**North Carolina Department of Environment and Natural Resources**
**Division of Water Quality - Aquifer Protection Section**

## APPLICATION FOR A PERMIT TO CONSTRUCT A WELL REQUIRING A VARIANCE TO THE TITLE 15 A NCAC 2C .0100 WELL CONSTRUCTION STANDARDS

1. Name of well/property owner: PILOT DEVELOPERS, LLC
   Mailing Address: 132 JOE KNOX DR.
   MOORESVILLE, NC 28117
   Telephone Number(s): 7042824965

2. Location of proposed well: 73K BRAWLEY SCHOOL ROAD
   (road, community, subdivision, lot number, etc.)
   Address:
   MOORESVILLE, NC 28117
   County: IREDELL Parcel ID Number: 4647013588 & 4647013786

3. Purpose (circle one): private drinking water supply / irrigation / public supply / other

4. Name of Certified Well Contractor & Company: BTK WELL DRILLING.
   Certificate No.: 3670 Telephone Number(s): 704 592 4696
   Address: 132 MT. MOURNE LP.
   MOORESVILLE, NC 28117

5. Reason for Variance Request (cite setback or section of 2C that will be varied from): TIGHT SITE POWER LINES, STORM DRAIN, SEPTIC TANK LOCATION

Provide the following information as attachments to this application:

1. A map showing general location of the property (include road names, NC State Route number, distances, any key landmarks) sufficient for finding the well location.

2. Detailed site map with scale showing location of proposed well relevant to septic system(s), building foundations, property lines, water bodies, potential sources of contamination, other wells, etc.

3. For sites in counties with a well permitting and inspection program, submit a copy of the local well permit application and site evaluation map.

4. Any other information relevant to the variance request (i.e. a well construction diagram showing proposed well liner or atypical construction materials/methods or Public Water Supply Section well site approval letter).

8-25-08 8/26/08

Signature of Well/Property Owner Date County Health Dept Representative Date
(if county has well program)

*By 15A NCAC 2C .0118, the Division of Water Quality may require submittal of information deemed necessary to make a decision on the variance, may impose conditions as part of the decision, and shall respond to the request within 30 days of receipt. If the applicant is dissatisfied with the variance decision, it may be contested by filing a petition under G.S. 150B-23 within 60 days after receipt of the decision.*

**Approval of a variance will require that additional construction requirements beyond those specified in 15A NCAC 2C .0107 be met. Minimum additional construction requirements for Coastal Plain and Piedmont and Mountain region wells are referenced on Attachment A and B. Approval of a variance will not be considered in cases where the specified minimum additional construction requirements can not be met.**

## PIEDMONT AND MOUNTAINS

**Minimum Additional Construction Requirements for Wells Requiring a Variance or a Permit to the Separation Distances in 15A NCAC 2C .0107(a)(2) and .0107(a)(3) - Applicable to areas that are Underlain by Crystalline Bedrock**

| POTENTIAL POLLUTION SOURCE | MINIMUM SEPARATION DISTANCE (ft) | | | MINIMUM ADDITIONAL REQUIREMENTS | | |
|---|---|---|---|---|---|---|
| | Standard | Single Family | Variance | Casing Type | Casing Depth | Grout Depth |
| septic tank and drainfield | 100 | 50 | 50 | GALVANIZED STEEL | If Bedrock depth is <50 feet: the greater of 15 feet into bedrock or 40 feet below land surface<br>If bedrock depth is 50-100 feet: 10 feet into bedrock<br>If bedrock depth is >100 feet: 5 feet into bedrock | full length of casing[1] |
| other subsurface ground absorption waste disposal system | 100 | 100 | | | | |
| other sewage and liquid-waste collection or transfer facility | 100 | 100 | | | | |
| cesspools and privies | 100 | 50 | | | | |
| animal feedlots or manure piles | 100 | 100 | | | | |
| Surface water(GW recharge)...ponds, lake | 50 | 50 | SITE SPECIFIC | | | |
| other surface water bodies...creeks, river | 25 | 25 | | | | |
| water tight sewage or liquid-waste collection or transfer facility | 50 | 25 | SITE SPECIFIC | PVC or GALVANIZED STEEL | The greater of 40 feet below land surface or 5 feet into bedrock | full length of casing[1] |
| animal barns | 100 | 50 | | | | |
| building foundations(excluding well house) | 25 | 25 | | | | |
| fertilizer, pesticide, herbicide or other chemical storage areas | 100 | 100 | SITE/SOURCE SPECIFIC | SITE/SOURCE SPECIFIC | | |
| other non-hazardous solid waste landfill | 100 | 100 | | | | |
| non-hazardous waste storage, treatment or disposal lagoons | 100 | 100 | | | | |
| industrial/municipal sludge-spreading or wastewater-irrigation site | 100 | 100 | | | | |
| aboveground or underground heating oil storage tanks | 50 | 50 | | | | |
| all other potential sources of groundwater contamination | 50 | 50 | | | | |
| sanitary landfills | 500 | 500 | DO NOT ISSUE | | | |
| chemical or petroleum fuel underground storage tanks regulated under 15A NCAC 2N with secondary containment | 50 | 50 | | | | |
| chemical or petroleum fuel underground storage tanks regulated under 15A NCAC 2N w/o secondary containment | 100 | 100 | | | | |

[1]A drill bit with a diameter that is at least 1/3 greater than the diameter of the casing must be used to drill the cased portion of the well. Grout should be installed under pressure. Installation using a tremmie pipe is acceptable if the space to be grouted is free of obstructio

**Attachment B (Form GW-22V)**

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PROVIDED
IANCE WITH THE
AND TOWN OF

LL APPLICABLE
LE REGULATIONS.

AGE TREATMENT
REDELL COUNTY.

DRYE DRIVE

EXISTING GRAVEL DRIVE
N26°49'23"E
199.02'

50' R. BUFFER — EXISTING WELL

DUKE POWER R/W

S38°09'02"E
195.38'

75.0'

75.0'

NITROFICATION FIELD

PUMP MANIFOLD

148 L.F. 18" HDPE

68 L.F. 24" HDPE

55 L.F. 24" HDPE

156 L.F. 18" HDPE

32 SPACES

25.0'

DUMPSTER PAD

15 SP & 3 H/C

VAN

9.0'

8'

19'

19.0'

240.00'

SEE ACCESS RAMP DETAIL

28.28'

MAIL DEPOSIT DRIVE-THRU

CLEANOUT

N01°54'47"W, 146.32'
A=152.61', R=152.50'

PROPOSED RETAIL BUILDING
15,400 SQ.FT.

60.00'

40.00'

NOTE:
SEE PLUMBING PLAN SEWER AND WATER DETAILS AND NOTES FOR INSTALLATION AND MATERIAL REQUIREMENTS.

260.00'

BACKFLOW PREVENTER BY UTILITY CONTRACTOR

1.25" WATER LINE

1.5" WATER LINE

4" PVC 0.4% MIN. SLOPE

SEPTIC TANK

MOVE TO NEW LOCATION

POWER

SEPTIC

NEW SEPTIC TANK LOCATION

L2

L1

1" WATERMETER BY CITY OF MOORESVILLE

1" WATER LINE

S61°44'58"W, 415.38'
A=415.50', R=5060.00

EXISTING WATERLINE

6 SPACES

7 SPACES

S38°57'24"E
149.20'

FUTURE ISLAND ADDITION