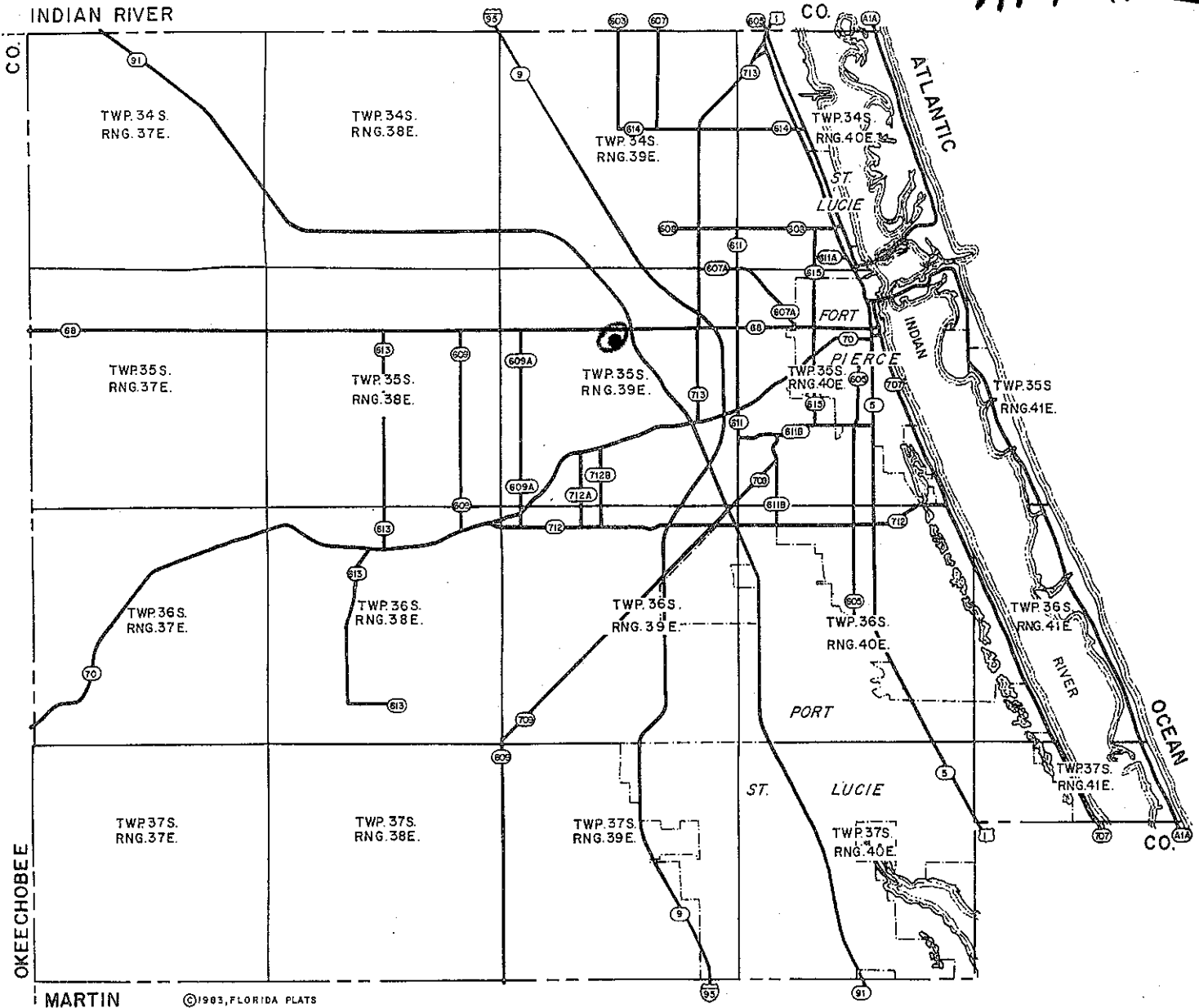


1988 ST. LUCIE CO. FLORIDA

APT #2



MARTIN ©1983, FLORIDA PLATS

This directory has been published as a county ownership reference guide. The data contained herein has been compiled from the official city, state, and county public records. Constant property sales and transfers make it impossible for us to guarantee 100% accuracy; errors and omissions are inevitable. If you should notice an error in the Index of Owners or on a map, we would appreciate it if you would mail the correction to us on the coupon provided.

NAME _____
 ADDRESS _____
 CITY _____ STATE _____ ZIP _____
 COUNTY _____ TWP. & RNG. _____
 SECTION _____ AMOUNT OF ACREAGE _____

Florida Plats

1213 Bowman Street
 Clermont, Florida 32711

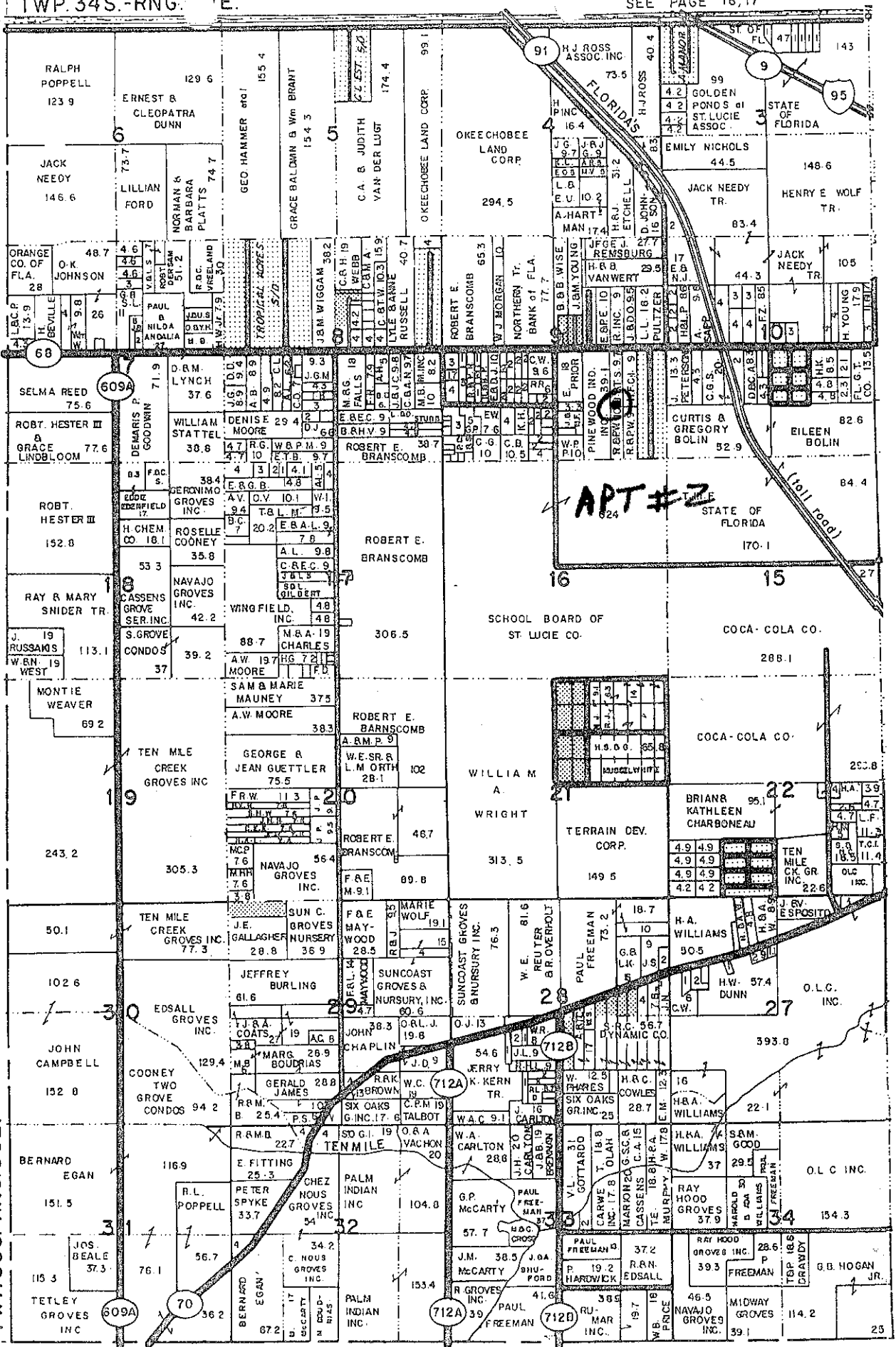
(904) 394-6363

We convey sincere thanks to your county officials for their participation. Your county plat directory has been made possible with their cooperation and support.

TWP. 35S.-RNG. 38E.

SEE PAGE 24, 25

TWP. 35S.-RNG. 38E.

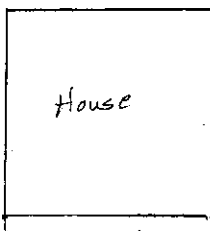
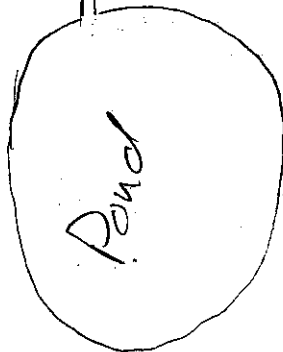


APT Site :

ORANGE AVENUE

10819

HARMOND
FRUIT



Driveway

gate →

← gate

← gate

Water supply well



RIGHT OF ENTRY AGREEMENT/WELL CONSTRUCTION

The SOUTH FLORIDA WATER MANAGEMENT DISTRICT and/or XXXXXXXXXXXXXXXXXXXXX
XX and the agents, employees or assigns of each,
(Permittees) are hereby granted the right to enter upon property owned by _____
John Wuchte (owner), and described herein, for the following purposes:

1. ~~XXXXXXXXXXXXXXXXXXXXX for the purpose of gathering lithologic data~~
2. ~~XXXXXXXXXXXXXXXXXXXXX drawdown test(s) to determine water~~
~~XXXXXXXXXXXX.~~
3. ~~XXXXXXXXXXXXXXXXXXXXX selected well(s).~~
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:

South half of ten (10) acres located at 10819 Orange Avenue, Ft. Pierce, FL.
SW 1/4 of the NW 1/4 of the SE 1/4 of Section 9, Township 35 south, Range 39 east, St. Lucie County, Florida.

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.

x John Wuchte
OWNER

Date: x 8-26-90

Executed by owner in presence of:

x Renee Roberts

x Victor Tapia

COUNTERSIGNED BY PERMITTEE(S)

[Signature]
for SFWMD

Date: 8/29/90

for _____

Date: _____

WELL COMPLETION REPORT

FORM 0124
Rev. 4/85

WELL PERMIT NO. _____

Owner SFWMD Address P.O. BOX 24680 City W.P.B. State FLA. Zip 33461
 License No. _____ Completion Date _____ Casing Depth 35' Total Depth 45' Well # STLAPT-2 5-#2

Contractor's Signature TONY LUBRALO License No. _____ Completion Date _____

Driller's Name Arthur Tassinari Registration No. _____

TYPE OF WORK: Construct (X) Repair () Abandon ()
 WELL USE: Domestic Well () Public () Monitor () Test (X)
 Irrigation () Fire Well () Other _____
 METHOD: Rotary with MUD (X) 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 ORANGE AVE.
and FLA. TURNPIKE
 County ST. LUCIE

SW NE SE 9 35S 39E
 1/4 1/4 Section Township Range
27° 26' 38" 80° 26' 07"
 Latitude-Longitude

			*

Cuttings sent to District? (X) 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	
	2" DIA.	0'		
	PVC			
	CSG			
		35'		
		35'		
	2" DIA.			
	.020			
	SLOT			
Number of bags	PVC			
	SCRN	45'		

Casing: Black Steel () Galv. () PVC (X) Fiberglass ()
 Screen: Type 2" PVC Slot size .020"
 Screened from 35' (ft.) to 45' (ft.)
 Type of grout with % additives _____
 Water: Clear () Colored () Sulphur () Salty () Iron ()
 Conductivity _____ Chlorides _____ mg/l

STL APT 2

3-1-89

D-4 + S4

Csg 0-90'
Screen 90-100'

Csg 0-35'
scr 35-45'

- 8 hrs Thurs 3/23 Site S1 set up rig
- 8 hrs Fri 3/24 rig pump went out 10 AM approx 40' hole
- 8 1/2 hrs Mon ^{3/27} Fri 3/27 rig pump pit 45' well in plus
repair hopper discharge feed
13 bags sand 2 bags hole plug 2 bags cement
- 10 hrs Tues 3/28 Site S2 14 bags sand 1 bag cement
Site S4 10 bags sand 2 bags hole plug
1 bag cement
- 9 hrs Wed 3/29 STL APT-2 7 bags sand,
1 bag hole plug, 1 bag cement

RIGHT OF ENTRY AGREEMENT/WELL CONSTRUCTION

The SOUTH FLORIDA WATER MANAGEMENT DISTRICT and/or XXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX and the agents, employees or assigns of each,
(Permittees) are hereby granted the right to enter upon property owned by _____
JAMES S. SPITERI (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:

South half of 10 acres at 10819 Orange Ave.,
Ft. Pierce, Florida

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.

James S. Spiteri
OWNER

Date: Jan. 17, 1989

Executed by owner in presence of:

Don G. J. Padgett
John Julawicz

COUNTERSIGNED BY PERMITTEE(S)

M. P. Spiteri
for SFWMD

Date: 1/18/89

_____ for

Date: _____

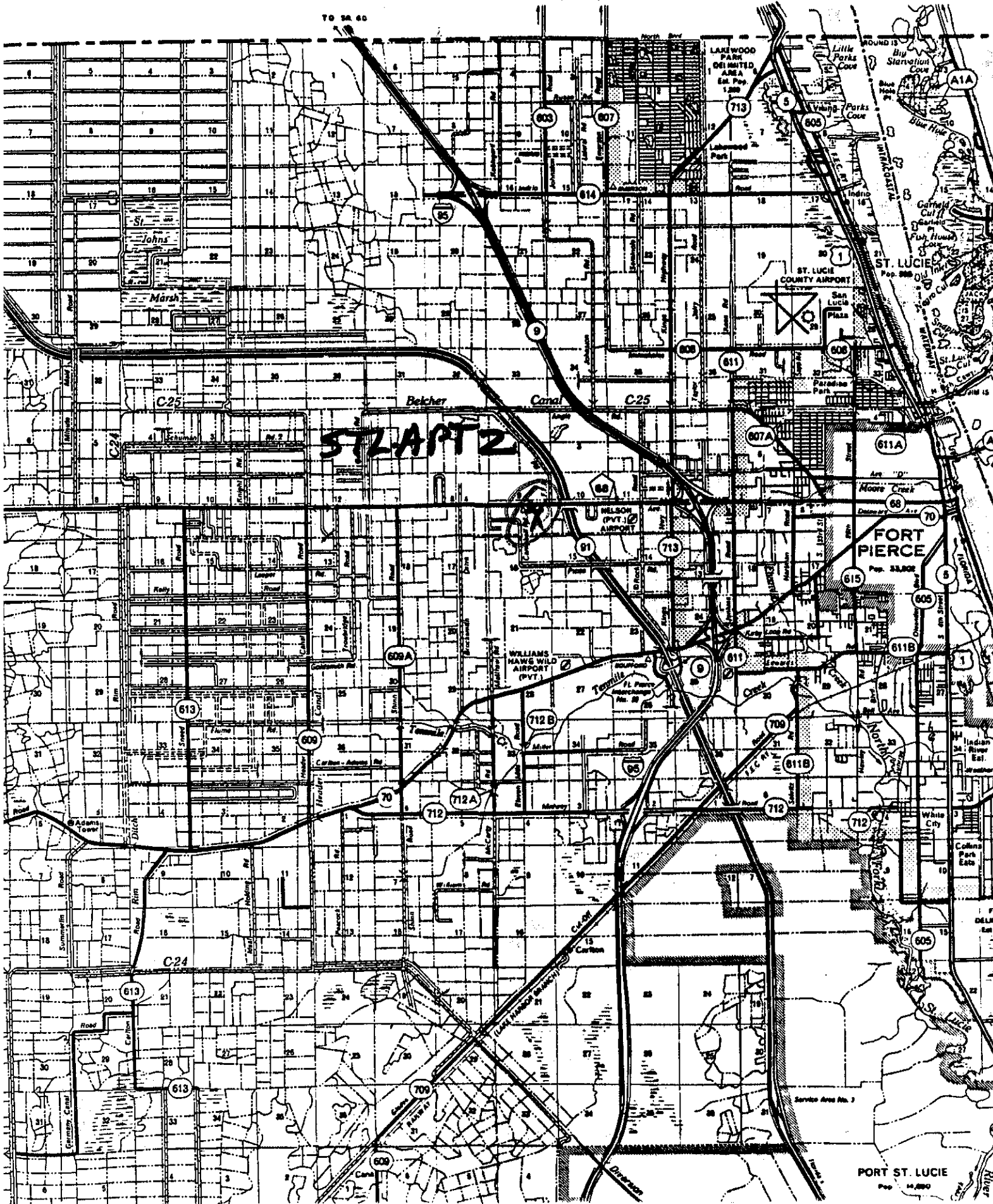
I A N R I V E R C O U N T Y

TO VERO BEACH

TO VERO BEACH

TO VERO BEACH

TO SR 40



ST. LUCIE

PORT ST. LUCIE
Pop. 14,800

WELL COMPLETION REPORT

FORM 0124
Rev. 4/85

WELL PERMIT NO. _____

SFWMD P.O. Box 24680 W.P.B. FLA. 33461
 Owner Address City State Zip

35' 45' STLAPT-2 5-X1
 Casing Depth Total Depth Well #

Contractor's Signature _____ License No. _____ Completion Date _____
TONY LUBRANO

Driller's Name _____ Registration No. _____
Arthur Tassinari

TYPE OF WORK: Construct () Repair (X) Abandon ()
 WELL USE: Domestic Well () Public () Monitor () Test (X)
 Irrigation () Fire Well () Other _____

METHOD: Rotary with MUD (X) 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 ORANGE AVE
and FLA. TURNPIKE
 County ST. LUCIE
 SW NE SE 9 35S 39E
1/4 1/4 Section Township Range
27°26'38" 80°26'07"
 Latitude-Longitude

			*

Cuttings sent to District? (X) 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	
			0'	
	2" DIA.			
	PVC.			
	CSG			
			35'	
			35'	
	2" DIA.			
	.020" Slot			
Number of bags	PVC			
	SCREEN		45'	

Casing: Black Steel () Galv. () PVC (X) Fiberglass ()
 Screen: Type 2" PVC Slot size .020
 Screened from 35 (ft.) to 45 (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 SFWMD Address P.O. Box 24680 City W.P.B. State FLA Zip 33461
 Contractor's Signature Arthur Tassinari License No. _____ Completion Date _____ Casing Depth 35' Total Depth 45' Well # STLAPT-25-4
 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 Orange Ave
+ Florida Turnpike
 County St Lucie

SW 1/4 NE SE 9 35S 39E
 Section Township Range
27° 26' 38" 80° 26' 09"
 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" Dia			
	PVC Csg			
		35'		
	2" Dia			
	PVC Screen			
	020 Slot			
		45'		
Number of bags				

Casing: Black Steel () Galv. () PVC Fiberglass ()
 Screen: Type PVC Slot size 020"
 Screened from 35' (ft.) to 45' (ft.)
 Type of grout with % additives Neat
 Water: Clear () Colored () Sulphur () Salty () Iron ()
 Conductivity _____ Chlorides _____ mg/l

WELL COMPLETION REPORT

FORM 0124
Rev. 4/85

WELL PERMIT NO. _____

Owner SFWMD Address P.O. BOX 24680 City W.P.B. State FLA. Zip 33461
 Contractor's Signature TONY LUBRANO License No. _____ Completion Date 3/2/89 Casing Depth 90' Total Depth 100' Well # STL APT-2 D-2
 Driller's Name _____ Registration No. _____

TYPE OF WORK: Construct (X) Repair () Abandon ()
 WELL USE: Domestic Well () Public () Monitor () Test (X)
 Irrigation () Fire Well () Other _____
 METHOD: Rotary with MUD (X) 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 ORANGE AVE
and FLA. TURNPIKE
 County ST. LUCIE
 SW NE SE 9 35S 39E
 1/4 1/4 Section Township Range
27° 26' 38" 80° 26' 07"
 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	
	0'			
	2" DIA.			
	PVC CS.			
	To 90'			
	90'			
	2" DIA			
	PVC			
	SCREEN			
	.020" SLOT			
	To 100'			
Number of bags				

Casing: Black Steel () Galv. () PVC (X) Fiberglass ()
 Screen: Type 2" PVC Slot size .020
 Screened from 90 (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 SFWMD Address P.O. Box 24680 City W.P.B. State FLA. Zip 33461
 Contractor's Signature TONY LUBRANO License No. _____ Completion Date 3/1/89 Casing Depth 90' Total Depth 100' Well # STLAPT-2 0-X1
 Driller's Name _____ Registration No. _____

TYPE OF WORK: Construct (X) Repair () Abandon ()
 WELL USE: Domestic Well () Public () Monitor () Test (X)
 Irrigation () Fire Well () Other _____
 METHOD: Rotary with MUD (X) 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 Orange Ave
and Fla Turnpike
 County St. Lucie

SW NE SE 9 355 39E
 1/4 1/4 Section Township Range
27°26'38" 80°26'07"
 Latitude-Longitude

			*

Cuttings sent to District? (X) 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	
			0'	
	2" DIA. PVC		90'	
	CSG		90'	
	2" DIA		100'	
	.020 SLOT		100'	
	Number of bags Screen		100'	

Casing: Black Steel () Galv. () PVC (X) Fiberglass ()
 Screen: Type 2" PVC Slot size .020"
 Screened from 90 (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 SFWMD Address P.O. Box 24680 City FL State 33641
 Contractor's Signature Tony Lubrano License No. _____ Completion Date 2/23/89 Casing Depth 70' Total Depth 137' Well # STLAP2PW-1
 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 Orange Ave
And Tarapike
 County St Lucie

SW NE SE 9 355 39E
 1/4 1/4 Section Township Range
27° 26' 38" 80° 26' 07"
 Latitude-Longitude

			X

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	
	0			
	6" Dia PVC Csg			
	70'			
	6" Dia PVC SCS			
	sbt			
	120			
				Logged 2/22/83
Number of bags				Station ID
			TD=137'	1110000058

Casing: Black Steel () ~~Galv~~ PVC Fiberglass ()
 Screen: Type 6" PVC Slot size _____
 Screened from 70' (ft.) to 120' (ft.)
 Type of grout with % additives Neat
 Water: Clear () Colored () Sulphur () Salty () Iron ()
 Conductivity _____ Chlorides _____ mg/l

WELL COMPLETION REPORT

FORM 0124
Rev. 4/85

WELL PERMIT NO. _____

Owner SFWMD Address P.O. BOX 24680 City W.P.B. State FLORIDA Zip 33461
 Contractor's Signature TONY LUBRANO License No. _____ Completion Date 1/31/89 Casing Depth _____ Total Depth 134' Well # STL APT-2 TW
 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 FLA. TURNPIKE AND ORANGE AVE
 County ST. LUCIE

35
 S NE SE 9 34S 39E
 1/4 1/4 Section Township Range
27° 26' 35" 80° 26' 09"
 Latitude-Longitude
36

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	
	6" DIA. PVC CSG.	0'	65'	P & A Logs Available STL APT2 TW STATION ID 111000057
Number of bags				

Casing: Black Steel () Galv. () PVC () Fiberglass ()
 Screen: Type _____ Slot size _____
 Screened from _____ (ft.) to _____ (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 SFWMD P.O. Box 24660 Address WPB FL City 33641 State Zip
 Contractor's Signature Tony Lubrano License No. 1-23-89 Completion Date 0-30-96 Casing Depth 100' Total Depth 100' Well # STLAPT-2 DP/D4
 Driller's Name _____ Registration No. _____ D-3

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 Orange Ave +
Fla Turnpike
 County St Lucie

SW NE SE 9 35S 39E
 1/4 1/4 Section Township Range

Latitude-Longitude _____

			X

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	
	0			
	2" Dia			
	PVC			
	80'			
	2" Dia			
	020 slot			
	PVC Screen			
	90'			
	2" Dia			
Number of bags	PVC Blank			
	100'			
				12 bags 20/30 sand

Casing: Black Steel () Galv. () PVC () Fiberglass ()
 Screen: Type 2" PVC Slot size 0.020
 Screened from 80' (ft.) to 90' (ft.)
 Type of grout with % additives Neat
 Water: Clear () Colored () Sulphur () Salty () Iron ()
 Conductivity _____ Chlorides _____ mg/l

WELL COMPLETION REPORT

FORM 0124
Rev. 4/85

WELL PERMIT NO. _____

Owner SFWMP Address P.O. Box 24680 City West Palm Beach State FL Zip 33681
 Contractor's Signature Tony Lubrano License No. _____ Completion Date 1/19/89 Casing Depth 0-80 Total Depth 90-140 Well # 143 SLAPT-2 D-4
 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 Orange Ave +
FL Tampa
 County St Lucie
 SW 1/4 NE 1/4 SE 9 35S 39E
 Section Township Range
27° 26' 38" 80° 26' 09"
 Latitude-Longitude

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 Diameter & Depth	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	
	0			
	2" dia			
	PVC			
	80'			
	30'			
	2" dia			
	PVC screen			
	0.020 slot			
	90'			
	2" dia PVC blank			
	140'			
Number of bags				
			143'	10 bags 20/30 sd

Casing: Black Steel () Galv. () PVC () Fiberglass ()

Screen: Type 2" PVC Slot size 0.020

Screened from 80' (ft.) to 90' (ft.)

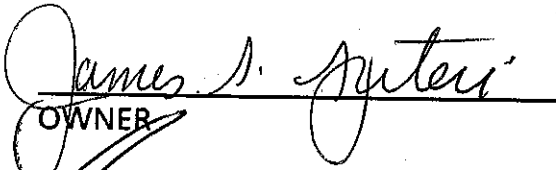
Type of grout with % additives _____

Water: Clear () Colored () Sulphur () Salty () Iron ()

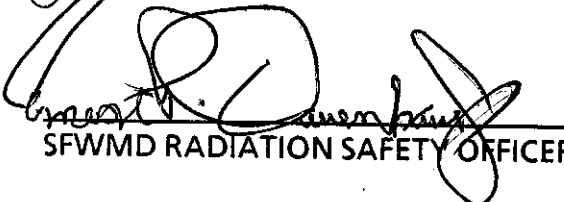
Conductivity _____ Chlorides _____ mg/l

**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

1-17-89
DATE


SFWMD RADIATION SAFETY OFFICER

1/18/89
DATE

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

(Samples taken with wire strainer)

PROJECT STL APT-2 WELL NO. D-~~X~~1 DATE 3-1-89

5 5/8" DA. TRICONE BIT : MUD ROTARY w/Bentonite ? EASY MUD POLYMER

DEPTH	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
0850	BEGIN DRILLING w/ 5 5/8" DIA. DRAG BIT ON KELLY
0852	0-2' DARK BROWN SAND 2-5' LT. BROWN SAND w/CLAY ? ORGANIC
0855	5-10' LT. BROWN SAND w/CLAY (GREENISH) ? ORGANIC MATERIAL
0857	10-15' AS ABOVE (DARK BROWN LAYER @ 10') } DESANDER ON
0859	15-20' BROWN SAND MIXED w/CLAY @ 20' LIMESTONE ? SHELL LAYER
0900	K.D. @ 22' AND CIRCULATING @ 22' BIOGENIC LS (70%) LT. GREY AND SHELLS (30%) (RECRYSTALLIZED). CIRCULATE TILL 0905
0905	ADD ROD #1 (D.P. w/STABILIZERS) T.S. = 47 } DESANDER OFF
0910	RESUME DRILLING AT 22'. 22'-25' LS/SHELL AS ABOVE
0912	25'-27' - SHELL ZONE
0914	27'-30' - BIOGENIC GREY LIMESTONE RESUMES.
0915	30'-33' SANDY, SHELLY LIME MUD (clay?)
0916	33-35' AS ABOVE WITH ANGULAR BIOGENIC LIMESTONE
0918	35'-39' SHELL HASH WITH SOME LIME MUD
0919	39-42' PURE SHELL LAYER (whole ? Broken) Chione, Olivella
0920	K.D. @ 42' CIRCULATING ? DESANDING
0925	ADD ROD #2 (20') T.S. = 47'
0930	42'-45' ~ 70% SHELL, 30% MED. GREY BIOGENIC LS.
0933	45'-50' LS. CONTENT INCREASES TO ~ 50/50 LS/shell -> (STROMBUS sp., CHIONE sp.) @ 47' - Black shell Hash layer
0940	50'-55' DARK GREY LS. CONTENT INCREASES, SHELL ? SOME LIME MUD.
0945	55'-61' AS ABOVE - WITH BIT BEGINNING TO CHATTER...
0950	K.D. @ 62' LOUD BIT CHATTER. HARD MOTTLED LS AND RECRYSTALLIZED SHELL. INCREASE RIG RPM'S
1000	ADD ROD #3 (20') T.S. = 87' RESUME DRILLING @ 1005 Am. CONFINING ZONE BET. 61'-64' (10 min total Drilling to penetrate)
1010	64'-66' CHATTER STOPS @ 64' DRK. GRY LS. w/ SOME SHELL
1012	66'-70' SHELL CONTENT INCREASES TO ~ 60% w/ 40% LIMESTONE
1015	70-75 ~ 80% LIME MUD WITH 20% BROKEN SHELL (75'-80' SAND)
1020	80-82' SHELL INCREASE TO ~ 40% 60% LIME MUD; KELLY DOWN
1025-30	CIRCULATE ? ADD ROD #4 (20') T.S. = 107'
1034	82'-85' - 70% LIME MUD, 30% SHELL
1038	85-90 MED. GREY LS. (20%) (-20%), LIME MUD ? SHELL (60%)
1042	90-95 AS ABOVE w/ SAND
1045	95-100 AS ABOVE SHELL, LIME MUD ? LS.
1100	K.D. @ 102'

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

(Samples taken with wire strainer)

PROJECT STL APT-2 WELL NO. D-2 DATE 3-2-89

5 5/8" DIA. TRICONE BIT : MUD ROTARY w/ BENTONITE & POLYMER EASY MUD

DEPTH	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
0910	BEGIN DRILLING WITH 5 5/8" DIA. DRAG BIT ON KELLY
	0-1' : DARK BROWN SAND & PLANT ROOTS
0911	1-5' LT. BROWN-BROWN QZ SAND WITH GREENISH CLAY.
0912	5-10' AS ABOVE. DARK BROWN LAYER @ ~ 8'
0913	10-15' LT. BROWN QZ SAND, CLAY & PLANT ROOTS
0915	15-20' AS ABOVE. DARK LAYER @ ~ 18' WHITE LIMESTONE RETURNS @
0918	20-22' WHT. LS. & SHELL. K.D. @ 22'
0920	ADD ROD # 1 (20' w/STABILIZERS) CHANGE TO 5 5/8" TRICONE BIT
0923	22-25' WHT-LT. GREY LIMESTONE (LS.) WITH SMALL WHOLE SHELLS
0927	25-30' MOTTLED LT. GREY BIOGENIC LIMESTONE
0929	30-33' AS ABOVE WITH CHUNKS OF SHELL; TAKING SOME WATER
0933	33-35' MOTTLED LT. GREY BIO. LS ADMIXED WITH SHELL & FINE LIME MUD
0935	35-40' LIMESTONE AND SHELL HASH; SHELL LAYER @ 40'
0940	40-42' SHELL: WHOLE/BROKEN / Chione, gastropoda / Olivella, K.D @ 42' (CIRCULATING)
0945	ADD ROD # 2 (20') T.S. = 47'
0947	42-45' YELLOW SHELL HASH
0950	45-50' DK. BRN-BLACK SHELL LAYER (REDUCING ENVIRONMENT)
0953	50-55' YELLOW SHELL HASH (SOME BLACK SHELLS FROM ABOVE)
0955	55-57' GREEN TO GRAY LIMESTONE AND SHELLS (WHOLE & FINELY BROKEN)
1000	57-60' AS ABOVE WITH VERMICULARIA SP. (COILED GAST.)
1001	K.D. @ 62' 60-62' YELLOW SHELL HASH w/ MANY UNBROKEN... LARGER &
1004-07	CIRCULATING & BRINGING UP GREEN GRAY LS. (HARD) & RECRYSTALLIZED SHELL CHUNKS (NO BIT CHATTER...) → ADD ROD # 3 (20') T.S. = 87'
1012-1016	@ 63' BIT CHATTER; 63-65' HARD, CONFINING ZONE AS ABOVE
1020	65-70' SHELL HASH WITH MOTTLED GREY-WHT LIMESTONE
1025	70-75' AS ABOVE WITH SHOWINGS OF LIME MUD.
1027	75-80' ~ 60% LIME MUD / 40% SHELL HASH
1030	K.D. @ 82' ADD ROD # 4 (20') T.S. = 107'; RESUME DRILL. @ 103'
1038	80-85' ~ 60/40 LIME MUD & SHELL FAST DRILLING
1040	85-90' PREDOMINATELY SHELL HASH, SOME LIME MUD.
1043	90-95' ~ 50/50 LIME MUD & SHELL.
1047	@ ~ 97' ENCOUNTER LIMESTONE WITH SHELL
1050	97-100' GRN-GREY LIMESTONE WITH SHELL

1053 K.D. @ 102' - CIRCULATING; PREPARE TO SET SCREEN

2" CASING 0-90'

(* NOTE: DESANDER DAN THROUGHOUT EXCEPT END DRILL ROD) SCREEN 90-100'

PROJECT STL-APT 2 WELL NO. CORE #1 DATE 10/9/89 MON.

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TIME	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
1300	B.B. ON SITE - DRILLERS HAVE ALREADY PULLED OUT 20' TEMPORARY 4" CSG. AND DRILLED / CIRCULATED TO 20' DEPTH.
1315	MIXING AQUAGEL & EASY MUD.
1340	TRIPPING IN 2' SPLIT SPOON BARREL
1400	20-22' → 65% RECOVERY NOTED COLOR BREAK. (18'-20' WAS MED. GRAINED MED-DK. BRN QTZ SAND.) 1ST 1/2 FT. OF SPLIT SPOON MISSING. †: 20.5'-20.75' MED. GREY SHELLY SANDY LIMESTONE; 20.75-21' BRN GREY SANDY LS.; 21-22' SAME AS 20.5-20.75 INTERVAL (WITH A COARSE SHELL LAYER @ 21.5')
1420	22-24' → 100% : 22-23.5 LT. GREY-MED GREY SHELLY SANDY (MED-COARSE) LIMESTONE; COLOR BREAK @ 23.5 TO MED-DK. GREY SAND & YELLOW SHELL HASH (WELL MIXED).
1440	24-26' → 100% : MED GREY SAND WELL MIXED WITH FINE-COARSE YELLOW SHELL HASH. OYSTER (OSTREA SP) @ 24' AND OCCASIONAL CHUNKS OF GREY LS.
1445	26-28' → 100% : 26-26.75' MED-COARSE LT. GREY SAND & SHELL HASH; 26.75'-28' MED. GREY SAND MIXED WITH FINE SHELL AS ABOVE (SOME SILTY CLAY)
1450	28-30' → 100% : 28-29.5' AS ABOVE; 29.5-30'
1500	30-32' → 100% : 30-31' AS ABOVE; 31-32' → HIT CREAM COLORED CHUNKY LS. & SAND @ 31.5-32' SHELL LAYER @ 31.4-31.5'
1515	TRIP OUT SPLIT SPOON AND RUN BACK IN WITH 4" BIT. CIRCULATING / CLEANING HOLE
1600	TRIP OUT BIT AND RESUME SPLIT SPOON SAMPLING
1615	32-34 → 75% : 32-33' WHIT-LT. GREY LS. & SHELL HASH 33-34' LT. GREY SHELLY SAND W/ LS. : (COARSE 1" SHELL LAYER AT 33' (YELLOW))
1635	34-36 → 100% : 34-34.75' LT GREY SANDY, SHELLY LS. W/ COARSE SHELL FRAGS. : 34.75-36' MED GREY SANDY SHELLY SAND W/ CHUNKS OF SHELLY LS.

PROJECT STL-APT 2 WELL NO. CORE #1 DATE 10/10/89 Tues.

TIME	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
0800	CONTINUING TO CIRCULATE AND DESAND @ 40'
0830	PREPARE TO SPLIT SPOON THRU POORLY CONSOLIDATED SMELLY INTERVAL ~ (40'-53'). DESANDER STREAM LOADED WITH FINE SHELL HASH & SAND.
0845	LOSING FLUID W/ DESANDER - MIXING BATCH OF EASY MUD TO FORTIFY EXISTING MUD.
0915	40-42' → 60% RECOVERY (TOP 9" MISSING) WHT. - MED. GREY POORLY ^{TO MED. WELL} CEMENTED LIMESTONE WITH LARGE CHUNKS OF BROKEN YELLOW ORANGE SHELL → 40-41.5') : 41.5-41.9 PALE YELLOW ORANGE SAND, SHELL & FINE LS. PIECES; LAST INCH 41.9-42 IS HARD, MED. GREY SOLUTIONED LIMESTONE.
0930	TOOK 50+ BLOWS TO TRAVEL 43-44', HAVE TRIPPED OUT AND WILL BEGIN CORING @ 44', AFTER CLEANING OUT HOLE WITH 4" BIT. 42-44' → 60% RECOVERY. CLASSIC STORM PRODUCED FINING UPWARD SEQUENCE 43.75' - 43' → ORANGE- YELLOW SHELL LAG DEPOSIT @ BASE (43.75') GRADING INTO MED. TO FINE, MED. GREY Q12 SAND & SILT (43.6-43'), COARSE LS SHELL, SAND & SILT FROM 43-42'. @ 43.75-44- ^{MED. GREY Q} SAND W/ SILT.
1000	TRIPPING OUT 4" DRAG BIT & RUNNING CORE BARREL DOWN HOLE TO BEGIN CORE @ 44'.
1020	START CORE #1 ~ 120 RPM'S
1022	STOP CORING. 2' (44-46') IN TWO MINUTES.
#1	(40%) RECOVERY MED-DRK. GREY SAND @ BASE TOPPED BY WHOLE & LARGE SHELL CHUNKS & PIECES OF WHT-MED. GREY HARD LS.
1045	START CORING (46-48')
#2	1048 STOP CORE RUN #2 (2' in 3 min.) 1' RECOVERED (50%) DK. GREY SAND & SILT. W/ FINE TO COARSE SHELL THROUGHOUT.
1100	CHANGING CORE CATCHER IN BARREL (WORN SMOOTH @ BOTTOM) TO A NEW ONE OF THE SAME TYPE.
1120	START CORE RUN #3 48-50' (w/ MUD PUMP PRESS SCALED WAY BACK.)
#3	1123 STOP CORING. 20" OF 24" RECOVERED → (83%) MED-DRK GREY SAND & SILT w/ FINELY BROKEN SHELL.

PROJECT SFL APT 2 WELL NO. CORE #1 DATE 10/10/89

TIME	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
1140	TRIPPED BACK IN W/ CORE BARREL. HAVE ~ 1 TO 1 1/2 FT. OF FILL IN BOTTOM OF HOLE @ 50'.
#4 1150	START CORE RUN # 4 (50-55')
1200	STOP → 5' in 9 minutes 3' recovered (60%)
	LT GRN - MED GREY SILTY SAND, CLAY & SHELL. SHELL ZONE @ 51'. ... MIXING MUD. TOOK ~ 100 gals OF FLUID.
1250	TRIPPING BACK IN FOR CORE RUN # 5
1310	START CORE RUN # 5 (55-60') 1 ST FOOT IN 10 SECONDS.
#5 1320	UNABLE TO CORE PAST 58.5' (CORE RUN STOPPED) DUE TO PRESSURE INCREASE ON FLUID GAUGE AND LACK OF DOWN HOLE PROGRESS. TRIP OUT TO HAVE A LOOK.
1340	55-58.5' → (100% RECOVERY) + ~ 1 EXTRA FOOT FROM BOTTOM OF RUN # 4. CHALKY WHIT LS. & SHELL 58.5-~ 55 / TRANSITION TO MED GREY SILTY, SHELLY SAND
#6 1355	START RUN # 6 @ 58.5.
1425	STOP → E.T. = 30 min FOR 2.5' CORE 58.5-61' 2' OF 2.5' RECOVERED (80%) MOTTLED GRAY BIOMICRITE (59-61' (WELL CEMENTED) WITH WHOLE/BROKEN SHELL @ TOP.
#7 1450	START RUN # 7. (NOTING A LOT OF STRING WOBBLE IN THE HOLE. AFTER LAST RUN, CORE BARREL EXTERIOR WELL POLISHED.)
1500	STOP RUN # 7 61-66' (LAST 1/2' CORED IN < 1 min.) RECOVERED 2' OF 5' (40%) HARD MOTTLED GRAY BIOMICRITE UNDERLAIN BY GRAY SILTY SAND. ABRUPT CONTACT BETWEEN SOLID BIOMICRITE & SAND RESULTED IN A SUDDEN PRESSURE DROP 150 PSI IN ROCK TO 0 IN SAND. DRILLER WAS UNABLE TO BACK OFF ON MUD PUMP PRESSURE AND WE LOST LOWER PORTION OF CORE (BLEW IT OUT)
1515	DIAMOND BIT SHOWS 1 DIAMOND MISSING & 2 CHIPPED.
#8 1535	START CORE # 8 WASHED DOWN 1 ST 1/2 FEET BEFORE PICKING UP DOWN HOLE PRESSURE. WILL GO FOR A 7 1/2 FT. RUN → 66-73.5'
1542	STOP RUN # 8 7.5 FT IN 7 MIN (FAST CORING) MINIMAL MUD PUMP PRESSURE 3' RECOVERED OF 7.5' (40%) RECOVERY

PROJECT STL-APT 2 WELL NO. CORE # 1 DATE 10/11/89 wed.

TIME	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
0745	ATTEMPTED TO CIRCULATE W/ 4" BIT DOWN HOLE -
	PLUGGED OFF OVERNIGHT - TRIPPING OUT.
0830	UNPLUGGED - MIXING POLYMER & CIRCULATING.
0845	RUN IN CORE BARREL FOR CORE RUN #9. DESPITE A
	CLEAN PASS DOWN HOLE TO 73' WITH 4" NOMINAL DIA DRAG
	BIT (3 7/8" o.d.), BARREL WILL NOT RUN PAST 63' - HARD
	BIMICRITE LAYER WHERE THE CASING SITS.
0900	TRIP OUT BARREL & IN WITH NEWER 4" DRAG BIT TO
	TRY AND OPEN THINGS UP A BIT.
0930	BARREL GOES DOWN HOLE OK!
1010	START CORE RUN #9 73.5-79'
#9 1020	STOP → 5.5' in 10 min 38" recovered of 66" cored
	57.6% = 58% <small>PREDOMINATELY</small> LIME MUD W/ SAND AND FINE SHELL
1045	WASHING CORE BARREL DOWN & MIXING MUD (AQUAGEL).
#10 1120	START CORE # 10 @ 79'
1128	STOP RUN → 4.5' in 8 mins. (Good returns fine sand, mud & shell)
	Sandy, med grey lime mud with SHELL BED @ 83'-83.5'.
1200	CORE RUN # 11 START GOOD RETURNS - TRYING TO RUN MUD
	PUMP @ VERY LOW FLOW (& INTERMITTENT ON/OFF USE) WITH
	MUD PUMP COMPLETELY OFF FOR LAST FOOT TO MAXIMIZE CHANCES
11	OF CORE CAPTURE.
1212	STOP CORING 83.5'-88' : 12 minutes for 4.5' core
1230	4' OF 4.5 RECOVERED 89% <small>MOSTLY</small> SANDY LIME MUD W/ BROKEN SHELL
1245	START CORE RUN #12 @ 88' - BOTTOM PRESS. @ ~65 PSI @ START.
#12 1255	STOP CORE → 6' CORE in 10 mins. mud pump off for last 1/2 ft.
1315	85% RECOVERY (5' of 6' cored) <small>MED. GREY</small> SANDY LIME MUD WITH
	SHELL AND LIMESTONE.
1320	TRIP IN BARREL TO CORE @ 94'.
1330	START CORE RUN # 13 1 ST FOUR FEET IN 20 SECONDS!
#13 1333	STOP CORING → 94-100' NO RETURNS - BARREL PLUGGED OFF.
1345	0% RECOVERY
1350	GOING BACK IN W/ 4" BIT TO CLEAN OUT THE BOTTOM
	OF THE HOLE TO 100'

SOUTH FLORIDA WATER MANAGE

DISTRICT

PROJECT STL-APT 2WELL NO. CORE #1DATE 10/12/89

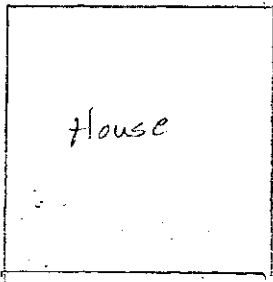
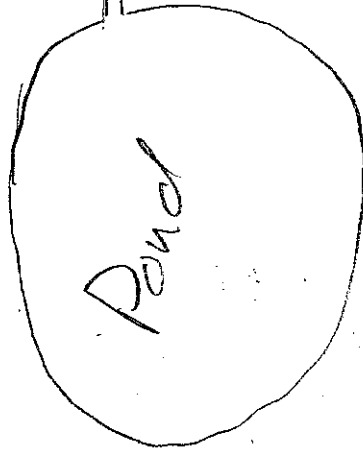
TIME	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
0735	BACK FROM PHONE CALL... DRILLER TAGGED SAND BRIDGE AT 84' AND WASHED THRU W/ 4" BIT. : (BRIDGE - 84-89'
0810	BIT PLUGS OF @ 100' - HAVE TO TRIP OUT.
0825	TRIP BACK IN - BIT PLUGS OFF AGAIN - TRIP OUT OF HOLE IS DIFFICULT... CATLINE CONTINUES TO SMOKE WITH HARD PULLING THRU SANDS BELOW CASING DEPTH
0835	BIT CLEANED. 70' OF PIPE TRIPPED INTO HOLE. DRILLING SLOWLY TOWARD SAND BRIDGE @ 84'. DESANDER ON... LOTS OF DARK GREY SILTY SAND COMING UP IN RETURNS.
0930	FINALLY... BACK ON BOTTOM @ 116 - CIRCULATING.
1000	RUNNING IN W/ CORE BARREL FOR RUN #17.
#17 1010	START CORING @ 116 1 ST FOOT in 1 min.
1030	STOP CORING 116-124' 8 FT in 20 min.
	RECOVERED ~ 70% 5'5" OF 8' WHT-GRAY SHELLY SANDY LIMESTONE WITH 1 ST TINGES OF GREEN CLAY @ 124'.
1100	TRIPPING IN FOR ANOTHER RUN
#18 1105	CORE BARREL ON BOTTOM @ 116 - WASHING DOWN TO 124'
1125	START RUN #18 124-128'
1130	STOP → 4' in 5 min. TRIP OUT → FELT GOOD "BREAK" OFF BOTTOM, HOWEVER, STRING IS DRY....
1145	~ 50% RECOVERY → GOT THE TRANSITION ZONE TO THE HAWTHORN GROUP WHT SHELLY SAND → SANDY GREEN CLAY
1230	OFF SITE

APT Site 2

ORANGE AVENUE

10819

HARMONY
FRUIT



Art Driveway

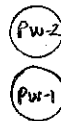
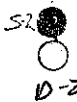
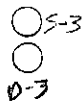
gate →

← gate

← gate

Proposed
core hole location
I will stake it
prior to
mobilization

≈ 150'



Hermit

Sample bag
from this
well

Casing 0-35
screen 35'-45'

SAMPLES COLLECTED
W/ WIRE BASKET

WELL DRILLER

PJA

①

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

PROJECT: STL

WELL NO. APT-2 TW

DATE 1-30-89

Monday
80°F Sun

DIG MUD PIT W/ BACKHOLE - USING BENTONITE, EASY MUD POLYMER

0
split
5' spoon
20'
split
20'
40'
preferable
3'
Cave
6'
preferable

TIME	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
1212	BEGIN PILOT HOLE DRILLING WITH 5 5/8" DIAMETER
	DRAG BIT (TO PENETRATE ROOTS/ORGANICS FOR THE 1ST KELLY)
1213	0-5' FINE SAND, CLAY
1214	5-10 ORGANICS AND SANDY CLAY
1215	10-20 NO SAMPLES (LT. BLUE SANDY CLAY/BRN. SAND/W/ORGANICS)
1216	20-22 SANDY LIMESTONE & SHELL. KD @ 22'; CIRCULATING
1222	SWITCH BITS TO TRICONE → 5 5/8" DIAMETER. ADD ROD #1 WITH STABILIZERS. TS = 47'
1224	22-25' SANDY LIMESTONE WITH SHELL
1225	25-30' LT. GREY CHUNKY LIMESTONE W/ SOME WHOLE SHELS
1227	30-35' MED. GREY LIMESTONE W/ FINE SHELL & GREY CLAY
1232	35-40' LIMESTONE W/ LOTS OF SHELL
1238	40-42 SHELL ZONE (~38' 1ST APPEARANCE OF SHELL.)
1243	K.D @ 42'. ADD ROD #2 (20') TS = 67'
1246	42-45' - SHELL ZONE
1248	45-48' - SHELL COLOR DARKENS - MOSTLY SHELL W/ SOME LS.
1252	48-50' - FINE SHELL HASH. DESANDING - DESANDER
	TAKING WATER - ADDING WATER TO MUD PIT. PULL UP STRING TO ~30'. MIXING MUD; CIRCULATE...
1255	50-53' - YELLOW SHELL HASH
1300	53-58' GREY LIMESTONE, SHELL & LIME MUD
1308	58-62' AS ABOVE
1315	@ 62' - LOUD BIT CHATTER; HARD, DARK GREY LIMESTONE W/ SOME RECRYSTALLIZED SHELL. K.D @ 6'
1325	AFTER CIRCULATING, ADD ROD #3 (20') T.S. 87'
1330	INCREASE RPM'S; LOTS OF GRINDING & CHATTER → 13'
1340	62-65' - DARK GREY - BLACK LIMESTONE (MOTTLED) WITH SOME SHELL.
1345	65-69' - SPECKLED BLK. LS & GREY, SANDY LS, SHELL
1348	@ 70' LOTS OF LIME MUD (CLAY?), GREY LS., YELLOW SHELL & SAND
1355	69-74' AS ABOVE ↑
1400	74-80' PREDOMINATELY LIME MUD; MINOR SHELL & LS.
1403	KD @ 82' 80-82' LIME MUD, CLAY W/ PALE YELLOW SHELL

FAST DRILLING!

PALE YELLOW & SANDY LIME MUD SHELL

SAMPLES COLLECTED
W/ WIRE BASKET

PROJECT STL

WELL NO. APT-2

DATE 1-30-89

5 5/8" DIA. TRICONE BIT BENTONITE MUD & EASY MUD POLYMER

TIME	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
1410	ADD ROD #4 (20') @ 82'; TS = 107'
1413	82-85 LIME MUD, CLAY, SHELL
1415	@ 85' BIT CHATTER (LIMESTONE & SHELL)
1421	85-90' ~ 85% SHELL, 15% MUD
1430	90-95' LIME MUD CONTENT INCREASES (> 50% MUD... WITH LIMESTONE AND SHELL
1445	95-100' - WHITE & GREY LIMESTONE, LIME MUD AND WHITE RECRYSTALLIZED SHELL (MUD % <)
1447	KD @ 102'; CIRCULATING
1450	ADD ROD #5 (20') TS = 127'
1455	RESUME DRILLING; 100-105' - GREY/WHT. LIMESTONE, SHELL AND LIME MUD.
1457'	BIT CHATTER @ 104' (> RPM ³): GREY, HARD LS.
1508	105-110' - GREY LIMESTONE AND SHELL
1512	110-115' - AS ABOVE W/ SOME OYSTER SHELL
1516	115-120' - AS ABOVE
1522	KD @ 122' ADD ROD #6 (20') TS = 147'
1535	120-125 LIMESTONE LAYER AND ONSET OF GREEN CLAY.
1540	125-130 LS AND INCREASING AMT. OF GREEN CLAY
1550	130-134' T.D. @ 134' DRILL STRING IS WELL INTO HAWTHORN GROUP. BEGIN TRIP OUT AND PREPARATION FOR LOGGING.

85'
Core probably best
125
Whatever works
140
140'

Grap
Samples
taken w/ wire
strainer

WELL DRILLER'S LOG

①

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

PROJECT SILAPT-2 WELL NO. PW-1 DATE 2/22/89

Mud Rotary 5 7/8" tricone rotary bit, bentonite mud w/ small amt of F2 mud polymer

TIME	DESCRIPTION -- ROCK TYPE, COLOR, HARDNESS, OTHER
0902	brown sand, moderately well cemented @ 2'-4'
	dark brown
	@ 4' light brown sd w/ clay
	@ 5' greenish grey sandy clay
	@ 8' dark brown sand, root + organic particles disseminated
	@ 13' brown sand; 13'-15' no sample, sand washes through strainer
	@ 18' grey sand w/ limestone and shell
	@ 20' sand, shell, clay and limestone, limestone + shell increasing to 20 22', shell fragments look eroded + slightly solutioned
0920	KD @ 22', circulating
0925	add (20') DP#1 w/ stabilizers, DS=47'
	22'-25' washing down w/ rapid drops in drill string
0930	@ 25' broken shell (small frag. w/ limestone)
	25'-27' limestone
0933	@ 29' as above
	@ 30' as above
	@ 31' sandy drilling gets soft; slight amount of clay in limestone
	@ 35' sandy limestone w/ some clay; grey to green
	@ 36' as above w/ shell fragments, slower drilling
	@ 38' limestone w/ shell, faster drilling, starting to rain
	@ 39' shell zone, some limestone
0942	KD @ 42' shell w/ trace of limestone
0943	add 20' DP#2; DS=67'
	@ 42' shell + sand, fm taking a little water
	@ 45' black shell fragments + sand, fm taking a little water, adding water to mud pit
	@ 49' as above, whole shell, frag. w/ sand
	@ 50' shell and sand as above, formation gets to softer

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

PROJECT STLAPT-2 WELL NO. PW-1 DATE 2/22/89

TIME	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
0958	@ 50 shell fragments getting smaller
0959	@ 53' shells, whole, w/ sand, trace of clay
1001	@ 55' clay in w/ shell and sand
	@ 56' more increasing limestone and clay, shell and sand still dominate
	@ 57' Limestone, clay shell and sand
	@ 58' less clay, more limestone, trace of shell
	@ 59' Limestone trace clay and shell
1009	@ 60' as above, slower drilling
1014	@ 61' as above
1015	KD @ 62' as above
1023	add 20' DP #3, DS=87', adding water to mud pit, mixing more mud.
1029	@ 62' Fm hard (bit chatter)
1037	@ 62.5' Fm hard (bit chatter), Limestone, biogenic, well consolidated, greenish grey, drilling in 2nd gear
1042	@ 63' as above, oyster shell (oyster bar?)
1047	@ 64' as above, limestone has a little more clastics, darker color, barnacles, some cuttings are "flakey"
1054	@ 65 Limestone, granular, grey, flakey cuttings, fm softer
	@ 65.5 formation very soft, washing down, back to slower rpm on rotary table
1057	@ 70' stop drilling to circulate, limestone + clay w/ sand, turn desander on
1100	@ 72' sand, clay, limestone, poorly consolidated
	hard layer @ 72.5', otherwise "washing" down
	@ 75' lime mud, clay, limestone
	@ 78' clay, lime mud, sand, easy drilling
	@ 80' as above
1107	@ 81' small amount of shell in lime mud and sand.
1108	KD @ 82', shell in lime mud. Add 20' DP #4, DS=107'
	@ 84', lime mud, shell, limestone, sand
	@ 85' more shell in lime mud, sand, limestone

PROJECT STRAPT-2 WELL NO. PW-1 DATE 2/22/89

TIME	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
1121	@ 87' increase in limestone (interbedded limestone, lime mud, shell and clay)
	@ 88' as above
1124	@ 90' limestone shell with lime mud
	@ 95' Limestone and shell fragments, lime mud
	@ 98' Trace of lime mud, sandy limestone dominates
	@ 99' as in 95'-98'
	@ 99.5' soft limestone, shell, lime mud, pebbles.
	@ 100' Limestone, shell, lime mud, pebbles
	@ 101' green lime mud with trace of limestone
	KD@ 102', lime mud, w/ limestone, green
	add 20' DP# 5 , 5, DS=127'
	@ 105' sandy lime mud, trace limestone
	@ 106' as above
	@ 107' lime mud w/ increasing limestone, hard layers
	@ 108' lime mud and limestone, trace of shell
	@ 110' limestone with lime mud
1150	@ 114' as above
	@ 115' limestone, sandy; trace of lime mud
	110'-115' formation taking fluid
	@ 117' as above
	@ 120' limestone gets soft and granular
1200	KD@ 122', circulating, as above
1205	add 20' DP# 6, DS=147'
	@ 125' trace limestone, trace of green clay
	@ 130' green clay w/ trace of limestone
	@ 133' Dark green plastic clay
	@ 137' as above w/ phosphate nodules
	TD 137'
	Logged 2/22/89
	Station ID 111000058
	PW-1 completed 2/23/89 6" dia CSG 0'-70'
	Screen 70'-120'

SAMPLES COLLECTED
W/ WIRE BASKET

PROJECT STL WELL NO. APT-2 TW DATE 1-30-89 Monday
~~DW~~ 80° F Sun

DIG MUD PIT W/ BACKHOLE - USING BENTONITE, EASY MUD POLYMER

TIME	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
1212	BEGIN PILOT HOLE DRILLING WITH 5 5/8" DIAMETER
	DRAG BIT (TO PENETRATE ROOTS/ORGANICS FOR THE 1ST KELLY)
1213	0-5' FINE SAND, CLAY
1214	5-10 ORGANICS AND SANDY CLAY
1215	10-20 NO SAMPLES (LT. BLUE SANDY CLAY/BRN. SAND/W/ORGANICS)
1216	20-22 SANDY LIMESTONE ? SHELL. K.D @ 22' ; CIRCULATING
1222	SWITCH BITS TO TRICONE → 5 5/8" DIAMETER. ADD ROD #1 WITH STABILIZERS. TS = 47'
1224	22-25' SANDY LIMESTONE WITH SHELL
1225	25-30' LT. GREY CHUNKY LIMESTONE W/ SOME WHOLE SHELLS
1227	30-35' MED. GREY LIMESTONE W/ FINE SHELL ? GREY CLAY
1232	35-40' LIMESTONE W/ LOTS OF SHELL
1238	40-42' SHELL ZONE (~38' 1ST APPEARANCE OF SHELL.)
1243	K.D @ 42'. ADD ROD #2 (20') TS = 67'
1246	42-45' - SHELL ZONE
1248	45-48' - SHELL COLOR DARKENS - MOSTLY SHELL W/ SOME LS.
1252	48-50' - FINE SHELL HASH. DESANDING - DESANDER
	TAKING WATER - ADDING WATER TO MUD PIT. PULL UP STRING TO ~30'. MIXING MUD ; CIRCULATE...
1255	50-53' YELLOW SHELL HASH
1300	53-58' GREY LIMESTONE, SHELL ? LIME MUD
1308	58-62' AS ABOVE
1315	@ 62' - LOUD BIT CHATTER ; HARD, DARK GREY LIMESTONE W/ SOME RECRYSTALLIZED SHELL. K.D @ 62'
1325	AFTER CIRCULATING, ADD ROD #3 (20') T.S. 87'
1330	INCREASE RPM'S ; LOTS OF GRINDING ? CHATTER → 1340
1340	62-65' - DARK GREY-BLACK LIMESTONE (MOTTLED) WITH SOME SHELL.
1345	65-69' - SPECKLED BLK. LS ? GREY, SANDY LS, PALE YELLOW SHELL ? SOME LIME MUD
1348	@ 70' LOTS OF LIME MUD (CLAY?), GREY LS., YELLOW SHELL ? SA
1355	69-74' AS ABOVE ↑
1400	74-80' PREDOMINATELY LIME MUD ; MINOR SHELL ? LS.
1403	KD @ 82' 80-82' LIME MUD, CLAY W/ PALE YELLOW SHELL

SAMPLES COLLECTED
W/ WIRE BASKET

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

PROJECT STL

WELL NO. APT-2

TW

DATE 1-30-89

5 5/8" DIA. TRICONE BIT BENTONITE MUD & EASY MUD POLYMER

TIME	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
1410	ADD ROD #4 (20') @ 82'; TS = 107'
1413	82-85 LIME MUD, CLAY, SHELL
1415	@ 85' BIT CHATTER (LIMESTONE & SHELL)
1421	85-90' ~ 85% SHELL, 15% MUD
1430	90-95' LIME MUD CONTENT INCREASES (> 50% MUD... WITH LIMESTONE AND SHELL
1445	95-100' - WHITE & GREY LIMESTONE, LIME MUD. AND WHITE RECRYSTALLIZED SHELL (MUD % <)
1447	KD @ 102'; CIRCULATING
1450	ADD ROD #5 (20') TS = 127'
1455	RESUME DRILLING; 100-105' - GREY/WHT. LIMESTONE, SHELL AND LIME MUD.
1457	BIT CHATTER @ 104' (> RPMs); GREY, HARD LS.
1508	105-110' - GREY LIMESTONE AND SHELL
1512	110-115' - AS ABOVE W/ SOME OYSTER SHELL
1516	115-120' - AS ABOVE
1522	KD @ 122'. ADD ROD #6 (20') TS = 147'
1535	120-125 LIMESTONE LAYER AND ONSET OF GREEN CLAY.
1540	125-130 LS AND INCREASING AMT. OF GREEN CLAY
1550	130-134': T.D. @ 134' : - DRILL STRING IS -> WELL INTO HAWTHORN GROUP. BEGIN TRIP OUT AND PREPARATION FOR LOGGING.
PJA 1/31/89	
Logs Run STWAPT-2 TW STATION ID 111000057	

WELL DRILLER'S LOG

①

SAMPLES COLLECTED

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

w/ WIRE SCREEN BASKET

PROJECT STLWELL NO. APT-2

DATE

1-23-89

5 5/8" Tricone Bit

: MUD ROTARY w/EASY MUD POLYMER

TIME	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
1047	Start drilling @ 2' pulverized tree root and bark
	3' coarse sand w/organics; 3'-5' dark brown fine sand
1100	5' : fine grey sand w/ organic material (bark etc)
1105	5'-10' : grey sand with clay (tree material mixed in)
1110	10'-14' : light blue gray sandy clay
1120	14'-20' light brown quartz sand w/some organics (NO shell)
1124	K.D. @ 22' [20'-21' interval - shell layer]
	@ 22' grey sand w/ tan, coarse shell - semi consolidated (SUN BI CHA)
1135	Add rod #1 (20' length w/ stabilizers) T.S. = 47'; mix m.
1140	22'-25' sand and shell, some greyish clay(?)
1144	25-30' grey limestone
1148	30-35' grey limestone w/shell; some lime mud
1150	35'-38' as above - mud content increases
1155	38'-42' pure shell layer - taking some water
1200	K.D. and circulating. Add rod #2 (20' length)
	T.S. = 67'; mixing mud and adding water
1210	42'-45' predominately shell hash - some limestone & lime
1215	45'-48' shell zone (tan coloration)
1218	@ 48' abrupt color change to black shell (reducing environment)
1220	49'-50' coarse shell zone continues
1225	50-54' as above (taking some water)
1227	54'-56' numerous whole shells with the appearance of dark grey limestone; some lime mud
1230	56'-58' sandy grey limestone w/shell → some vermicularia
1235	58'-60' " grey limestone with white shells
1240	60'-62 white shell hash (minor amount of limestone)
1242	K.D. @ 62'; circulating
1250	Add rod #3 (20' length); TS = 87'; mixing mud and 'easy mud'; adding water to tank (level dropped 1/8 of tank volume over last rod)
1300	63' hit relatively hard limestone - bit chatter (medium grey ls. w/ shell) → 63'-65'
1307	65'-68' continuing hard, darker grey limestone with less shell - bit chatter

OVER -

(1)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

PROJECT ST2 WELL NO. APT-2 ~~04~~ DATE 1/19/89 ~~04~~

Mud Rotary - drag bit = 5 1/8" dia (04)

Samples Collected w/ Wire Screen Basket

DEPTH	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
0902	drilling @ 2' fine brownish sand
←	3'-4' brown sand, some coarse grained - some organic
0904	4' grey sandy clay (more so a clay - sand)
0906	4-10' - clay (grey) - more sand
0907	10' - greenish gray sandy clay
0908	13' - ^{red} brown semi consolidated sand
0909	14-20' grey sand (little or no shell)
0909 0910	21' - shell and sand
0910	22' - K.D. Semi consolidated sand & shell (circulating)
0915	Add rod #1 (20' w/ stabilizers) Total length = 47'
LS. @ 22' 0920	22'-26' - as above 1 ←
0921	26' - (bit grind) sandy shelly limestone
0923	26'-30' - grey wt. sandy L.S. (taking some water) ^{small amt}
0924	Circulating @ 30' - adding water to mud
0926	30'-32' as above @ 32' less consolidated: ^{Trace} clay
"	32'-35' shelly sandy limestone
0927	@ 35' more shell (>50%) shell bed
0928	@ 37' - limestone >50%
0929	37'-40' - shell and limestone
0930	40'-42' - predominately shell ^{hash} - some sand & LS.
0931	K.D. @ 42' (circulating) (taking small amt of water)
0935	Add rod #2 (20') Total length 67'
0940	42'-46' sand >80% w/ shell
0942	@ 48' bit grind 45'-49' - sand, "shell hash" & LS
0944'	49'-50' - shell bed numerous whole shells ^{50'-52'} soft
0945'	52' - hard ^{L.S.} layer (bit grind) (shell hash & 85% (15% ^{grey} LS)
0946	53'-55' - shell hash w/ increase in limestone
0948	55' - ^(green-gray) ls. & shell - taking water? (60% LS) 40% shell
0955	K.D. on #3 rod @ 62' (as above LS. & ^{more} shell)
1000	Circulating and mixing mud (desander off)
1004	Add Rod #3 (20') Total length = 87' (mixing mud)
1009	62' → hard layer LS. & coarse shell: mud wt. 8.65
1012	med grey limestone & coarse shell (chione

62'-64' Sample is suspect (very hard drilling)

PROJECT STL-APT 2 WELL NO. FW. DATE 1-19-88
APT-2 D-4

DEPTH	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
1017	Bit continues to chatter @ 63' hard-hard drilling
1020	desander on - continuing to chatter - now pulverizing the
1023	64-65' hard chatter; then bit drops slightly
1025	64-66' → LS ? shell (drilling more smoothly)
1027	66-70' shell ? L.S. - not much return
1029	70'-72' shell hash ? sand ? dark Limestone
1031	72'-75' ^{lots of} sand ? shell trace clay ? L.S. (desander on)
1033	75'-77' lime mud, shell sand ? Limestone
1035	77'-80'
1037	K.D @ 82' (circulating) shell bed, ^{sand} w/ lime mud (clay?) (can feel coarse sand fraction in mud stream)
1040	adding water
1042	XX
1045	trying to break off Kelly. lug torqued off. heating box end of DP #3 to break joint
1102	Remove DP #3 + replace w/ new rod (#4) (Total string = 107')
1110	82'-85' shell and sand (almost all sand) ^{Some lime mud}
1113	85'-90 sand, shell and lime mud
1115	90'-93' - ^{Broken} shell, sand, lime mud w/ trace limestone
1119	93'-95' - As above (grey-white)
1125	95-100' - As above " " (lime mud fraction declining)
1127	K.D. @ 102' (" ") - circulating ? desanding
1135	Add DP #5 (20') DS = 127' (formation took ^{a little} water)
1147	Hard zone @ 105' (Composition ^{same} as 95'-100')
1150 ^r	105'-110' - Oyster, shell, sand, lime mud, ls.
1153	110'-115' → as above ^{Hash} w/ more ls. ? lime mud
1155	115'-120' @ 117' green-grey clay appearing Sample 115-117 (equal parts shell, ls, lime mud ? sand)
1200	Sample 117-120 As. above
	120' - very pale orange ls, shell (ls >> 50%)

145ft
Bed

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

PROJECT STL-APT 2 WELL NO. ~~77~~
APT-2 D-4 DATE 1-19-88

DEPTH	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
1204	K.D. @ 122' circulating and desanding
1219	@ 125 very pale orange ^{green} mud + limestone very soft
1220	@ 128' green ^{sandy} clay w/shell (Paul says 127')
1224	@ 135 green sandy clay w/ trace shell @ 137 darker green clay w/ lots of very fine phosphatz
1272	kd @ 142 as above td
	PW1 ~ 65'-105' screen → OBS well → 80'-90'
	PW2 → to 55' (35-55 Screen)
	Sh. MW - 30'-40'

Steve Howes

797-1853

Mr Jim S. Spiteri

10819 Orange Ave Ft Pierce

(407) 461-9259.

Referred to me by Betty Morse and Don —
from Fort Pierce substation about APT
on his 10 acres of land. Tried to
contact him on 1/5/89 but no answer.

Try to contact

1/6/89 (AM)

turn pike ¹⁵⁰⁰⁻²⁰²⁰ West 2 1/2 mile

over emerald lane
cottondale lane

10819

orange Ave

Diamond Fruit



FORM 0395
Rev. 10/87

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

WELL LOG

WELL LOCATION
 County St. Lucie L.S. _____ T.O.C. 0.0
 Station I. D. 1111000057
 Date 1-31-89 Well No. SILAPT-2TW
 Latitude 27° 26' 38" Longitude 80° 26' 9"
1/4 SW 1/4 NE 1/4 SE Section 9 Township 36 S Range 39 E
 Owner S.F.W.M.D. Phone _____
 Driller T. Lubrano Date Drilled 1-31-89

WELL CONSTRUCTION
 Drilling Method: Rot. Air CT Auger Other _____
 T. Depth - Driller 134' T. Depth - Logger 134'
 Casing Depth Driller _____ Casing Depth Logger open hole
 Bit Size _____ Casing Dia. I.D. _____
 Hole Dia. 6" From 0 To 134' Dia. From _____ To _____
 Type of Casing open hole Casing Thickness _____
 Type of Screen _____ Screen Int. From _____ To _____
 Type of Packing _____ Well Use Monitor
 Static Water Level _____ Date _____
 Yield Flow _____ Pump _____

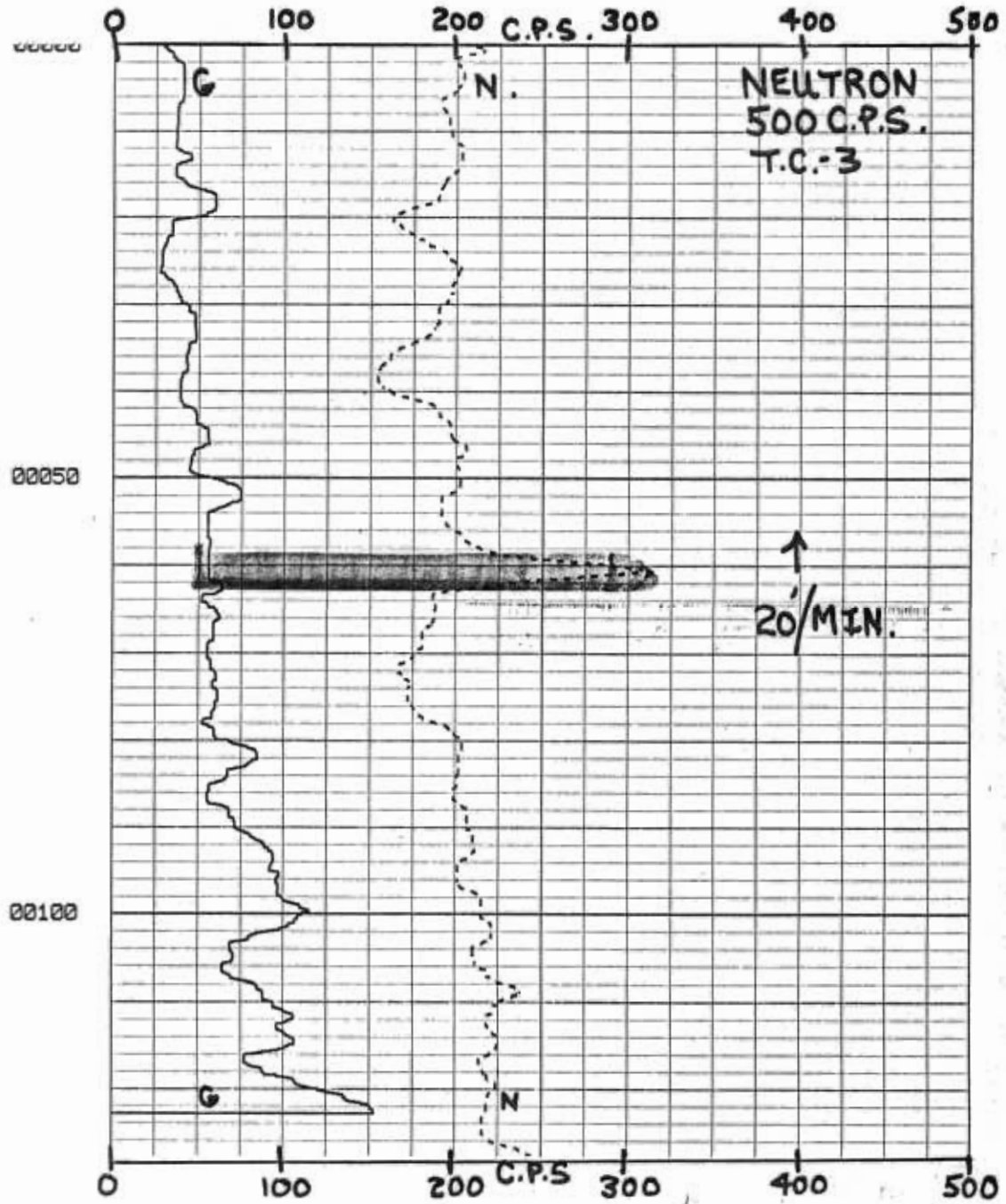
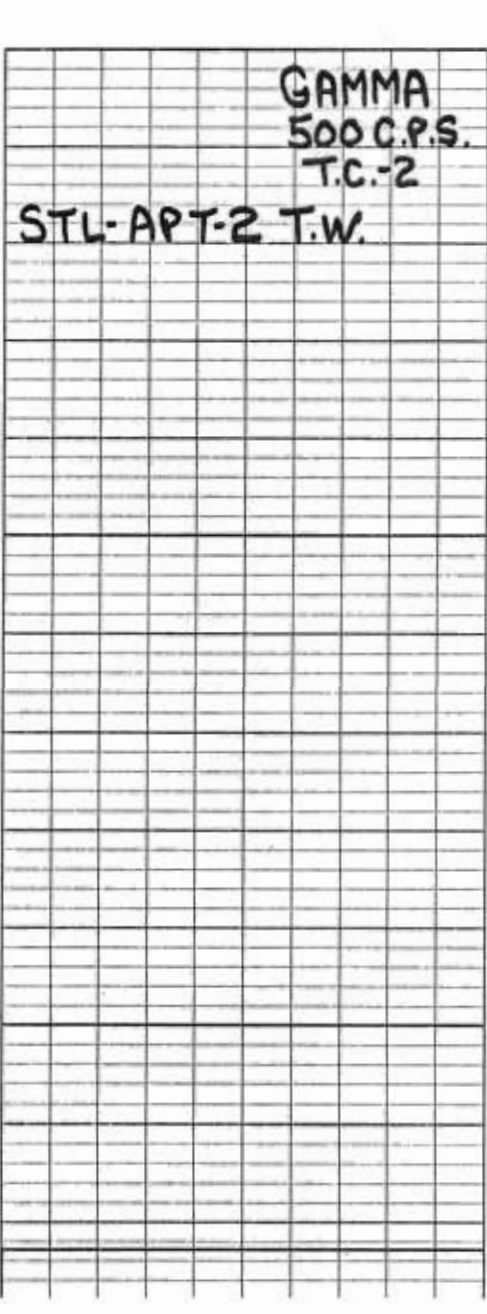
DATUM
 K.B. _____ L.S. _____ T.O.C. 0.0

FLUID QUALITY
 Date _____ Time _____ Source of Sample _____
 Cl _____ mg/l Type of Fluid _____
 Temp. _____ °C Field Density _____ @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. _____ umhos/cm

Logged By: E.P. DAUENHAUER Witnessed By: D.J. DEMONSTRANTI
 Comments: WELL WAS PLUGGED AFTER LOGGING.

TYPE OF SURVEYS RUN

Lateral 6'	<input checked="" type="checkbox"/>	Density	<input checked="" type="checkbox"/>
Caliper	<input checked="" type="checkbox"/>	ccI	<input type="checkbox"/>
Flow meter	<input type="checkbox"/>	Fluid Sampler	<input type="checkbox"/>
16", 64" normals	<input type="checkbox"/>	Temperature	<input type="checkbox"/>
Neutron	<input checked="" type="checkbox"/>	Delta Temp.	<input type="checkbox"/>
Natural Gamma	<input checked="" type="checkbox"/>	SP	<input checked="" type="checkbox"/>
Fluid Resistivity	<input type="checkbox"/>	Single Pt.	<input checked="" type="checkbox"/>



SOUTH FLORIDA WATER MANAGEMENT DISTRICT



WELL LOG

WELL LOCATION
 County St. Lucie
 Station I. D. 1111000057
 Date 1-31-89 Well No. STL APT-2 TW
 Latitude 27° 26' 38" Longitude 80° 26' 9"
1/4 SW 1/4 NE 1/4 SE Section 9 Township 36 S Range 39 E
 Owner S.F.W.M.D. Phone _____
 Driller T. Lubrano Date Drilled 1-31-89

WELL CONSTRUCTION
 Drilling Method: Rot. Air Auger Other _____
 T. Depth - Driller 134' T. Depth - Logger 134'
 Casing Depth Driller _____ Casing Depth Logger open hole
 Bit Size _____ Casing Dia. I.D. _____
 Hole Dia. 6" From 0 To 134' Dia. From _____ To _____
 Type of Casing open hole Casing Thickness _____
 Type of Screen _____ Screen Int. From _____ To _____
 Type of Packing _____ Well Use Monitor
 Static Water Level _____ Date _____
 Yield Flow _____ Pump _____

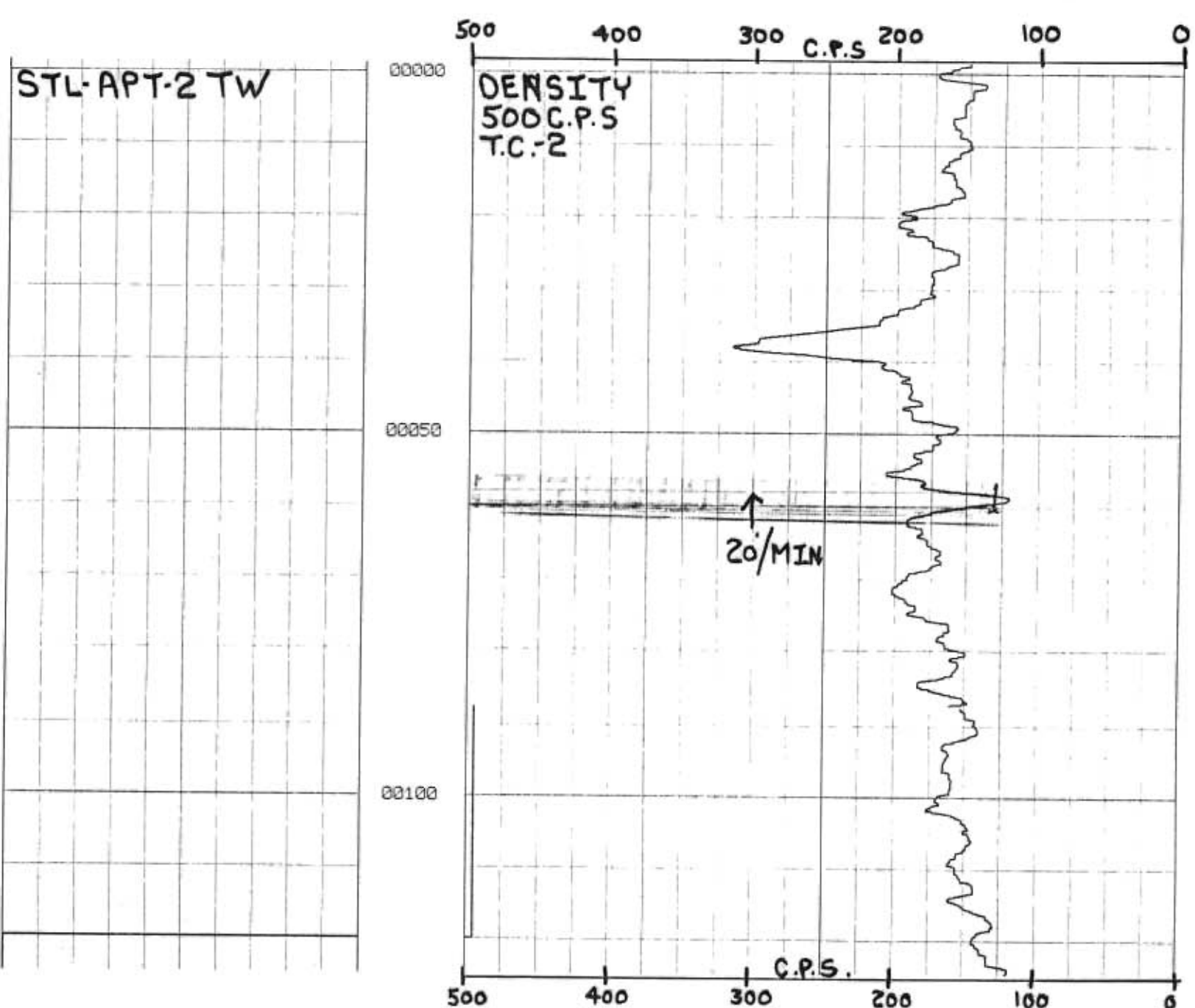
DATUM
 K.B. _____ L.S. _____ T.O.C. 0.0

FLUID QUALITY
 Date _____ Time _____ Source of Sample _____
 Cl _____ mg/l Type of Fluid _____
 Temp. _____ °C Field Density @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. _____ umhos/cm

Logged By: E.P. DAUENHAUER Witnessed By: D.J. DEMONSTRANT
 Comments: WELL WAS PLUGGED AFTER LOGGING

TYPE OF SURVEYS RUN

Lateral 6'	<input checked="" type="checkbox"/>	Density	<input checked="" type="checkbox"/>
Caliper	<input checked="" type="checkbox"/>	cc	<input type="checkbox"/>
Flow meter	<input type="checkbox"/>	Fluid Sampler	<input type="checkbox"/>
16" .64" normals	<input type="checkbox"/>	Temperature	<input type="checkbox"/>
Neutron	<input checked="" type="checkbox"/>	Delta Temp.	<input type="checkbox"/>
Natural Gamma	<input checked="" type="checkbox"/>	SP	<input checked="" type="checkbox"/>
Fluid Resistivity	<input type="checkbox"/>	Single Pt.	<input checked="" type="checkbox"/>





FORM 0395
Rev. 10/87

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

WELL LOG

WELL LOCATION

County St. Lucie
 Station I.D. 111000057
 Date 1-31-89 Well No. STL APT-2 TW
 Latitude 27° 26' 38" Longitude 80° 26' 9"
1/4 SW 1/4 NE 1/4 SE Section 9 Township 36 S Range 39 E
 Owner S.F.W.M.D. Phone _____
 Driller T. Lubrano Date Drilled 1-31-89

WELL CONSTRUCTION

Drilling Method: Rot. Air Auger Other _____
 T. Depth - Driller 134' T. Depth - Logger 134'
 Casing Depth Driller _____ Casing Depth Logger open hole
 Bit Size _____ Casing Dia. I.D. _____
 Hole Dia. 6" From 0 To 134' Dia. From _____ To _____
 Type of Casing open hole Casing Thickness _____
 Type of Screen _____ Screen Int. From _____ To _____
 Type of Packing _____ Well Use Monitor
 Static Water Level _____ Date _____
 Yield Flow _____ Pump _____

DATUM

K.B. _____ L.S. _____ T.O.C. 0.0

FLUID QUALITY

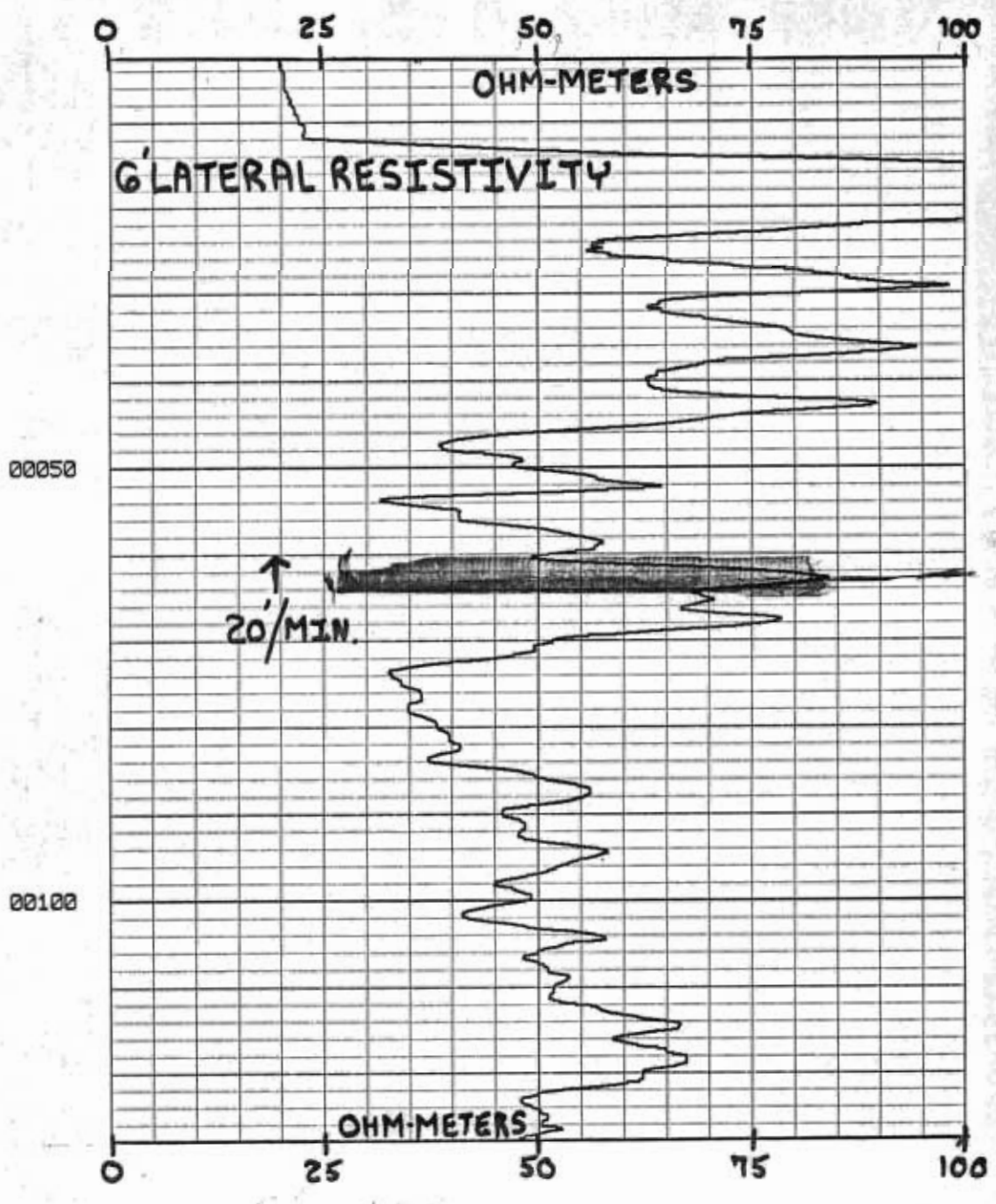
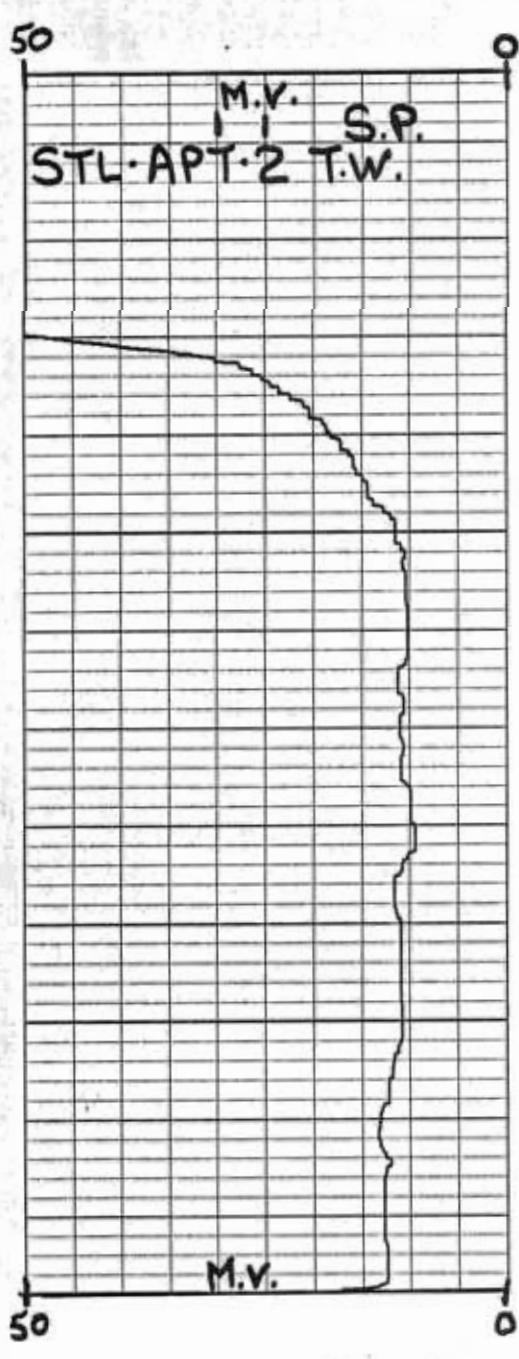
Date _____ Time _____ Source of Sample _____
 Cl _____ mg/l _____ Type of Fluid _____
 Temp. _____ °C Field Density _____ @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. _____ umhos/cm

Logged By: E.P. DAUENHAUER Witnessed By: D.J. DEMONSTRANT

Comments: Well was plugged after logging

TYPE OF SURVEYS RUN

Lateral 6'	<input checked="" type="checkbox"/>	Density	<input checked="" type="checkbox"/>
Caliper	<input checked="" type="checkbox"/>	occl	<input type="checkbox"/>
Flow meter	<input type="checkbox"/>	Fluid Sampler	<input type="checkbox"/>
16", 64" normals	<input type="checkbox"/>	Temperature	<input type="checkbox"/>
Neutron	<input checked="" type="checkbox"/>	Delta Temp.	<input type="checkbox"/>
Natural Gamma	<input checked="" type="checkbox"/>	SP	<input checked="" type="checkbox"/>
Fluid Resistivity	<input type="checkbox"/>	Single Pt.	<input checked="" type="checkbox"/>





FORM 0395
Rev. 10/87

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

WELL LOG

WELL LOCATION

County S. FLORIDA

Station I. D. 111000057

Date 1-31-89 Well No. STL APT-2TW

Latitude 27° 26' 38" Longitude 80° 26' 9"

1/4 SW 1/4 NE 1/4 SE Section 9 Township 36S Range 39E

Owner S.F.W.M.D. Phone _____

Driller T. Lubrano Date Drilled 1-31-89

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____

T. Depth - Driller 134' T. Depth - Logger 134'

Casing Depth Driller _____ Casing Depth Logger OPEN hole

Bit Size _____ Casing Dia. I.D. _____

Hole Dia. 6" From 0 To 134' Dia. From _____ To _____

Type of Casing OPEN hole Casing Thickness _____

Type of Screen _____ Screen Int. From _____ To _____

Type of Packing _____ Well Use MONITOR

Static Water Level _____ Date _____

Yield Flow _____ Pump _____

DATUM

K.B. _____ L.S. _____ T.O.C. 0.0

FLUID QUALITY

Date _____ Time _____ Source of Sample _____

Cl _____ mg/l _____ Type of Fluid _____

Temp. _____ °C Field Density _____ @ _____ °C

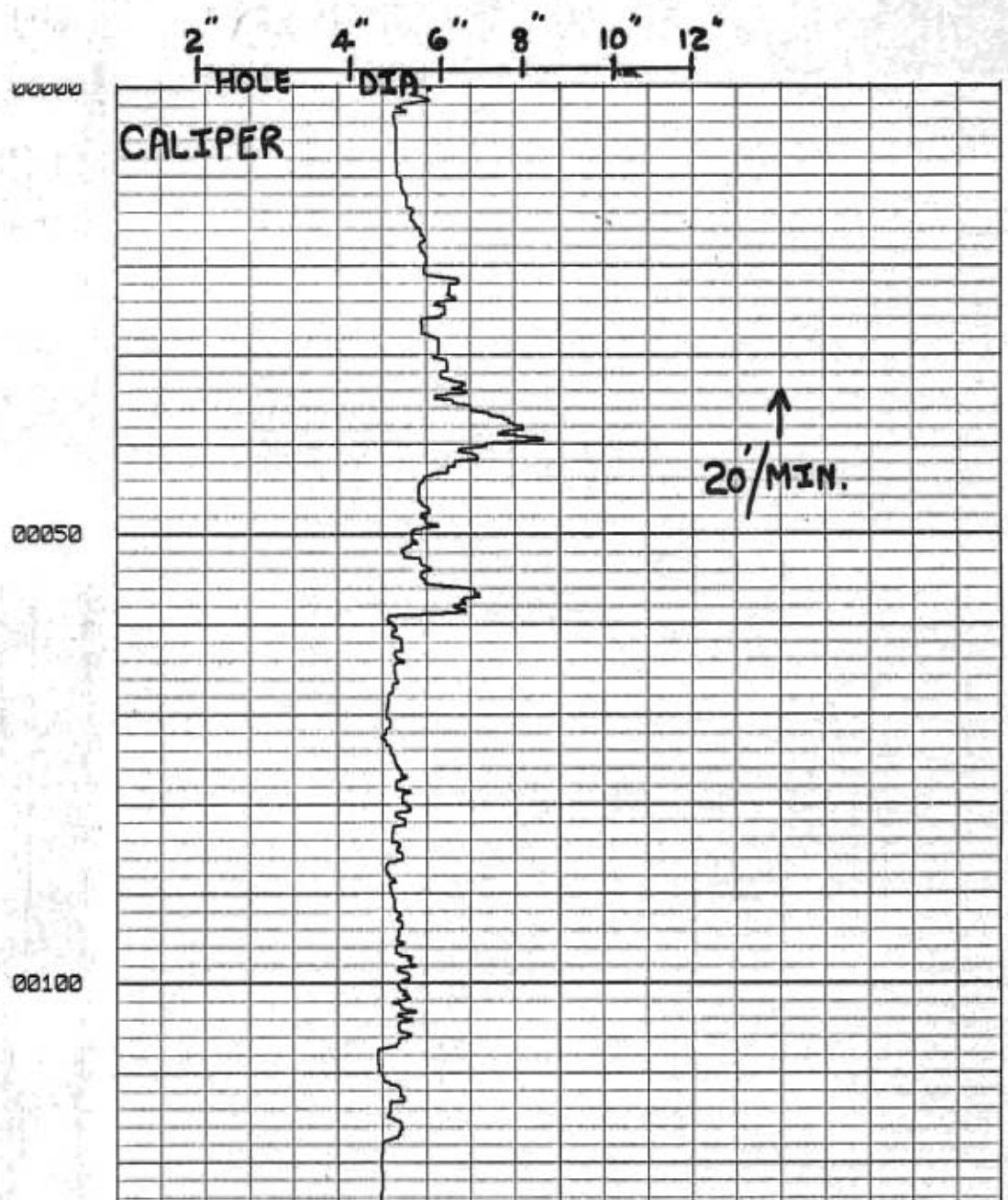
T.D.S. _____ mg/l _____ Spec. Cond. _____ μmhos/cm

Logged By: E.P. DAUBENHAUER Witnessed By: D.J. DEMONSTRANTI

Comments: WELL WAS PLUGGED AFTER LOGGING.

TYPE OF SURVEYS RUN

Lateral 6'	<input checked="" type="checkbox"/>	Density	<input checked="" type="checkbox"/>
Caliper	<input checked="" type="checkbox"/>	ccf	<input type="checkbox"/>
Flow meter	<input type="checkbox"/>	Fluid Sampler	<input type="checkbox"/>
16", 64" normals	<input type="checkbox"/>	Temperature	<input type="checkbox"/>
Neutron	<input checked="" type="checkbox"/>	Delta Temp.	<input type="checkbox"/>
Natural Gamma	<input checked="" type="checkbox"/>	SP	<input checked="" type="checkbox"/>
Fluid Resistivity	<input type="checkbox"/>	Single Pt.	<input checked="" type="checkbox"/>



00100
00050

STL-APT-2 T.W.



FORM 0395
Rev. 10/87

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

WELL LOG

WELL LOCATION

County St. Lucie
 Station I.D. 1111000058
 Date 2/22/89 Well No. STL-APT-2 PW-1
 Latitude 27° 26' 38" Longitude 80° 26' 7"
 1/4 SW 1/4 SE Section 9 Township 35S Range 39E
 Owner S.F.W.M.D. Phone _____
 Driller T. Lubrano Date Drilled 2/22/89

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____
 T. Depth - Driller 137' T. Depth - Logger 137'
 Casing Depth Driller _____ Casing Depth Logger OPEN hole
 Bit Size 5 7/8" Casing Dia. I.D. _____
 Hole Dia. 6" From 0 To 137 Dia. From _____ To _____
 Type of Casing OPEN hole Casing Thickness _____
 Type of Screen _____ Screen Int. From _____ To _____
 Type of Packing _____ Well Use Pump Test
 Static Water Level _____ Date _____
 Yield Flow _____ Pump _____

DATUM

K.B. _____ L.S. _____ T.O.C. 0.0

FLUID QUALITY

Date _____ Time _____ Source of Sample _____
 Cl _____ mg/l _____ Type of Fluid _____
 Temp. _____ °C Field Density _____ @ _____ °C
 T.D.S. _____ mg/l _____ Spec. Cond. _____ umhos/cm

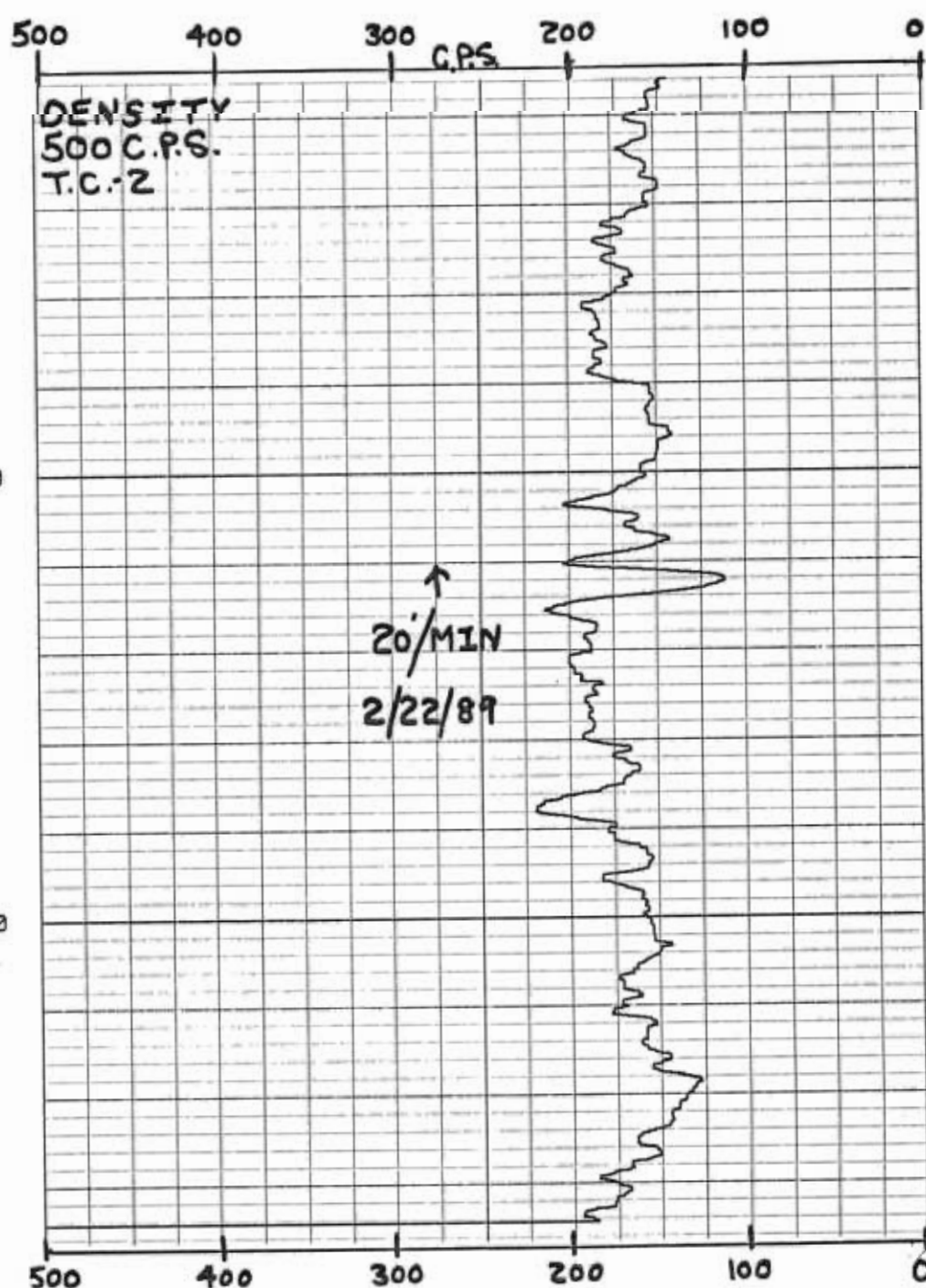
Logged By: E.P. DAVENHAUER Witnessed By: D.J. DEANSTRANTI

Comments:

TYPE OF SURVEYS RUN

Lateral 6'	<input checked="" type="checkbox"/>	Density	<input checked="" type="checkbox"/>
Caliper	<input checked="" type="checkbox"/>	ccf	<input type="checkbox"/>
Flow meter	<input type="checkbox"/>	Fluid Sampler	<input type="checkbox"/>
16", 64" normals	<input type="checkbox"/>	Temperature	<input type="checkbox"/>
Neutron	<input checked="" type="checkbox"/>	Delta Temp.	<input type="checkbox"/>
Natural Gamma	<input checked="" type="checkbox"/>	SP	<input checked="" type="checkbox"/>
Fluid Resistivity	<input type="checkbox"/>	Single Pt.	<input checked="" type="checkbox"/>

STL-APT-2 PW





FORM 0395
Rev. 10/87

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

WELL LOG

WELL LOCATION

County St Lucie

Station I. D. 111000058

Date 2/22/89 Well No. STLAPT-2PW-1

Latitude 27° 26' 38" Longitude 80° 26' 7"

$\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE Section 9 Township 36S Range 39E

Owner S.F.W.M.D. Phone _____

Driller T. Lubrano Date Drilled 2/22/89

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____

T. Depth - Driller 137' T. Depth - Logger 137'

Casing Depth Driller _____ Casing Depth Logger OPEN hole

Bit Size 5 7/8" Casing Dia. I.D. _____

Hole Dia. 6" From 0 To 137' Dia. From _____ To _____

Type of Casing OPEN hole Casing Thickness _____

Type of Screen _____ Screen Int. From _____ To _____

Type of Packing _____ Well Use Pump test

Static Water Level _____ Date _____

Yield Flow _____ Pump _____

DATUM

K.B. _____ L.S. _____ T.O.C. 0.0

FLUID QUALITY

Date _____ Time _____ Source of Sample _____

Cl _____ mg/l _____ Type of Fluid _____

Temp. _____ °C Field Density _____ @ _____ °C

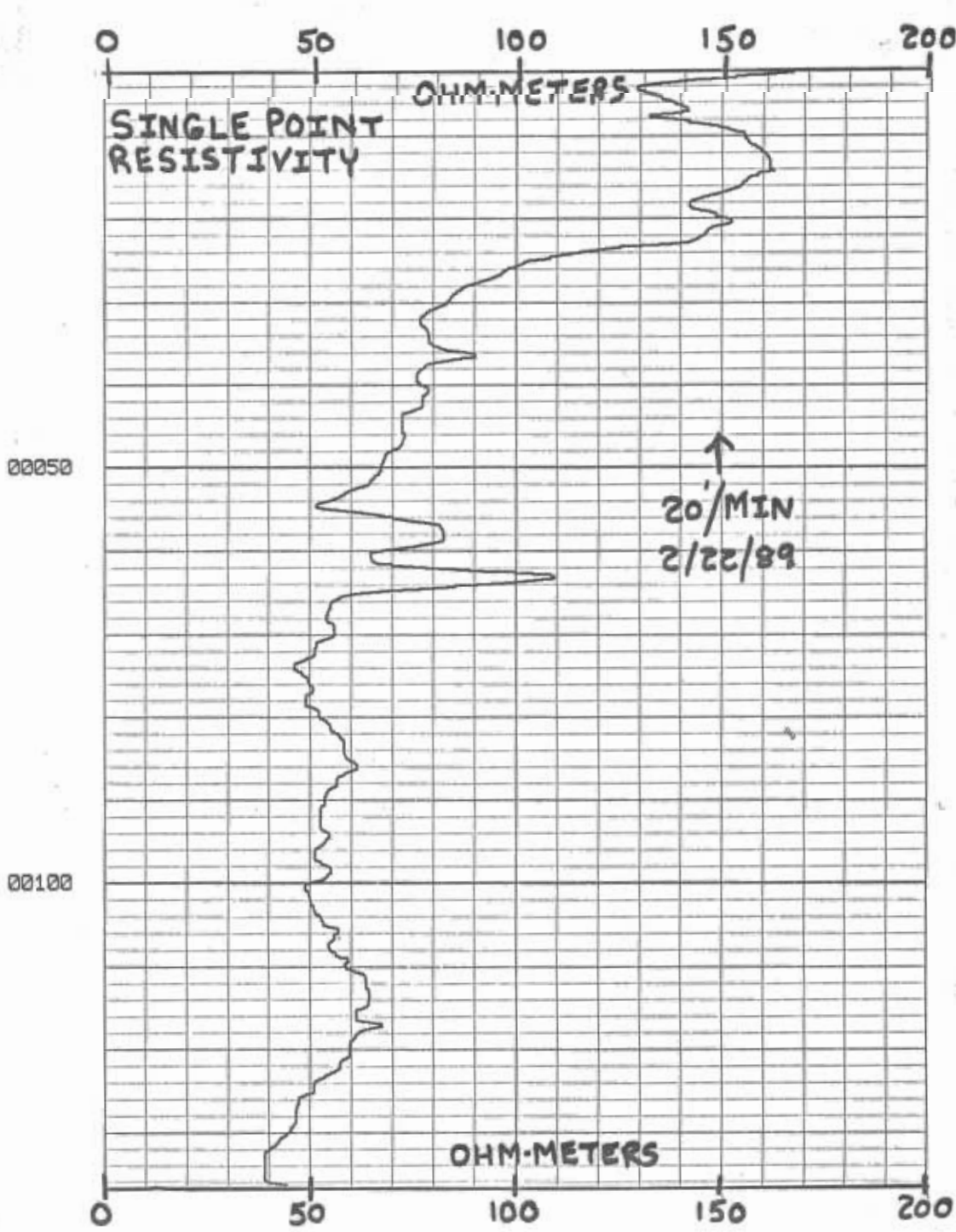
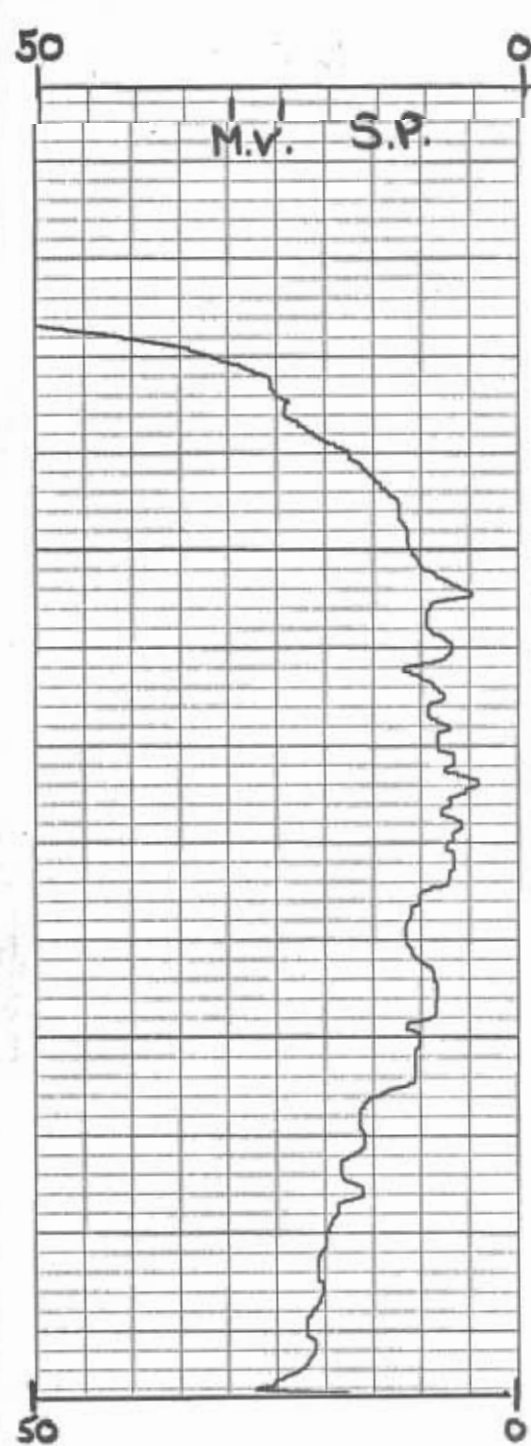
T.D.S. _____ mg/l _____ Spec. Cond. _____ μ mhos/cm

Logged By: E.P. DAVENHAUER Witnessed By: D.J. DEANSTRANT

Comments: _____

TYPE OF SURVEYS RUN

Lateral 6'	<input checked="" type="checkbox"/>	Density	<input checked="" type="checkbox"/>
Caliper	<input checked="" type="checkbox"/>	ccI	<input type="checkbox"/>
Flow meter	<input type="checkbox"/>	Fluid Sampler	<input type="checkbox"/>
16", 64" normals	<input type="checkbox"/>	Temperature	<input type="checkbox"/>
Neutron	<input checked="" type="checkbox"/>	Delta Temp.	<input type="checkbox"/>
Natural Gamma	<input checked="" type="checkbox"/>	SP	<input checked="" type="checkbox"/>
Fluid Resistivity	<input type="checkbox"/>	Single Pt.	<input checked="" type="checkbox"/>





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

WELL LOG

WELL LOCATION
 County St. Lucie
 Station I. D. 111000058
 Date 2/22/89 Well No. STLAPT-2 PW-1
 Latitude 27° 26' 38" Longitude 80° 26' 7"
1/4 SW 1/4 NE 1/4 SE Section 9 Township 36 S Range 39 E
 Owner S.F.W.M.D. Phone _____
 Driller T. Lubrano Date Drilled 2/22/89

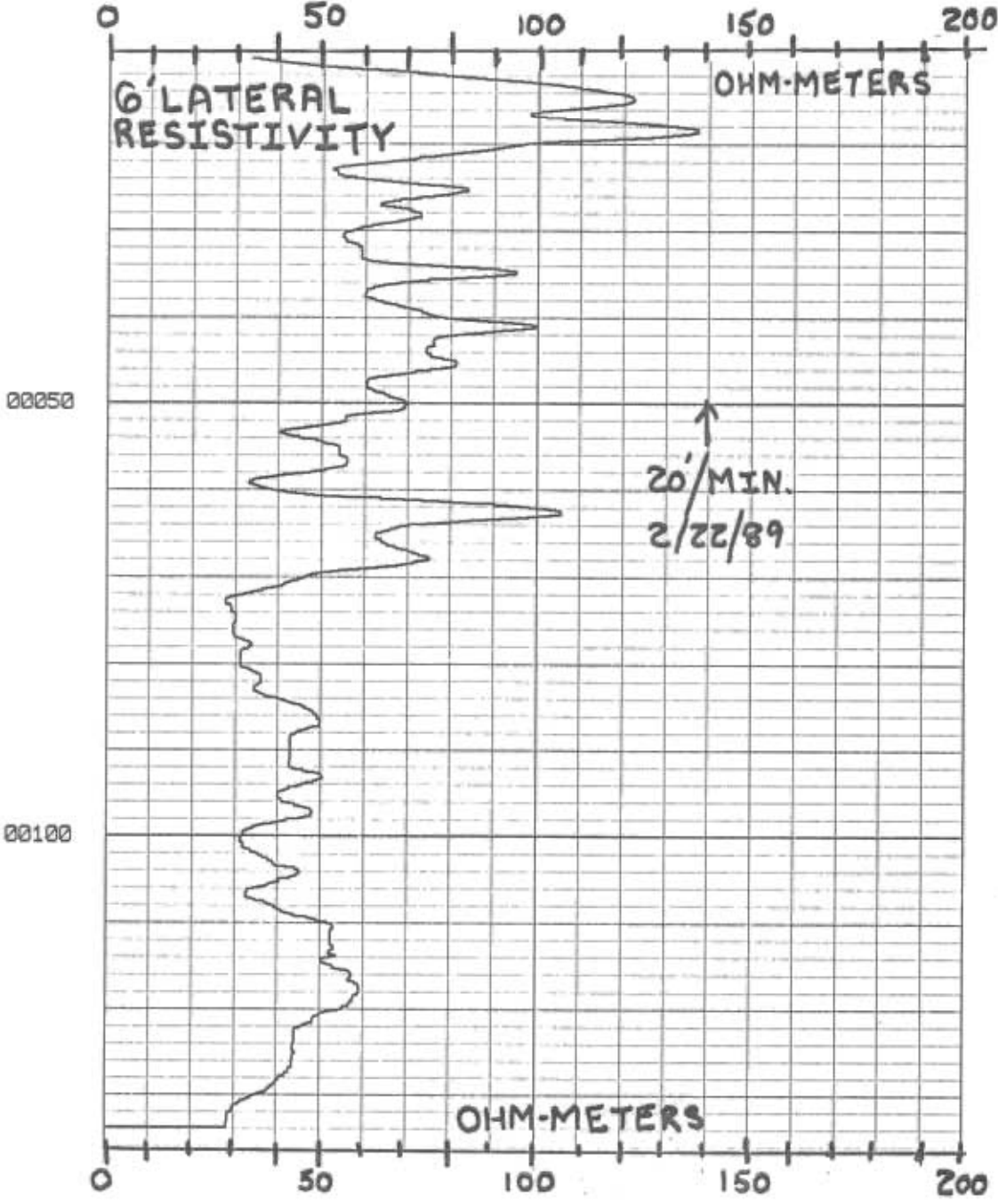
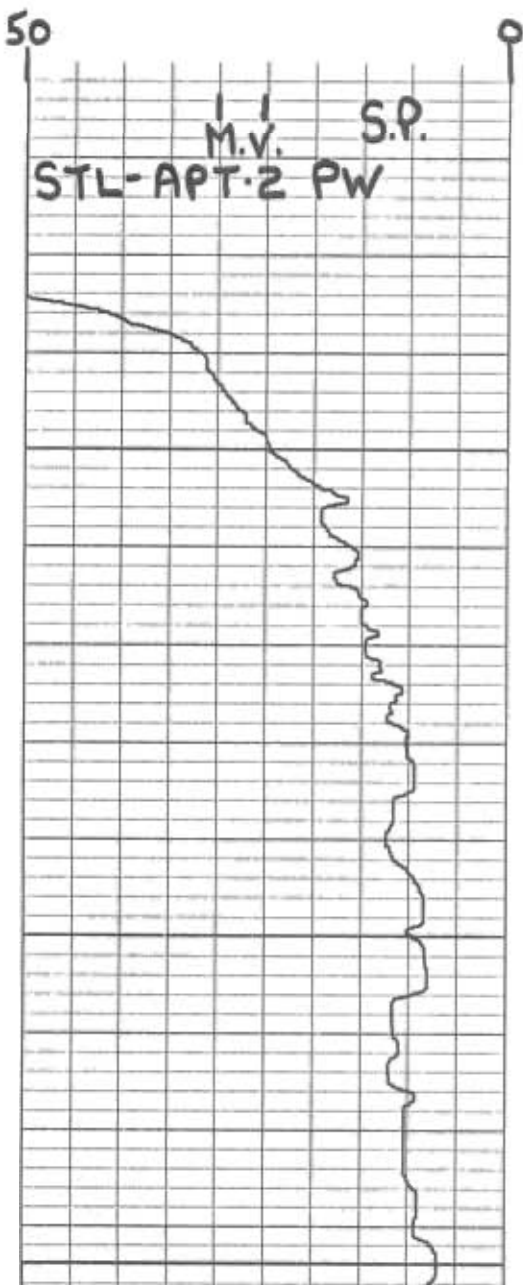
WELL CONSTRUCTION
 Drilling Method: Rot. X Air CT Auger Other
 T. Depth - Driller 137' T. Depth - Logger 137'
 Casing Depth Driller _____ Casing Depth Logger OPEN hole
 Bit Size 5 7/8" Casing Dia. I.D. _____
 Hole Dia. 6" From 0 To 137' Dia. From _____ To _____
 Type of Casing OPEN hole Casing Thickness _____
 Type of Screen _____ Screen Int. From _____ To _____
 Type of Packing _____ Well Use Pump test
 Static Water Level _____ Date _____
 Yield Flow _____ Pump _____

DATUM
 K.B. _____ L.S. _____ T.O.C. 0.0

FLUID QUALITY
 Date _____ Time _____ Source of Sample _____
 Cl _____ mg/l _____ Type of Fluid _____
 Temp. _____ °C Field Density _____ @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. _____ umhos/cm

Logged By: E.P. DAVENHAYER Witnessed By: D.J. DEMONSTRANT
 Comments: _____

TYPE OF SURVEYS RUN
 Lateral 6' _____ Density ocl _____
 Caliper _____ Fluid Sampler _____
 Flow meter _____ Temperature _____
 16", 64" normals _____ Delta Temp. _____
 Neutron _____ SP _____
 Natural Gamma _____ Single Pt. _____
 Fluid Resistivity _____

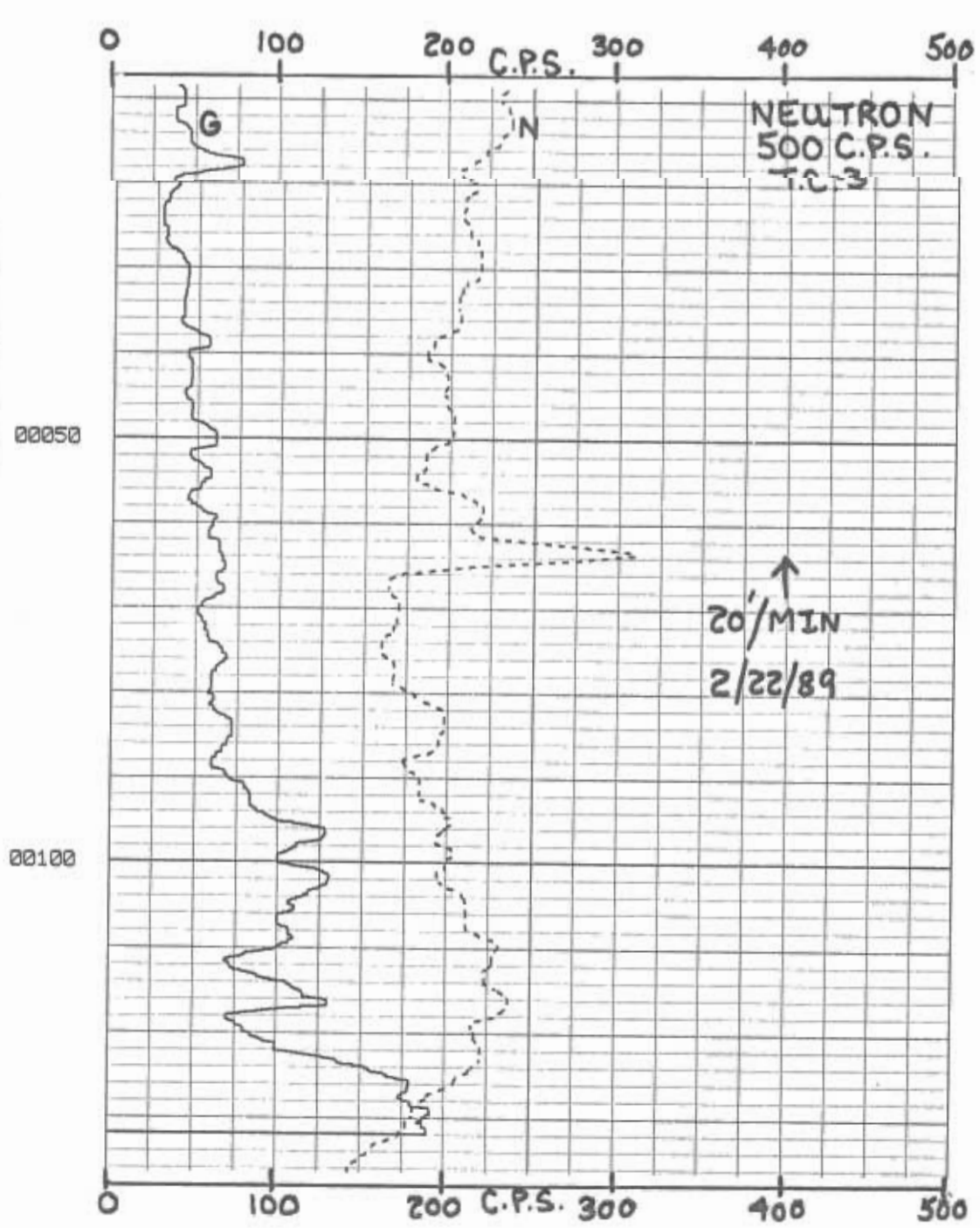
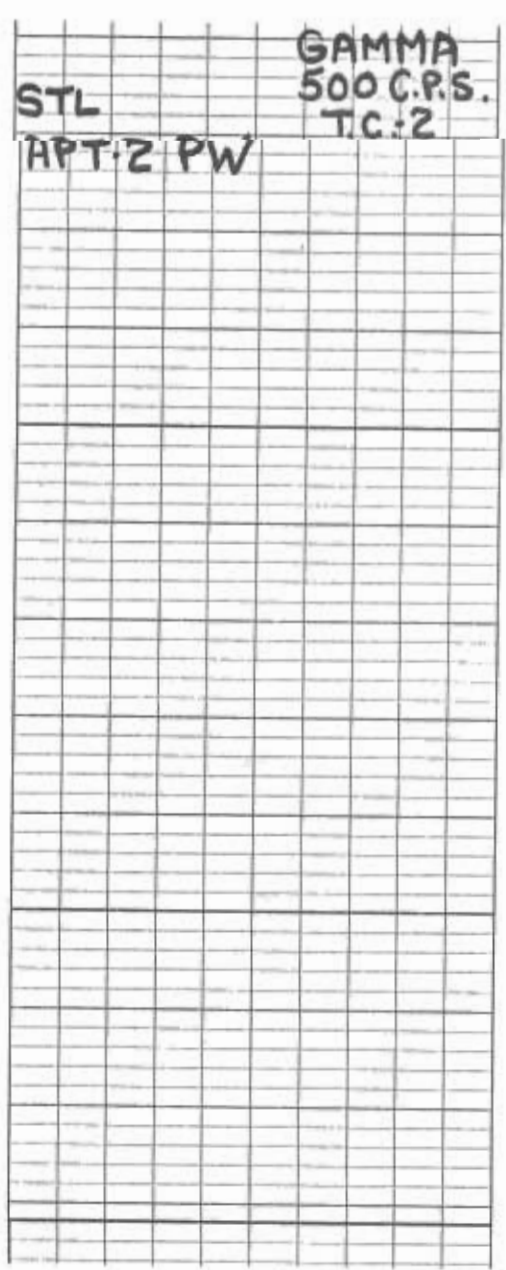




FORM 0395
Rev. 10/87

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

WELL LOG



WELL LOCATION

County St. Lucie
 Station I. D. 111000058
 Date 2/22/89 Well No. STL APT-2 PW -1
 Latitude 27° 26' 38" Longitude 80° 26' 7"
1/4 SW 1/4 NE 1/4 SE Section 9 Township 36 S Range 39 E
 Owner S.F.W.M.D. Phone _____
 Driller T. Lubrano Date Drilled 2/22/89

WELL CONSTRUCTION

Drilling Method: Rot. X Air CT Auger Other
 T. Depth - Driller 137' T. Depth - Logger 137'
 Casing Depth Driller _____ Casing Depth Logger OPEN hole
 Bit Size 5 7/8" Casing Dia. I.D. _____
 Hole Dia. 6" From 0 To 137 Dia. From _____ To _____
 Type of Casing OPEN hole Casing Thickness _____
 Type of Screen _____ Screen Int. From _____ To _____
 Type of Packing _____ Well Use Pump test
 Static Water Level _____ Date _____
 Yield Flow _____ Pump _____

DATUM

K.B. _____ L.S. _____ T.O.C. 0.0

FLUID QUALITY

Date _____ Time _____ Source of Sample _____
 Cl _____ mg/l _____ Type of Fluid _____
 Temp. _____ °C _____ Field Density _____ @ _____ °C
 T.D.S. _____ mg/l _____ Spec. Cond. _____ umhos/cm

Logged By: E.P. DAVENHAUER Witnessed By: D.J. DEANSTRANTI

Comments:

TYPE OF SURVEYS RUN

Lateral 6'	<input checked="" type="checkbox"/>	Density	<input checked="" type="checkbox"/>
Caliper	<input checked="" type="checkbox"/>	occl	<input type="checkbox"/>
Flow meter	<input type="checkbox"/>	Fluid Sampler	<input type="checkbox"/>
16", 64" normals	<input type="checkbox"/>	Temperature	<input type="checkbox"/>
Neutron	<input checked="" type="checkbox"/>	Delta Temp.	<input type="checkbox"/>
Natural Gamma	<input checked="" type="checkbox"/>	SP	<input checked="" type="checkbox"/>
Fluid Resistivity	<input type="checkbox"/>	Single Pt.	<input checked="" type="checkbox"/>



FORM 0395
Rev. 10/87

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

WELL LOG

WELL LOCATION
 County St. Lucie
 Station I. D. 1111000050
 Date 2/22/89 Well No. STLAPT-2 PW-2
 Latitude 27° 26' 38" Longitude 80° 26' 7"
 $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE Section 9 Township 35S Range 39E
 Owner S.F.W.M.D. Phone _____
 Driller T. Lubrano Date Drilled 2/22/89

WELL CONSTRUCTION
 Drilling Method: Rot. X Air CT Auger _____ Other _____
 T. Depth - Driller 137' T. Depth - Logger 137'
 Casing Depth Driller _____ Casing Depth Logger OPEN hole
 Bit Size 5 7/8" Casing Dia. I.D. _____
 Hole Dia. 6" From 0 To 137' Dia. From _____ To _____
 Type of Casing OPEN hole Casing Thickness _____
 Type of Screen _____ Screen Int. From _____ To _____
 Type of Packing _____ Well Use Pump test
 Static Water Level _____ Date _____
 Yield Flow _____ Pump _____

DATUM
 K.B. _____ L.S. _____ T.O.C. 0.0

FLUID QUALITY
 Date _____ Time _____ Source of Sample _____
 Cl _____ mg/l _____ Type of Fluid _____
 Temp. _____ °C Field Density _____ @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. _____ umhos/cm

Logged By: E.P. DAVENHAEVER Witnessed By: D.J. DEAGNISTRANTI
 Comments: _____

TYPE OF SURVEYS RUN

Lateral 6'	<input checked="" type="checkbox"/>	Density	<input checked="" type="checkbox"/>
Caliper	<input checked="" type="checkbox"/>	ccf	<input type="checkbox"/>
Flow meter	<input type="checkbox"/>	Fluid Sampler	<input type="checkbox"/>
16", 64", normals	<input type="checkbox"/>	Temperature	<input type="checkbox"/>
Neutron	<input checked="" type="checkbox"/>	Delta Temp.	<input type="checkbox"/>
Natural Gamma	<input checked="" type="checkbox"/>	SP	<input checked="" type="checkbox"/>
Fluid Resistivity	<input type="checkbox"/>	Single Pt.	<input checked="" type="checkbox"/>

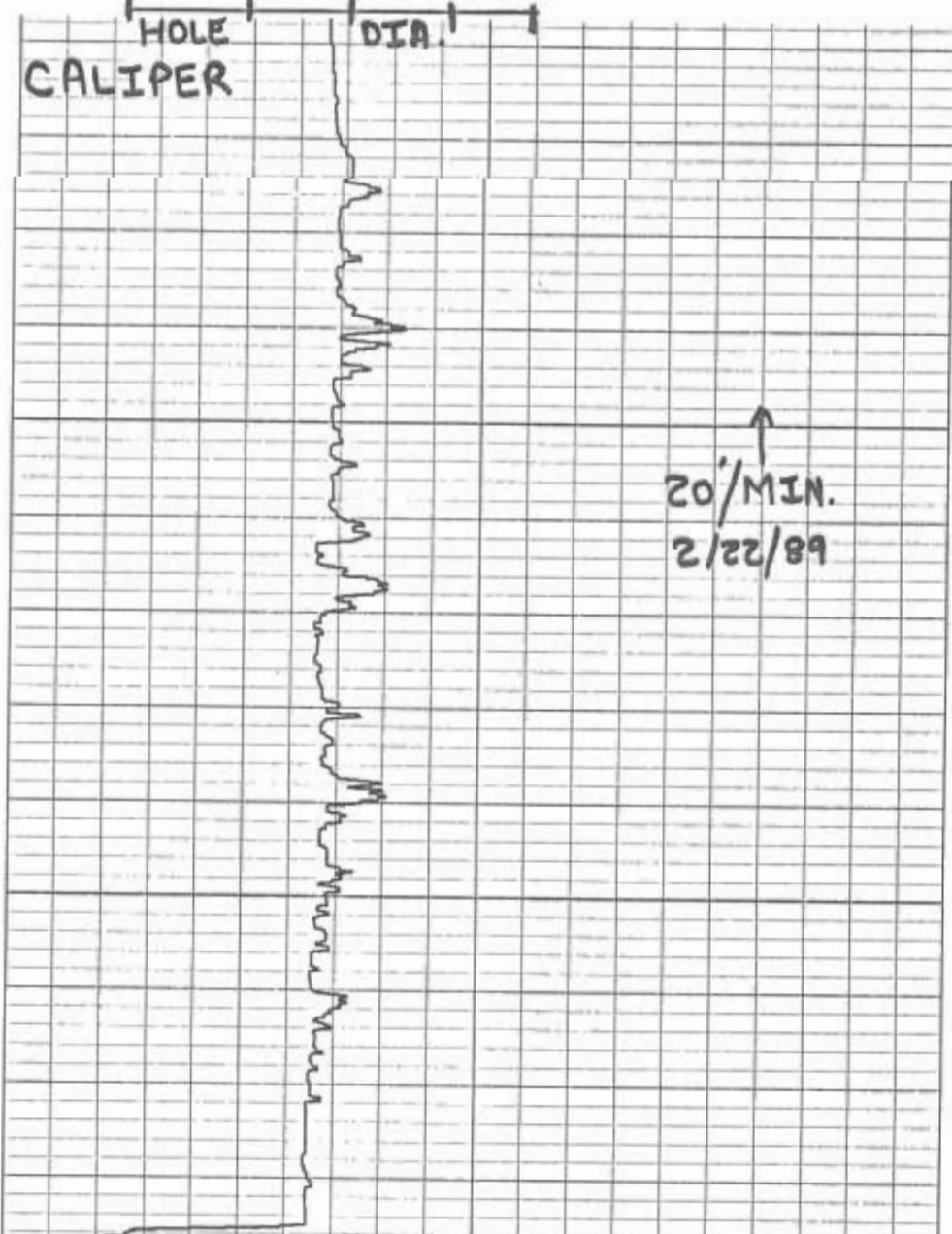
STLAPT-2 PW

00100

00500

2" 4" 6" 8" 10"
 HOLE DIA.
 CALIPER

68/22/2
 20"/MIN.



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

FORM 0395
Rev. 10/87



WELL LOG

WELL LOCATION

County St. Lucie L.S. T.O.C. 0.0

Station I. D. 111000051 Well No. STLAPT-2TW

Date 1-31-89 Longitude 80° 26' 9"

Latitude 27° 26' 38" Township 9S Range 39E

Owner S.F.W.M.D. Phone

Driller T. Lubrano Date Drilled 1-31-89

Drilling Method: Rot. Air Auger Other

T. Depth - Driller 134' T. Depth - Logger 134'

Casing Depth Driller Casing Depth Logger open hole

Bit Size Casing Dia. I.D.

Hole Dia. 6" From 0 To 134' Dia. From To

Type of Casing open hole Casing Thickness

Type of Screen Screen Int. From To

Type of Packing Well Use Monitor

Static Water Level Date

Yield Flow Pump

DATUM

K.B. L.S. T.O.C. 0.0

FLUID QUALITY

Date Time Source of Sample

Cl mg/l Type of Fluid

Temp. °C Field Density @ °C

T.D.S. mg/l Spec. Cond. umhos/cm

Logged By: E.P. DAUENHAUER Witnessed By: D.J. DEMONSTRANT

Comments: WELL WAS PLUGGED AFTER

Logging.

TYPE OF SURVEYS RUN

Lateral 6'	<input checked="" type="checkbox"/>	Density	<input checked="" type="checkbox"/>
Caliper	<input checked="" type="checkbox"/>	cc	<input type="checkbox"/>
Flow meter	<input type="checkbox"/>	Fluid Sampler	<input type="checkbox"/>
16", 64" normals	<input type="checkbox"/>	Temperature	<input type="checkbox"/>
Neutron	<input checked="" type="checkbox"/>	Delta Temp.	<input type="checkbox"/>
Natural Gamma	<input checked="" type="checkbox"/>	SP	<input checked="" type="checkbox"/>
Fluid Resistivity	<input type="checkbox"/>	Single Pt.	<input checked="" type="checkbox"/>

