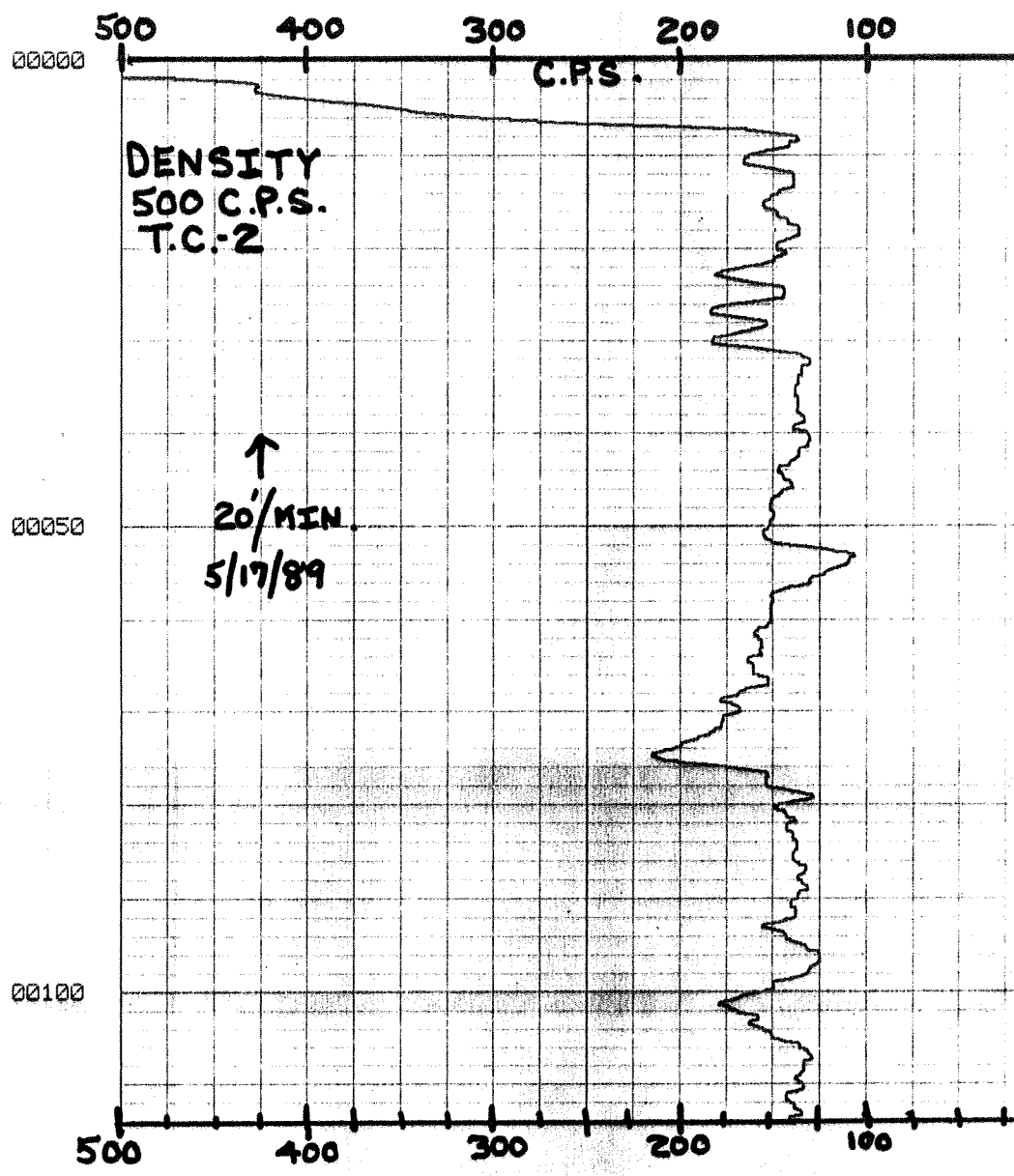
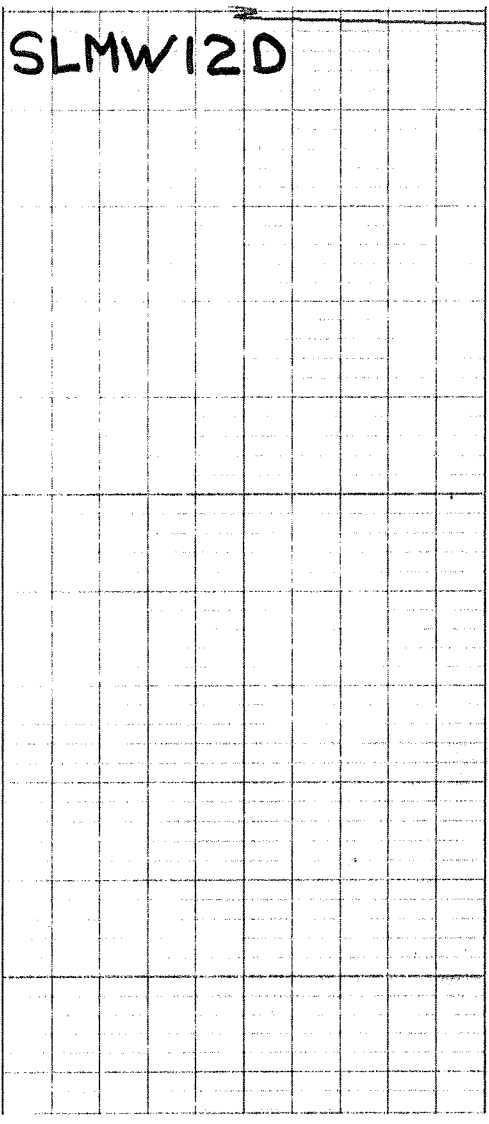


TIME DRIVE SCALE = TEN INCHES PER MINUTE

CHANNEL 1 CONFIGURATION:
SPAN = 552
OFFSET = 2860
DOT CODE = SOLID
DEPTH OFFSET = .0
BACKUP = OFF

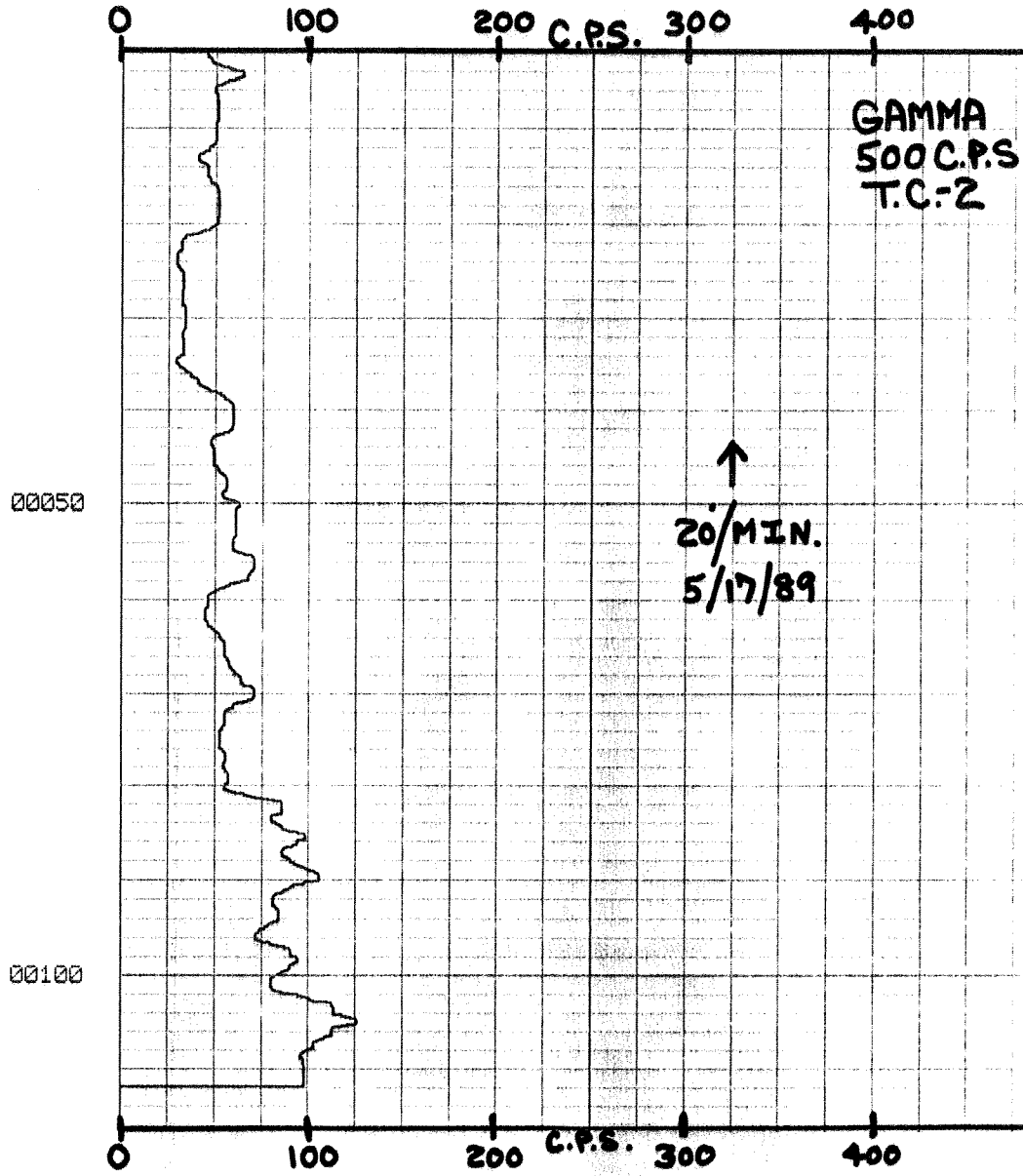
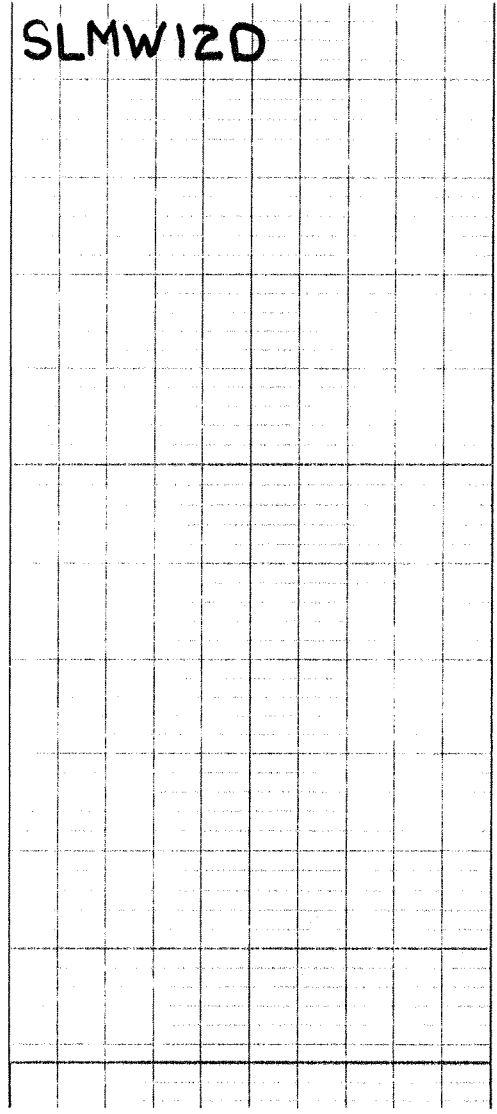
SLMW12D



SYSTEM CONFIGURATION:
DEPTH SCALE = FIVE INCH SCALE
CHART SCALE = A.P.I. LINEAR
TIME DRIVE SCALE = TEN INCHES PER MINUTE

CHANNEL 2 CONFIGURATION:
SPAN = 200
OFFSET = 2358
DOT CODE = SOLID
DEPTH OFFSET = 5.0
BACKUP = OFF

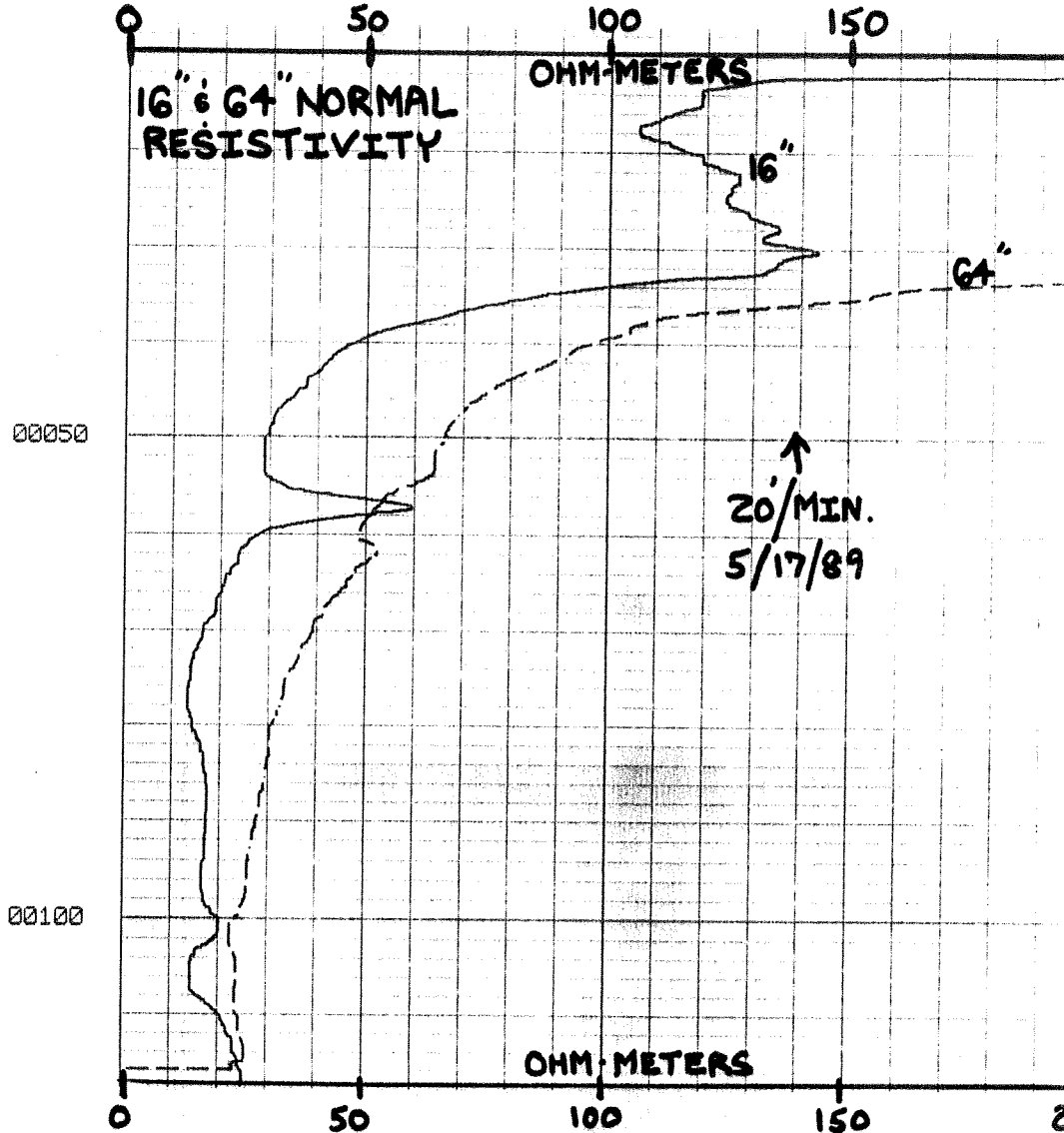
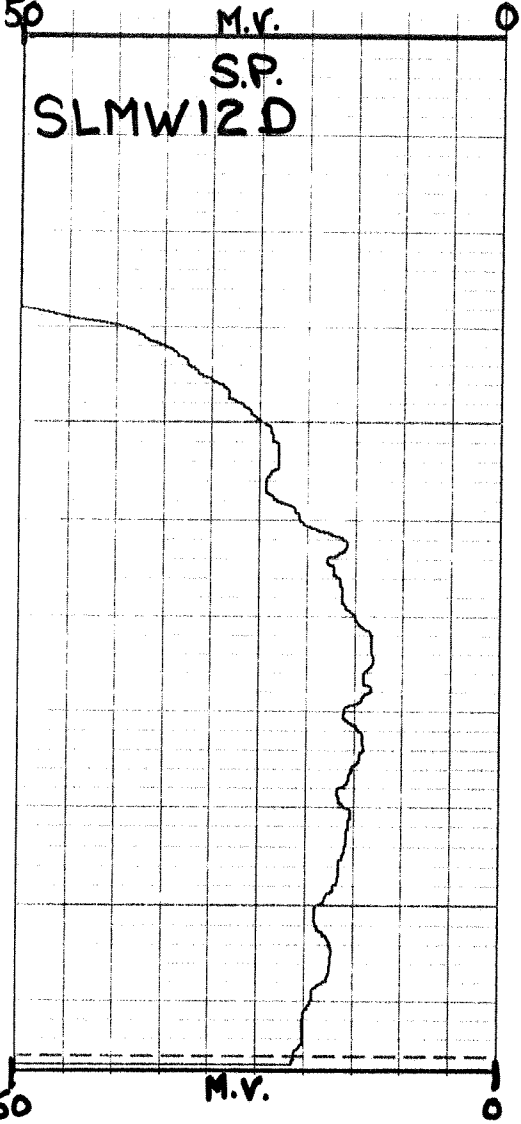
SLMW12D



SYSTEM CONFIGURATION:
DEPTH SCALE = FIVE INCH SCALE
CHART SCALE = A.P.I. LINEAR
TIME DRIVE SCALE = TEN INCHES PER MINUTE

BACKUP = OFF

CHANNEL 3 CONFIGURATION:
SPAN = 1025
OFFSET = 25
DOT CODE = SOLID
DEPTH OFFSET = 1.0
BACKUP = OFF

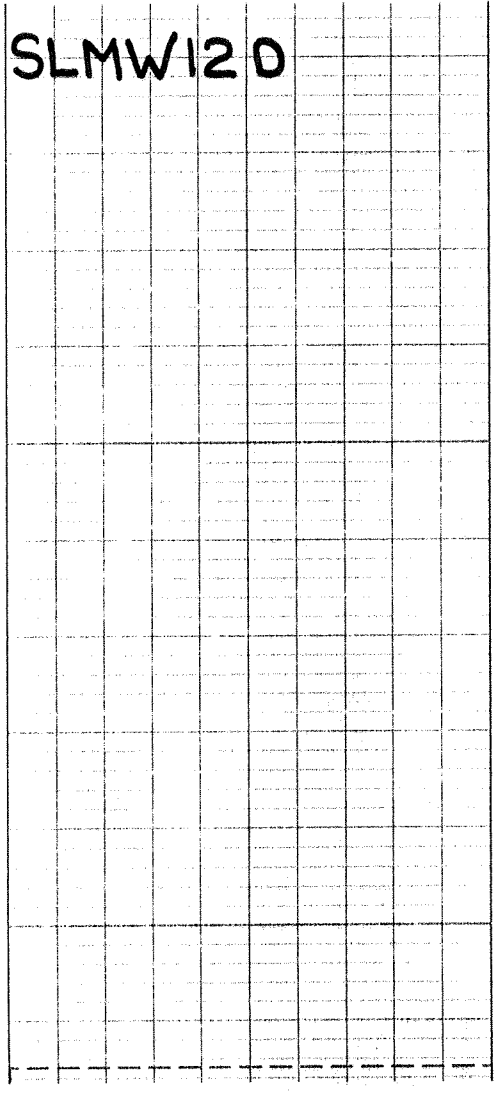


SYSTEM CONFIGURATION:
DEPTH SCALE = FIVE INCH SCALE
CHART SCALE = A.P.I. LINEAR
TIME DRIVE SCALE = TEN INCHES PER MINUTE

CHANNEL 2 CONFIGURATION:

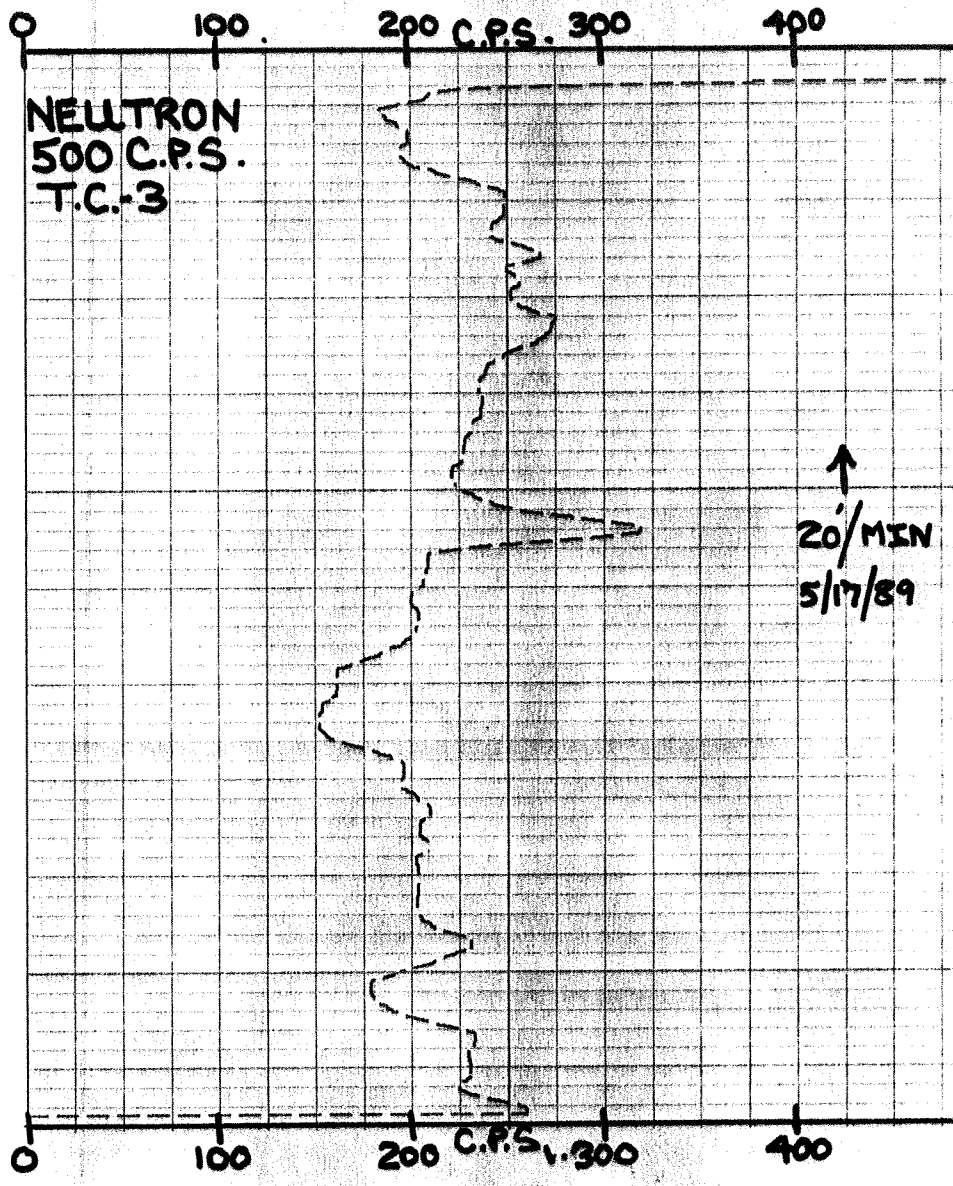
SPAN = 200
OFFSET = 2358
DOT CODE = DASHED
DEPTH OFFSET = 2.0
BACKUP = OFF

SLMW120



00050

00100

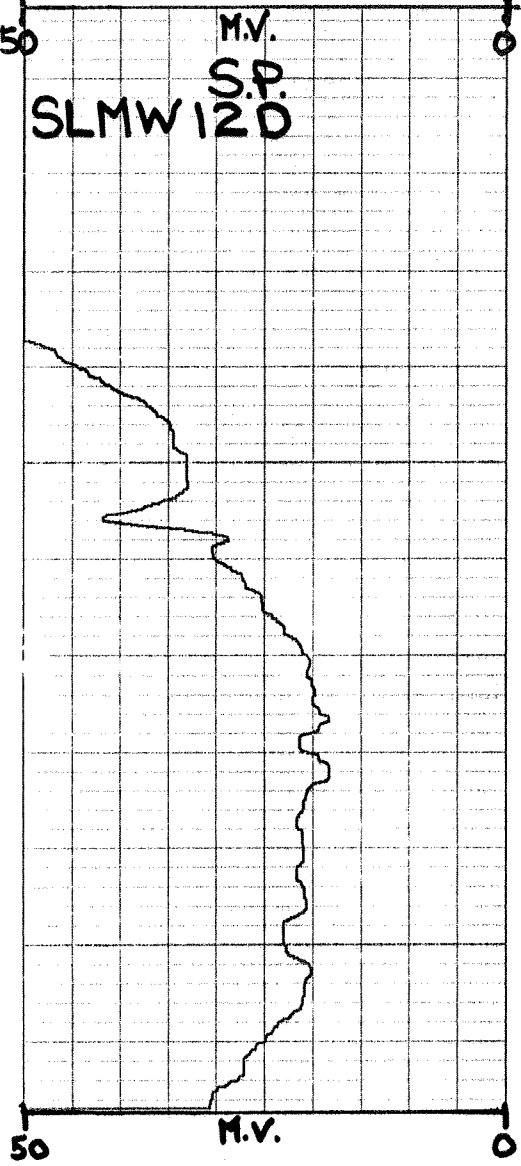


SYSTEM CONFIGURATION:

DEPTH SCALE = FIVE INCH SCALE
CHART SCALE = A.P.I. LINEAR
TIME DRIVE SCALE = TEN INCHES PER MINUTE

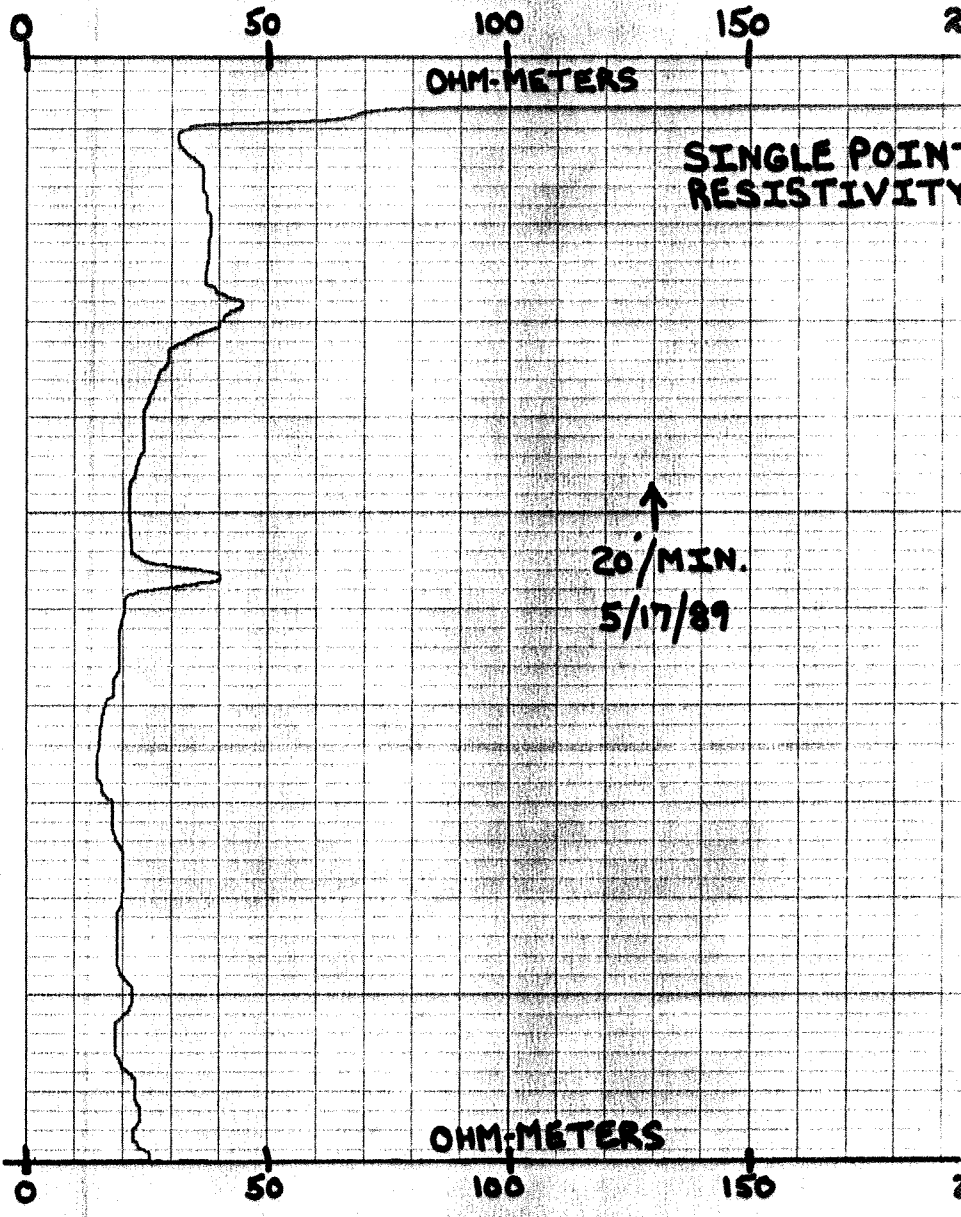
CHANNEL 3 CONFIGURATION:

SPAN = 1100
OFFSET = 25
DOT CODE = SOLID
DEPTH OFFSET = 1.0
BACKUP = OFF



00050

00100



SYSTEM CONFIGURATION:

DEPTH SCALE = FIVE INCH SCALE
CHART SCALE = A.P.I. LINEAR
TIME DRIVE SCALE = TEN INCHES PER MINUTE

**ATTACHMENT A
USE OF RADIOACTIVE MATERIALS IN TEST WELL**

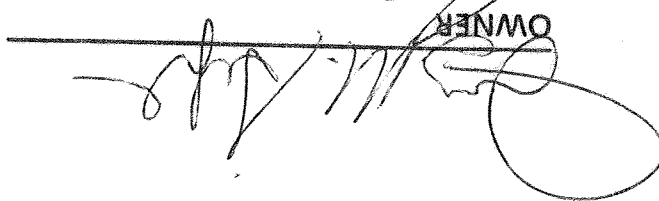
1. Property owner authorizes use of sealed nuclear source for geophysical logging purposes in test well construction.

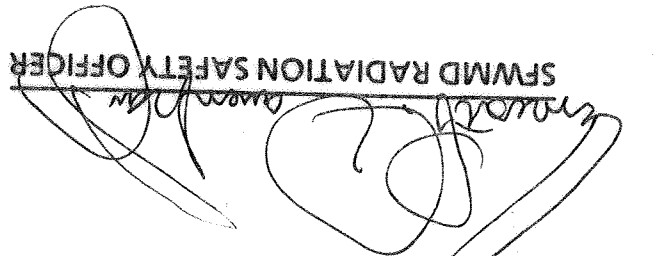
2. In the event the sealed source is lodged downhole, every effort at recovery of said source will be utilized.

3. If a decision is made to abandon the sealed source downhole, it will be done so in compliance with Florida Administrative Code Section 10D-91.1200, Control of Radiation Hazard Regulations.

4. In the event the said source is lost downhole, South Florida Water Management District will be responsible for the protection from any contamination of the well and surrounding formation water from said source.

5. The Radiation Safety Officer of this agency is responsible for compliance with the above-mentioned Department of Health and Rehabilitative Services regulations.

OWNER


SFWMD RADIATION SAFETY OFFICER


DATE
May 4, 1989

DATE
5/11/89



"Protecting South Florida's Water Resources for 40 Years"
1949-1989

South Florida Water Management District

P.O. Box 24680 • 3301 Gun Club Road • West Palm Beach, FL 33416-4680 • (407) 686-8800 • FL WATS 1-800-432-2045

April 19, 1989

Mr. Jerry Selph, Branch Manager
Helena Chemical Company
P.O. Drawer 669
Fort Pierce, Florida 33454

Dear Mr. Selph:

Please consider this letter to be a formal request to allow the South Florida Water Management District to install a water table monitor well on your property located in Section 18, Township 35 South, Range 39 East. A more detailed location map is attached. The information we will gather during the construction and subsequent monitoring of this well will greatly assist us in our study of the Surficial Aquifer System in St. Lucie County.

I am including a Right of Entry / Well Construction Agreement and a form giving the District permission to run a special type of geophysical well log. The Right of Entry / Well Construction Agreement: 1) allows the SFWMD to construct and monitor the well(s) at the location described; 2) insures the property and well site will be restored to the condition it was in immediately prior to the construction of the well; 3) includes a "save and hold harmless" clause to protect the property owner from claims for damages or injuries. The Radioactive Materials Use Form allows the District to run a specialty well logging tool which uses a totally contained, low-level radioactive source to measure porosity of the aquifer sediments. At no time does this source come into contact with any sediment or water. Our geophysical logging team is licensed by the Florida Department of Health and Rehabilitative Services and has logged over 500 wells in the last 15 years without incident.

If you decide to allow the District to construct the monitor well, the attached forms must be signed and returned to me. The forms will be countersigned by the appropriate District representatives and copies will be sent to you for your records.

I thank you in advance for your assistance with our study. Your support will be especially helpful in providing information necessary to effectively protect and manage the ground water resources in St. Lucie County. You will be provided with copies of any data collected on your property. Please contact me if you have any questions or concerns.

Sincerely,

David Butler
Staff Hydrogeologist
Hydrogeology Division

DB/hm

Enclosures: Right of Entry / Well Construction Agreement, Site Map

Governing Board:

James F. Garner, Chairman - Fort Myers
Doran A. Jason, Vice Chairman - Key Biscayne
J.D. York - Palm City

Arsenio Milian - Miami
Fritz Stein - Belle Glade
Mike Stout - Windermere

Ken Adams - West Palm Beach
Valerie Boyd - Naples
James E. Nall - Fort Lauderdale

John R. Wodraska, Executive Director
Tilford C. Creel, Deputy Executive Director

RIGHT OF ENTRY AGREEMENT/WELL CONSTRUCTION

The SOUTH FLORIDA WATER MANAGEMENT DISTRICT and/or the United States Geological Survey (USGS) and the agents, employees or assigns of each, (Permittees) are hereby granted the right to enter upon property owned by Helena Chemical Company (owner), and described herein, for the following purposes:

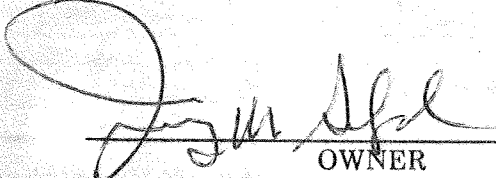
1. To construct water well(s) for the purpose of gathering lithologic data.
2. To conduct aquifer performance and step drawdown test(s) to determine water availability.
3. To collect geophysical logs on selected well(s). *SEE ATTACHMENT "A"
4. To periodically be allowed access to the well(s) for the purpose of monitoring water levels and/or water quality sampling.

Such equipment as may be needed to accomplish the above purposes may be brought upon, over and across the property, which is described as follows:

SECTION 18
TOWNSHIP 35 SOUTH
RANGE 39 EAST

The permittees, and each of them, warrant to the undersigned that upon completion of the above purposes, the property will be left in, or restored to, the same condition as it was when the permittees or their contractor(s) first entered upon the land to begin their work.


The permittees, and each of them, separately and severally, to the extent permitted by law, shall save and hold harmless the undersigned owner from claims for damages or injury caused by the permittees, their agents, servants, employees, or contractors, during the time this permit for access and use is in effect.




OWNER

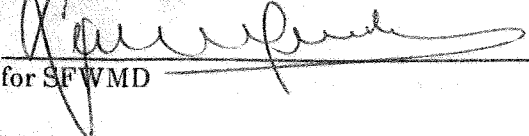
Date: May 1, 1989

Executed by owner in presence of:





COUNTERSIGNED BY PERMITTEE(S)



for SFWMD

Date: 5/11/89

Date: _____

for

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

PROJECT Helena Chemwell NO. SLM120 DATE 5-17-89

DEPTH	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
0-4	lumpy brown and grey SAND; A few shells
5-6	AS ABOVE
6-8	CLAY with sand; CLAY green
8-9	AS ABOVE
9-10	CLAY, SAND, and shells
10-15	shells with some CLAY AND SAND
15-22	AS ABOVE; shells bigger
22-24	shell, brown sand lumpy + CLAY
24-25	L.S. some CLAY + SAND
25-30	AS ABOVE; shells 28-30 FT
30-32	shells L.S. AND SAND, L.S. DECREASE
32-33	shells + SAND; ^{some L.S.} MOST PASS THROUGH STRAINER
33-35	AS ABOVE;
35-39	AS ABOVE
39-42	shell + SAND; shell increase with time to SAND
	KO
	Lost circulation in shell + L.S. ABOVE
42-52	Shell some sand + some clay L.S. increase with L.S.
52-53	Shell + L.S. bit chatter some SAND. SLOW DRILLING
53-55	hard L.S. bit chatter slow drill some SAND
55-57	AS ABOVE
57-62	shell with L.S. some clay AND SAND especially 60-61 FT.
	KO
62-64	shell, SAND, L.S.
64-69	AS ABOVE
69-76	shell, SAND, some L.S. more clay
76-75	CLAY + shell
75-78	AS ABOVE

WELL DRILLER'S LOG

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

PROJECT Helena Chemical WELL NO. SLM 120 DATE 5-17-85

DEPTH	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
0-4	Lumpy brown and grey sand and clay
5-6	AS ABOVE
6-9	Green clay with sand
9-10	clay, sand, and shell
10-15	shells; some clay and sand
15-22	AS ABOVE with bigger shells KD
22-24	shell, brown sand, lumpy clay
24-25	L.S.; some clay and sand
25-30	AS ABOVE; shell 28-30 FT
30-32	shells, L.S., and sand; L.S. decreases
32-39	shells, sand, some L.S.; most of sample passed through strainer
39-42	shells and sand; shells increase; sand decrease Lost circulation 30-42 KD
42-52	shell some sand, clay, and L.S.
52-53	shell and L.S. bit chatter; some sand slow drilling
53-57	hard L.S. bit chatter slow drilling
57-62	shell with L.S. some clay and sand 60-61 FT KD
62-64	Shell, sand, and L.S.
69-70	shell, sand, some L.S. and clay
70-78	clay and shell
78-81	clay and shell; more shell than above interval
81-82	clay and shell; more clay than above KD
82-88	clay, shell, and a little L.S.
88-89	AS ABOVE with more shell

