ Agricultural

☐ Recovery ☐ Injection ☐ Irrigation

☐ Other (list use)

3. WELL LOCATION:

COUNTY Iredell QUADRANGLE NAME

NEAREST TOWN: Mooresville

146 KeenanDr.

(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☐ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other

(Check appropriate setting)

LATITUDE 35°36.997

LONGITUDE 80°54.448

May be in degrees, minutes, seconds, or in a decimal format

Latitude/longitude source: ☐ GPS ☐ Topographic map

(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID #(if applicable)

NAME OF FACILITY

STREET ADDRESS

City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Paul Kelly

STREET ADDRESS 146 Keenan Dr.

Mooresville, NC 28117

5. WELL DETAILS:

a. Total Depth: 150 ft. Diameter: 6.0 in.

b. Water Level (Below Measuring Point): ft.

Measuring point is ft. above land surface.

6. CASING: Length Diameter

a. Casing Depth (if known): 105' ft. -- in.

b. Casing Removed: -- ft. -- in.

7. DISINFECTION: HTH

(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement

Cement ___ lb.
Water -- gal.

Sand Cement

Cement -- lb.
Water -- gal.

Bentonite

Bentonite lb.

Type: ☐ Slurry ☐ Pellets

Water gal.

Other

Type material Concrete

Amount 2700 LBS

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Mixed & Poured

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

11. DATE WELL ABANDONED 4/15/08

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Chad Hartness 4-15-08

SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE

(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

CHAD HARTNESS

PRINTED NAME OF PERSON ABANDONING THE WELL

Submit a copy to the owner and the original to the Division of Water Quality within 30 days.
Attn: Information Management, 1617 Mail Service Center – Raleigh, NC 27699-1617, Phone No. (919) 733-7015 ext 568.

Form GW-30
Rev. 5/06