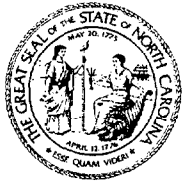


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State of North Carolina
Department of Natural Resources and Community Development
Wilmington Regional Office

James G. Martin, Governor

June 3, 1987

S. Thomas Rhodes, Secretary

Colonel T. J. Dalzell
Assistant Chief of Staff Facilities
Facilities Engineering
Camp Lejeune, NC 28452-5001

Subject: Well Construction Permit No. 66-0170-WM-0152
Camp Lejeune Marine Corps Base
Camp Lejeune
Onslow County

Dear Colonel Dalzell:

In accordance with your application received May 27, 1987, we are forwarding herewith Well Construction Permit No. 66-0170-WM-0152 dated May 26, 1987, issued to the United States Marine Corps for the construction of two monitor 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,

RICK SHIVER

FOR Charles Wakild
Regional Supervisor

CW/RS/kd

Enclosure

cc: Michael J. Geden, P.G.
Perry Nelson
Bob Jamieson
Central Files
Wiro

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

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 monitor wells located near Well HP-9 on the Marine Corps Base in Onslow County, in accordance with the application dated May 26, 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 December 2, 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.

Permit issued this the 1st day of June, 1987.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

Charles Wakild

Charles Wakild, REGIONAL SUPERVISOR

DIVISION OF ENVIRONMENTAL MANAGEMENT

By Authority of the Environmental Management Commission

PERMIT NO. 66-0170-WM-0152

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

APPLICATION FOR PERMIT TO CONSTRUCT MONITOR/RECOVERY WELL(S)

To: NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION May 26, 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 Dept of the Navy Camp Lejeune 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: As Above
- (b) Location of property: FIRST EAST RD W Jacksonville Onslow
(Road, Industry, Community, etc.) Town County
- (c) Type of facility or site being monitored: N/A
- (d) Types of contamination being monitored or recovered: TCE

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MAY 27 1987

- (e) Existing monitor well numbers: HP 9
- (f) Existing monitor wells showing contamination (well no.): N/A
- (g) Estimated water-table depth: 10 feet
- (h) Estimated date of construction: Begin 4/15 Complete 4/17
- (i) Drilling contractor: ATEC & ASSOCIATES

GROUNDWATER SECTION
WILMINGTON REGIONAL OFFICE

- (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 (if applicable), in relation to the pollution source(s) being monitored and to at least two (2) nearby permanent reference points such as roads, intersections, and streams. Identify roads with State Highway road identification numbers. (Show all existing water supply wells within a radius of 1,000 feet of the proposed well.)
- (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)

Facilities Eng

Bldg 1 Hocomp Blvd Camp Lejeune NC
(Mailing Address of Well Owner-Required)

ESE Inc PO Box ESE Gainesville FL
(Mailing Address of Agent-if other than above) 32605



Signature of Well Owner or Agent

Geologist

Title (if applicable)

FOR OFFICE USE ONLY

PERMIT NO. _____ issued _____ 19____

JW-22B

- WATER TABLE AQUIFER
— TERTIARY SAND SYSTEM
 TERTIARY LIMESTONE SYSTEM
— CAS

66-0170-WM-0152

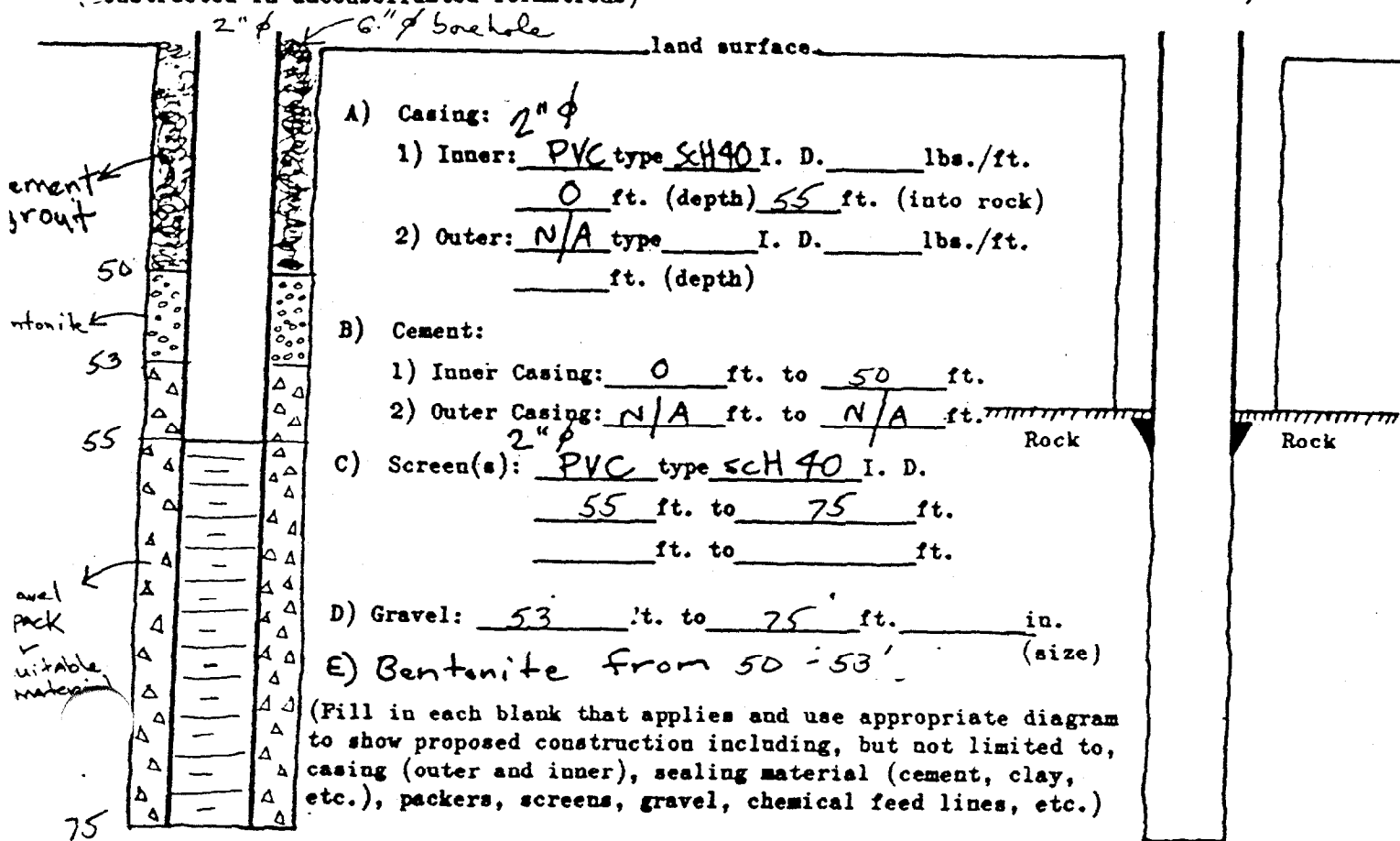
**DIAGRAM OF PROPOSED
CONSTRUCTION SPECIFICATIONS**

Straight-Screened
or
Gravel-Packed Well

Open-End Well

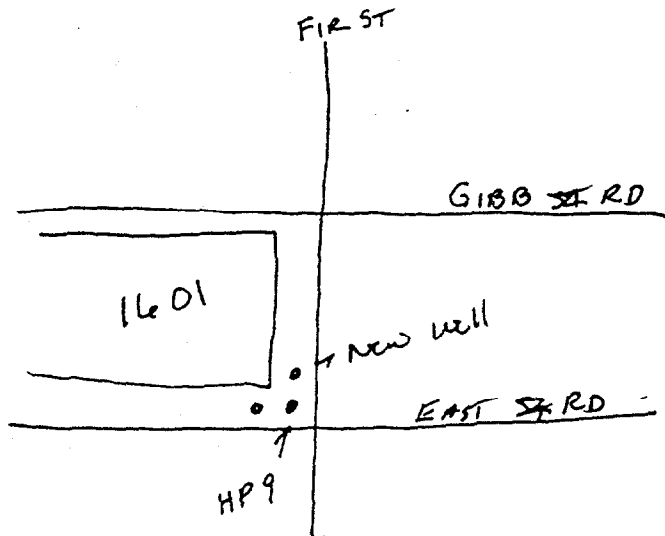
(Constructed in consolidated formations)

(Constructed in unconsolidated formations)



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

See attached location diagram.



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MAY 27 1987

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