W-9336
Humble Oil & Refining Company
Core Test #1 Tamiami Land Co.
NWNE sec 4, T46S R32E
Hendry County, LaBelle 4 SW Quad
GL: ±32' TD: 1008'

Washed & unwashed cuttings are available from the Florida Geological Survey cuttings library in Tallahassee. Brief lith log of washed cuttings by R.S. Caughey in November 1998.

Depth in feet below GL	DESCRIPTION
0-10	Loose Qz sand, vf-f-m-a little coarse, clear, subang-rnd, some of the larger grs are ltly frosted, otherwise no frosting.
10-20	Loose Qz sand as above, now med & coarse are more common; 3-6% phos material as fos, grs, grns; trace phos Ss; trace Ls.
20-30	45% Loose Qz sand as above; 10-20% phos material as fos frags, irregular shaped small to large masses, most are pale yel brn, lt to med brn, peach, brn orange; 35-45% Dol, pale yel orange, fg xln, sltly sdy(f).
30-40	Mollusk shell frags; minor loose vf-f Qz sand.
40-50	Ls, lt to med gray, sdy to v sdy, sltly phos, fos-v fos, numerous mollusks, some gastropods, echinoid spines; ±½% phos as small bl grs.
50-60	As above.
60-70	As above.
70-80	As above, with common f drusy calcite.
80-90	Ls/Ss, wh, sltly phos, mollusks, gastropods, grades between a sdy to v sdy Ls and a calc Ss.
90-100	As above.
100-110	As above, with numerous shell frags, bryozoa, gastropods.
110-120	As above.
120-130	Largely mollusk shell frags; 15-25% pale yel brn, fg sdy, sltly phos, silty(?) Ls.
130-140	As above, overall more phos material; minor wh, fg, sdy, phos Ls.

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Depth in feet below GL	DESCRIPTION
140-150	(small sample) 60% Loose Qz sand, vf thru coarse; some shell frags, some wh, fg, sdy, phos Ls & 15-30% cement.
150-160	(small sample) As above, more cement.
160-170	65% Shell frags; 35% loose Qz sand, vf thru coarse; minor phos grs.
170-180	As above, less loose Qz sand.
180-190	Ss/Ls, pale olive, sltly phos to phos, carries large mollusk shells, grades between a v sdy Ls to a calc Ss; most sand is vf-f, some med, a little coarse.
190-200	As above.
200-210	85% Loose Qz sand, vf thru coarse; 2-4% phos grs, grns, fos frags; ±5% shell & fos frags; 20% dusky to grayish red, sdy to v sdy, fos, silty(?) claystone; some Ss as above. This loose Qz & fos material is probably what remained after washing the claystone.
210-220	80% Loose Qz sand as above; 10% shell frags; 10% pale yel brn, fg, sltly phos Ss & minor dusky red claystone as above.
220-230	As above, rnd/coarse Qz grs are more common than above, & some are ltly frosted; minor clayey, fg Ss & dusky red, clayey dolosilt.
230-240	As above, common yel gray, fg, sltly phos Ss, bearing mollusks; trace claystone.
240-250	As above, with 30% Ss, grayish brn, yel gray, fg, sltly phos.
250-260	Loose Qz sand, vf-f(v little med & coarse), clear, ang-subrnd, mollusk shell frags & minor yel brn, fg Ss.
260-270	As above.
270-280	As above, more shell frags, more coarse Qz sand & a rare pebble.
280-290	As above, with a few Qz pebbles; minor siltstone and claystone.
290-300	As above, with 30-35% pale yel brn, clayey, fg sdy siltstone.

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Depth in feet below GL	DESCRIPTION
300-310	(small sample) As above, with some yel gray, clayey, sdy siltstone & some yel gray, calc, fg sdy Ss.
310-320	(small sample) 30-40% Phos material as small grs, grns, fos frags, most are bl, some brnish bl; 30-40% loose Qz sand, vf-f-a little med & coarse; 30-40% Ss, yel gray, fg & some yel gray, clayey, fg sdy siltstone. [This sample was probably a clayey, sdy, v phos siltstone, before being washed.]
320-330	(small sample) 40-50% Qz sand as above; 40-50% shell frags; 4-8% phos material as above; a little olive gray, sdy claystone.
330-340	(small sample) 45% Loose Qz sand; 45% loose phos material as above; 10% lt olive gray, sdy, phos claystone; some shell frags.
340-350	70% Loose Qz sand, vf thru coarse, most are med to coarse, most clear, some larger grs are cloudy to gray, rnd & some are ltly frosted; 20% phos material as above; 10% shell/fos frags.
350-360	Ls, yel gray, dirty wh, sdy-v sdy(fg), phos(small bl grs), fos, mollusks, encrusting bryozoa, minor cheilostome bryozoa, crab claws; overall phos @ 1-2%.
360-370	Ls/fos as above; overall more sand & phos(2-4%); trace clayey, sdy siltstone.
370-380	80% Ls/fos as above; 20% Ls, v pale orange(vpo), clayey, silty, v sltly phos, made up entirely of encrusting & cheilostome bryozoa frags.
380-390	Largely encrusting & cheilostome bryozoa frags with a little clay, silt & phos sticking to some fos frags.
390-400	Ls, wh, sdy to v sdy(fg), phos(1-2% as small bl grs), fos, mollusks, echinoid spines, some bryozoa as above.
400-410	Ls/fos as above; trace fg, dolomitic Ls.
410-420	About equal mix of Ls/fos as above; large mollusk shell frags & yel wh, fg, moldic, fos, sltly sdy & fos Ls.
420-430	50-60% Large mollusk shell frags, rest is a mix of two Ls types as above.
430-440	Mix of cheilostome bryozoa frags(a few appear to be modly weathered?) & mollusk shell frags; some to common fg, silty, clayey(?) Ls.

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Depth in feet below GL	DESCRIPTION
440-450	Largely cheilostome bryozoa frags, some-common mollusks frags, some echinoid spines; a little silty(clayey?) Ls as above; little to no phos.
450-460	Ls, wh, sltly phos & sdy, fos, numerous mollusk shell frags, common cheilostome bryozoa & echinoid spines, Ls & fos appear to be wkly to modly weathered(?); minor pale yel brn, sdy dolosilt; 10-20% Dol, pale yel brn & yel gray, fg xln, sltly phos; 5% Dol/phos crust(?), a few phos grns & pebbles.
460-470	Ls/fos as above, most Ls appears to be wkly to modly weathered; 2-5% Dol & 2-4% phos material as above.
470-480	Ls, wh, v phos, sdy, fos, mollusks, bryozoa, echinoid spines; 8-16% phos material as grns, fos, grs, a few shark teeth, colors are brn, brnish orange, brnish bl, bl.
480-490	Ls as above, with v abundant cheilostome bryozoa, some mollusk shell frags; phos material as above @ 5-10%
490-500	Ls, wh, fos, sltly phos to phos, mollusks, encrusting & cheilostome bryozoa; 10-20% phos material as crusts, fos, grs, grns(most phos is gray, grayish bl, grayish brn, brn bl, bl).
500-510	As above; trace pale yel brn siltstone.
510-520	As above; trace yel brn siltstone.
520-530	50-60% Ls, wh, phos, sdy, fos, mollusks, cheilostome bryozoa; 40-50% phos material, largely as mod brn, irregular shape grns/grs, common brnish bl, grayish bl, grs/grns/fos frags; trace siltstone.
530-540	As above, with 15-25% phos material, including a little phos crust; 5% pale yel brn, sdy, phos dolosilt.
540-550	As above.
550-560	As above, with 20-30% phos material, most as small & med size, bl, brn, brnish bl grs.
560-570	As above, with 8-16% phos grs & grns; 5-10% loose Qz sand (f-vf) & small phos grs. [This sample was probably a pale yel brn sdy, phos, clayey, poorly consolidated siltstone before being washed]
570-580	30-40% phos material as grs, grns, fos, crust; 10% Dol, yel gray, pale yel brn, f xln, sucrosic; 50-60% Ls/fos as above.

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Depth in feet below GL	DESCRIPTION
580-590	As above.
590-600	As above, phos material now 20-30% as above.
600-610	Ls, wh, v fos, phos, sltly sdy, encrusting & cheilostome bryozoa, mollusks, echinoid spines; 10-20% phos material, largely fos frags(bl & brnish bl), common grns & a little phos crust; minor Dol.
610-620	Dol, yel gray, pale yel brn, f xln, sucrosic, sltly phos; 1-3% phos material as above; ±10% Ls/fos as above.
620-630	85% Ls/fos as at 600-610', abundant mollusk shell frags, common encrusting & cheilostome bryozoa & echinoid spines; 5-15% phos material, most is phos crust & phos/Dol crust; common phos fos & grns; 1-3% Dol as above.
630-640	Ls, wh to v lt gray, fg, phos to v phos, sdy, fos, some mollusks & crab claws; phos @ 2-6% as small bl & brn grs; minor Dol & phos material.
640-650	Ls, wh, v fos, sample is almost entirely cheilostome bryozoa frags, a few echinoid spines & mollusk frags.
650-660	Ls/fos as above, now also common encrusting bryozoa, a few small flat, relatively thick Lepidocyclina(?).
660-670	Ls, lt to med gray, fg, little sand, v phos(10-20% as small & med, brn, tan, gray & some bl grs), Sorites present, a few mollusks, a few red algae frags.
670-680	Ls/fos/phos as above; overall sltly less phos & more mollusks & echinoid spines.
680-690	As above.
690-700	As above, overall less phos; 10-20% Ls, yel wh, fg, much less phos & sand, v fos, abundant mollusks(replaced med drusy calcite).
700-710	Ls, v lt gray, some yel gray, sdy to v sdy(f-vf), some mollusks & crab claws; 5-10% phos material, largely as irregular grns & fos and common sdy, phos crust.
710-720	75% Ls/fos as above; 20% Ls, wh & med gray, micritic, sdy & phos; 5% phos material as above; trace dk yel brn, med xln, sucrosic Dol; some echinoid spines.
720-730	Ss, yel gray & pale yel brn, fg-vfg, phos, dolomitic; minor micritic, dolomitic, gray to olive gray Ls; trace to minor dolomitic, blackish red siltstone.

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Depth in feet below GL	DESCRIPTION
730-740	Ss as above; ½-1½% phos as small & minute specks & grs, most are bl color.
740-750	Ss as above, most yel gray color, some maybe sltly silty.
750-760	Ss as at 730-740'.
760-770	Ss as above, overall sltly more phos(1-2%).
770-780	Ss as above, sltly more pale yel brn thru yel gray; trace-minor blish red siltstone.
780-790	Ss, v lt gray, lt gray, yel gray, some pale yel brn, fg, phos, sltly dolomitic, a few mollusks impressions.
790-800	Ss as above, most yel grays & pale yel brns.
800-810	Ls, wh, v fos, sltly sdy & phos, mollusks, echinoid spines, crab claws, bryozoa; 5-10% Ss as above; minor micritic Ls.
810-820	Ss, pale yel brn, vfg-fg, sltly phos, sltly dolomitic.
820-830	Ls, v lt gray, wh, fg-vfg, phos(tan, brn, some bl grs), little sand, fos, abundant mollusks most replaced by xln calcite (commonly as med to coarse xls).
830-840	As above.
840-850	70% Dol, dk yel orange, pale yel orange, pale yel brn, med-coarsely xln; ±30% Ls, wh, granular, peloid rich (some forams?), generally 70-90% replaced by Dol as described above; some Ls & Ss as at 820-830'(cavings?).
850-860	Ls, v pale orange, granular, foram & peloid rich, v stgly rexal, commonly wkly dolomitized; 5-10% Dol as above.
860-870	Ls, vpo, wh, granular, commonly appears to be brecciated (erosional bx?) & recemented by xln calcite & sometimes minor Dol, some mollusks, echinoid spines, gastropods, no sand & no phos; minor Ls, wh, fg, "chalky", with red algae frags.
870-880	Ls/Ls bx(?) as above; 10-20% Ls, wh, vfg, "chalky" with common red algae frags.
880-890	Ls, vpo, granular, peloid & foram rich, v stgly rexal by calcite & rarely fine euhedral, yel to clear Dol; the Ls bx is gone, only minor wh, vfg Ls with red algae.
890-900	10-20% Ls, vpo, granular, v stgly rexal as above; 80-90% Ls, wh, vfg, "chalky", with abundant red algae frags.

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Depth in feet below GL	DESCRIPTION
900-910	About equal mix of granular & wh, vfg, "chalky" Ls as above, both units appear to carry Lepidocyclina (numerous, small to large, flat to nearly flat, yel yel gray to lt gray color), also numerous red algae frags; trace fine, euhedral Dol.
910-920	Ls/fos as above, Lepidocyclina(very abundant, generally med to large, flat to sltly saddle shape, yel gray & v lt gray), numerous red algae frags, a few echinoid spines.
920-930	Ls, v pale orange(vpo), microgranular, v fos, abundant Lepidocyclina(most vpo,large, sltly saddle shaped, some Leps as above), common red algae frags; trace silty, carbonaceous Ls.
930-940	Ls/fos as above, very abundant Lepidocyclina, some to common red algae frags.
940-950	As above; some small, flat, lt gray Lepidocyclina.
950-960	As above, some small flat, lt gray & common larger, saddle shape, lt gray Lepidocyclina; overall some of the microgranular Ls appears to be v sltly silty & some takes on a lt gray tint.
960-970	As above; grayish tinted Ls is gone & little to no silt.
970-980	As above.
980-990	Ls/fos as above, with common Operculinoides.
990-1000	About half is Ls/fos as above & half is lt to med gray, microgranular Ls with lt-med gray Lepidocyclina and Operculinoides.
1000-1008	Ls, vpo, microgranular, numerous vpo Lepidocyclina & Operculinoides.

Total Depth: 1008'BGL.