

**HARNETT COUNTY DEPARTMENT OF PUBLIC HEALTH
Well Abandonment Permit**

Permit Number: _____ Application Number: ^{EH2211-0001} _____ Applicant Name: NC DOT/Paragon Environmental

Address: P.O. Box 157 THOMASVILLE N.C. 27361-1057

Type of Well: Total Dept: 45' Diameter: 24-30" Grouted: Static Water Level: 25'

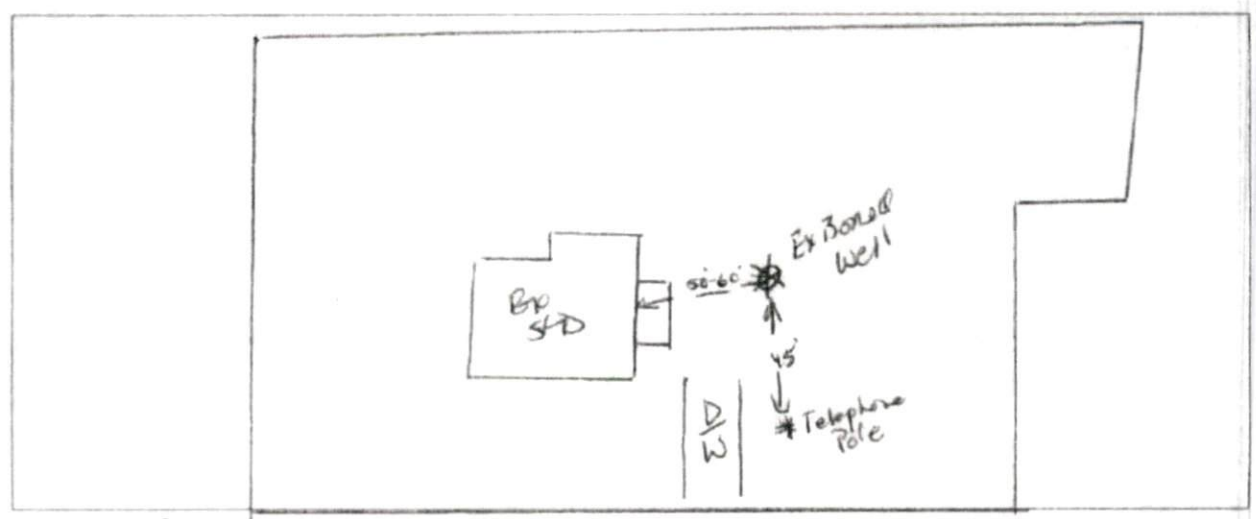
Directions to Site: 4844 N.C. Hwy 55 Angier N.C.

Agent of the State: James E. Markham ^{IREWS} Date: 11-21-22

Abandonment Procedure: Abandonment Procedure: 1. Remove all plumbing or piping into the well, along with any obstructions inside the well; 2. Remove as much of the well tile casing a possible, but no less than to a depth of three feet below land surface; 3. remove all soil or other subsurface material present down to the top of the remaining well casing, and extending to a width of at least 12 inches outside of the well casing on all sides; 4. Using 5 oz. of hypochlorite solution (such as HTH), disinfect the well in accordance with 15A NCAC 2C .0111 of this Subchapter. Do not use a common commercial household liquid bleach, as this is too weak a solution to ensure proper disinfection; 5. Fill the well up to the top of the remaining casing with cement grout, concrete grout, bentonite grout, dry clay, or material excavated during drilling of the well and then compacted in place; 6. Pour a one foot thick concrete grout or cement grout plug that fills the entire excavated area about the top of the casing, including the area extending on all sided of the casing out to a width of at least 12 inches on all sides; 7. Complete the abandonment process by filling the remainder of the well above the concrete or cement plug with additional concrete grout, cement grout, or soil.

Note: Contact Harnett County Environmental Health for appointment prior to beginning of well abandonment procedure.

Well must be abandoned by a Certified North Carolina well driller/contractor.



H. Blum ^{Mont #2957-Atwy 55}
Property Owner's or Owners Legal Representative Signature Required

11/21/22
Date

WELL ABANDONMENT RECORD

1. Well Contractor Information:

K. Brandon Moore

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

2957-A

NC Well Contractor Certification Number

Paragon Environmental Consultants, Inc.

Company Name

2. Well Construction Permit #: Harnett Co. app # EH2211-001

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

3. Well use (check well use):

Water Supply Well:

- | | |
|--|---|
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Municipal/Public |
| <input type="checkbox"/> Geothermal (Heating/Cooling Supply) | <input checked="" type="checkbox"/> Residential Water Supply (single) |
| <input type="checkbox"/> Industrial/Commercial | <input type="checkbox"/> Residential Water Supply (shared) |
| <input type="checkbox"/> Irrigation | |

Non-Water Supply Well:

- | | |
|-------------------------------------|-----------------------------------|
| <input type="checkbox"/> Monitoring | <input type="checkbox"/> Recovery |
|-------------------------------------|-----------------------------------|

Injection Well:

- | | |
|--|---|
| <input type="checkbox"/> Aquifer Recharge | <input type="checkbox"/> Groundwater Remediation |
| <input type="checkbox"/> Aquifer Storage and Recovery | <input type="checkbox"/> Salinity Barrier |
| <input type="checkbox"/> Aquifer Test | <input type="checkbox"/> Stormwater Drainage |
| <input type="checkbox"/> Experimental Technology | <input type="checkbox"/> Subsidence Control |
| <input type="checkbox"/> Geothermal (Closed Loop) | <input type="checkbox"/> Tracer |
| <input type="checkbox"/> Geothermal (Heating/Cooling Return) | <input type="checkbox"/> Other (explain under 7g) |

4. Date well(s) abandoned: 11/22/22

5a. Well location:

NC DOT

N/A

Facility/Owner Name

Facility ID# (if applicable)

4844 NC Highway 55

Physical Address, City, and Zip

Angier, NC 27501

County

0682-67-2411

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:

(if well field, one lat/long is sufficient)

35.473460 N 79.710279 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#: SW-1

6b. Total well depth: 45 (ft.)

6c. Borehole diameter: 24 (in.)

6d. Water level below ground surface: 25 (ft.)

6e. Outer casing length (if known): N/A (ft.)

6f. Inner casing/tubing length (if known): N/A (ft.)

6g. Screen length (if known): N/A (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: Calcium Hypochlorite

7d. Amount of disinfectant used: 8 oz.

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

- | | |
|--|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input checked="" type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

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

Concrete grout 5 cubic yards

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

Filled well void completely with concrete to

within 3 feet of land surface where a 18"

thick concrete plug was installed on top.

8. Certification:

K. Brandon Moore #2957-A 11/22/22
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 Resources, 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 Resources, 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.