Executive Summary
ROMP Site No. 11
Core and Monitor Well

Location - ROMP Site No. 11 is located on the west side of the access road to Shell Creek Reservoir approximately 370 feet north of State Route 764 and 1.5 miles east of the intersection of State Route 764 and U.S. 17 in Charlotte County. The site is in Section 20, Township 40 South, Range 24 East and at latitude 26°58'37", longitude 81°56'11".

Site Easement - The site was obtained from the City of Punta Gorda on May 8, 1974 for the sum of one dollar. The Perpetual Easement is 20 feet by 20 feet and is recorded in O.R. Book 467, Pages 544 through 546 at the Charlotte County Courthouse. A Temporary Construction Easement was not obtained for this site.

Reason for Coring - This well was cored in order to obtain a continuous and accurate lithologic log of the rock materials at this site.

Geology - The site is located on the Pamlico terrace at an elevation of ± 10 feet above mean sea level (MSL). All geologic information was obtained from core samples that were obtained from land surface to 334.5 feet below land surface datum (LSD). The general geology of this site is as follows:

0-	Sand
- 180'	Tamiami formation
180'-334.5'	Hawthorn formation

Hydrogeology - Due to a lack of hydrologic information in the files, it is hard to draw very many conclusions about the hydrogeology of this site. It appears from the lithologic log that any aquifer above the Tamiami - Hawthorn would be an extremely poor water zone due to the large amounts of clay and clayey sand. The first area that shows any promise would be

#2 (1/3)

at ± 215 feet below LSD in the Hawthorn Formation. An indication that an artesian aquifer exists in this zone is verified from the Inspector's report which states that the well started to flow at ± 220 feet below LSD.

Core Drilling - This site was cored by the Girdles Foundation Company during September, 1974. Core samples of 2 3/4 inches were obtained at this site with a 4 inch phosphate barrel. These samples were examined on site and then sent to the USGS in Sarasota for further interpretation. Upon completion of the core drilling it was decided to construct a monitor well out of the core hole.

Well Construction - The well was constructed by the Girdles Foundation Company during September, 1974 at a cost of approximately $3,760 or $11.24 per foot. The well was constructed by using 220 feet of 4 inch PVC casing and filling the grouting of the casing, and the well was drilled out to 334.5 feet by core barrel.

Geophysical Logs - Caliper, gamma, fluid resistivity, and temperature logs were run of the core hole.

Type of Monitor - This well is used as a potentiometric monitor to record the changes in the artesian aquifer in the Hawthorn formation.

Water Quality - Water samples were not obtained.

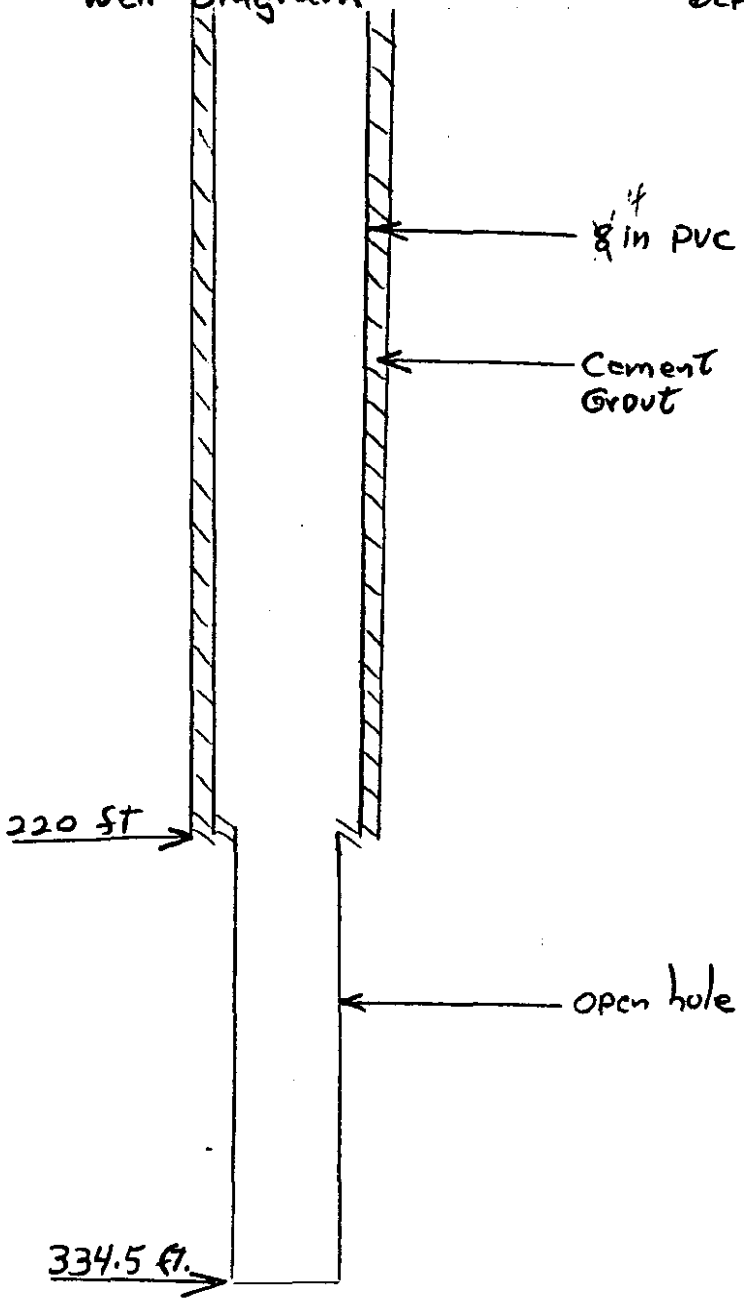
U.S.G.S. Notification - The U.S.G.S. was notified that this well was complete and ready for monitoring in February, 1976.

#2(213)

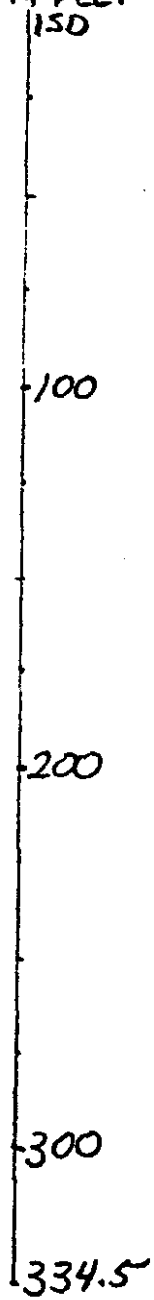
NO. 11 Shell Creek

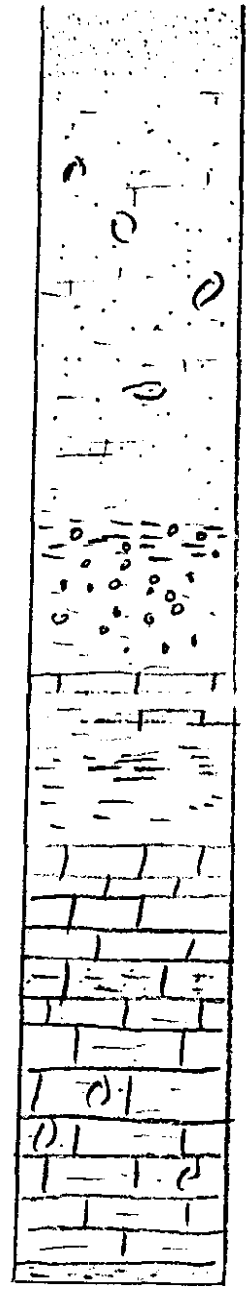
#3(4/8)

Well Diagram



Depth in Feet





quarts sand (?)

grayish green sandy clay with shell fragments and minor limestone lenses.

Blue green sandy clay with phosphat - pebbles

limestone

limestone and indurated clay

Blue, hard, sandy clay.

Blue plastic clay

hard and soft laminated clay.

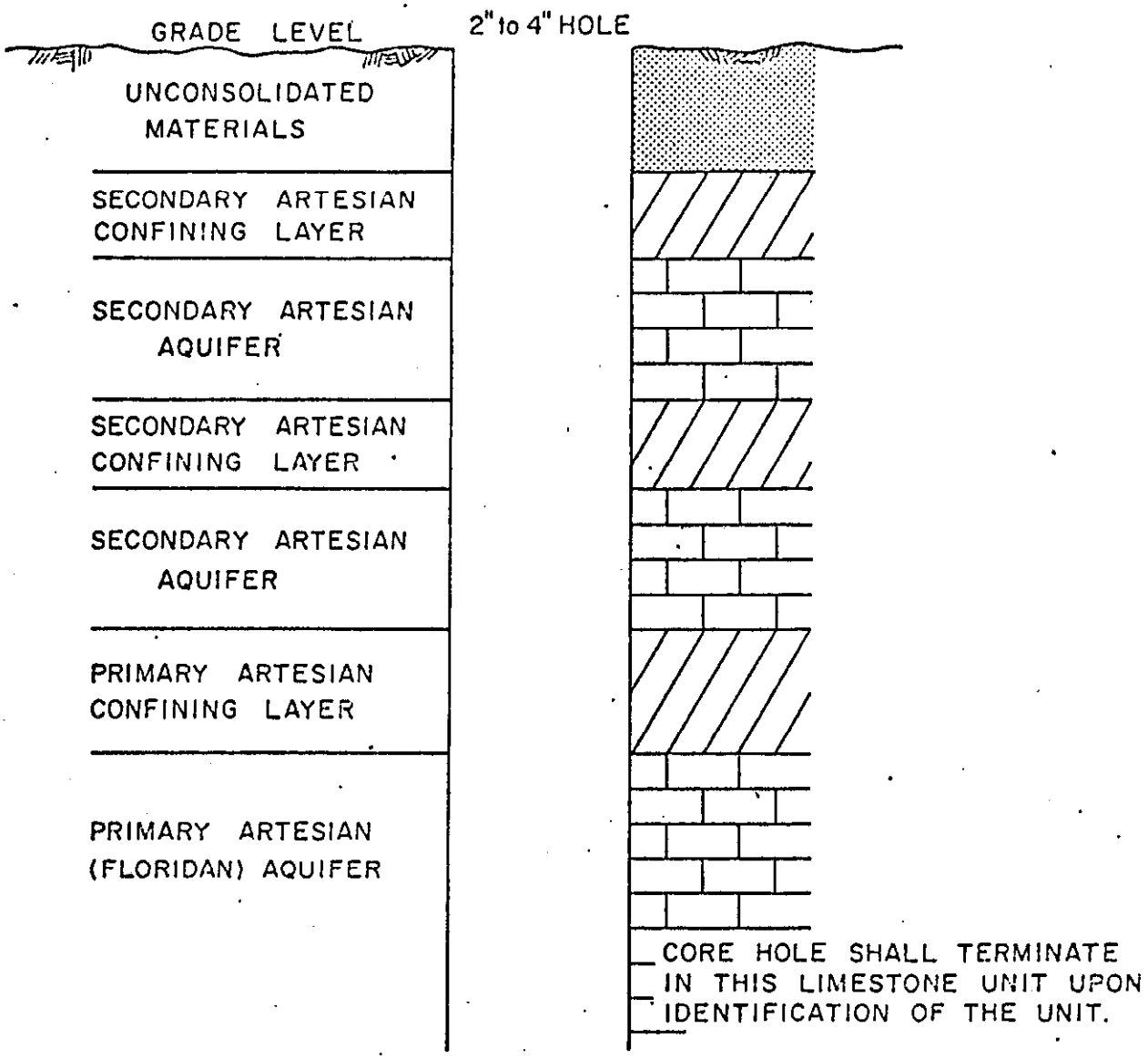
fossiliferous limestone.

clayey, sandy limestone.

fossiliferous, clayey, weathered limestone.

stiff blue plastic clay.

SC



SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

SPECIFICATION DRAWING

CORE BORING

#5(7/7)

DRAWN R.B.O.	CHECKED	APPROVED GHM
DATE 2/27/74	SCALE N.T.S.	PAGE TS 1-5

DWG. NO. 10-000-507 S

LITHOLOGIC WELL LOG PRINTOUT

SOURCE - FGS

WELL NUMBER: W-50013
TOTAL DEPTH: 334.5 FT.
SAMPLES - NONE

COUNTY - CHARLOTTE
LOCATION: T.40S R.24E S.20
LAT = 26D 58M 37S
LON = 81D 56M 11S

COMPLETION DATE: /09/74
ELEVATION: 10 FT
OTHER TYPES OF LOGS AVAILABLE - NONE

OWNER/DRILLER:SWFWMD; ROMP SITE # 11;

WORKED BY:RICKLES; CODED AND ENTERED BY RICHARD GREEN 12\90 FROM LOG PROVIDED BY SWFWMD. CUTTINGS.

0.	-	.	090UDSC	UNDIFFERENTIATED SAND AND CLAY
.	-	180.	122TMIM	TAMIAMI FM.
180.	-	.	122HTRN	HAWTHORN GROUP

0	-	20	SAND; MODERATE GRAY GRAIN SIZE: FINE
20	-	22	CLAY; MODERATE GRAY ACCESSORY MINERALS: QUARTZ SAND-%
22	-	30	AS ABOVE
30	-	32	CLAY; GRAYISH GREEN ACCESSORY MINERALS: QUARTZ SAND-% SOFT (LIMEROCK?) STREAK AT 31.5'.
32	-	34.5	CLAY; GRAYISH GREEN ACCESSORY MINERALS: QUARTZ SAND- %, SHELL-%
34.5	-	97	CLAY; LIGHT GRAY TO GREEN ACCESSORY MINERALS: QUARTZ SAND- %, LIMESTONE- %, SHELL-% COARSE SANDY CLAY. DECOMPOSED LIMEROCK.
97	-	128	CLAY; GREEN ACCESSORY MINERALS: QUARTZ SAND-% SOFT SANDY CLAY, LITTLE SHELL.
128	-	130	CLAY; MODERATE GRAY TO GREEN SANDY CLAY, SHELL CEMENTATION, PHOSPHATE AND SULFUR ODOR.
130	-	176	CLAY; BLUE GOOD INDURATION ACCESSORY MINERALS: PHOSPHATIC SAND-% LIMEROCK STREAK 175.5-176'.
176	-	179	CLAY; GRAYISH GREEN GOOD INDURATION ACCESSORY MINERALS: QUARTZ SAND-%
179	-	180	CLAY; GRAYISH GREEN ACCESSORY MINERALS: QUARTZ SAND-% SOFT.
180	-	194	CLAY; ALTERNATELY HARD AND SOFT STREAKS OF CLAY AND CLAYEY LS.
194	-	213	CLAY; BLUE GOOD INDURATION ACCESSORY MINERALS: QUARTZ SAND-% HARD, SANDY CLAY TURNING TO PLASTIC CLAY.
213	-	226	LIMESTONE; WHITE MODERATE INDURATION

226 - 230 LIMESTONE;
SOFT LS TURNING HARDER.

230 - 231.5 LIMESTONE;
GOOD INDURATION

231.5- 232 LIMESTONE;
POOR INDURATION
ACCESSORY MINERALS: QUARTZ SAND- %, CLAY- %, SHELL- %
OTHER FEATURES: FOSSILIFEROUS
SOFT LS WITH FOSSILS AND SHELL AND SANDY CLAY STREAKS.

232 - 248 LIMESTONE;
SOFT DECOMPOSED LIMEROCK, SANDY CLAY AND SOME SHELL IMBEDDED.

248 - 253 SAND; GRAYISH GREEN
ACCESSORY MINERALS: PHOSPHATIC GRAVEL-01%, SHELL-01%

253 - 260 LIMESTONE;
SOFT, CLAYEY, SANDY, WHITE LS. SHELL PARTICLES.

260 - 270 LIMESTONE; MODERATE GRAY TO WHITE
ACCESSORY MINERALS: SHELL- %, QUARTZ SAND- %
OTHER FEATURES: WEATHERED, FOSSILIFEROUS
HARDER DECOMPOSED LIMEROCK, SHELL, FOSSILS, LITTLE SAND.

270 - 274 LIMESTONE; MODERATE GRAY
POOR INDURATION
ACCESSORY MINERALS: CLAY- %, QUARTZ SAND- %, SHELL-%

274 - 288 LIMESTONE;
HARDER, SANDY LIMEROCK STREAKS WITH CLAY.

288 - 304 LIMESTONE;
SEDIMENTARY STRUCTURES: STREAKED
ACCESSORY MINERALS: QUARTZ SAND- %, SHELL-%
MEDIUM HARD, SANDY, GRAY, STREAKED, FOSSILS AND SOME SHELL.

304 - 318 CLAY;
GOOD INDURATION
HARD, GREENISH GRAY SANDY CLAY WITH SHELL PARTICLES.

318 - 320 LIMESTONE; WHITE
ACCESSORY MINERALS: CLAY- %, SHELL- %
OTHER FEATURES: FOSSILIFEROUS, WEATHERED
DECOMPOSED LIMEROCK WITH FOSSILS, SHELL AND CLAY STREAKS.

320 - 327 LIMESTONE; WHITE
CLAYEY WHITE LIMEROCK WITH STREAKS OF BLUE-GREEN SANDY CLAY.

327 - 334.5 CLAY; BLUE
GOOD INDURATION
OTHER FEATURES: PLASTIC

334.5 TOTAL DEPTH