Executive Summary
ROMP Site No. 16
Three Monitor Wells

Location - ROMP Site No. 16 is located along the south side of SR 760 approximately 3.7 miles east of the intersection of the same highway with SR 31 in DeSoto County. The site is located in Section 12, Township 38 South, Range 25 East and at latitude 27°11'16", longitude 81°46'26".

Site Easement - The site was obtained from Jerrold T. and Dorothy Gaskins on July 11, 1978 for the sum of one dollar. The Perpetual Easement is 30 feet by 20 feet by 42.15 feet by 23.4 feet and is contained within the Temporary Construction Easement which is 100 feet by 100 feet by 163.62 feet by 118.53 feet. The temporary easement was also obtained on July 11, 1978 for a period of 24 months and expires on July 11, 1980. These easements are recorded in O.R. Book 143 Pages 490 through 495 at the DeSoto County Courthouse.

Geology - This site is located on the Penholoway terrace at an elevation of ± 60 feet above mean sea level (MSL). All geologic data was obtained from drill cuttings from land surface to 942 feet below land surface datum (LSD). These cuttings were described by the field geologist and the general geology of the site is as follows:

0 - 70'	Sand and clay
70'-590'	Hawthorn and Tampa limestones
590'-805'	Suwannee limestone
805'-942'	Ocala group

Hydrogeology - There are two artesian systems at this site in addition to the water table. The water table extends down to around ± 90 feet below LSD. At this point the upper Hawthorn begins and acts as a confining bed consisting of clay and marl. The Hawthorn and upper Tampa limestones comprise the first artesian system in this locality. This system is

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B. Well No. 2 - the intermediate or Tampa monitor well was constructed by the District owned Portadrill between December 13, 1978 and February 1, 1979 at a cost of $15,990.43 or $47.03 per foot. This well was constructed by using 40 feet of 16 inch and 100 feet of 14 inch steel work casing, both of which were grouted in place. Then 300 feet of 6 inch PVC well casing was set in the well and grouted in place. The well was then drilled out to 340 feet in total depth.

C. Well No. 3 - the shallow or water table monitor was constructed by the District owned Portadrill between December 7, 1978 and January 17, 1979 at a cost of $5,824.09 or $208.30 per foot. This well was constructed by installing 26 feet of 14 inch steel work casing and 17 feet of 6 inch PVC well casing with 10 feet of 6 inch PVC well screen for a total depth of 27 feet. The annular space was filled with graded sand and the 14 inch steel casing was pulled.

All three wells are encased with a 4 foot section of 18 inch concrete culvert pipe for well protection.

Geophysical Logs - Electric and gamma logs were run on the Tampa monitor and the USGS ran electric, caliper, gamma, fluid conductivity and temperature logs on the Ocala well.

Type of Monitor - The shallow well is a water table monitor while the two deeper wells are designed to monitor the potentiometric levels in the upper and lower areas of the Floridan aquifer.

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Water Quality - According to the fluid conductivity log, the water between ± 400 and ± 640 feet below LSD has a conductivity from ± 10,000 to ± 1000 micromhos per centimeter (umho/cm). This would mean that the lower Tampa limestone, which falls in this general area, is generally of poor water quality. Individual water samples from ± 700 to ± 910 feet in depth show that chlorides are around 35 milligrams per liter (mg/L) and sulfates are 275 to 314 mg/L or in excess of the Drinking Water Standards.

U.S.G.S. Notification - The Technical Information Division of SWFWMD was notified on October 31, 1979 that this well was complete and ready for monitoring.

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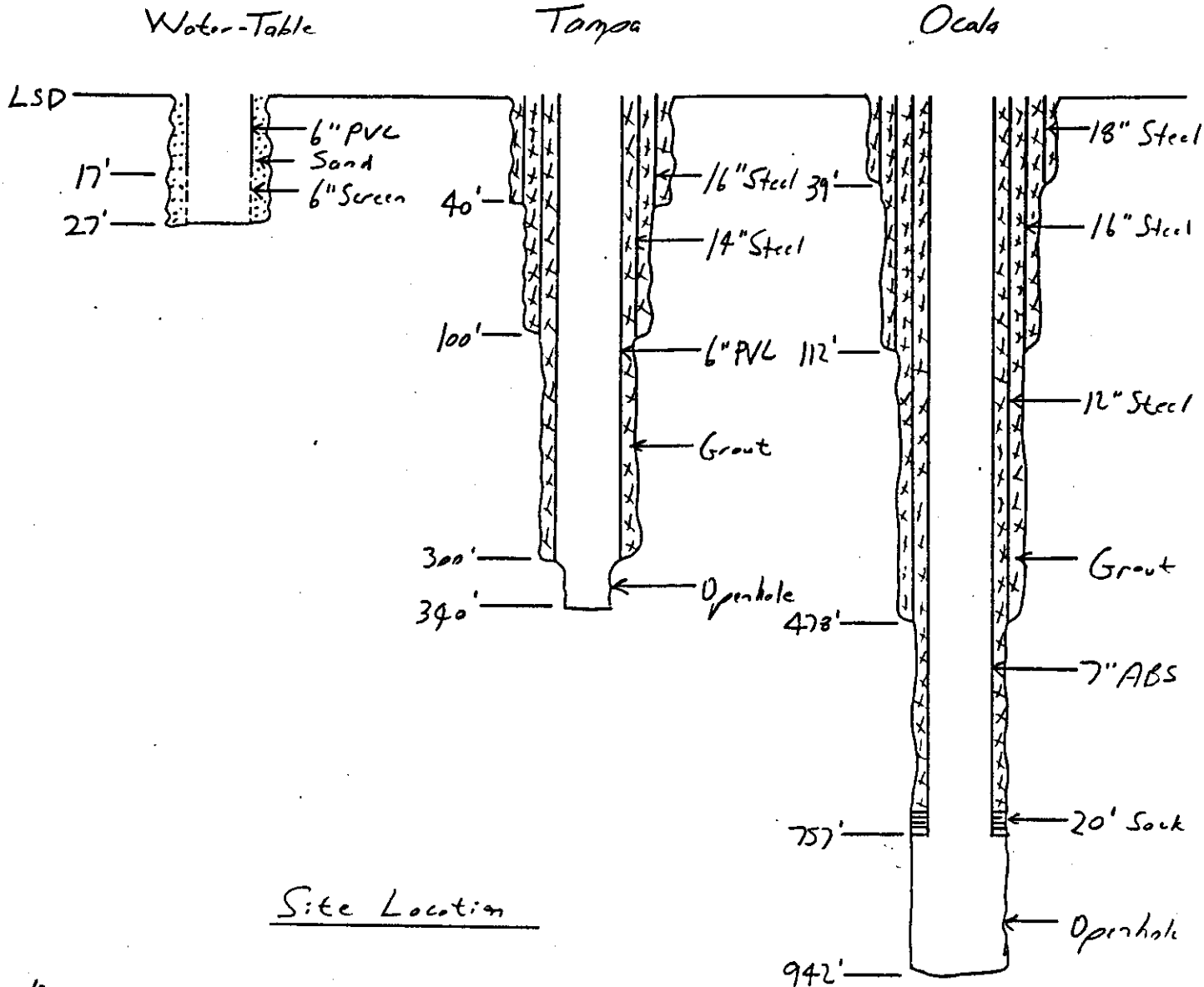
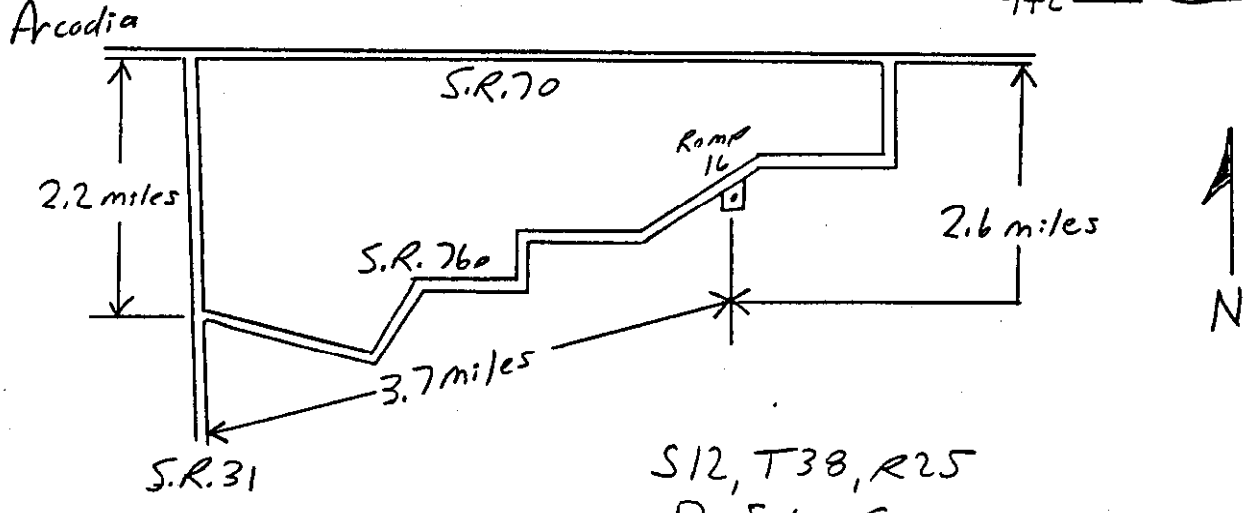
As Built
Well Diagrams



Site Location



S12, T38, R25
De Soto Co.

#2(5/5)

LITHOLOGIC WELL LOG PRINTOUT

SOURCE - FGS

WELL NUMBER: W-50001
TOTAL DEPTH: 942 FT.
SAMPLES - NONE

COUNTY - DESOTO
LOCATION: T.38S R.25E S.12
LAT = 27D 11M 16S
LON = 81D 46M 26S

COMPLETION DATE: 11/10/79
ELEVATION: 60 FT
OTHER TYPES OF LOGS AVAILABLE - NONE

OWNER/DRILLER:SWFWMD; ROMP 16; PROJECT # 20-020-51; CUTTINGS.

WORKED BY:PREEDOM. CODED BY RICHARD GREEN 1\90 FROM A GEOLOGIST'S LOG PROVIDED BY SWFWMD.
NOTE: THIS DESCRIPTION IS A COMPOSITE: 0-400' IS FROM 16-2 (W-14388) AND 405'-TD IS FROM 16-3 (W-14381).

0.	-	70.	090UDSC	UNDIFFERENTIATED SAND AND CLAY
70.	-	590.	122HTRN	HAWTHORN GROUP
590.	-	805.	123SWNN	SUWANNEE LIMESTONE
805.	-	.	124OCAL	OCALA GROUP

0	-	5	SAND; BROWN RANGE: FINE TO MEDIUM
5	-	10	AS ABOVE
10	-	15	NO SAMPLES
15	-	20	SAND; BROWN RANGE: FINE TO MEDIUM
20	-	25	SAND; GRAYISH BROWN GRAIN SIZE: FINE ACCESSORY MINERALS: CLAY-%
25	-	30	SAND; GRAYISH BROWN GRAIN SIZE: FINE ACCESSORY MINERALS: PHOSPHATIC GRAVEL-% CONTAINS BLACK PHOS. PEBBLES.
30	-	35	SAND; GRAIN SIZE: COARSE ACCESSORY MINERALS: PHOSPHATIC GRAVEL-%
35	-	40	SAND; BROWN GRAIN SIZE: MEDIUM
40	-	45	SAND; BROWN GRAIN SIZE: FINE ACCESSORY MINERALS: PHOSPHATIC GRAVEL- % PHOSPHATIC SAND-%
45	-	50	SAND; BROWN RANGE: MEDIUM TO FINE ACCESSORY MINERALS: CALCILUTITE- %, SHELL-% WITH SOME GREENISH AREAS. CONTAINS SMALL POCKETS OF MICRITE AND PELECYPOD SHELLS.
50	-	55	SAND; BROWN TO GREEN RANGE: FINE TO MEDIUM ACCESSORY MINERALS: CLAY- %, PHOSPHATIC SAND- %, SHELL-% SOMEWHAT CLAYEY. CONTAINS PELECYPOD SHELLS AND PHOSPHATE.
55	-	60	AS ABOVE WITH MORE CLAY.
60	-	65	SAND; TAN

GRAIN SIZE: COARSE
ACCESSORY MINERALS: PHOSPHATIC SAND-%

65 - 70 AS ABOVE

70 - 75 LIMESTONE; CREAM
GRAIN TYPE: BIOGENIC, CALCILUTITE, SKELETAL
POOR INDURATION
ACCESSORY MINERALS: PHOSPHATIC SAND-%
SPARSE BIOMICRITE, FRIABLE. CONTAINS SOME BLACK PHOS.

75 - 80 CALCILUTITE;
MARL- MICRITE, TANNISH OLIVE CLAY AND QTZ SAND.

80 - 85 SAND;
GRAIN SIZE: COARSE
ACCESSORY MINERALS: PHOSPHATIC SAND- %, SHELL-%
QTZ AND PHOS. SAND. CONTAINS SOME LARGE PELECYPOD SHELLS.

85 - 90 LIMESTONE;
MARL- TAN CLAY, MED. GRAINED QTZ SAND, PELECYPOD FRAGMENTS
BLK PHOSPHATE GRAINS AND MICRITE PARTICLES.

90 - 95 AS ABOVE
WITH MORE CLAY.

95 - 100 AS ABOVE
SAME AS 85-90' WITH MORE MICRITE.

100 - 105 AS ABOVE

105 - 110 LIMESTONE;
MARL- GRAYISH TAN CLAY, QTZ SAND, BLK PHOSPHATE AND MICRITE
PARTICLES. VERY GUMMY.

110 - 115 LIMESTONE; CREAM
POOR INDURATION
ACCESSORY MINERALS: PHOSPHATIC SAND- %
PHOSPHATIC GRAVEL-%

115 - 120 LIMESTONE; CREAM
GRAIN TYPE: BIOGENIC, SKELETAL, CALCILUTITE
ACCESSORY MINERALS: PHOSPHATIC SAND- %
OTHER FEATURES: WEATHERED
SPARSE BIOMICRITE, PUNKY, ABUNDANT V.F. BLK PHOSPHATE
GRAINS.

120 - 125 LIMESTONE; LIGHT GRAY TO CREAM
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: PHOSPHATIC SAND- %, CLAY- %
OTHER FEATURES: WEATHERED
VERY WEATHERED AND PUNKY, ABUNDANT BLK PHOS. GRAINS.

125 - 130 LIMESTONE;
MARL- QTZ SAND, MED-COARSE, PHOSPHATE AND MICRITE
PARTICLES.

130 - 135 LIMESTONE;
MARL- GRAY MICRITE, GRAY CLAY AND BLK PHOS., WITH MED. QTZ
SAND.

135 - 140 LIMESTONE;
MARL- GRAYISH TAN CLAY, CREAM BIOMICRITE FRAGS AND ABUNDANT
FINE PHOSPHATE GRAINS. GENERALLY GUMMY.

140 - 145 AS ABOVE

145 - 150 LIMESTONE; CREAM
GRAIN TYPE: BIOGENIC, SKELETAL, CALCILUTITE
ACCESSORY MINERALS: CLAY- %, PHOSPHATIC SAND- %
QUARTZ SAND-%
SPARSE BIOMICRITE, ABUNDANT BLK PHOSPHATE GRAINS AND SOME MED-FINE QTZ SAND.

150 - 155 LIMESTONE;
MARL- CREAM MICRITE, CREAM CLAY, FINE QTZ SAND, ABUNDANT BLACK PHOSPHATE.

155 - 160 LIMESTONE;
MARL- MOSTLY CREAM FRIABLE MICRITE WITH QTZ SAND AND ABUNDANT FINE PHOSPHATE.

160 - 165 LIMESTONE; CREAM
GRAIN TYPE: BIOGENIC, SKELETAL, CALCILUTITE
POOR INDURATION
ACCESSORY MINERALS: CLAY- %, QUARTZ SAND- %
PHOSPHATIC SAND-%
. SPARSE BIOMICRITE, VERY FRIABLE. MINOR CLAY AND QTZ SAND. ABUNDANT V.F. BLACK PHOSPHATE GRAINS.

165 - 170 LIMESTONE;
MARL- SPARSE BIOMICRITE, TAN CLAY, MINOR QTZ SAND AND ABUNDANT BLACK PHOSPHATE GRAINS.

170 - 175 AS ABOVE

175 - 180 LIMESTONE; CREAM
GRAIN TYPE: BIOGENIC, SKELETAL, CALCILUTITE
ACCESSORY MINERALS: CLAY- %, PHOSPHATIC SAND- %
OTHER FEATURES: WEATHERED
SPARSE BIOMICRITE, VERY PUNKY AND WEATHERED. MINOR CLAY FRACTION AND ABUNDANT BLACK PHOS. GRAINS.

180 - 185 AS ABOVE

185 - 190 AS ABOVE

190 - 195 LIMESTONE;
MARL- VERY WEATHERED (PUNKY) SPARSE BIOMICRITE, CREAM WITH QTZ SAND AND ABUNDANT BLK PHOS. GRAINS W/ A CLAY FRACTION.

195 - 200 AS ABOVE
WITH A HIGHER CLAY FRACTION.

200 - 205 CLAY; OLIVE TO TAN
ACCESSORY MINERALS: CALCILUTITE- %, PHOSPHATIC SAND- %
OTHER FEATURES: PLASTIC
WITH MICRITE GRANULES AND BLK PHOS. GRAINS. VERY PLASTIC.

205 - 210 AS ABOVE

210 - 215 LIMESTONE;
MARL- TANNISH OLIVE CLAY, CREAM MICRITE GRANULES, QTZ SAND AND ABUNDANT FINE PHOS. GRAINS.

215 - 220 CLAY; TAN
ACCESSORY MINERALS: CALCILUTITE- %
OTHER FEATURES: PLASTIC
MINOR MICRITE GRANULES.

220 - 225 LIMESTONE;
GRAIN TYPE: BIOGENIC, CALCILUTITE
ACCESSORY MINERALS: CLAY- %, QUARTZ SAND- %
PHOSPHATIC SAND- %

OTHER FEATURES: WEATHERED
EXTREMELY WEATHERED BIOMICRITE. PHOS. IS FINE, BLACK.

225 - 230 AS ABOVE

230 - 235 AS ABOVE

235 - 240 AS ABOVE

240 - 245 LIMESTONE; CREAM
GRAIN TYPE: BIOGENIC, SKELETAL, CALCILUTITE
ACCESSORY MINERALS: CLAY- %, PHOSPHATIC SAND- %
OTHER FEATURES: WEATHERED
SPARSE BIOMICRITE.

245 - 250 AS ABOVE

250 - 255 AS ABOVE

255 - 260 AS ABOVE

260 - 265 LIMESTONE;
MARL- CREAM TO GRAYISH CREAM MICRITE WITH TAN CLAY, QTZ SAND, AND VERY MINOR BLACK PHOSPHATE GRAINS.

265 - 270 LIMESTONE; CREAM
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: CLAY- %, PHOSPHATIC SAND- %
OTHER FEATURES: WEATHERED, DOLOMITIC
WEATHERED MICRITE AND GRAY SLIGHTLY DOLOMITIC LS. MINOR CLAY FRACTION AND BLACK PHOSPHATE.

270 - 275 LIMESTONE;
MARL- SAME AS 260-265'.

275 - 280 AS ABOVE

280 - 285 LIMESTONE;
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: QUARTZ SAND- %
OTHER FEATURES: WEATHERED
VERY WEATHERED MICRITE. EXTREMELY PULVERIZED SAMPLE.

285 - 290 AS ABOVE

290 - 295 AS ABOVE

295 - 300 AS ABOVE

300 - 305 LIMESTONE;
GRAIN TYPE: SKELETAL, BIOGENIC, CALCILUTITE
POOR INDURATION
ACCESSORY MINERALS: PHOSPHATIC SAND-%
VERY SOFT SPARSE BIOMICRITE.

305 - 310 LIMESTONE; CREAM
GRAIN TYPE: BIOGENIC, CALCILUTITE
POOR INDURATION
VERY FRIABLE BIOMICRITE.

310 - 315 LIMESTONE; CREAM
GRAIN TYPE: BIOGENIC, CALCILUTITE
GOOD INDURATION
BIOMICRITE. WELL LITHIFIED.

315 - 320 AS ABOVE

320 - 325 AS ABOVE

325 - 330 AS ABOVE

330 - 340 AS ABOVE

340 - 345 LIMESTONE; CREAM
GRAIN TYPE: BIOGENIC, SKELETAL, CALCILUTITE
POOR INDURATION
OTHER FEATURES: WEATHERED
SPARSE BIOMICRITE, SOMEWHAT WEATHERED, FRIABLE.

345 - 350 LIMESTONE; CREAM
GRAIN TYPE: BIOGENIC, SKELETAL, CALCILUTITE
POOR INDURATION
ACCESSORY MINERALS: CLAY- %
OTHER FEATURES: WEATHERED
VERY WEATHERED SPARSE BIOMICRITE, GUMMY, FRIABLE, MINOR CLAY.

350 - 355 AS ABOVE
WITH ABUNDANT FINE QTZ SAND.

355 - 360 AS ABOVE

360 - 365 LIMESTONE;
MARL- M-F QTZ SAND, TAN CLAY AND CREAM MICRITE PARTICLES.

365 - 370 AS ABOVE
WITH MORE QTZ SAND.

370 - 375 SAND;
GRAIN SIZE: FINE
ACCESSORY MINERALS: PHOSPHATIC SAND-%
WHITE, VERY WELL SORTED AND VERY CLEAN. MINOR BLACK PHOS.

375 - 380 AS ABOVE

380 - 385 AS ABOVE

385 - 390 AS ABOVE

390 - 395 SAND;
GRAIN SIZE: FINE
ACCESSORY MINERALS: CLAY- %, CALCILUTITE-%
MINOR GRAY CLAY AND CREAM MICRITE GRANULES.

395 - 400 AS ABOVE

400 - 405 NO SAMPLES
0-400' DESCRIBED BY PREEDOM (ROMP 16), 405-TD DESCRIBED BY G. NEW (ROMP 16-3?).

405 - 410 CALCARENITE; VERY LIGHT GRAY
GOOD INDURATION
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND-%
MANY SUBANGULAR TO WELL ROUNDED QTZ AND PHOS. SANDS. GOOD SORTING.

410 - 415 CALCARENITE; LIGHT GRAY
MODERATE INDURATION
ACCESSORY MINERALS: QUARTZ SAND-70%, PHOSPHATIC SAND-%
QTZ SAND IS SUBANGULAR-ROUNDED.

415 - 420 CALCARENITE; LIGHT GRAY
POOR INDURATION
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND- %

FOSSILS: FOSSIL FRAGMENTS
SOME LEACHED PHOSPHATE PEBBLES, FRAGMENTED SHELL MATERIAL.

420 - 425 CALCARENITE; VERY LIGHT GRAY
MODERATE INDURATION
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND-%
LOTS OF SUBANGULAR QTZ AND ROUNDED PHOS. SANDS, CALCIC CEMENT.

425 - 430 CALCARENITE; VERY LIGHT GRAY
POOR INDURATION
FEWER QTZ AND PHOS. SANDS, MUCH MORE CARBONATE, MORE SHELL FRAGS AND TINY PELECYPODS, GOOD COMPACTION AND SORTING.

430 - 435 AS ABOVE
SOME SMALL FROSTED QTZ PEBBLES.

435 - 440 CALCARENITE; LIGHT GRAY
ACCESSORY MINERALS: SHELL- %, QUARTZ SAND- %
PHOSPHATIC SAND-%
MANY SMALL CALCITE SHELL FRAGS., SOME FLAT LENTICULAR QTZ PEBBLES.

440 - 445 NO SAMPLES

445 - 450 LIMESTONE; CREAM TO WHITE
GRAIN TYPE: CALCILUTITE
GOOD INDURATION
ACCESSORY MINERALS: PHOSPHATIC GRAVEL-%
MANY LARGE GREY-BLACK PHOS. PEBBLES, WELL COMPACTED.

450 - 455 CALCARENITE; CREAM TO LIGHT GRAY
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND- %
SHELL-%
SOME SMALL SHELL FRAGS, MANY SMALL QTZ PEBBLES.

455 - 460 CALCARENITE; VERY LIGHT GRAY
ACCESSORY MINERALS: QUARTZ SAND- %, SHELL-%
LOTS OF QTZ BEACH SAND, SOME SMALL SHELL FRAGS., MANY SMALL QTZ PEBBLES.

460 - 465 CALCARENITE; LIGHT GRAY TO WHITE
GOOD INDURATION
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND-%
WELL CEMENTED AND FAIR SORTING. RELATIVELY HARD AND DENSE.

465 - 470 AS ABOVE
SOME QTZ PEBBLES, SOME CORAL FOSSILS.

470 - 475 LIMESTONE; LIGHT GRAY
GOOD INDURATION
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND- %
OTHER FEATURES: DOLOMITIC
MICRITE, HARD, DENSE, GOOD COMPACTION, FOSSILS ARE RARE.

475 - 480 NO SAMPLES

480 - 485 CALCARENITE; LIGHT GRAY TO CREAM
GOOD INDURATION
ACCESSORY MINERALS: SPAR- %, QUARTZ SAND- %
FOSSILS: MOLLUSKS

485 - 490 SANDSTONE;
POOR INDURATION
ACCESSORY MINERALS: LIMESTONE-%
SANDSTONE-CALCARENITE. VERY LITTLE LS PRESENT, POORLY CEMENTED, SOME CALCIC SHELL MATERIAL.

490 - 495 LIMESTONE; CREAM
GRAIN TYPE: CALCILUTITE
GOOD INDURATION
ACCESSORY MINERALS: QUARTZ SAND- %, SHELL- %
FOSSILS: MOLLUSKS
DENSE, HARD, SOME PELECYPODS AND SANDS.

495 - 500 LIMESTONE;
POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE
GOOD INDURATION
DENSE, MUCH LESS SAND, MORE PELECYPODS, RELATIVELY LOW POROSITY.

500 - 505 LIMESTONE;
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: CHERT- %, QUARTZ SAND- %, SHELL- % CLAY-%
SOME BLUE-GREEN CLAYS, SOME THIN CHERT LENSES.

505 - 510 LIMESTONE; CREAM
GRAIN TYPE: CALCILUTITE
GOOD INDURATION
ACCESSORY MINERALS: CLAY- %
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: MOLLUSKS, WORM TRACES
CONTAINS SOME BLUE-GREEN CLAYS, PUNKY, HARD, CALCIFIED WORM HOLES.

510 - 515 CLAY; BLUE TO GREEN
POROSITY: LOW PERMEABILITY
VERY FINE, SOME AREAS ARE CREAMY OR "LIMEY".

515 - 520 LIMESTONE; CREAM
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: CLAY- %, PHOSPHATIC SAND- %
FOSSILS: MOLLUSKS
MINOR BLUE-GREEN CLAY, MANY PELECYPODS, GOOD POROSITY.

520 - 525 LIMESTONE; CREAM
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND- %
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: MOLLUSKS, CORAL
NUMEROUS FOSSILS, ALMOST A FOSSIL HASH.

525 - 530 LIMESTONE; CREAM
GRAIN TYPE: BIOGENIC, SKELETAL, CALCILUTITE
FOSSILS: MOLLUSKS
PACKED BIOMICRITE, FOSSILS COMMON, PELECYPODS, ETC., DENSE MUCH LESS PHOS. MATERIAL. POROSITY IS GOOD.

530 - 535 LIMESTONE; LIGHT GRAY
GRAIN TYPE: CALCILUTITE
GOOD INDURATION
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND- % CLAY- %, SPAR-%
DENSE, HARD, SMALL GASTROPODS, CONTAINS PORCELLANEOUS CRYSTALS OF CALCITE AND SOME THIN LENSES OF CLAY.

535 - 540 CALCARENITE; LIGHT GRAY TO CREAM
ACCESSORY MINERALS: CLAY- %, QUARTZ SAND- %, SHELL- %
FOSSILS: MOLLUSKS
PUNKY, MINOR SANDS.

540 - 545 CALCARENITE; LIGHT GRAY

GOOD INDURATION
ACCESSORY MINERALS: SPAR- %
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS
RELATIVELY HARD AND DENSE, SOME SPAR AS ABOVE.

545 - 550 LIMESTONE; WHITE
GRAIN TYPE: CALCILUTITE
OTHER FEATURES: FOSSILIFEROUS, WEATHERED
LS AND DK GRAY CLAY, CLAY IS FINE AND OF LOW POROSITY.

550 - 555 CLAY; DARK GRAY
GOOD INDURATION
ACCESSORY MINERALS: DOLOMITE-%
FINE, SOME DK GRAY DOLOMITE, VERY HARD-LIKE A MUDSTONE.

555 - 560 CALCARENITE; LIGHT GRAY TO DARK GRAY
POOR INDURATION
ACCESSORY MINERALS: CLAY- %
OTHER FEATURES: WEATHERED
LS AND CLAY, LS IS SOFT, FRIABLE, PUNKY, POORLY CEMENTED.

560 - 565 LIMESTONE;
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: QUARTZ SAND-%
PUNKY MICRITE, WITH SOME THIN LENSES OF GRAY CLAYS.

565 - 570 LIMESTONE; LIGHT GRAY TO WHITE
GRAIN TYPE: CALCILUTITE
GRAIN SIZE: FINE; GOOD INDURATION
OTHER FEATURES: DOLOMITIC
DENSE, SOME THIN DOLOMITIC AREAS, WELL CEMENTED AND
COMPACTED.

570 - 575 LIMESTONE;
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: SPAR- %, CLAY- %
OTHER FEATURES: FOSSILIFEROUS
CLAY IS GREENISH GRAY, WAXY. PORCELLANEOUS CALCITE.

575 - 580 CALCARENITE;
GRAIN SIZE: FINE; GOOD INDURATION
ACCESSORY MINERALS: QUARTZ SAND-%
HARD, DENSE, FEW FOSSILS, MODERATE POROSITY.

580 - 590 CLAY; DARK GRAY
ACCESSORY MINERALS: CALCILUTITE- %, QUARTZ SAND- %
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: ECHINOID
MICRITE IS CREAM, WEATHERED.

590 - 600 LIMESTONE; WHITE
GRAIN TYPE: CALCILUTITE
POOR INDURATION
OTHER FEATURES: WEATHERED
GREENISH GRAY PUNKY, SANDY CLAY AND WHITE LS-FRIABLE.

600 - 640 NO SAMPLES

640 - 645 LIMESTONE; LIGHT GRAY TO CREAM
GRAIN TYPE: BIOGENIC, SKELETAL, CALCILUTITE
ACCESSORY MINERALS: SPAR- %
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: CORAL, MOLLUSKS, ECHINOID
PACKED BIOMICRITE, VERY FOSSILIFEROUS, ABUNDANT SPAR.

645 - 650 AS ABOVE

WELL LITHIFIED.

650 - 655 LIMESTONE; LIGHT GRAY TO CREAM
GRAIN TYPE: BIOGENIC, SKELETAL, CALCILUTITE
GOOD INDURATION
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: MOLLUSKS, ECHINOID
PACKED BIOMICRITE, VERY FOSSILIFEROUS.

655 - 660 LIMESTONE; WHITE TO CREAM
GRAIN TYPE: BIOGENIC, SKELETAL, CALCILUTITE
ACCESSORY MINERALS: QUARTZ SAND- %, SPAR- %
OTHER FEATURES: FOSSILIFEROUS
PACKED BIOMCRITE, ABUNDANT CALCITE SPAR.

660 - 665 LIMESTONE; CREAM
GRAIN TYPE: BIOGENIC, CALCILUTITE
POOR INDURATION
ACCESSORY MINERALS: QUARTZ SAND- %, SPAR- %
FOSSILS: BENTHIC FORAMINIFERA
BIOMICRITE, FRIABLE, SOME SMALL FORAMS, QTZ AND CALCIC SANDS.

665 - 670 LIMESTONE; CREAM
POROSITY: POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: BIOGENIC, CALCILUTITE, SKELETAL
POOR INDURATION
PACKED BIOMICRITE, FRIABLE, LOOSE MATERIAL, SOME FOSSILS RECOGNIZABLE, POROSITY IS GOOD.

670 - 675 LIMESTONE; CREAM
POROSITY: POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: BIOGENIC, SKELETAL, CALCILUTITE
PACKED BIOMICRITE, FOSSIL HASH, GOOD POROSITY. FOSSILS TOO WELL GROUND TO RECOGNIZE.

675 - 680 LIMESTONE; MODERATE GRAY TO CREAM
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: CLAY- %, ORGANICS- %, QUARTZ SAND- % PHOSPHATIC SAND-%
CALCIC, QTZ, AND PHOS. SANDS, SOME BLACK ORGANIC CLAYS.

680 - 685 CLAY; GREEN
ACCESSORY MINERALS: QUARTZ SAND- %, ORGANICS- % CALCILUTITE-%
WAXY, CONTAINS SOME ORGANICS AND CREAM MICRITE.

685 - 690 LIMESTONE; CREAM
GRAIN TYPE: CALCILUTITE
MODERATE INDURATION
ACCESSORY MINERALS: QUARTZ SAND-%
FEW FOSSILS, MINOR QTZ SAND, FAIR-GOOD CEMENT AND COMPACTION.

690 - 695 LIMESTONE; CREAM
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: SPAR- %, QUARTZ SAND-%
FRIABLE.

695 - 700 LIMESTONE; CREAM
GRAIN TYPE: BIOGENIC, SKELETAL, CALCILUTITE
GOOD INDURATION
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: CORAL
PACKED BIOMICRITE, DENSE, HOMOGENEOUS, WELL CEMENTED.

700 - 705 LIMESTONE; CREAM

GRAIN TYPE: CALCILUTITE
GOOD INDURATION
ACCESSORY MINERALS: SPAR- %, QUARTZ SAND-%
PUNKY IN PLACES.

705 - 710 LIMESTONE; CREAM
GRAIN TYPE: CALCILUTITE
GRAIN SIZE: FINE; GOOD INDURATION
ACCESSORY MINERALS: CLAY-%
HARD, DENSE, FEW FOSSILS, MINOR CLAY, FRIABLE, HOMOGENEOUS.

710 - 715 LIMESTONE; CREAM
GRAIN TYPE: BIOGENIC, SKELETAL, CALCILUTITE
GOOD INDURATION
OTHER FEATURES: FOSSILIFEROUS
PACKED BIOMICRITE, COPROLITES, DENSE, HARD, WELL CEMENTED.

715 - 720 LIMESTONE; CREAM
GRAIN TYPE: CALCILUTITE
FRIABLE, SOME FOSSILS, SOME COPROLITES.

720 - 745 LIMESTONE; CREAM
GRAIN TYPE: BIOGENIC, SKELETAL, CALCILUTITE
ACCESSORY MINERALS: QUARTZ SAND- %
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: MOLLUSKS
PACKED BIOMICRITE, VERY TYPICAL SUWANNEE MATERIAL.

745 - 750 LIMESTONE; VERY LIGHT GRAY
GRAIN TYPE: CALCILUTITE
GOOD INDURATION
ACCESSORY MINERALS: SPAR- %
OTHER FEATURES: DOLOMITIC
HARD, DENSE, FEW FOSSILS, ABUNDANT SPARITE, DOLOMITIC
OVERALL POROSITY IS MODERATE.

750 - 755 LIMESTONE; CREAM
GRAIN TYPE: CALCILUTITE
POOR INDURATION
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA
FRIABLE, CONTAINS CAMERINA, ETC., SOFT FOSSIL HASH, GOOD
OVERALL POROSITY.

755 - 760 LIMESTONE; CREAM
GRAIN TYPE: CALCILUTITE
POOR INDURATION
ACCESSORY MINERALS: SPAR- %
OTHER FEATURES: FOSSILIFEROUS
FRIABLE, FOSSIL HASH, GOOD POROSITY.

760 - 765 LIMESTONE; CREAM
GRAIN TYPE: CALCILUTITE
GOOD INDURATION
ACCESSORY MINERALS: SPAR-%
FRIABLE, SOFT, FAIR CEMENTATION, WELL LITHIFIED, GOOD
OVERALL POROSITY.

765 - 770 AS ABOVE

770 - 775 LIMESTONE; CREAM
GRAIN TYPE: CALCILUTITE
GOOD INDURATION
ACCESSORY MINERALS: SPAR- %
OTHER FEATURES: POOR SAMPLE
HARD, DENSE, NEARLY ALL CALCITE, SOME SPAR, ABUNDANT
CAVINGS.

775 - 780 CALCARENITE; CREAM
FOSSILS: BENTHIC FORAMINIFERA
CAMERINA ETC., SOME SAND WASHED IN.

780 - 785 LIMESTONE; CREAM TO VERY LIGHT ORANGE
GRAIN TYPE: CALCILUTITE, CRYSTALS
GOOD INDURATION
OTHER FEATURES: DOLOMITIC
MICRITE AND SPARITE, DENSE AND HARD IN SOME AREAS, OTHERS ARE FRIABLE, PARTIALLY DOLOMITIZED ZONES.

785 - 790 LIMESTONE; CREAM
GRAIN TYPE: CALCILUTITE
POOR INDURATION
FOSSILS: BENTHIC FORAMINIFERA
SOFTER, FRIABLE, NUMEROUS FOSSIL FORAMS, ABUNDANT CAVINGS-SAND.

790 - 795 LIMESTONE; LIGHT GRAY TO CREAM
GRAIN TYPE: CALCILUTITE
POOR INDURATION
ACCESSORY MINERALS: SPAR- %, CLAY- %
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA
DICTYOCONUS COOKEI, COSKINOLINA FLORIDANA. SOFT, FRIABLE THERE ARE SOME DK GRAY CLAYS AND V. MINOR SPAR. GOOD POROSITY.

795 - 800 LIMESTONE; VERY LIGHT ORANGE
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: SPAR- %
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA, ECHINOID, CORAL
LS AND CLAY. LS CONTAINS CAMERINA, LEPIDOCYCLINA, CORALS AND ECHINOID SPINES, MINOR SPAR. CLAY IS DK GRAY, WELL INDURATED, WAXY, OVERALL POROSITY IS MODERATE.

800 - 805 LIMESTONE; CREAM TO WHITE
GRAIN TYPE: CALCILUTITE
GOOD INDURATION
ACCESSORY MINERALS: SPAR- %
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS, FOSSIL FRAGMENTS
FEW FOSSILS, MOSTLY LEPS., AND PELECYPOD FRAGMENTS
FRIABLE, SOME MINOR SPAR. SOME CLAY FRAGS-CAVINGS. OVERALL POROSITY IS MODERATE.

805 - 810 LIMESTONE; VERY LIGHT ORANGE
GRAIN TYPE: BIOGENIC, CALCILUTITE
POOR INDURATION
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS, FOSSIL FRAGMENTS
BIOMICRITE, FRIABLE, CONTAINS NUMEROUS LEPIDOCYCLINA AND PELECYPOD FRAGMENTS, SOME VERY MINOR SPAR AND MINOR FRAGS OF DK BLUE-GREEN CLAYS, WELL INDURATED, WAXY, OVERALL POROSITY IS MODERATE. TOP OF OCALA BASED ON FIRST APPEARANCE OF LEPIDOCYCLINA.

810 - 815 LIMESTONE; CREAM TO WHITE
GRAIN TYPE: CALCILUTITE
POOR INDURATION
ACCESSORY MINERALS: SPAR- %
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS, FOSSIL FRAGMENTS
SOFT, FRIABLE, NUMEROUS LEPS, AND PELECYPOD FRAGMENTS, SOME MINOR SPAR, WELL LITHIFIED, MOD. POROSITY OVERALL.

815 - 820 LIMESTONE; CREAM TO WHITE

GRAIN TYPE: CALCILUTITE
GOOD INDURATION
ACCESSORY MINERALS: SPAR- %, CLAY- %
FOSSILS: CORAL, BRYOZOA, MOLLUSKS, FOSSIL FRAGMENTS
BENTHIC FORAMINIFERA
NUMEROUS FOSSIL, LEPS, MINOR SPAR, SOME CLAY FRAGMENTS, DK BLUE-GREEN, WAXY, POROSITY GOOD OVERALL.

820 - 825 LIMESTONE; VERY LIGHT ORANGE
GRAIN TYPE: CALCILUTITE
POOR INDURATION
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA
FRIABLE, LEPS., CAMERINA, ETC., WELL COMPACTED, FAIR CEMENTATION. OVERALL POROSITY IS GOOD.

825 - 830 LIMESTONE; VERY LIGHT ORANGE
GRAIN TYPE: CALCILUTITE
POOR INDURATION
ACCESSORY MINERALS: SPAR-01%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS, FOSSIL FRAGMENTS
LEPS, NUMMULITES, PELECYPOD FRAGMENTS, SOFT, FRIABLE, GOOD COMPACTION, GOOD OVERALL POROSITY.

830 - 835 LIMESTONE; VERY LIGHT ORANGE
GRAIN TYPE: CALCILUTITE
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BRYOZOA, CORAL
FAIR-GOOD SORTING AND COMPACTION, POORLY CEMENTED, GOOD POROSITY.

835 - 840 LIMESTONE; VERY LIGHT ORANGE
GRAIN TYPE: CALCILUTITE
POOR INDURATION
ACCESSORY MINERALS: SPAR-01%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA, CORAL
LEPS. NUMMULITES, ETC., GOOD COMPACTION AND SORTING, GOOD OVERALL POROSITY.

840 - 850 LIMESTONE; VERY LIGHT GRAY
GRAIN TYPE: CALCILUTITE
POOR INDURATION
FOSSILS: BENTHIC FORAMINIFERA
SOFT, FRIABLE, NUMEROUS LEPS., NUMMULITES. GOOD POROSITY.

850 - 855 LIMESTONE; VERY LIGHT ORANGE
GRAIN TYPE: CALCILUTITE
POOR INDURATION
ACCESSORY MINERALS: SPAR- %
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS, FOSSIL FRAGMENTS
FAIR-GOOD COMPACTION AND SORTING, FRIABLE, MINOR SPAR. GOOD POROSITY OVERALL.

855 - 860 AS ABOVE
EXCEPT LESS SPAR AND FEWER FOSSILS.

860 - 865 LIMESTONE; VERY LIGHT ORANGE
GRAIN TYPE: CALCILUTITE
POOR INDURATION
ACCESSORY MINERALS: SPAR-01%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA
FRIABLE, GOOD COMPACTION, FAIR SORTING.

865 - 870 LIMESTONE; VERY LIGHT ORANGE
GRAIN TYPE: BIOGENIC, CALCILUTITE
POOR INDURATION
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS, FOSSIL FRAGMENTS
BIOMICRITE, CONTAINS: LEPS, NUMMULITES, GLOBIGERINA
OPERCULINA, ETC., AND SOME PELECYPOD FRAGS, FAIR SORTING
WELL COMPACTED AND POORLY CEMENTED. GOOD OVERALL POROSITY.

870 - 875 LIMESTONE; LIGHT GRAY TO WHITE
GRAIN TYPE: CALCILUTITE
POOR INDURATION
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA
SOFT, FRIABLE, WELL COMPACTED, GOOD POROSITY OVERALL.

875 - 880 LIMESTONE; CREAM TO VERY LIGHT ORANGE
GRAIN TYPE: CALCILUTITE
POOR INDURATION
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS, FOSSIL FRAGMENTS
FRIABLE, NUMEROUS FORAMS AND SOME PELECYPOD FRAGMENTS, GOOD
CEMENT AND COMPACTION, GOOD OVERALL POROSITY.

880 - 890 NO SAMPLES

890 - 900 LIMESTONE; VERY LIGHT ORANGE
GRAIN TYPE: BIOGENIC, CALCILUTITE
FOSSILS: BENTHIC FORAMINIFERA, ECHINOID
BIOMICRITE, NUMEROUS FOSSILS, THERE ARE MANY NEEDLE-LIKE
COLORLESS CRYSTALS OF CALCITE (SOME WITH TWINNING) , SOME
MINOR FRAGMENTS OF BLACK, WAXY CLAY-CAVINGS?. GOOD
POROSITY.

900 - 940 NO SAMPLES
CAVITY IN ROCK.

940 - 945 LIMESTONE;
LS AND DOLOMITE SANDS- BIOMICRITE LS, SOME SUBANGULAR QTZ
SANDS AS WELL, OVERALL A LT YELLOWISH GRAY COLOR, MANY
SMALL SPARRY CALCITE AND DOLOMITE CRYSTALS, LOOSELY
CEMENTED BY CALCIC CEMENT. OVERALL A FINE-MEDIUM SIZED SAND
WITH GOOD POROSITY.

945 TOTAL DEPTH