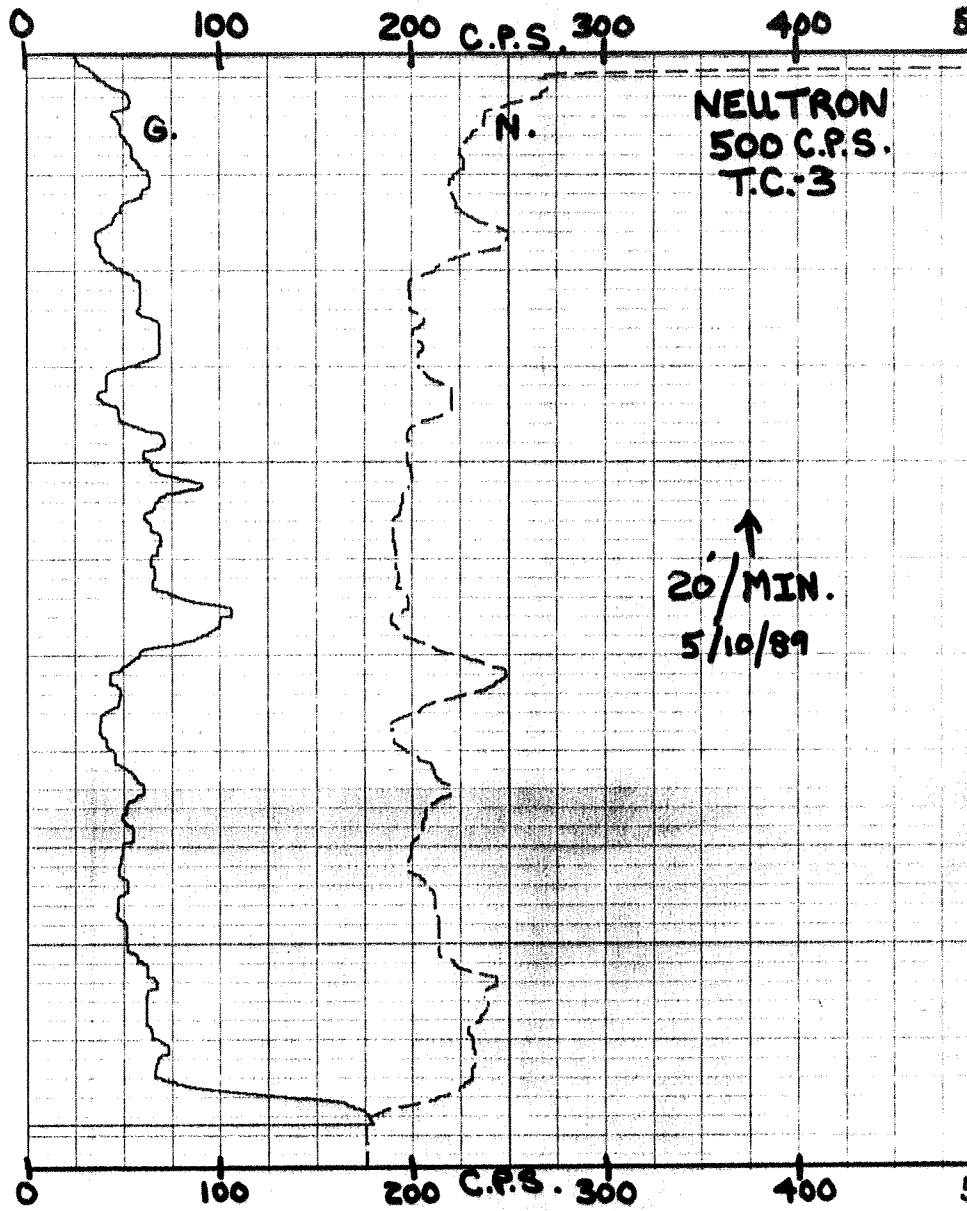


SLMW10D

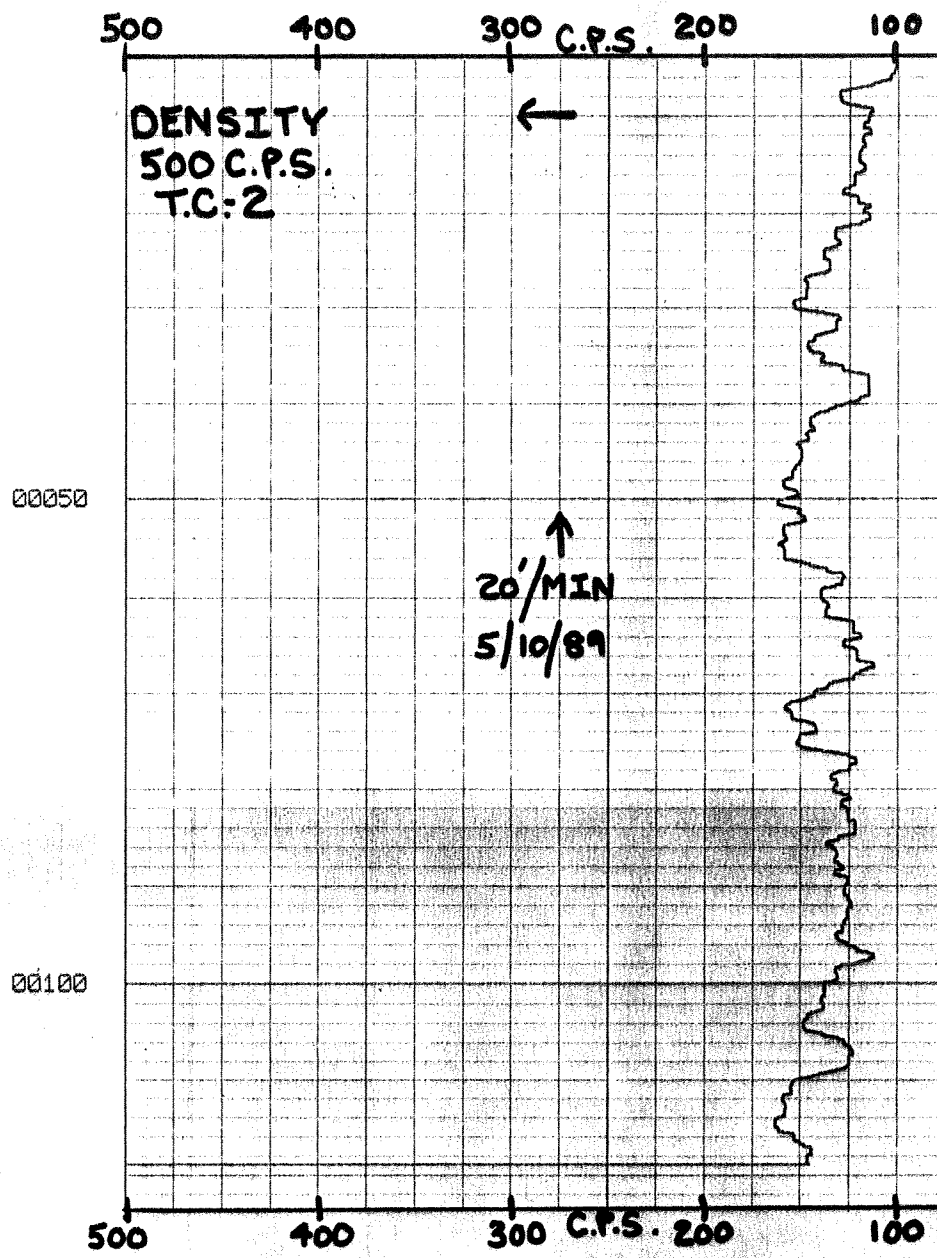
GAMMA
500 C.P.S.
T.C.-2

00050

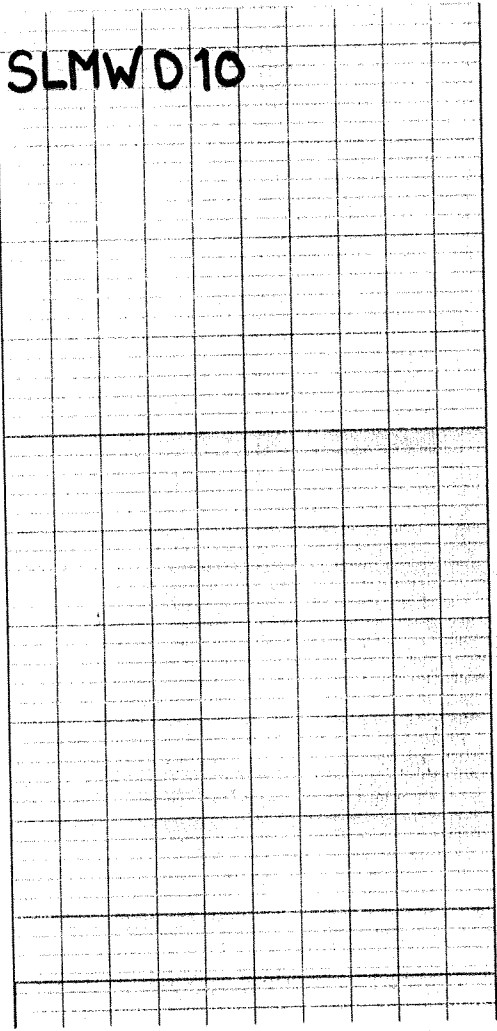
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SLMW10D

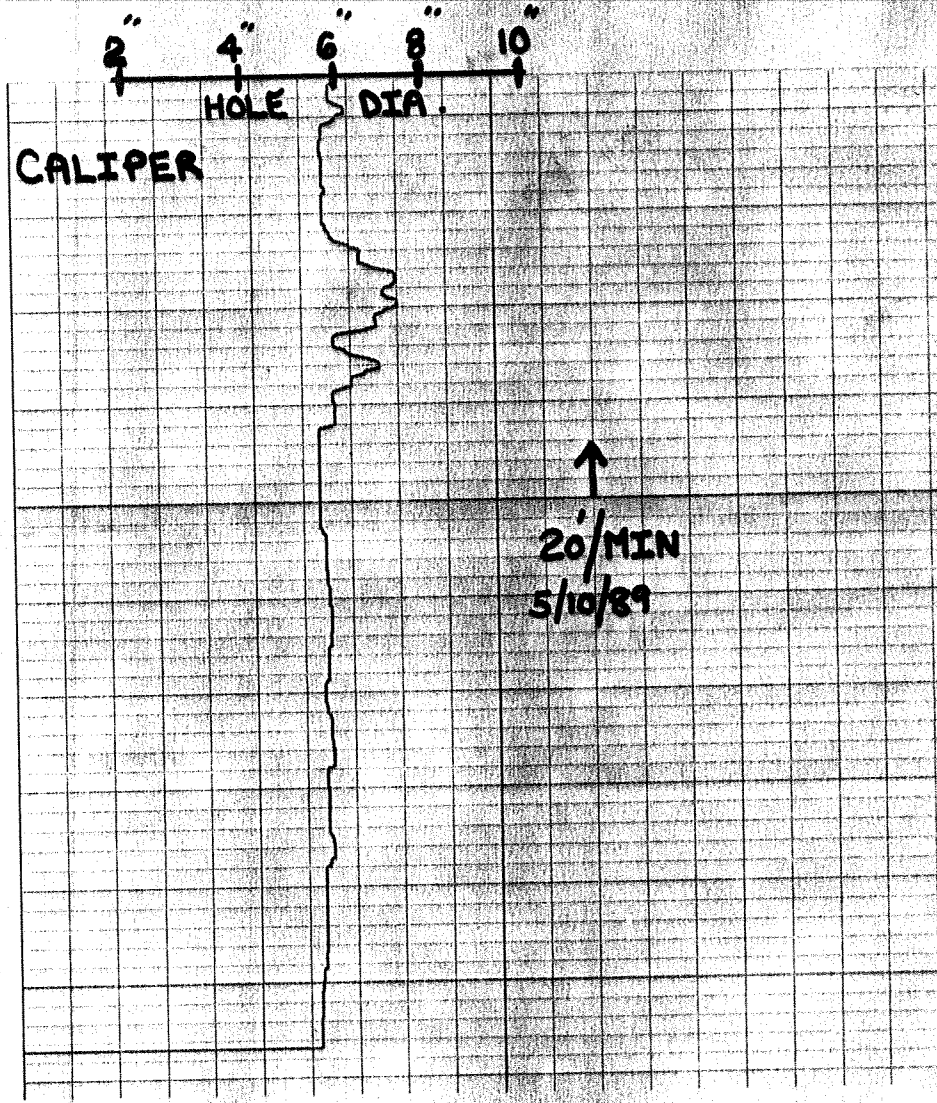


SLMW 010

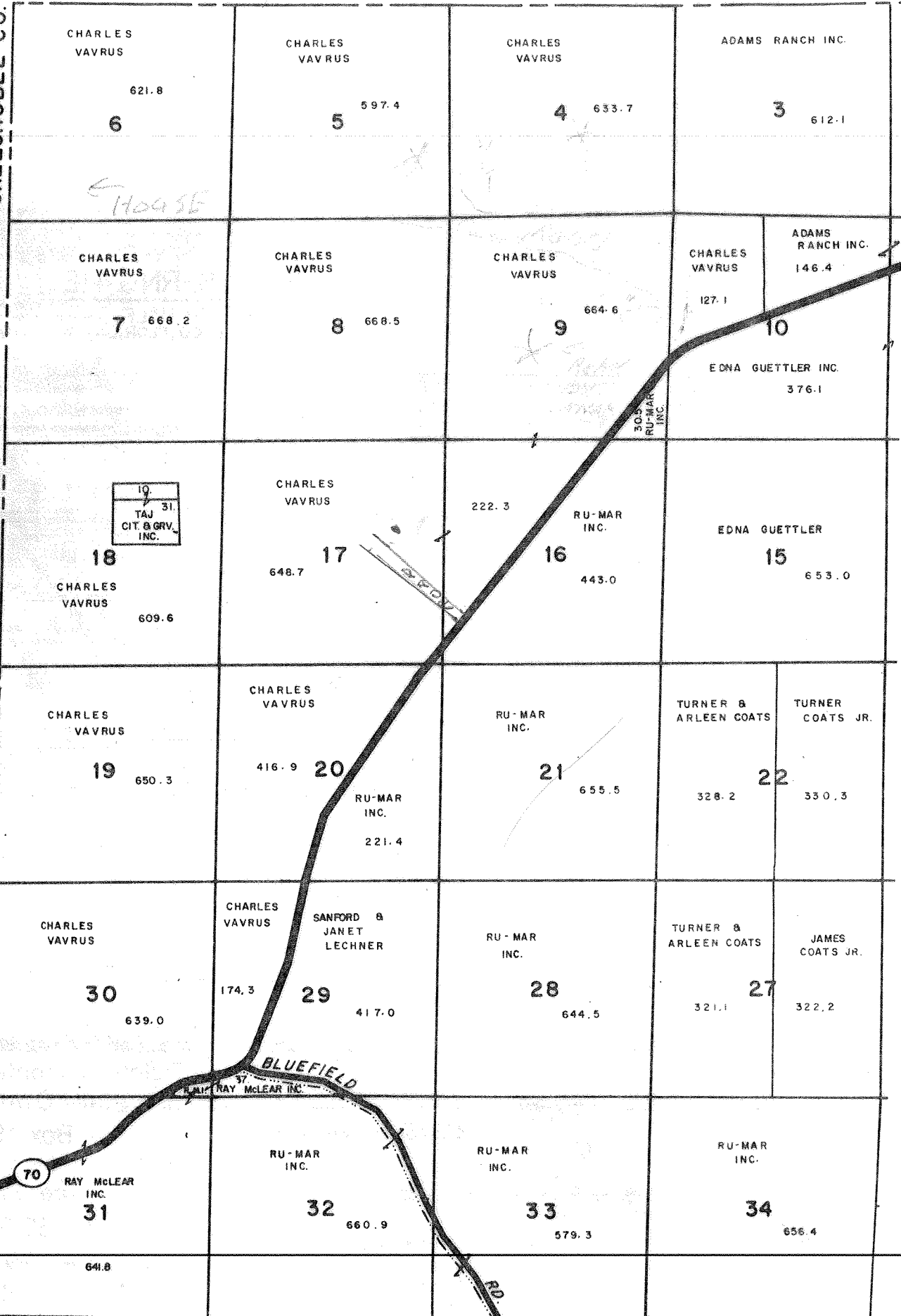


0050

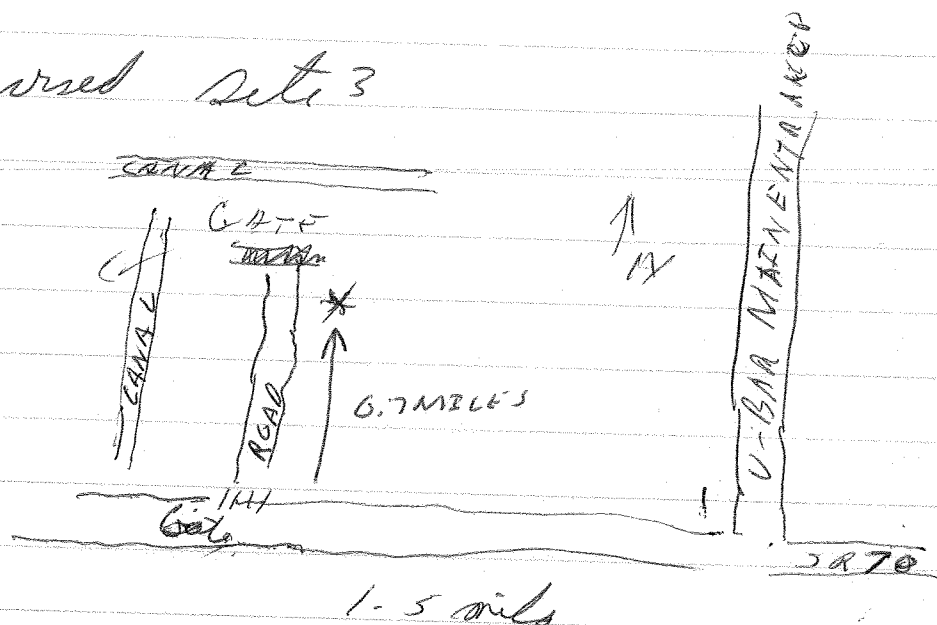
00100



KEECHOBEE CO.



Revised site 3



Canals with water near site
note ex dnts

Go 1.5 miles past main entrance
on SA 76. Gate may be locked.

Turn right and go in gate

Follow road for 0.7 miles. Note orange
stick

$$\begin{array}{r} 565.6 \\ - 564.9 \\ \hline 0.7 \end{array}$$

The shallow well is the southernmost
well.



South Florida Water Management District

P.O. Box 24680 • 3301 Gun Club Road • West Palm Beach, FL 33416-4680 • (407) 686-8800 • FL WATS 1-800-452-2045

April 4, 1989

Mr. Larry Kesner
P.O. Box 728
Fort Pierce, Florida 34954

Dear Mr. Kesner:

Please consider this letter to be a formal request to allow the South Florida Water Management District to utilize your property located in Township 36 South, Range 37 East for an aquifer performance test. The information we will gather from the performance of this test and subsequent monitoring of the wells 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 conduct an aquifer performance test and run a special type of geophysical well log. The Right of Entry / Well Construction Agreement: 1) allows the SFWMD to construct and monitor the wells at the location described; 2) conduct an aquifer performance test on the property; 3) insures the property and well site will be restored to the condition it was in immediately prior to the construction of the well; 4) 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 conduct an aquifer performance test on the property, the attached forms must be signed by an authorized representative from your office and returned to me. The forms will be countersigned by the appropriate District representatives and a copy will be sent to you for your records. In addition, please contact me so that we can set a mutually convenient time for a site visit.

Governing Board:

James F. Garner, Chairman - Fort Myers
Doran A. Jason, Vice Chairman - Key Biscayne

Arsenio Milian - Miami
Fritz Stein - Belle Glade

Ken Adams - West Palm Beach
Valerie Boyd - Naples

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

Mr. Larry Kesner
April 4, 1989
Page 2

I thank you in advance for your assistance in 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 a copy of the test results upon completion. Please contact me if you have any questions or concerns.

Sincerely,

David Butler

David Butler
Staff Hydrogeologist
Hydrogeology Division

DB/hm

Enclosures: Right of Entry / Well Construction Agreement

bc: R. Bower
S. Burns
D. Padgett
S. Trost
L. Wedderburn

RIGHT OF ENTRY AGREEMENT/WELL CONSTRUCTION

The SOUTH FLORIDA WATER MANAGEMENT DISTRICT and/or the U.S.C.S.
and the agents, employees or assigns of each,
(Permittees) are hereby granted the right to enter upon property owned by
Charles Vavrus (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:

*Township 36 South
Range 37 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.

Charles Vavrus
OWNER *manger*

Date: *2/6/89*

Executed by owner in presence of:

David Butte

COUNTERSIGNED BY PERMITTEE(s)

[Signature]
for SFWMD

Date: *4/7/89*

for

Date: _____

WELL COMPLETION REPORT

FORM 0124
Rev. 4/85

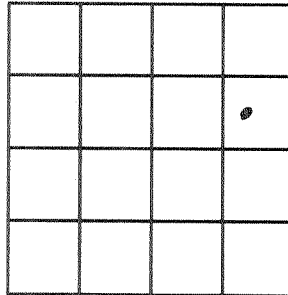
WELL PERMIT NO. _____

Owner Charles Vallus V BAR Ranch Ft. Pierce FL 34954
Address City State Zip
 Contractor's Name Walter Bruner License No. 2334 Completion Date 5-10-89 City 120 State 120 Zip 34954
License No. Completion Date City State Zip
 Driller's Name Antony Lubrano Registration No. _____
Driller's Name Registration No.

TYPE OF WORK: Construct Repair () Abandon ()
 WELL USE: Domestic Well () Public () Monitor Test ()
 Irrigation () Fire Well () Other _____
 METHOD: Rotary with MUD or Air (), Cable Tool (), Jet ()
 Casing Driven (), Other _____
 STATIC WATER LEVEL _____ Ft. below top of casing
 PUMPING WATER LEVEL _____ Ft. after _____ Hrs. at _____ GPM
 PUMP SIZE _____ H.P. CAPACITY _____ GPM
 PUMP TYPE _____ INTAKE DEPTH _____
From top of ground

LOCATION

Located Near 0.7 miles
NW OF ROAD GATE
 County _____
SE NE 17 36 37
Section Township Range
272047 803853
Latitude-Longitude



LOCATE IN SECTION

Cuttings sent to District? Yes
 () No

Note: PWS Wells attach a site map if well location is different from site location on permit application.

Grout	Casing & Screen	Depth (ft)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes Give color, grain size, and type of material Note cavities, depth to producing zones.
		From	To	
	2 70	0	70	CASING
	2 100	70	100	SCREEN
	2 120	100	120	CASING
Number of bags				

Casing: Black Steel () Galv. () PVC Fiberglass ()
 Screen: Type PVC Slot size 0.02
 Screened from 70 (ft.) to 100 (ft.)
 Type of grout with % additives _____
 Water: Clear () Colored () Sulphur () Salty () Iron ()
 Conductivity _____ Chlorides _____ mg/l

WELL COMPLETION REPORT

FORM 0124
Rev. 4/85

WELL PERMIT NO. _____

Owner Charles Vakkus Address V Bar Ranch City Ft. Pierce State FL Zip 34954
 Contractor's Name James Mc Dermott License No. _____ Completion Date 6/8/89 Casing Depth 25 Total Depth 35 Well # SLMVI05
 Driller's Name _____ Registration No. _____

TYPE OF WORK: Construct Repair () Abandon ()
 WELL USE: Domestic Well () Public () Monitor Test ()
 Irrigation () Fire Well () Other _____
 METHOD: Rotary with MUD or Air (), Cable Tool (), Jet ()
 Casing Driven (), Other _____

STATIC WATER LEVEL _____ Ft. below top of casing
 PUMPING WATER LEVEL _____ Ft. after _____ Hrs. at _____ GPM
 PUMP SIZE _____ H.P. CAPACITY _____ GPM
 PUMP TYPE _____ INTAKE DEPTH _____
From top of ground

LOCATION
 Located Near 0.7 miles N.W of Road Gate
 County St. Lucie
SE NE 17 36 37
1/4 1/4 Section Township Range

Latitude-Longitude

Cuttings sent to District? () Yes
 () No LOCATE IN SECTION
Note: PWS Wells attach a site map if well location is different from site location on permit application.

Grout	Casing & Screen	Depth (ft)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes Give color, grain size, and type of material Note cavities, depth to producing zones.
		From	To	
		<u>2</u>	<u>25</u>	<u>0</u> <u>25</u> <u>CASING</u>
		<u>2</u>	<u>35</u>	<u>25</u> <u>35</u> <u>SCREEN</u>
Number of bags				

Casing: Black Steel () Galv. () PVC Fiberglass ()
 Screen: Type PVC Slot size 0.02
 Screened from 25 (ft.) to 35 (ft.)
 Type of grout with % additives _____
 Water: Clear () Colored () Sulphur () Salty () Iron ()
 Conductivity _____ Chlorides _____ mg/l

Field Notes (Records)

ORM RP-59
July 1979

WELL DRILLER'S LOG

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

PROJECT VBAR RANCH WELL NO. SLMW 100 DATE 5-10-89

DEPTH	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
0-4 FT	SAND; NO SAMPLE
4-8 FT	SAND AND CLAY; CLAY INCREASED WITH DEPTH
8-10 FT	AS ABOVE
10-11 FT	White shell, SAND, AND CLAY
11-20 FT	SAND AND shell. (SAND goes to SANDER; NOT PICKED UP BY STRAINER)
20-22 FT	SHELL, SAND, AND CLAY; CLAY INCREASE KD
23-25 FT	SHELL AND SAND; CLAY DECREASE
25-30 FT	SHELL, SAND, AND CLAY; CLAY INCREASE
30-32 FT	AS ABOVE with some L.S.
32-35 FT	AS ABOVE but L.S. increasing
35-38 FT	SAND AND SHELL; LESS CLAY AND LS
38-39 FT	SAND AND SHELL; MORE CLAY AND LS.
39-42 FT	AS ABOVE KD
	DRILLERS MIXED MUD
42-44 FT	MOSTLY SHELL; SOME L.S. AND SAND BIT CHATTER 43-44 FT
45-46 FT	SHELL AND SAND; LESS L.S. AND CLAY
46-49 FT	AS ABOVE; DRILLING SLOW
49-51 FT	SHELL AND SAND; I BELIEVE SAND CONTENT INCREASES IN RELATION TO SHELL OVER THE INTERVAL FROM 43-51 FT. REASON: FEWER SHELLS CAUGHT IN STRAINER.
51-53 FT	SHELL AND SAND; INCREASE IN CLAY
53-55 FT	SHELL AND SAND; SHELL INCREASE WITH RESPECT TO SAND
55-57	AS ABOVE
57-60	AS ABOVE with INCREASE IN CLAY.
60-62	50% CLAY 50% SHELL KD

WELL DRILLER'S LOG

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

PROJECT _____ WELL NO. _____ DATE _____

DEPTH	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
71-75	L.S. & shell. Less clay; some sand
75-82	AS ABOVE 150
	Some lost circulation 71-82 FT.
87-83	Shell & L.S. AS ABOVE
83-85	Shell ^{mostly} with L.S. some clay some sand
85-87	AS ABOVE; drilling slow
87-90	AS ABOVE
90-93	AS ABOVE
93-95	AS ABOVE; clay increase
95-99	AS ABOVE; clay decreased
99-102	Shell 70-80% clay 30-30%
	KD
102-105	Shell & clay & sand
	shell 50% clay & sand 50%
105-108	limy clay with shell
108-111	limy mud with shell & L.S.
111-114	limy clay increase
114-117	pneumatic clay with shell
117-119	as above
119-122	as above
	SCREEN 70-100 FT PROPOSED

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

PROJECT _____ WELL NO. SLMW10D DATE 5/16/89

DEPTH	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
0-4 ft	sand no sump
4-8	sand and clay; clay more
8-10	as above
10-11	white shell + clay
11-20	SAND + shell; sand went to sand + L
20-22	SAND + shell; increase in clay; KD
23-25	shell + sand less clay
25-30	shell sand and clay; clay more
30-32	as above; no with soft L.S.
32-36	L.S. more, as above
35-38	shell + sand; less clay and L.S.
38-39	as above; more more in clay
39-42	as above
	KD sat 47 ft
	MIXED MUD
43-44	shell mostly with some L.S. + sand bit chatter 43-44 ft
45-46	shell + sand + less L.S. + clay
46-49	AS ABOVE; Drilling slow
49-51	shell + sand
	SAND CONTENT INCREASE SINCE fewer shells collected in samples from 43-51 ft
51-53	AS ABOVE; INCREASE IN CLAY
53-55	shell + sand shells increase ^{with increase} to sand
55-57	AS ABOVE
57-60	AS ABOVE with INCREASE CLAY
60-62	50% CLAY 50% shell. KG
63-64	as above
64-67	increase in shell 75% shell 25% clay
67-71	as above, but clay more L.S.