

CUTTINGS SAMPLE LIST

W-9,332
Humble Oil & Refining Company
Core Test #2 C.C. Travers
NWNE
Sec.35 T44S R25E
Fort Myers SE Quad, Lee County
GL:±20' TD:1,445'

Cuttings samples are available from the Florida Geological Survey in Tallahassee.

Sample Interval (Ft.)	Missing Interval (Ft.)	Sample Interval (Ft.)	Missing Interval (Ft.)
0-10		300-310	
10-20		310-320	
20-30		320-330	
30-40		330-340	
40-50		340-350	
50-60		350-360	
60-70		360-370	
70-80		370-380	
80-90		380-390	
90-100		390-400	
100-110		400-410	
110-120		410-420	
120-130		420-430	
130-140		430-440	
140-150		440-450	
150-160		450-460	
160-170		460-470	
170-180		470-480	
180-190		480-490	
190-200		490-500	
200-210		500-510	
210-220		510-520	
220-230		520-530	
230-240		530-540	
240-250		540-550	
250-260		550-560	
260-270		560-570	
270-280		570-580	
280-290		580-590	
290-300		590-600	

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Sample Interval (Ft.)	Missing Interval (Ft.)	Sample Interval (Ft.)	Missing Interval (Ft.)
600-610		1030-1040	
610-620		1040-1050	
620-630		1050-1060	
630-640		1060-1070	
640-650		1070-1080	
650-660		1080-1090	
660-670		1090-1100	
670-680		1100-1110	
680-690		1110-1120	
690-700		1120-1130	
700-710		1130-1140	
710-720		1140-1150	
720-730		1150-1160	
730-740		1160-1170	
740-750		1170-1180	
750-760		1180-1190	
760-770		1190-1200	
770-780		1200-1210	
780-790		1210-1220	
790-800		1220-1230	
800-810		1230-1240	
810-820		1240-1250	
820-830		1250-1260	
830-840		1260-1270	
840-850		1270-1280	
850-860		1280-1290	
860-870		1290-1300	
870-880		1300-1310	
880-890		1310-1320	
890-900		1320-1330	
900-910		1330-1340	
910-920		1340-1350	
920-930		1350-1360	
930-940		1360-1370	
940-950		1370-1380	
950-960		1380-1390	
960-970		1390-1400	
970-980		1400-1410	
980-990		1410-1420	
990-1000		1420-1430	
1000-1010		1430-1440	
1010-1020		1440-1445	
1020-1030			

W-9332
 Humble Oil & Refining Company (H.O.R.C.)
 Core Test #2 C.C. Travers
 NWNE
 Sec.35 T44S R25E
 Fort Myers SE Quad, Lee County
 GL:±20' TD:1445'

Brief lithlog of washed/unwashed cuttings. Cuttings available at the Florida Geological Survey in Tallahassee. Lithlog by R.S. Caughey, March, 1997.

Remarks: When no unwashed description is given it is the same as the washed description.

<u>Depth</u> (Ft)	<u>Description</u>
0-10	Ls, moderate orange pink, moldic, por, fg, v sltly sdy, numerous mollusks (molds/casts), some gastropods; a little yel gray, rexal, sltly sdy & phos Ls; some gray shell fragments
10-20	Ls, moderate orange pink as above, minor yel gray Ls as above & 25% Ls, wh, v fg, some bryozoa; a few gray shell fragments
20-30	Ls mix as above, gray shell fragments more common & 10-15% Qz sand, v fg-fg, clear, subang-ang, minor "satin spar" calcite
30-40	Shell bed, largely mollusks fragments, yel gray to wh Unwashed: same with 5-10% pale olive silts
40-50	Shell bed as above & 10-30% wh-v lt gray, v calc, phos, sltly silty Ss; overall phos 1-3% as grs/grns/fossil fragments Unwashed: As above with more Ss & pale olive silts
50-60	Ss as above; 10-20% shell fragments, mostly mollusks, phos 1-3% as grs/grns/fossils fragments Unwashed: As above, with more Ss & more pale olive silts
60-70	Ss as above, 2-4% phos grns/pebbles/grs, some loose fg-v fg Qz sand, a few shell fragments Unwashed: 50-60% olive gray, calc Sltst, remainder is Ss, minor wh Ls & some shell fragments
70-80	Qz sand, loose, v fg-fg, clear, subang-ang; 1-2% phos as v fg grs; some shell fragments, minor Ss Unwashed: 100% pale olive, calc, sltly sdy & phos, clayey Sltst
80-90	Ls, gray-yel, sdy, sltly phos, fos, sltly moldic, part rexal; some wh & moderate orange pink Ls as at 0-20', probable contamination
90-100	Ss, yellowish gray, calc, bears large shells & common molds & casts of mollusks, trace-minor phos grs, a little Ss is silty

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<u>Depth</u> <u>(Ft)</u>	<u>Description</u>
100-110	Ss as above & yel gray, v sdy Ls, numerous large mollusk fragments, minor phos grs/grns
110-120	As above, large mollusks fragments more common
120-130	As above, more wh & v lt grays, less yel gray Ss
130-140	Ss, yel gray, v lt gray, lt gray, wh, calc, trace phos, common mollusk fossils Unwashed: As above w/minor pale olive silts & minor silty Ss
140-150	Ls, wh, fg, sdy, trace phos, moldic to v moldic, numerous mollusk molds/casts, some shell fragments, minor bryozoa & echinoid spines; minor wh, calc Ss, minor yel gray, calc Ss Unwashed: As above with 5% grayish olive, clayey Sltst
150-160	Ls, wh, sdy, trace-minor phos grs, moldic, mollusks, bryozoa(?)
160-170	Ls as above, minor wh, v calc Ss & silty Ss Unwashed: As above w/trace-minor yellowish gray silts
170-180	Ls as above, some loose Qz sand, v fg-fg & 10% phos as grs/grns/pebbles/fossil fragments & irregular "lumps" Unwashed: 10-20% Ls as above & 80% pale olive, sltly calc, v phos, sdy dolosilt(?)
180-190	Mix of Ls as above, loose Qz sand & phos grs/grns/fossil fragments, loose mollusk fragments & some up-hole contamination Unwashed: nearly all pale olive, calc, phos, fos clays
190-200	Largely about equal mix of loose Qz sand, fg-v fg, clear, subrnd-subang, & phos grs; 5-10% wh, sdy, fos Ls Unwashed: 10% Ls as above, 90% pale olive to greenish gray, sdy, phos, silty clays
200-210	As above, now 40% Qz sand, 60% phos grs Unwashed: 100% dk greenish gray, v phos, sdy, calc, clayey Sltst
210-220	40/60% Qz sand/phos grs/grns/fossils Unwashed: 100% lt olive gray, phos, sdy, clayey, calc Sltst
220-230	Ls, wh & yel gray, v fos, sdy, phos, some is silty, rarely sltly dolomitized, common mollusk shell fragments, numerous bryozoa & common cheilostome bryozoa
230-240	Ls/fossils as above; overall sltly more sand, phos & silt; phos as small bl (fewer brn) grs & specks @ 3-6%

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<u>Depth</u> <u>(Ft)</u>	<u>Description</u>
240-250	As above, mollusks, bryozoa & cheilostome bryozoa still abundant
250-260	As above, minor dolomitization of some bryozoa
260-270	As above, with 5-15% yellowish gray & lt gray, sdy, phos, fos Ls which is weak-moderately rexal
270-280	Ls, yel gray & lt gray, sdy, phos, fos, part rexal, cheilostome bryozoa common
280-290	As above, minor sparry calcite
290-300	Qz sand, loose, v fg-fg & 5-10% phos grs; common shell fragments & Ls with cheilostome bryozoa Unwashed: largely Sltst, phos, sdy, fos, calc, pale olive
300-310	Mix of loose Qz sand as above, wh, sdy, phos, fos Ls & mollusk fragments Unwashed: Largely Sltst, calc, pale olive, phos, sdy, fos & some Ls as above
310-320	Ls, wh to yel wh, abundant bryozoa, common-numerous cheilostome, bryozoa numerous mollusk shell fragments, some coarsely xln calcite, phos grs @ 1-3%
320-330	Ls, v lt gray, sdy, phos, fos; some Ls as above; overall phos 2-5% as small bl/brn grs
330-340	Ls, wh & v lt gray, sdy, phos, fos, numerous bryozoa, some cheilostome bryozoa, common large mollusk shell fragments; phos 2-4%
340-350	Ls as above, more mollusk shell fragments, some Ls is sltly silty Unwashed: as above & 5-10% Sltst, pale olive, phos
350-360	Ls as above, rare stgly dolomitized Ls Unwashed: as above w/5-10% Sltst, phos. pale olive
360-370	Ls as above; numerous mollusk shell fragments, minor coarsely xln to sparry calcite, numerous bryozoa, some cheilostome bryozoa, some Ls is silty Unwashed: as above w/minor silts
370-380	Ls as above, numerous bryozoa, some cheilostome bryozoa, shell fragments, phos grs @ 1-3%
380-390	Ls as above; numerous bryozoa & cheilostome bryozoa, Ls is more silty; phos 2-6% as small bl/brn grs

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<u>Depth</u> <u>(Ft)</u>	<u>Description</u>
390-400	Ls/fossils as above, overall more silty & a little Ls weak-moderately dolomitized
400-410	Ls as above & loose Qz/phos small grs Unwashed: Ls as above & 40-60% wh-v lt gray, calc, phos, sdy, sltly clayey Sltst
410-420	Ls, wh, yel gray, sdy, phos, fos, common bryozoa & cheilostome bryozoa Unwashed: As above & much v crumbly, silty, clayey(?) Ls as above
420-430	Largely loose Qz sand & phos grs, minor Ls as above Unwashed: Ls, wh, crumbly, sdy, phos, silty, clayey(?), no bryozoa, some echinoid spines & mollusks, common minute forams
430-440	As above, possibly minor fragments of phosphatic crusts(?) Unwashed: as above
440-450	Ls, wh & yel wh, sdy, phos, fos, numerous bryozoa & mollusk shell fragments; 2-5% phos grs/grns/fossil fragments; minor fg, gray, brn gray Ls (possible phosphatic crust?); trace pale olive, silty clays Unwashed: as above w/more silty clays(5-15%)
450-460	Ls as above, a few cheilostome bryozoa, a little Ls has been weakly to stgly dolomitized; some loose Qz sand & phos grs Unwashed: as above w/30-50% pale olive, silty, sdy, phos clays
460-470	Ls, wh, fg, sdy, phos-v phos, fos, some mollusk, a few bryozoa; 20-30% loose phos grs/fossil fragments & 5-10% loose Qz sand, fg, subang, clear Unwashed: Ls as above w/10-25% clays & silts
470-480	Ls/fossils as above, some echinoid spines, a few gastropods, loose phos & Qz sand as above Unwashed: Ls as above w/5-15% wh silts & clays
480-490	Ls, wh, some w/yellowish tint, fg, fos, sdy, phos, some bryozoa, mollusks, echinoid spines, overall phos less than above, now 1-2% as small bl/brn grs; trace Dol Unwashed: As above w/5-20% wh silts/clays
490-500	As above, minor Ls, v fg, phos, sdy, v lt gray to wh w/ bluish tint
500-510	Ls/fossils as above, phos now 2-5%, including some loose phos/Qz grs; 2-4% of Ls has been weak-stgly dolomitized by pale olive to gray orange sucrosic Dol; mollusks common & cheilostome bryozoa present Unwashed: as above w/5-15% wh silts & clays

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<u>Depth</u> <u>(Ft)</u>	<u>Description</u>
510-520	Ls as above, minor loose phos/Qz grs; 1-2% calc, phos Ss Unwashed: As above, minor silts & clays
520-530	40% Ls as above; 60% Ls, grayish yel, silty, por, sdy, sltly phos, carries barnacles, mollusks Unwashed: as above, minor silts
530-540	Ls, wh, sdy, phos, fos, numerous large mollusks fragments, common echinoid spines, some bryozoa, phos 2-4%; trace-minor xln Dol; fossils commonly coarsely rexal Unwashed: as above w/some silts
540-550	About 50/50 mix of Ls as above & phos/Qz grs Unwashed: as above w/25-45% wh silts/clays
550-560	85% phos/Qz grs & 15% Ls as above Unwashed: Largely Ls as above & silts/clays
560-570	Mix of loose Qz/phos grs & Ls as above Unwashed: largely wh, clays & silts, some Ls as above
570-580	Largely loose Qz sand, v fg-fg, ang-subang, clear; 5-10% phos grs; some Ls/fossils as above Unwashed: largely wh-lt gray, silts & clays & some Ls
580-590	Largely loose Qz sand as above & 5-10% phos grs, small brn/bl & small fossil fragments; some Ls/fossils as above
590-600	Ls, wh, fg, sdy, phos, numerous large mollusks fragments, common bryozoa & echinoid spines, some cheilostome bryozoa Unwashed: as above, some silts/clays
600-610	Ls/fossils as above; 2% very pale orange (vpo), fg, euhedral Dol; minor loose Qz sand/phos Unwashed: as above & 5-10% pale olive clays; some silts
610-620	Dol, vpo & yellowish gray, fg-medium, euhedral, some is phosphatic, some is brecciated, some vuggy; 20% phos grs/grns/pebbles/fossils; common phosphatic crusts(?) Unwashed: as above with 15-30% pale olive clays & dolosilts
620-630	Ls, wh, fg, sdy, phos, fos, numerous cheilostome bryozoa & mollusks; 10% Dol as above; 15% phos crusts(?) as above; 5-10% phos grs/grns/fossil fragments Unwashed: as above & some silts & clays

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<u>Depth</u> <u>(Ft)</u>	<u>Description</u>
630-640	As above, less Dol & phos crusts Unwashed: as above, some silts & clays
640-650	Ls, wh, fg, sltly sdy & phos, fos, abundant cheilostome bryozoa, most Ls is weakly to stgly dolomitized; 10-20% Dol, yellowish gray, fg, sucrosic, some w/cheilostome bryozoa remaining undolomitized Unwashed: as above & 10-20% wh-lt gray clays & silts
650-660	As above, washed & unwashed
660-670	As above, sltly more Dol, some w/small vugs; 5-15% phosphatic crusts(?), a few phos fossils/grns Unwashed: as above w/some wh silts & clays
670-680	Dol as above; 10-20% Ls as above, minor phos crusts(?), a few phos fossils/grns Unwashed: as above w/some wh silts & clays
680-690	Ls, wh, fg, fos, v little sand or phos; Ls, wh to yel gray, gran, por, sltly moldic, little to no sand or phos (this Ls was totally dolomitized in 670'-680' sample); 5% phos crusts(?); 5% Dol as above; possible red algae Unwashed: as above, minor silts & clays
690-700	Mix of Ls described above, common cheilostome bryozoa, some echinoid spines, possible red algae; overall v little phos & sand; minor Dol & phos crusts(?) Unwashed: as above, minor silts & clays
700-710	Ls/fossils as above, some mollusk shell fragments Unwashed: as above w/significant wh silts & clays
710-720	Ls/fossils as above, 10-15% mix of Dol & phos crusts & phos fossils/grns; rare Ls, v sdy & phos Unwashed: as above w/some silts & clays
720-730	Ls, sdy, phos, fos, wh, some w/yellowish tint, common shell molds/casts, some echinoid, some cheilostome bryozoa, rare sparry calcite in vugs, overall phos 3-8% as small brn/bl grs; minor Dol & phos crusts(?)
730-740	Ls mix, some sdy, phos as above, some wh, yellowish wh, fg, little to no phos & sand, v fos, por, shell fossils common, rarely sparry calcite in vugs Unwashed: as above

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<u>Depth</u> <u>(Ft)</u>	<u>Description</u>
740-750	Ls, grayish yel, gran, fos, chalky, little to no sand or phos, sparry calcite in vugs common; 10-20% Ls mix of wh, fg, fos & v lt gray, fg, sdy, phos, these Ls carry bryozoa, mollusks, echinoid spines
750-760	Ls, wh to v lt gray, fg, sdy, phos, fos; some wh, fg, fos Ls, some gray yel, gran Ls; 30% Dol, yel gray, fg, sucrosic, phos, small vugs; some cheilostome bryozoa, echinoid spines, mollusks & possible red algae Unwashed: as above
760-770	Ls, wh & v lt gray, fg, sdy, phos fossils, common, small mollusks, some sparry calcite in vugs, overall phos 1-4% as small grs; minor Dol & Ls as above Unwashed: as above
770-780	As above, overall somewhat more sdy & phos
780-790	Ls, v lt gray, sdy, phos as above & wh, yel wh, fg, chalky, fos, sltly moldic, sometimes with sand & phos, generally without; these Ls grade into one another; sparry calcite common
790-800	Ls, v lt gray, wh, sdy, phos, fos, some wh, fg, chalky; sparry calcite present
800-810	As above
810-820	Ls, wh & v lt gray, sdy, phos, fos, fg, some mollusks, gastropods & <i>Sorites</i> present; overall phos 1-3% as small grs; minor sparry calcite
820-830	As above
830-840	As above, overall phos now 2-4%
840-850	As above, overall phos 2-5%; minor wh, fg, fos Ls with little to no phos/sand
850-860	Ls, v lt gray, sdy, phos, fos & Ls, yellowish wh, sltly sdy, phos, fos, por, common sparry calcite in vugs & minor wh, fg, fos Ls; <i>Sorites</i> present, cheilostome bryozoa present, mollusks, echinoid spines
860-870	As above, overall an increase in sand & phos
870-880	Mix of v lt gray & grayish yel, sdy, phos, fos Ls, phos 2-6% as small grs; some mollusks, gastropods & occasional crab claw
880-890	Ls, v lt gray, sdy-v sdy, phos, fos, overall phos 3-10% as small bl & some brn grs

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<u>Depth</u> <u>(Ft)</u>	<u>Description</u>
890-900	Ls, v lt gray & yel gray, sdy, phos, fos & some yel gray, fg, fos Ls; <i>Sorites</i> present, a few crab claws; overall phos 2-5%
900-910	Ls, wh & yel gray, fg to gran, fos, sltly sdy & phos, some sparry calcite, <i>Sorites</i> present, mollusks, echinoid spines, cheilostome bryozoa; overall phos at 1-3% as small grs
910-920	Ls as above, now only minor phos & sand, por, crab claws, echinoid spines, mollusks, gastropods; some sparry & coarsely xln calcite; trace grayish orange, sucrosic Dol
920-930	Ls, wh, fg, fos, sdy, phos; minor pale olive phos, clayey Sltst; minor moderate orange pink, fg, moldic, fos Ls; trace loose sand, some grs FeO _x stained Unwashed: as above, with 5% silts/clays
930-940	Ls, wh, lt gray, yel gray, sdy, phos, fos; 5% Dol, yel gray, sucrosic, phos; 5-10% wh, lt gray, calc, phos Ss; echinoid spines, mollusks, bryozoa
940-950	Ls, vpo, por, sdy-v sdy, rarely phos, v fos, moldic, common mollusks, gastropods, echinoid spines, some small forams & crab claws; minor lt gray & wh, calc, phos Ss
950-960	Ls as above; minor Ss as above
960-970	Ss, wh, yel wh, lt gray, calc, phos, fos, grades to a v sdy-sdy, fos Ls; common to numerous crab claws
970-980	Ls, vpo, sdy, sltly phos, fos, some is silty, some Ss as above; common rexal mollusk fragments, some crab claws
980-990	Ls, vpo to grayish orange, sdy, sltly phos, fos, por, part rexal; a little wh, sdy, phos Ls; minor grayish orange, sucrosic Dol
990-1000	Ls, vpo, sdy-v sdy, little to no phos; some Ls, wh, sdy, sltly phos, fos; common crab claws; trace-minor Dol as above
1000-1010	Ls, vpo, fg, silty, fos, rare to no phos; some crab claws, common bryozoa
1010-1020	Ls, vpo to wh, some silty as above, most is part rexal, por, moldic, little to no sand, rare to no phos; common gastropods, crab claws, some mollusks
1020-1030	Ls, vpo, part rexal, fos, pelloidal, some forams, gastropods, bryozoa, little sand, no phos

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<u>Depth</u> <u>(Ft)</u>	<u>Description</u>
1030-1040	Mix of Ls as above & Ls, vpo, micritic, sdy-v sdy, no phos; bryozoa, some mollusks, forams
1040-1050	Ls, vpo, sdy, med-stgly rexal, fos, no phos, overall more rexal than above, common sparry calcite; crab claws common
1050-1060	Mix of Ls, vpo, sdy, fos as above & wh to v lt gray, sdy, sltly phos, fos; both are part rexal, some sparry calcite, common rexal mollusk shells; 20% loose Qz sand, clear, fg, subang-ang Unwashed: as above w/20% silts, rare clays
1060-1070	Ls mix, vpo, sdy as above; lt gray, sdy, micritic; wh, sdy, sltly phos, fg; mollusks, echinoid spines, gastropods; phos 1%, some loose Qz sand
1070-1080	Ls, vpo, pelloidal, foram rich, part rexal, little sand, no phos; some vpo, sdy w/forams, some v lt gray, micritic, sdy; some sparry calcite, echinoid spines, gastropods, bryozoa
1080-1090	Ls, vpo, v lt gray, wh, foram rich, some pelloidal, por, part rexal, echinoid spines, mollusks, little sand, no phos
1090-1100	Ls, vpo, pelloidal, foram rich, part rexal, some wh, lt gray as above
1100-1110	Ls, wh to vpo, gran, microfoss, chalky, some part rexal, no sand, no phos
1110-1120	Ls mix, about 40% as wh Ls as above & 60% Ls, vpo, part rexal, por, v fos, pelloidal, foram rich, carries a little sand, no phos
1120-1130	Ls mix as above (very small sample)
1130-1140	Ls, vpo, part rexal, por, pelloidal, foram rich, some carries sand, rarely minor phos; echinoid spines, gastropods, some mollusks; minor lt gray, fos Ls; rare vpo, sucrosic Dol
1140-1150	Ls/fossils as above, occasional crab claw
1150-1160	Ls/fossils as above; minor fg, wh, chalky Ls & lt gray, fg-micritic, fos, moldic Ls; rare v sdy, fos Ls w/minor phos
1160-1170	Ls as above & 20% is v sdy, grading to a foram rich Ss (small sample)
1170-1180	Ls as above & 15-25% sdy Ls as above & minor, v lt gray, micritic, sdy, fos Ls
1180-1190	Ls mix as above, some vpo, micritic, sdy Ls
1190-1200	Ls, vpo to wh, part rexal, v fos & 20% loose Qz grs (small sample)

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<u>Depth</u> <u>(Ft)</u>	<u>Description</u>
1200-1210	Ls mix, mostly vpo, part rexal, foram rich & some is sdy, some wh, fg, chalky & some vpo, micritic fos; rare to no phos in any; echinoid spines, mollusks
1210-1220	Ls as above, mostly vpo, foram rich & some wh, chalky
1220-1230	Ls, vpo, part rexal, foram rich, some carries sand; Ls wh, chalky, gran, microfoss; numerous echinoid spines
1230-1240	Ls, vpo, foram rich as above, echinoid spines common, crab claws (small sample) Unwashed: as above w/5-10% silts
1240-1250	Ls, stgly rexal, vpo, v fos, forams, no sand, no phos, echinoid spines, mollusks, some crab claws Unwashed: as above w/≤5% silts
1250-1260	Ls as above, echinoid spines common-numerous, rare phos grs; a little sand; trace sucrosic Dol
1260-1270	As above
1270-1280	As above, sltly less rexal
1280-1290	As above; some wh, sdy, phos Ls (contamination?); a few phos grns/ fossil fragments; bryozoa, echinoid spines
1290-1300	Ls, vpo, part rexal, gran-microgran, no sand, no phos, echinoid spines, some gastropods, some mollusk fragments
1300-1310	55% Dol, grayish orange, most is fg-med xln, sucrosic, vuggy, a little is v fg xln, no sand, no phos; 45% Ls, wh, v fg, chalky, fos, no sand, no phos
1310-1320	Dol as above, minor wh Ls as above
1320-1330	Dol as above, most is fg, sucrosic, a little medium grained, sucrosic, some small vugs
1330-1340	Dol as above, minor (1-2%) Ls, most is wh, sdy, phos, fos & clearly is contamination, a little is vpo, gran, microgran, v fos, foram rich Ls (typical Suwannee)
1340-1350	As above
1350-1360	As above
1360-1370	As above

W-9332, H.O.R.C., CT #2 C.C. Travers, Fort Myers SE Quad

<u>Depth</u> <u>(Ft)</u>	<u>Description</u>
1370-1380	As above
1380-1390	As above
1390-1400	As above
1400-1410	As above
1410-1420	As above
1420-1430	As above
1430-1440	Dol as above; 3% Ls, most is wh, fg, chalky, fos, gran-microgran, v fos; a few large, wh <i>Lepidocyclina</i> fragments, some <i>Camerina</i>
1440-1445	Dol as above, 5% Ls/fossils as above, a few <i>Lepidocyclina</i> fragments are weakly dolomitized

W-9332, HORC Core Test #2 C.C. Travers
NWNE Sec. 35, T44S R25E
Lee County (Fort Myers SE Quad)
GL ±20', TD 1445'

Stratigraphic formations picked by F. San Juan, Jr. 8/9/76

0-30	Caloosahatchee formation
30-175	Tamiami formation
175-980	Hawthorn formation
980-1100	St. Marks formation
1100-1310	Suwannee limestone
1310-1445	Ocala group

Lith log by F. San Juan, Jr. 8/9/76

<u>Depth</u>	<u>Description</u>
10	Ls, gray orange, gray yel, pp vugs, 1% Qz sand, 1% limonite, foss frag, mollusks, echinoids, foss mold.
20	Ls, gray orange, gray yel, pp vugs, 1% Qz sand, 1% limonite, mollusks, bryozoa, foss mold, echinoids.
30	Ls, v lt orange, gray orange, 1% Qz sand, 1% limonite, mollusks, forams, echinoids. Shell bed, gray orange, yel gray, 5% Qz sand, 1% limonite, 1% gypsum, mollusks, forams, echinoids, ostracods.
40	Shell bed, Ls, gray orange, lt ol gray, 3% Qz sand, 3% phos sand, 3% phos gravel, mollusks, vertebrate, foss frag.
50	As above.
60	Ls, gray orange, lt ol gray, 7% Qz sand, 5% phos sand, 3% phos gravel, mollusks, forams, foss frag. Small forams, possibly miliolids, Valuuleria floridara, Virgulina fosiformis, Elphidium incertum, Pyrulina albatrossi.
70	As above.
80	As above.
90	Ls, yel gray, v lt orange, pp vugs, 7% Qz sand, 1% phos sand, 1% clay, lo recrys, mollusks, forams, echinoids, foss mold, foss frag. Possible cavings of grayish orange Ls from top 30 feet.
100	Ls, yel gray, lt ol gray, 30% Qz sand, 1% phos sand, 1% clay, 1% phos gravel, md recrys, foss frag, mollusks.

<u>Depth</u>	<u>Description</u>
110	As above.
120	As above.
130	Ls, yel gray, lt ol gray, pp vugs, 30% Qz sand, 1% phos sand, 1% clay, 1% phos gravel, md recryst, foss frag, mollusks, forams.
140	As above.
150	Ls, v lt gray, yel gray, pp vugs, 15% Qz sand, 1% phos sand, lo recryst, foss frag, mollusks, foss mold.
160	Ls, v lt gray, yel gray, pp vugs, 3% Qz sand, 1% phos sand, lo recryst, foss frag, mollusks, foss mold.
170	As above.
180	As above. Ls, yel gray, gray orange, pp vugs, 15% Qz sand, 10% phos sand, mollusks, echinoids, forams, bryozoa.
190	As above. Sand, dk yel br, v lt orange, 45% phos sand, 5% Ls, forams, foss frag, vertebrate, echinoids, shark teeth, small forams including Asterigerina.
200	As above.
210	Phosphate, dk br, dk yel br, 45% Qz sand, 25% Ls, forams, foss frag, vertebrate, echinoids, shark teeth.
220	Sand, dk br, dk yel br, 45% phos sand, 25% Ls, forams, foss frag, vertebrate, echinoids, shark teeth.
230	Ls, lt gray, gray yel, pp vugs, 1% Qz sand, 1% phos sand, 1% phos gravel, mollusks, bryozoa, vertebrate.
240	As above.
250	Ls, lt gray, yel gray, pp vugs, 10% Qz sand, 5% phos sand, mollusks, bryozoa, coral, echinoids.
260	Ls, v lt orange, yel gray, pp vugs, 10% Qz sand, 5% phos sand, mollusks, bryozoa, coral, echinoids.
270	As above.
280	Ls, v lt orange, yel gray, pp vugs, 5% Qz sand, 5% phos sand, lo recryst, mollusks, bryozoa, coral, echinoids.

<u>Depth</u>	<u>Description</u>
290	As above.
300	Ls, v lt orange, yel gray, pp vugs, 3% Qz sand, 3% phos sand, lo recryst, mollusks, bryozoa, echinoids, ostracods.
310	As above.
320	As above. 20-30% of rock are bryozoans.
330	As above.
340	Ls, v lt orange, yel gray, pp vugs, 3% Qz sand, 3% phos sand, lo recryst, mollusks, bryozoa, echinoids, ostracods, forams.
350	As above.
360	As above.
370	Ls, v lt orange, gray yel, pp vugs, 3% Qz sand, 3% phos sand, lo recryst, mollusks, bryozoa, echinoids, ostracods, forams.
380	As above.
390	Ls, gray orange, lt gray, pp vugs, 3% Qz sand, 3% phos sand, lo recryst, mollusks, bryozoa, echinoids, ostracods, forams.
400	As above.
410	Ls, v lt gray, yel gray, pp vugs, 5% Qz sand, 3% phos sand, lo recryst, mollusks, bryozoa, echinoids, ostracods, forams, small Operculinoide-like forams.
420	As above.
430	As above.
440	Ls, v lt orange pp vugs, 5% Qz sand, 5% phos sand, 1% phos gravel, 1% Dolomite, lo recryst, mollusks, bryozoa, echinoids, ostracods, forams, a few pieces of dark gray microxln Dolomite.
450	As above. Dolomite makes up around 10% of rock.
460	Ls, yel gray, gray yel, pp vugs, 5% Qz sand, 5% phos sand, 1% phos gravel, 1% Dolomite, lo recryst, mollusks, bryozoa, echinoids, ostracods, forams.
470	Ls, v lt gray, lt br, 1% Qz sand, 5% phos sand, mollusks, echinoids, bryozoa, shark teeth.

<u>Depth</u>	<u>Description</u>
480	As above.
490	Ls, v lt orange, yel gray, 1% Qz sand, 5% phos sand, mollusks, echinoids, bryozoa, forams, foss frag.
500	As above.
510	Ls, v lt orange, gray br, 1% Qz sand, 3% phos sand, lo recrys, mollusks, echinoids, bryozoa, forams, foss frag.
520	Ls, v lt orange, yel gray, 1% Qz sand, 1% phos sand, 1% phos gravel, lo recrys, mollusks, echinoids, bryozoa, forams, shark tooth.
530	Ls, v lt orange, yel gray, 1% Qz sand, 1% phos sand, 1% phos gravel, lo recrys, mollusks, echinoids, bryozoa, forams.
540	As above.
550	As above.
560	Ls, v lt orange, gray yel, pp vugs, 3% Qz sand, 3% phos sand, mollusks, echinoids, bryozoa, vertebrate, forams.
570	As above.
580	As above.
590	As above.
600	Ls, v lt orange, pp vugs, 1% Qz sand, 1% phos sand, 1% phos gravel, 3% Dolomite, lo recrys, mollusks, bryozoa, echinoids, forams, foss frag.
610	As above.
620	Dolomite, yel gray lt ol gray, 1% Qz sand, 1% phos sand, 3% phos gravel, 15% Ls, md recrys, mollusks, bryozoa, crustacea, echinoids, some Dolomite (5-10% dark gray microxln variety) Dolomitic fracture zone.
630	As above. Ls, v lt orange, v lt gray, pp vugs, 1% Qz sand, 1% phos sand, 1% phos gravel, 1% Dolomite, lo recrys, poor samp, mollusks, bryozoa, echinoids, foss frag, forams.
640	As above.
650	As above.
660	Ls, v lt orange, pp vugs, 1% Qz sand, 1% phos sand, lo recrys, mollusks, bryozoa, echinoids, foss frag, forams.

<u>Depth</u>	<u>Description</u>
670	Ls, v lt gray, yel gray, pp vugs, 1% Qz sand, 1% phos sand, 10% phos gravel, 12% Dolomite, lo recrys, mollusks, bryozoa, echinoids, shark tooth.
680	Dolomite, yel gray, lt gray, 1% phos sand, 15% Ls, 5% phos gravel, md recrys, sucrosic, mollusks, bryozoa, echinoids, shark tooth. Dolomite unfossiliferous, phosphatic gravel all in Ls (possible cavings).
690	Ls, v lt orange, yel gray, pp vugs, 1% Qz sand, 1% phos sand, 1% phos gravel, 5% Dolomite, lo recrys, chalky, mollusks, bryozoa, foss mold, forams, foss frag.
700	As above.
710	Ls, v lt orange, yel gray, pp vugs, 1% Qz sand, 1% phos sand, 15% phos gravel, 5% Dolomite, lo recrys, chalky, mollusks, bryozoa, echinoids, forams, foss frag.
720	As above.
730	Ls, v lt orange, yel gray, pp vugs, 5% Qz sand, 5% phos sand, phos gravel, lo recrys, chalky, mollusks, bryozoa, echinoids, forams, foss frag.
740	Ls, v lt orange, pp vugs, 3% Qz sand, 1% phos sand, lo recrys, chalky, mollusks, bryozoa, echinoids, forams, foss frag.
750	Ls, v lt orange, gray orange, pp vugs, 1% Qz sand, 1% phos sand, lo recrys, chalky, mollusks, bryozoa, echinoids, forams, foss frag.
760	Ls, v lt orange, lt gray, pp vugs, 1% Qz sand, 1% phos sand, lo recrys, chalky, mollusks, bryozoa, echinoids, forams, foss frag.
770	As above.
780	Ls, v lt orange, lt gray, pp vugs, 3% Qz sand, 3% phos sand, lo recrys, chalky, mollusks, bryozoa, echinoids, forams, foss frag.
790	Ls, v lt orange, lt gray, pp vugs, 1% Qz sand, 1% phos sand, phos gravel, lo recrys, chalky, mollusks, bryozoa, echinoids, forams, foss frag.
800	As above.
810	No sample.
820	As above.
830	Ls, v lt orange, lt gray, pp vugs, 1% Qz sand, 1% phos sand, lo recrys, chalky, mollusks, bryozoa, echinoids, forams.
840	As above.

<u>Depth</u>	<u>Description</u>
850	Ls, v lt orange, lt gray, pp vugs, 5% Qz sand, 3% phos sand, lo recrys, chalky, mollusks, bryozoa, forams, ostracods.
860	As above.
870	As above.
880	As above.
890	As above.
900	Ls, v lt orange, lt gray, pp vugs, 7% Qz sand, 5% phos sand, lo recrys, chalky, mollusks, bryozoa, forams, ostracods.
910	Ls, v lt orange, lt gray, pp vugs, 3% Qz sand, 1% phos sand, lo recrys, chalky, mollusks, bryozoa, echinoids, forams.
920	Ls, v lt orange, gray br, pp vugs, 1% Qz sand, 1% phos sand, mollusks, bryozoa, ostracods, forams, echinoids.
930	Ls, v lt orange, yel gray, pp vugs, 5% Qz sand, 3% phos sand, lo recrys, chalky, mollusks, bryozoa, ostracods, forams, echinoids.
940	Ls, v lt orange, gray orange, pp vugs, 5% Qz sand, 3% phos sand, lo recrys, chalky, dolomitic, mollusks, bryozoa, ostracods, forams, echinoids.
950	Ls, v lt orange, gray br, pp vugs, 7% Qz sand, 1% phos sand, lo recrys, chalky, mollusks, bryozoa, echinoids, foss frag.
960	As above.
970	Ls, v lt orange, gray br, pp vugs, 12% Qz sand, 1% phos sand, 1% phos gravel, mollusks, crustacea, vertebrate, bryozoa, forams.
980	As above.
990	Ls, v lt orange, gray br, pp vugs, 3% Qz sand, 10% phos sand, 1% phos gravel, 1% Dolomite, lo recrys, poor samp, mollusks, bryozoa, echinoids, forams, vertebrate. Two types of Ls, dominant one is light tan with 1-3% sand, calcarenitic, one white-gray with sand and phosphate (possible cavings)
1000	As above.
1010	Ls, v lt orange, gray br, pp vugs, 3% Qz sand, 1% phos sand, 1% phos gravel, 3% clay, lo recrys, poor samp, mollusks, bryozoa, echinoids, forams, foss frag.

<u>Depth</u>	<u>Description</u>
1020	Ls, v lt orange, yel gray, pp vugs, 1% Qz sand, 1% phos sand, 1% Dolomite, lo recrys, coquina, mollusks, bryozoa, echinoids, forams, ostracods. Partly miliolid with a few grains of sand, cavings of grayish Ls with sand and phosphate.
1030	As above.
1040	Ls, v lt orange, gray br, pp vugs, 1% Qz sand, md recrys, coquina, poor samp, mollusks, bryozoa, echinoids, forams, ostracods.
1050	As above.
1060	Ls, v lt orange, gray br, pp vugs, 3% Qz sand, 1% phos sand, 3% phos gravel, md recrys, coquina, poor samp, mollusks, bryozoa, echinoids, forams, ostracods.
1070	Ls, v lt orange, gray br, pp vugs, 1% Qz sand, 1% pyrite, md recrys, coquina, poor samp, mollusks, bryozoa, echinoids, forams, ostracods.
1080	As above.
1090	Ls, gray orange, lt ol gray, pp vugs, 1% Qz sand, 1% phos gravel, md recrys, coquina, poor samp, mollusks, bryozoa, echinoids, forams, ostracods.
1100	Ls, gray orange, lt ol gray, pp vugs, 1% Qz sand, md recrys, coquina, poor samp, mollusks, bryozoa, echinoids, forams, ostracods.
1110	Ls, v lt orange, pp vugs, md recrys, mollusks, bryozoa, echinoids, forams, ostracods.
1120	Ls, v lt orange, gray br, pp vugs, 1% Qz sand, md recrys, coquina, mollusks, bryozoa, echinoids, forams, ostracods.
1130	As above.
1140	As above.
1150	As above. Miliolid coquina, <i>Rotalia mexicana</i> noted. Sand present in some (less than 1%)
1160	As above.
1170	As above.
1180	Ls, v lt orange, gray br, pp vugs, 1% Qz sand, md recrys, coquina, mollusks, bryozoa, echinoids, forams, ostracods, <i>Rotalia mexicana</i> present.
1190	As above.

<u>Depth</u>	<u>Description</u>
1200	As above.
1210	As above.
1220	As above.
1230	As above.
1240	As above.
1250	Ls, v lt orange, gray br, pp vugs, md recrys, coquina, mollusks, bryozoa, echinoids, forams, ostracods.
1260	Ls, v lt orange, gray br, pp vugs, 1% Qz sand, 1% phos sand, 1% phos gravel, md recrys, coquina, poor samp, mollusks, bryozoa, echinoids, forams, ostracods, spicules common, cavings.
1270	As above.
1280	As above. Sand and phosphate not in matrix of Ls, cavings.
1290	Ls, yel gray, v lt orange, pp vugs, 1% phos gravel, 1% phos sand, 1% Qz sand, lo recrys, poor samp, mollusks, bryozoa, worm trac, echinoids, forams.
1300	Ls, v lt orange, gray br, pp vugs, lo recrys, coquina, mollusks, bryozoa, worm trac, echinoids, forams.
1310	Ls, v lt orange, lo recrys, mollusks, bryozoa, crustacea, foss frag. Dolomite, md yel br, dk yel br, hi recrys, sucrosic, mollusks, echinoids.
1320	Dolomite, md yel br, dk yel br, 10% Ls, hi recrys, sucrosic, mollusks, echinoids.
1330	Dolomite, md yel br, dk yel br, hi recrys, sucrosic, mollusks, echinoids.
1340	Dolomite, gray orange, md yel br, 1% Ls, 1% phos gravel, hi recrys, sucrosic, poor samp, no fossil.
1350	As above. A few fragments of Ls and phosphate from cavings.
1360	As above.
1370	As above.
1380	As above.
1390	As above.

<u>Depth</u>	<u>Description</u>
1400	As above.
1410	As above.
1420	As above.
1430	As above.
1440	As above.
1445	Ls, v lt gray, v lt orange, pp vugs, mollusks, forams, first appearance of large <i>Lepidocyclina</i> and <i>Operculinoides</i> .