State of North Carolina
Department of Natural Resources and Community Development
Mooresville Regional Office

James G. Martin, Governor
S. Thomas Rhodes, Secretary

Albert F. Hilton, Regional Manager

DIVISION OF ENVIRONMENTAL MANAGEMENT

September 3, 1987

Mr. David Henson
Iredell County Health Department
412 East Center Avenue
Mooresville, N. C. 28115

RE: Technical Assistance
Mr. Zip Helms, Well Abandonment
Iredell County, N. C.

Dear Mr. Henson:

In reference to the well abandonment by Mr. Zip Helms, enclosed is the following information:

A well abandonment record from Mr. Zip Helms concerning the abandonment of a 2" drilled well located on his property on SR 1450 at Lake Norman in Iredell County.

If you should have any questions, please do not hesitate to contact this Office at (704) 663-1699.

Sincerely,

Eric J. Klingel
Hydrogeologic Regional Supervisor

EJK:pb

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DIVISION OF ENVIRONMENTAL MANAGEMENT

N. C. DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT

SEP 3 1987

DIVISION OF ENVIRONMENTAL MANAGEMENT
MOORESVILLE REGIONAL OFFICE

Mr. Zip Helms
Rt. 8, Box 598
Mooresville, N. C. 28115

Dear Mr. Helms:

Per your request of April 2, 1987 I will outline the proper procedures for the abandonment of a drilled well as set forth in 15 NCAC 2C .0113.

NCAC 2C .0113(a)(2) requires that drilled wells be abandoned in accordance with the following procedures:

(1) The entire depth of the well shall be sounded before it is sealed to insure freedom from obstructions that may interfere with sealing operations.

(2) The well must be thoroughly disinfected prior to sealing.

(3) The well may be filled with cement, sand, or gravel opposite the zones of consolidated rock. The top of the sand or gravel fill shall be at least five feet below the top of the consolidated rock. The remainder of the well shall be filled to land surface with cement grout only.

NCAC 2C .0114(b)(1) requires that any person abandoning any well shall submit a record of the abandonment to this Department on forms provided by the Department within a period of thirty (30) days after completion of the abandonment. I have enclosed a well abandonment form for your use.

Should you have additional questions regarding well abandonment, please do not hesitate to call me at 704/663-1699.

Sincerely,

Tony R. Parker
Hydrogeological Technician

Approved by:
William H. Crawford
for Eric Klingel
Hydrogeological Supervisor

919 North Main Street, P.O. Box 950, Mooresville, N.C. 28115-0950 • Telephone 704-663-1699

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Division of Environmental Management

WELL ABANDONMENT RECORD

P. O. Box 27687 - Raleigh, N. C. 27611

CONTRACTOR

1. WELL LOCATION: (Show a sketch of the location on back of form.) REG. NO.

Nearest Town: Mooresville County Iredell

Hermanice LN RT 8 Box 594 Quadrangle No.

(Road, Community, Subdivision, Lot No.)

2. OWNER: ALTON L Helms

3. ADDRESS: RT 8 Box 594 Mooresville

4. TOPOGRAPHY: draw, slope, hilltop, valley, flat

5. USE OF WELL: Home DATE: 6/2/87

6. TOTAL DEPTH: 110 DIAMETER: 2"

7. CASING REMOVED:

feet	diameter
20'	2"

8. SEALING MATERIAL:

Neat cement

bags of cement ____

gals. of water ____

Sand cement

bags of cement 2

yds. of sand ½

gals. of water 5

Other

Type material SAND + GRAVEL

Amount 1½ yard

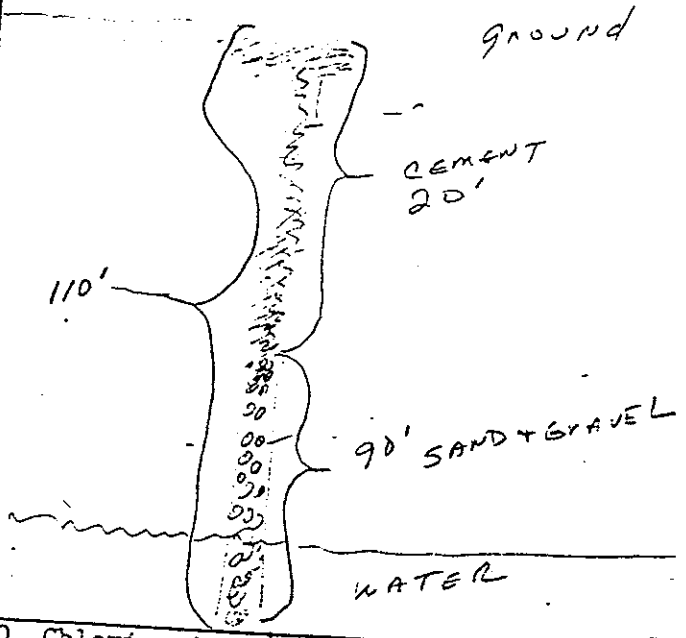
EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL

I do hereby certify that this well abandonment record is true and exact.

Alton L Helms 6/3/87

Signature of Contractor or Agent / Date

WELL DIAGRAM: Draw a detailed sketch of the well showing total depth, depth and diameter of screens remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.



10. Chlorination	% Chlorine	Amount Used
5 gal Clorox		5 gal

11. Remarks

I pulled casing 20' and insert pump then I put 5 gal of Clorox, ½ yard of sand + gravel and 2 bags of neat cement. All the cement would not fit in the hole so I sealed about 2' square around the hole about 3' below the ground level

If original to the Division of Environmental Management, one copy to the Driller, one copy to the Owner.

SF Kluttz
Dept of Natural
Po Box 950
Hillsborough
27215