

A 6280/WAC  
03.01-03/25/87-01994

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

James G. Martin, Governor

S. Thomas Rhodes, Secretary

March 25, 1987

Colonel T. J. Dalzell  
Assistant Chief of Staff  
Building One  
Marine Corps Base  
Camp Lejeune, NC 28452-5001

Subject: Well Construction Permit No. 66-0135-WM-0148  
United States Marine Corps  
Marine Corps Base  
Camp Lejeune  
Onslow County

Dear Colonel Dalzell:

In accordance with your application received March 19, 1987, we are forwarding herewith Well Construction Permit No. 66-0135-WM-0148 dated March 23, 1987, issued to the United States Marine Corps for the construction of two observation wells.

If any parts, requirements, or limitations contained in this Permit are unacceptable to you, you have the right to an adjudicatory hearing before a hearing officer upon written demand to the Director within 30 days following receipt of this Permit, identifying the specific issues to be contended. Unless such demand is made, this Permit shall be final and binding.

This Permit will be effective from the date of its issuance and shall be subject to the conditions and limitations as specified therein.

Sincerely,

DICK SHIVER

FOR  
Charles Wakild  
Regional Supervisor

CW/RS/kd

Enclosure

cc:

David A. Brentlinger  
Davis Drilling Co., Inc.  
Perry Nelson  
Bob Jamieson  
Central Files  
Wiro

7225 Wrightsville Avenue, Wilmington, N.C. 28403-3696 • Telephone 919-256-4161

NORTH CAROLINA  
ENVIRONMENTAL MANAGEMENT COMMISSION  
DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT  
RALEIGH, NORTH CAROLINA

**PERMIT FOR THE CONSTRUCTION OF A WELL OR WELL SYSTEM**

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In accordance with the provisions of Article 7, Chapter 87, North Carolina General Statutes, and other applicable Laws, Rules and Regulations.

**PERMISSION IS HEREBY GRANTED TO**

**The United States Marine Corps**

**FOR THE CONSTRUCTION OF** two observation wells located off Duncan Street, in Camp Lejeune, in Onslow County, in accordance with the application dated March 19, 1987 and in conformity with specifications and supporting data, all of which are filed with the Department of Natural Resources and Community Development and are considered a part of this Permit.

This Permit is for well construction only, and does not waive any provisions or requirements of the Water Use Act of 1967, or any other applicable laws or regulations.

Construction of a well under this Permit shall be in compliance with the North Carolina Well Construction Regulations and Standards, and any other laws and regulations pertaining to well construction.

This Permit will be effective from the date of its issuance until September 24, 1987, and shall be subject to other specified conditions, limitations, or exceptions as follows:

1. The wells shall be located and constructed as shown on the attachments submitted as part of the permit application.
2. The casings shall extend at least one foot above land surface datum.

Permit issued this the 23rd day of March, 1987.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

*Richard Shivers*  
\_\_\_\_\_  
Charles Wakild, REGIONAL SUPERVISOR

\_\_\_\_\_  
DIVISION OF ENVIRONMENTAL MANAGEMENT

By Authority of the Environmental Management Commission

PERMIT NO. 66-0135-WM-0148

RECEIVED

MAR 19 1987

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT GROUNDWATER SECTION WILMINGTON REGIONAL OFFICE APPLICATION FOR PERMIT TO CONSTRUCT MONITOR/RECOVERY WELL(S)

To: NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION March 19, 1987 Gentlemen:

In accordance with the provisions of Article 7, Chapter 87, General Statutes of North Carolina, and regulations pursuant thereto, application is hereby made by The Department of the Navy, Camp Lejeune, NC for a permit to construct a monitor/recovery well(s) as described below and in the accompanying data submitted as a part of this application.

- (a) Name of property owner: same as above
(b) Location of property: Duncan St. (south of the N Lymon Rd & Sneeds Ferry R)
(c) Type of facility or site being monitored: on base
(d) Types of contamination being monitored or recovered: N/A
(e) Existing monitor well numbers: N/A
(f) Existing monitor wells showing contamination (well no.): N/A
(g) Estimated water-table depth: not known yet feet
(h) Estimated date of construction: Begin 06 April 87 Complete 20 April 87
(i) Drilling contractor: Davis Drilling Co., Inc.
(j) Location of well: Provide a detailed map showing the location of the proposed well(s), and of any wells in an existing monitoring system...

(k) Well construction diagram: Provide a diagram showing proposed construction specifications, including diameter, estimated depth, screens, sand pack, grout, type of materials, etc.

The Applicant hereby agrees the proposed well will be constructed in accordance with approved specifications and conditions of the Well Construction Permit. As regulated under the Well Construction Standards (Title 15 - North Carolina Administrative Code, Subchapter 2C)

MB Camp Lejeune Bldg. #1 Holcomb - Facility Eng. Dept - Camp Lejeune (Mailing Address of Well Owner-Required)

ESE PO Box "ESE" 641754 (Mailing Address of Agent-if other than above) 32602

Signature of Well Owner or Agent

Environmental Science & Engineering Title (if applicable)

FOR OFFICE USE ONLY

PERMIT NO. issued 19

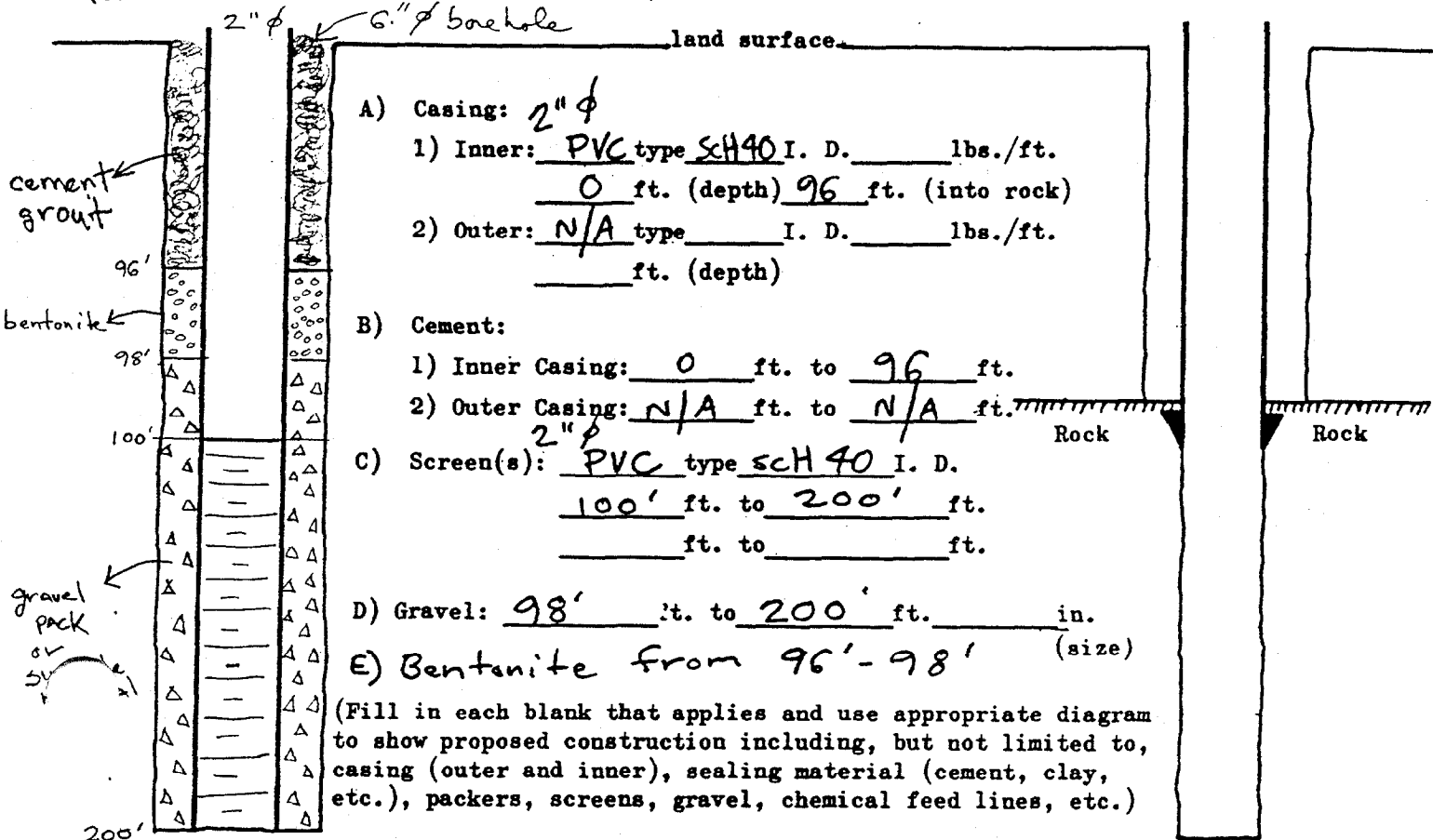
**DIAGRAM OF PROPOSED  
CONSTRUCTION SPECIFICATIONS**

**Straight-Screened**  
or  
**Gravel-Packed Well**

(Constructed in unconsolidated formations)

**Open-End Well**

(Constructed in consolidated formations)



- A) Casing: 2" φ
- 1) Inner: PVC type SCH40 I. D. \_\_\_\_\_ lbs./ft.  
0 ft. (depth) 96 ft. (into rock)
- 2) Outer: N/A type \_\_\_\_\_ I. D. \_\_\_\_\_ lbs./ft.  
\_\_\_\_\_ ft. (depth)

- B) Cement:
- 1) Inner Casing: 0 ft. to 96 ft.
- 2) Outer Casing: N/A ft. to N/A ft.

- C) Screen(s): 2" φ PVC type SCH40 I. D.  
100' ft. to 200' ft.  
\_\_\_\_\_ ft. to \_\_\_\_\_ ft.

- D) Gravel: 98' ft. to 200' ft. \_\_\_\_\_ in.

- E) Bentonite from 96'-98' (size)

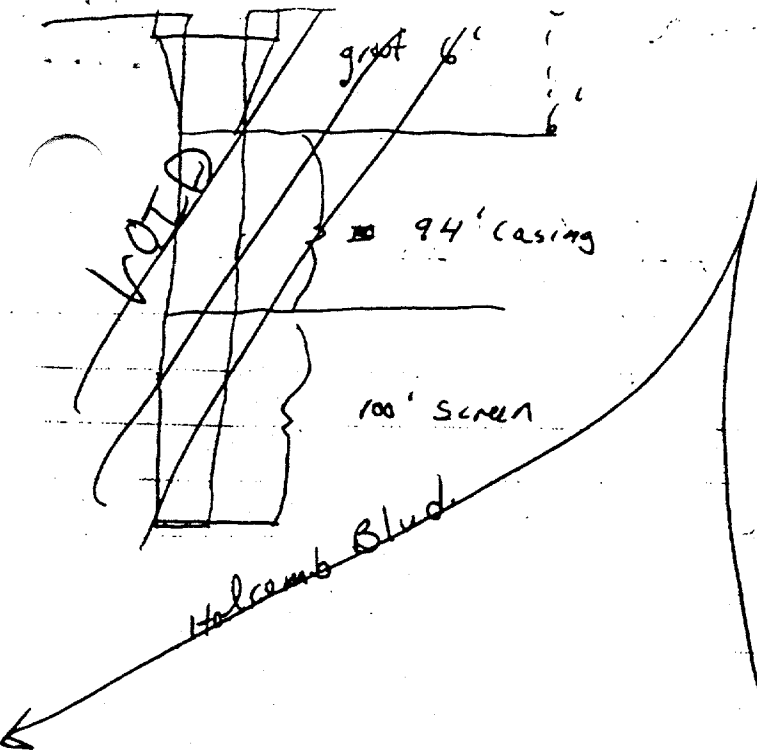
(Fill in each blank that applies and use appropriate diagram to show proposed construction including, but not limited to, casing (outer and inner), sealing material (cement, clay, etc.), packers, screens, gravel, chemical feed lines, etc.)

**Location Diagram:** (Previously prepared maps may be submitted provided they contain information required in item (g) of the application).

See attached location diagram.  
Also, see additional maps  
in WIRO USMC - Camp Lejeune files.

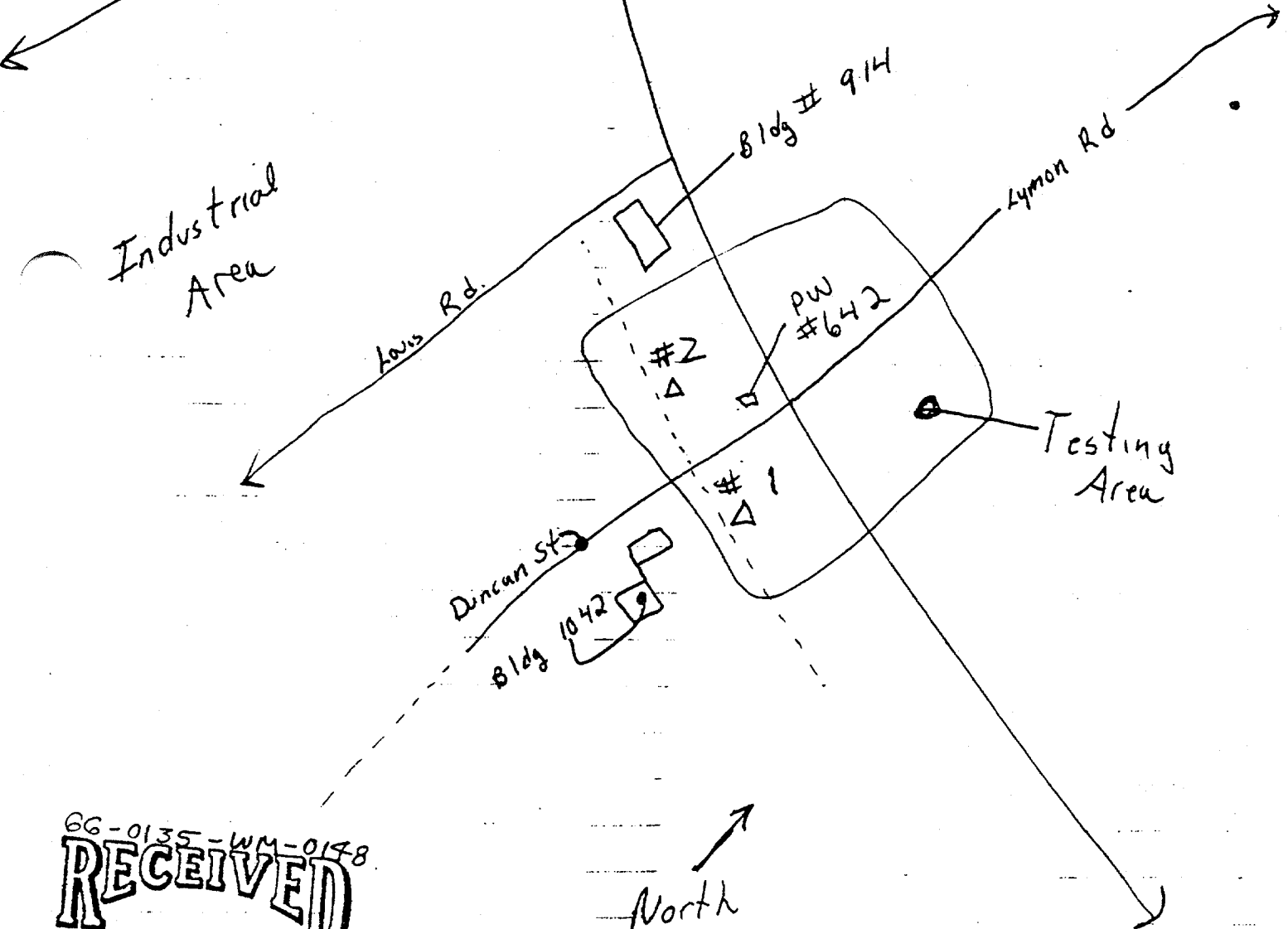
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MAR 19 1987  
GROUND-WATER SECTION  
WILMINGTON REGIONAL OFFICE



Operations in Test Area

- \* Pump test PW 642
- \* Test well #1
- \* Test well #2



66-0135-WM-0178  
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MAR 19 1987

GROUNDWATER SECTION  
 WILMINGTON REGIONAL OFFICE