

W-9321
 Humble Oil & Refining Company
 #1 Core Test Lee Land Company
 SESE sec 36, T46S R27E
 Lee County, Corkscrew Quad
 GL: ±20' TD: 1020'

Cuttings are available at the Florida Geological Survey cuttings library in Tallahassee. Brief lith log by R.S. Caughey in July 1999.

Depth in feet below GL	DESCRIPTION
GL-10	Ss, wh, wkly to modly lt brn FeOx stained, calc-v calc, Qz grs are vf-f, most are f, subang-subrnd, v rare, small bl phos grs, a few mollusks.
10-20	Shell bed--v abundant mollusks & gastropods; 10-15% Ss, wh(as above) without the FeOx stain.
20-30	Shell bed/Ss as above; minor med gray, fg Ss.
30-40	80% Ss, lt-med gray, fg; 20% shell bed as above; minor Ls, micritic, dk gray, fos/moldic.
40-50	80% Shell bed; mostly larger mollusk shell frags; 20% Ls, dk-med gray, micritic, few molds, a few med gray cheilostome bryozoan fragments.
50-60	80% Shell bed, numerous mollusk shell frags, common cheilostome bryozoan frags; 20% lt-med gray, fg, calc Ss and a little med gray, micritic Ls(as above).
60-70	75% Shell bed as above; 25% Ls, micritic, lt-med gray; trace phos crust(?).
70-80	60% Shell bed as above; 40% Ls, yel wh, vfg, silty and Ls, lt gray-wh, fg, sdy(vf-f), fos.
80-90	Ls, wh-yel gray-lt gray, fg, sdy(vf-f), fos.
90-100	Ls as above.
100-110	Ls as above & yel gray, micritic, sltly moldic, sdy, fos.
110-120	Ls, yel gray, modly-stgly rexal, sdy-v sdy, v moldic, porous, much small, unrecognizable fos debris, rare to trace phos.
120-130	As above.
130-140	As above.
140-150	As above.

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Depth in feet below GL	DESCRIPTION
150-160	As above.
160-170	As above.
170-180	As above.
180-190	As above.
190-200	As above, with trace-minor small bl phos grs, some to common mollusk, gastropods, echinoid spines.
200-210	Siltstone, greenish gray, calc, sdy(vf), poorly consolidated, some mollusk shell frags, trace phos.
210-220	Ls, lt gray-med gray, sdy-v sdy(f), sltly phos, fg-micritic, some is moldic & fos; some Ls, yel wh, sdy, v fos, cemented by vf drusy calcite; a little Ls is v wkly dolomitic(by vf, yel wh, euhedral xls).
220-230	Ss, wh, f-vf-some med, calc, com-numerous gastropods & mollusks, trace phos.
230-240	Ss as above, sltly more phos, some is moldic; minor lt gray Ss.
240-250	Ss as above, some lt to med gray, dense Ss.
250-260	60% Ss as above; 20% Ss, pale olive, silty; 20% siltstone, greenish gray, sdy(vf-f), calc.
260-270	Siltstone, pale olive-greenish gray, calc, v sdy(vf-f), poorly consolidated, trace to minor phos.
270-280	80% Siltstone, greenish gray, sltly calc, v sdy(vf-f), trace-minor phos; 20% Ls, yel gray to v pale orange, stgly rexl, v moldic & v porous, v fos(largely as small molds), dolomitic.
280-290	Ls, v pale orange, stgly rexl, v moldic, v porous, v fos(largely as small molds), dolomitic.
290-300	60% Dolosilt, pale olive, clayey; 35% Ls, yel gray, stgly rexl, dolomitic, v fos-fos, moldic, sltly sdy; 5% Dol, wh, vf xln, subhedral.
300-310	Dolosilt, pale olive, sdy(m-c, rnd-subrnd), trace phos; minor Dol wh-yel gray, vf xln, subhedral.
310-320	30% Dolosilt, yel gray, sdy, common mollusk shell frags; 70% wh, sdy marl.
320-330	As above.

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Depth in feet below GL	DESCRIPTION
330-340	Siltstone, pale olive-yel gray, v calc, sdy(vf-f), tr phos, poorly consolidated.
340-350	Siltstone, greenish gray, calc, sltly clayey, sdy(vf-f), minor phos, poorly consolidated.
350-360	50% Siltstone as above, now phos-v phos; 50% siltstone, yel gray-dirty wh, calc, sltly clayey, phos-v phos(as bl grs, grns, some pebbles), poorly consolidated.
360-370	Siltstone as above, phos to v phos, some shell fragments.
370-380	No sample available.
380-390	50% Ls, yel gray, phos, sdy, fos, mollusks, encrusting bryozoan; 50% Ls, wh-v lt gray, fg, moldic/fos, phos, sltly sdy.
390-400	Ls mix as above.
400-410	As above.
410-420	As above.
420-430	No sample available.
430-440	Ls, yel gray, wh, v lt gray, fg-vfg, sltly sdy & phos, fos/moldic, some mollusks, few echinoid spines, <u>Sorites</u> present.
440-450	No sample available.
450-460	Ls, yel gray, fg, sdy, phos, encrusting & cheilostome bryozoan.
460-470	75% Marl, v poorly consolidated, phos(small bl grs, some grns), sltly sdy(f); 25% Ls, yel gray, phos, sdy, fos(as above), some is wkly dolomitic, some fos material appears to be reworked.
470-480	Ls/marl as above; minor Dol.
480-490	Dolosilt, clayey, sltly sdy & phos; tr pale green, thin lam clay.
490 thru 520	No samples available.
520-530	Ls, wh, fg, phos, sltly sdy, mollusks, some echinoid spines; minor yel gray, vf xln, euhedral, sltly phos Dol.
530-540	60% Ls/fos as above; 40% loose calc silt/dust & vf Qz sand.
540-550	50% Marl, yel gray, v dolomitic, phos(grs, grns, fos, crust), sltly sdy; 50% Ls, wh, fg, phos, sltly sdy, fos, most is wkly to nearly totally replaced by yel gray, vf, euhedral Dol.
550-560	Entirely large, rexal mollusk shell frags; minor dol Ls as above.
560-570	60% Dol, yel gray thru grayish brn, phos(grs, grns, fos), microxln, vf-f xln, anhedral, subhedral, a little euhedral, some vuggy/moldic; ±35%Ls, pale yel orange, vfg-fg, sltly phos-phos, little Qz sand, fos, commonly wkly to nearly totally replaced by Dol; 3-6% loose phos as grns, fos, crust.

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GL ±20', TD 1020'

Brief Geologic Log by R. S. Caughey and C. V. Cook 11/94

<u>Depth</u>	<u>Description</u>
0-570	Not logged in 11/94. RSC did brief lith log in July 1999.
570-580	Abundant encrusting & com cheilostome bryozoan, minor pale yel/brn, microxln Dol, minor yel/gray Dolosilt w/5% bl phos grs, and 10% bl and brn phos pebbles.
580-590	(V. poor sample) Largely fossils as above and mollusk frags.
590-610	Samples missing
610-620	(Samples covered w/silt) Fossils as above, mollusk frags, LCM, and wh, chalky, fos Ls.
620-630	Sample missing
630-640	Grayish orange, v f g xln Dol, minor pale olive Dolosilt, fossils as above, rare Ls as above and 1% phos pebbles.
640-650	Wh, chalky, silty, fos Ls.
650-670	Samples missing
670-680	Grayish orange, v f g xln Dol, 30% wh, chalky, silty, fos Ls and rare phos pebbles.
680-690	Sample missing
690-700	Dol as above, 10% Ls as above, some w/phos grs.
700-710	Dol as above, mollusk frags, minor v lt gray sandy Ls, rare v p o, sandy Ls and 5% bl and brn phos pebbles.
710-720	(Samples have an orange color, possibly due to rust on casing frags) Wh, sandy Ls w/1-5% phos grs, and mollusk frags.
720-730	(Samples have orange color as above) Wh-v p o, sandy, fos Ls w/1-5% brn-gray phos grs and some w/clear calcite crystals.
730-740	As above and minor grayish orange, v f g xln Dol.
740-750	Wh-v lt gray, sl sandy Ls w/1% bl phos grs; some Ls part rexal; some w/clear calcite crystals.
750-760	(Sample has orange color as above) Ls as above and minor v lt gray, v f g xln Dol.
760-780	Ls as above.

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<u>Depth</u>	<u>Description</u>
780- 790	Sample missing
790- 800	V p o, sandy Ls; rare phos grs.
800- 810	Wh-v p o, f-med calc Ss; rare phos grs.
810- 820	V p o, sandy Ls; some part rexal.
820- 850	Wh-v p o, calc Ss and minor v lt gray, micritic, rexal Ls.
850- 870	Wh, chalky, fos Ls, some w/1% bl phos grs, mollusk frags; minor v p o-wh, calc Ss.
870- 880	Wh-v p o, part rexal Ls; some w/1% bl phos grs; some sl sandy.
880- 890	Sample missing
890- 910	Wh-v p o, granular, part rexal, sandy Ls w/rare bl phos grs.
910- 950	Loose, colorless, subang, f-crse Qz sand and minor wh sandy Ls w/1% bl phos grs; minor mollusk frags.
950- 960	Wh, rexal, fos, sandy Ls, tr to no phos.
960- 970	50% wh, rexal, fos, sandy Ls, tr to no phos; 50% v p o, granular, fos, part rexal Ls, no phos; minor v p o, f xln Dol.
970- 980	V p o, rexal, fos, granular Ls, no phos; minor v p o, f xln Dol; poss one <u>Dictyoconus</u> .
980- 990	65% largely v lt gray and lt gray, f g and micritic, fos Ls, gastropods common; 35% v p o, rexal, granular, fos Ls.
990-1000	75% v p o, part rexal, granular, fos Ls; 25% v lt gray and lt gray Ls as above.
1000-1010	V p o to wh, part rexal, fos Ls; Ls is more chalky than above.
1010-1020	V p o, rexal, fos, granular Ls; no <u>Lepidocyclus</u> observed.