Perk to Purchase

10-17-12
PP #50000 @ Stool New Septic MS

# IREDELL COUNTY HEALTH DEPARTMENT
## *ENVIRONMENTAL HEALTH DIVISION*

**Application for IMPROVEMENT PERMIT , AUTHORIZATION TO CONSTRUCT, or 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 # | Alternate Phone # |
|---|---|---|---|
| Grainda Builders, Inc. | PO Box 1221 Cornelius, NC 28031 | 704-892-7640 | 980-721-1617 |
| **Owner Name** | **Mailing Address** | **Home Phone #** | **Alternate Phone #** |
| Paul & Margaret Campbell | | | |

4. **Property Information:**

| Street Address | Subdivision Name | Section/Phase and Lot Number |
|---|---|---|
| 136 Claiborne Drive Mooresville 28117 | | 4614962707 |

Driving Directions: Exit 36 off 77, North onto 150W/ W Plaza Drive, Left onto Williamson Rd, Right onto Brawley School Rd, Right onto Tuskarora Trail, Right on Balmoral Dr, Left onto Claiborne Dr.

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

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

Maximum Number of Bedrooms 3 PER PHONE CONV. MIKE
Maximum Number of Occupants ___
If Expansion, Current Number of Bedrooms ___

( ) Crawl Space Foundation?
( ) Concrete Slab Foundation?
( ) 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 ___

6. **Proposed Water Supply:**

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

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

( ) Alternative (1) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other ___ (2) No Preference

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?

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:** _____ 10/12/12
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

# IREDELL COUNTY HEATLH DEPARTMENT
## *ENVIRONMENTAL HEALTH DIVISION*
## PAGE 2: *SITE PLAN WORKSHEET*

**SEE THE "SAMPLE SITE PLAN" BELOW. *INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM PERMIT!!!***

**Place an (X) beside each item as you complete the site plan:**

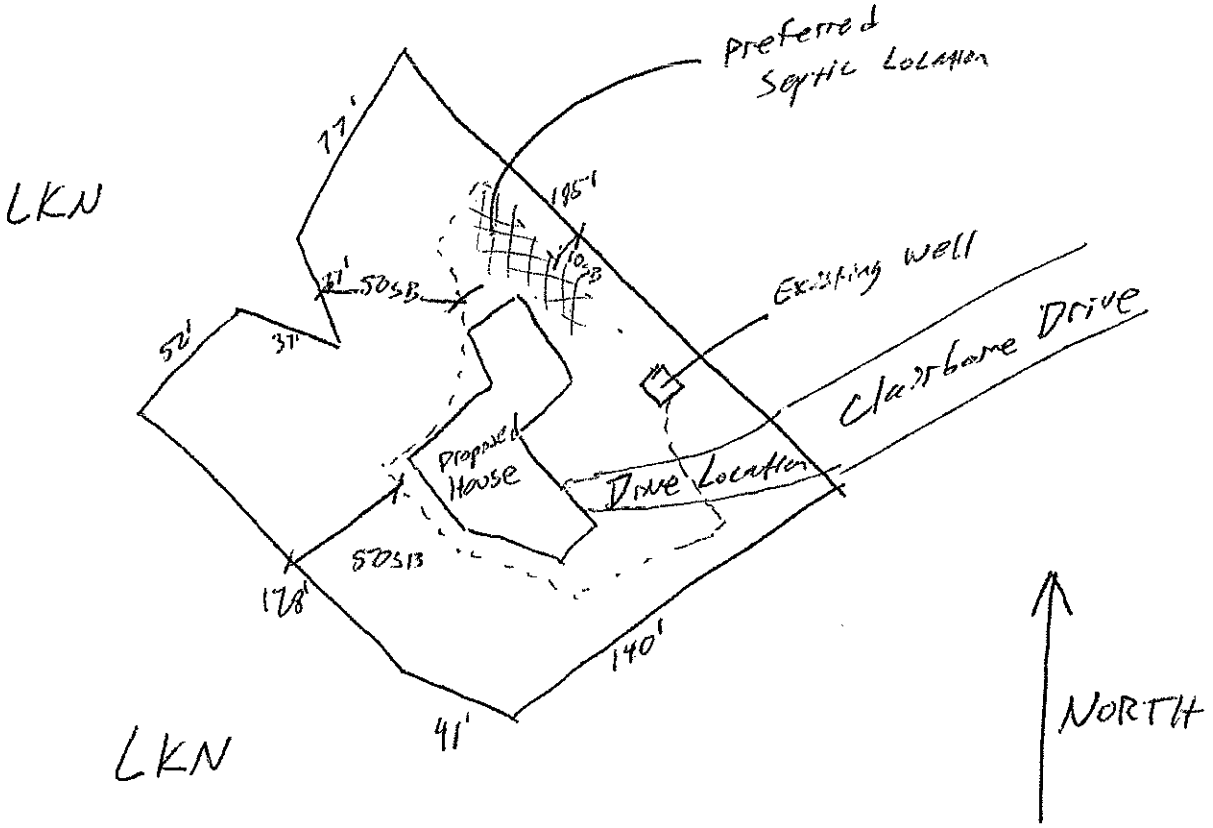
- X Property Line measurements are clearly identified...
- X All proposed structures are indicated...
  *SHOW: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site*
- X Front and side setbacks from property line...
- X Preferred driveway location and configuration, preferred well location...
- X Area you prefer your septic system to be placed...
- X North arrow, or other sufficient indicator of direction...

**Circle N/A on the following if appropriate:**

- ____ Location of septic systems and wells within 100' of your property... N/A
- ____ Location of easements and rights of ways on your property... N/A
- ____ Location of any designated wetlands on the property... N/A

**Signature:** _____ 10/12/12
*REQUIRED* property owner or owner's legal representative signature. DATE

## USE THIS SPACE TO DRAW YOUR SITE PLAN



**Iredell County**
**Planning & Enforcement**
**349 N. Center St. PO Box 788**
**Statesville, NC 28687**
**704-878-3113**

## Zoning Permit



**Permit Number:** 175475ZO

Printed: 10/17/2012

**Master #:** 175475

**Associated Permits:**
175475ZO Zoning

### Applicant

**Name:** Grainda Builders Inc
**Phone:** 704-892-1621
**Address:** PO Box 1221
Cornelius, NC 28031

### Parcel

**Parcel Number:** 4614962707.000
**Zoning:** R20
**Address:** 136 Claiborne Dr.
Mooresville, NC 28117
**Township:** 1700
**Area:** .64
**Subdivision:** CL&T Sect 6
**Lot(s):** 237
**Directions to Parcel:** Brawley School, right on Tuskarora, right on Balmoral, left on Claiborne, at end

### Owners

**Name:** Margaret Campbell
**Address:** 128 Claiborne Dr
Mooresville, NC 28117

### Contractors

**Contractor Type: Building**
**Name:** Grainda Builders Inc
**Phone:** 704-892-1621
**Address:** PO Box 1221
Cornelius, NC 28031

### Fees and Receipts:

| Number | Description | Amount |
|---|---|---|
| FEE-267486-07 | Zoning - Permit Application | $75.00 |
| FEE-267487-07 | Technology Fee - Planning | $2.25 |
| FEE-267488-07 | Environmental Health - Gravity System | $500.00 |

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION


PROPERTY ID #: _____
COUNTY: Iredell

APPROVED BA

# SOIL/SITE EVALUATION
## *for* ON-SITE WASTEWATER SYSTEM

OWNER: Margret Campbell APPLICATION DATE: 11-2-12
ADDRESS:616 Channing Circle NW, Concord 28027 DATE EVALUATED: 11-2-12
PROPOSED FACILITY: 3 Bedroom PROPOSED DESIGN FLOW (.1949): 360 gpd PROPERTY SIZE: .637 ac.
LOCATION OF SITE: 136Claiborne Dr. PROPERTY RECORDED:
WATER SUPPLY: * Private ☐ Public * Well ☐ Spring ☐ Other
EVALUATION METHOD: * Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: * Sewage ☐ Industrial Process ☐ Mixed

| PROFILE # | .1940 LANDSCAPE POSITION/ SLOPE % | HORIZON DEPTH (IN.) | SOIL MORPHOLOGY (.1941) | | OTHER PROFILE FACTORS | | | | PROFILE CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| | | | .1941 STRUCTURE/ TEXTURE | .1941 CONSISTENCE/ MINERALOGY | .1942 SOIL WETNESS/ COLOR | .1943 SOIL DEPTH | .1956 SAPRO CLASS | .1944 RESTR HORIZ | |
| 1 | LS 2-4% | 0-10 | Br. SCL WSBK | FR SS/SP SEXP | | 48" | | | PS .35 |
| | | 10-24 | R C SBK | FR SS/SP SEXP | | | | | |
| | | 24-48 | R CL SBK | FR SS/SP SEXP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 2 | LS 2-4% | 0-10 | Br. SCL WSBK | FR SS/SP SEXP | | 48" | | | PS .35 |
| | | 10-24 | R C SBK | FR SS/SP SEXP | | | | | |
| | | 24-48 | R CL SBK | FR SS/SP SEXP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 3 | LS 2-4% | 0-12 | R SCL WSBK | FR SS/SP SEXP | | 48" | | | PS .35 |
| | | 12-24 | R C SBK | FR SS/SP SEXP | | | | | |
| | | 24-48 | R CL SBK | FR SS/SP SEXP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 4 | LS 2-4% | 0-8 | R SCL WSBK | FR SS/SP SEXP | | 48" | | | PS .35 |
| | | 8-30 | R C SBK | FR SS/SP SEXP | | | | | |
| | | 30-48 | R CL SBK | FR SS/SP SEXP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | 780 FT2 | |
| System Type(s) | 25% Red. | |
| Site LTAR | .35 | .35 |

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: MA&ASSOC. INC.
OTHER(S) PRESENT:

COMMENTS:

# SOIL/SITE EVALUATION

*(Continuation Sheet)*

APPROVED BA *Sheet* 2 *of* 2

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #:
DATE OF EVALUATION:
COUNTY: Iredell

| PROFILE # | .1940 LANDSCAPE POSITION/ SLOPE % | HORIZON DEPTH (IN.) | SOIL MORPHOLOGY (.1941) | | OTHER PROFILE FACTORS | | | | PROFILE CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| | | | .1941 STRUCTURE/ TEXTURE | .1941 CONSISTENCE/ MINERALOGY | .1942 SOIL WETNESS/ COLOR | .1943 SOIL DEPTH | .1956 SAPRO CLASS | .1944 RESTR HORIZ | |
| 5 | LS 4-5% | 0-8 | Br. SCL WSBK | FR SS/SP SEXP | | 48" | | | PS .35 |
| | | 8-36 | R C SBK | FR SS/SP SEXP | | | | | |
| | | 36-48 | R CL SBK | FR SS/SP SEXP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

COMMENTS:

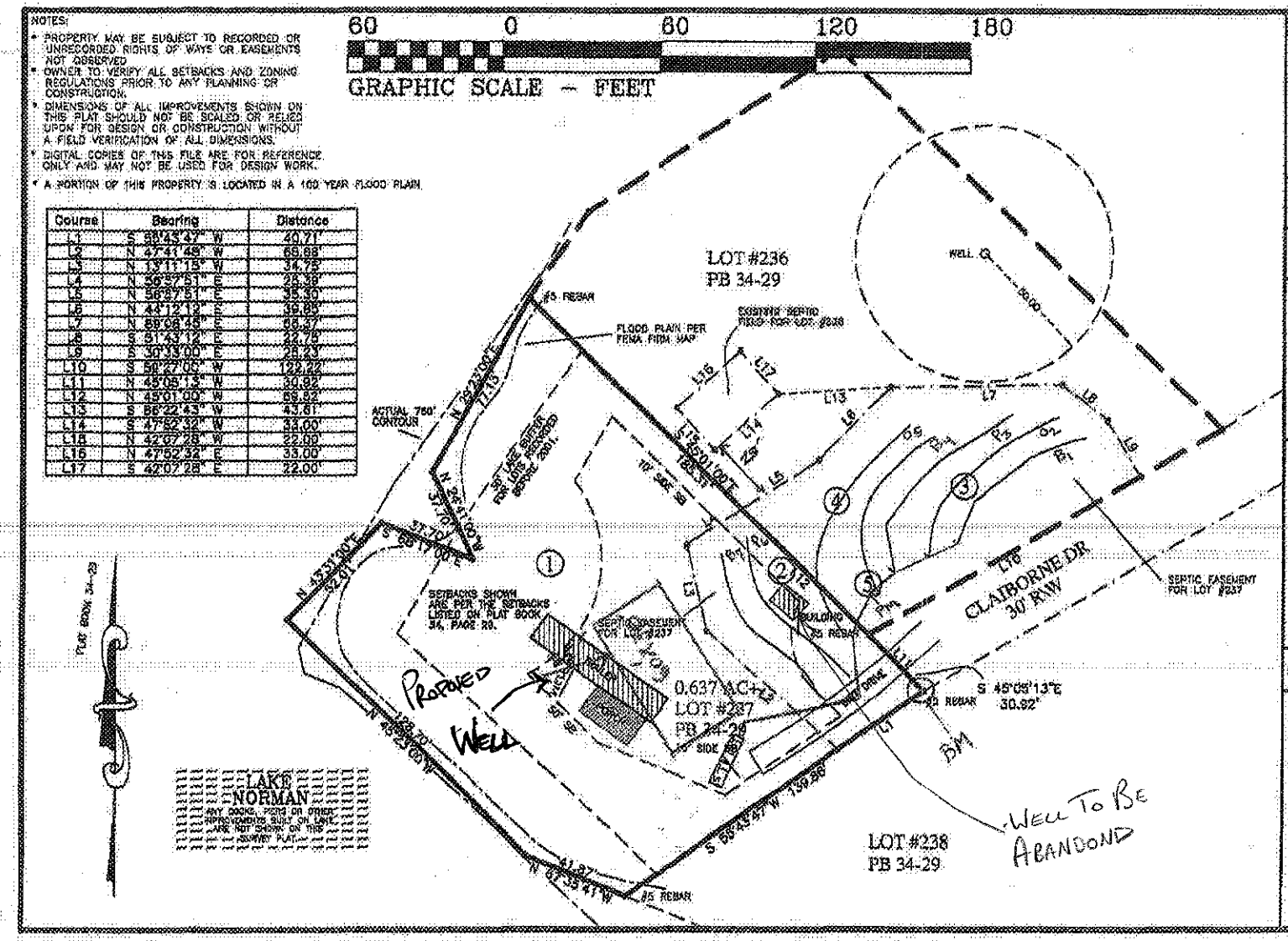
NOTES:

- PROPERTY MAY BE SUBJECT TO RECORDED OR UNRECORDED RIGHTS OF WAYS OR EASEMENTS NOT OBSERVED
- OWNER TO VERIFY ALL SETBACKS AND ZONING REGULATIONS PRIOR TO ANY PLANNING OR CONSTRUCTION.
- DIMENSIONS OF ALL IMPROVEMENTS SHOWN ON THIS PLAT SHOULD NOT BE SCALED OR RELIED UPON FOR DESIGN OR CONSTRUCTION WITHOUT A FIELD VERIFICATION OF ALL DIMENSIONS.
- DIGITAL COPIES OF THIS FILE ARE FOR REFERENCE ONLY AND MAY NOT BE USED FOR DESIGN WORK.
- A PORTION OF THIS PROPERTY IS LOCATED IN A 100 YEAR FLOOD PLAIN.

60 0 60 120 180

GRAPHIC SCALE – FEET

| Course | Bearing | Distance |
|---|---|---|
| L1 | S 68°43'47" W | 20.71' |
| L2 | N 47°41'48" W | 69.68' |
| L3 | N 13°11'15" W | 34.75' |
| L4 | N 56°37'51" E | 28.38' |
| L5 | N 56°37'51" E | 35.30' |
| L6 | N 44°12'13" E | 39.85' |
| L7 | N 89°06'48" E | 66.37' |
| L8 | S 81°43'12" E | 32.76' |
| L9 | S 30°33'00" E | 28.23' |
| L10 | S 56°27'00" W | 122.22' |
| L11 | N 45°05'13" W | 30.92' |
| L12 | N 45°01'00" W | 69.82' |
| L13 | S 86°22'43" W | 43.61' |
| L14 | S 47°52'32" W | 33.00' |
| L15 | N 42°07'28" W | 22.00' |
| L16 | N 47°52'32" E | 33.00' |
| L17 | S 42°07'28" E | 22.00' |







LAKE NORMAN

ANY DOCKS, PIERS OR OTHER IMPROVEMENTS BUILT ON LAKE ARE NOT SHOWN ON THIS SURVEY PLAT.

PHYSICAL SURVEY
FOR
PAUL T. CAMPBELL &
MARGARET L. CAMPBELL

BEING LOT #237 OF SECTION 6 OF CRESCENT LAND & TIMBER

| | | |
|---|---|---|
| DECEMBER 14, 2012 | DB: 9488 | PG: 379 |
| SCALE: 1" = 60' | CB: | PG: |
| | PB: 34 | PG: 29 |

DAVIDSON TOWNSHIP
MECKLENBURG COUNTY, NC


DEDMON SURVEYS

CHUCK POOVEY, PLS #3782
ROBERT DEDMON, PLS #3899
3704 NC HIGHWAY #16 NORTH
P.O. BOX 484 – DENVER, NC 28037
PHONE: 704/483/4906
FAX: 704/483/2170

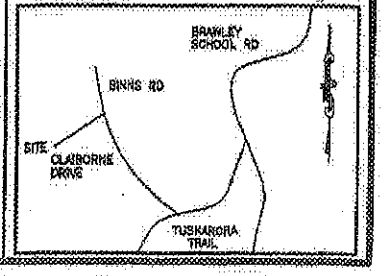

NORTH CAROLINA PROFESSIONAL LAND SURVEYOR SEAL L-3899

I CERTIFY THIS PLAT WAS DRAWN FROM AN ACTUAL SURVEY AND IS CORRECT AND TRUE TO THE BEST OF MY KNOWLEDGE.

Robert C. Dedmon 3899
PROFESSIONAL LAND SURVEYOR LICENSE NO.

| | | |
|---|---|---|
| SURV. BY: KJ | DRAWN: RD | JOB#: KJCLAIRE |

VICINITY MAP




APPROVED BY ICHORA

Atkinson : Marra

# WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

**1. Well Contractor Information:**

B & K Well Drilling Inc

Well Contractor Name (or well owner personally abandoning well on his/her property)

Alfred L Kiesling Sr

NC Well Contractor Certification Number

2670-A

Company Name

**2. Well Construction Permit #:** _____

*List all applicable well construction permits (i.e. County, State, Variance, etc.) if known*

**3. Well use (check well use):**

| | |
|---|---|
| **Water Supply Well:** | |
| ☐Agricultural | ☐Municipal/Public |
| ☐Geothermal (Heating/Cooling Supply) | ☑Residential Water Supply (single) |
| ☐Industrial/Commercial | ☐Residential Water Supply (shared) |
| ☐Irrigation | |
| **Non-Water Supply Well:** | |
| ☐Monitoring | ☐Recovery |
| **Injection Well:** | |
| ☐Aquifer Recharge | ☐Groundwater Remediation |
| ☐Aquifer Storage and Recovery | ☐Salinity Barrier |
| ☐Aquifer Test | ☐Stormwater Drainage |
| ☐Experimental Technology | ☐Subsidence Control |
| ☐Geothermal (Closed Loop) | ☐Tracer |
| ☐Geothermal (Heating/Cooling Return) | ☐Other (explain under 7g) |

**4. Date well(s) abandoned:** _____

**5a. Well location:**

Granda Elders

Facility/Owner Name

_____

Facility ID# (if applicable)

136 Clarborne, Mocksville, NC

Physical Address, City, and Zip

Iredell

County

_____

Parcel Identification No. (PIN)

**5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:**
(if well field, one lat/long is sufficient)

_____ N _____ W

**CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED**

*Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.*

**6a. Well ID#:** _____

**6b. Total well depth:** 40 (ft.)

**6c. Borehole diameter:** 2 (in.)

**6d. Water level below ground surface:** 20 (ft.)

**6e. Outer casing length (if known):** _____ (ft.)

**6f. Inner casing/tubing length (if known):** _____ (ft.)

**6g. Screen length (if known):** _____ (ft.)

For Internal Use ONLY:

**WELL ABANDONMENT DETAILS**

**7a. Number of wells being abandoned:** 1

*For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.*

**7b. Approximate volume of water remaining in well(s):** N/A (gal.)

**FOR WATER SUPPLY WELLS ONLY:**

**7c. Type of disinfectant used:** Chlor. Tabs

**7d. Amount of disinfectant used:** 1 lb.

**7e. Sealing materials used (check all that apply):**

| | |
|---|---|
| ☑ Neat Cement Grout | ☑ Bentonite Chips or Pellets |
| ☐ Sand Cement Grout | ☐ Dry Clay |
| ☐ Concrete Grout | ☐ Drill Cuttings |
| ☐ Specialty Grout | ☑ Gravel |
| ☐ Bentonite Slurry | ☐ Other (explain under 7g) |

**7f. For each material selected above, provide amount of materials used:**

Cement 60 lb Bentonite 100 lb

Water 5 gal

**7g. Provide a brief description of the abandonment procedure:**

Poured

**8. Certification:**

Alfred L Kiesling Sr — 6/25/13

Signature of Certified Well Contractor or Well Owner — Date

*By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.*

**9. Site diagram or additional well details:**
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

**SUBMITTAL INSTRUCTIONS**

**10a. For All Wells:** Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Quality, Information Processing Unit,**
**1617 Mail Service Center, Raleigh, NC 27699-1617**

**10b. For Injection Wells:** In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Quality, Underground Injection Control Program,**
**1636 Mail Service Center, Raleigh, NC 27699-1636**

**10c. For Water Supply & Injection Wells:** In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

County Copy



**MICHAEL ATHANAS & ASSOCIATES**
**LICENSED SOIL SCIENTIST**
**1999 CANDLEWICK DRIVE**
**FORT MILL, S.C. 29715**
**803-802-4403 (office)**
**803-802-4402 (fax)**

**Reference: Data Sheet for 136 Claiborne Dr., Lot 237, Iredell County NC**
**House Footprint:** TBD
**Water Source:** Private Well
**Number of Bedrooms:** 3/360gpd
**Proposed LTAR:** Initial 0.35 gpd/ft2, Repair 0.35 gpd/ft2
**Existing System Type:** Initial 25% Red., Repair LP PPBPS
**Distribution:** Pressure Manifold
**Pressure Head:** 2
**Flow per Tap:** 5.48 gal
**Number of Taps:** 4
**Hole Size & Material:** Sch. 80 ½" taps
**System Flow:** 21.92 gal
**Dosing Volume:** 120 gal/dose
**Pump Run Time:** 5.47 min
**Elevation Head:** 12.8
**Friction Head:** 1.68
**Total Dynamic Head:** 19.78
**Trench Bottom Square Footage:** 780
**Supply Line Length:** 200'
**Drawdown:** 5.71
**Proposed Trench Depth:** 36"
**Septic/Pump tank size:** 1000

| Line | Actual Length | Design Length | Elevation |
|---|---|---|---|
| White 0 | 33 | | 2.5 |
| **Blue 1** | **65'** | **65'** | **2.8** |
| **Orange 2** | **75'** | **65'** | **3.1** |
| **Pink 3** | **80'** | **65'** | **3.4** |
| **Blue 4** | **68'** | **65'** | **3.6** |
| Orange 5 | 100' | | 4.3 |
| Pink 6 | 70' | | 5.0 |
| Blue 7 | 31' | | 5.2 |
| | | | |
| **Septic/Pump Tanks** | | | **8.6** |
| **Pressure Manifold** | | | **2.7** |
| **Benchmark (refer to site plan)** | | | **5.4** |
| **Initial System: 260' of 25% Red.** | | Repair System: 234' of LP PPBPS | |
| **Septic Tank/Pump tank: 1000/1000gal** | | | |

**Comments:** MA&A was asked to evaluate the development potential of lot 237; presently this lot has a trailer and an old septic tank that was located on the property. Iredell County cannot locate the septic permit for this lot; therefore MA&A probed the site and located the septic tank only. Based on our evaluation, lot 237 will need a septic easement from lot 236 which is adjacent, in order to accommodate a three bedroom residence, currently lots 237 &236 are owned by the same person. In the course of our evaluation, MA&A located the septic system for lot 236 and the current well location, assessing proper setbacks, we then laid out additional

drainline in to order to accommodate lot 237 septic needs. Please note lot 237 will need to abandon the current well location (inside storage building on lot 237) and septic tank. Also tank locations were re-located to the north side of the house, therefore MA&A re-shot the new tank location and adjusted the necessary calculations. Please note this area is currently a large gully and will need to be properly filled before tanks can be located in this area. The setback from the proposed well location from the new tank location is 75 feet. If there are any questions, please feel free to contact me @ 704-576-3887.