

*may 1968*

ZWA S-4

36-00034W

X 291429  
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SANIBEL

TABLE A-1. GEOLOGIST LOG OF WELL L-M-2413

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FAS Pw

<u>Depth(feet)</u>	<u>Lithology</u>
0-15	Sand and shell, gray, fine to medium grained quartz, shell is variegated, fragments up to 5 mm in diameter.
15-32	Limestone, gray, hard, sparitic, fine grained quartz sand 5-10%, occasional moldic and vuggy porosity, minor shell.
32-50	Limestone, gray-white, medium hard, biosparitic, fine quartz sand 10-20%, good moldic and vuggy porosity, shell fragments abundant.
50-72	Clay, green, sandy, loose textured, shell fragments common.
72-94	Marl, green-gray, soft, calcareous clay matrix, bad sample, minor phosphorite.
94-110	Clay, green, stiff textured, quartz sand common 20-30%, phosphatic sand 10-20%.
110-125	Clay, green, stiffer textured than above, phosphorite lenses throughout interval.
125-145	Clay, green, softer than above, slightly less phosphatic, quartz sand 10-20%, minor shell fragments.
145-155	Limestone, tan, hard, biosparitic, interbedded with green silty clay, highly phosphatic with phosphorite nodules common.
155-165	Marl and limestone, beige-white, medium hard, slightly more clay than above, phosphorite and shell still abundant.
165-185	Limestone, gray-beige, hard, biomicritic, fine-medium quartz sand 5%, minor clay, phosphorite nodules and shell fragments still very abundant.
185-195	Clay, green, loose textured, shell and phosphorite as above.
195-200	Phosphorite, black, hard, rounded nodules, minor limestone fragments and shell.

SCANNED

TABLE A-1. GEOLOGIST LOG OF WELL L-M-2413 - Continued:

<u>Depth(feet)</u>	<u>Lithology</u>
200-210	Limestone, beige, medium hard, biosparitic-biomicrotic, fine quartz sand 10%, occasional moldic porosity, phosphatic nodules common.
210-216	Marl, white-tan and limestone, limestone is biosparitic as above but with 20% very fine quartz sand, white sandy clay is predominant, phosphatic.
216-221	Limestone, white, medium hard, biomicrotic but spar crystals present, good secondary porosity in most of sample, fossiliferous, phosphate nodules still present.
221-234	Marl, white, soft, predominantly loose clay, fine quartz sand 5%, shell and phosphate 10-20%.
234-256	Marl, greenish-gray, soft, clay is sandy with 10-40% very fine to fine quartz sand, highly phosphatic 10%, as nodules and fine sand.
256-261	Marl, white-gray, fine quartz and phosphoritic sand prevalent in mud matrix, shell common.
261-276	Clay and marl, gray, soft, calcareous mud matrix is predominant, stiffer than above, very fine quartz sand and silt in fine matrix, minor shell, phosphatic sand common but very fine.
276-307	Clay and marl, gray, similar to above but with less fine sand and silt in matrix and therefore stiffer in texture.
307-320	Marl, light gray-white, fine sand and silt in mud matrix in greater proportion than above, looser textured, phosphatic sand still abundant, minor shell.
320-332	Marl, white, medium, loose textured, interbedded sand, clay and limestone, calcareous mud matrix.
332-342	Limestone, light gray-white, sandy, biomicrotic, spar crystals occasional, phosphorite common.
342-347	Marl, gray, interbedded sand, limestone and clay in a micritic matrix, shell more abundant than above, phosphatic.

TABLE A-1. GEOLOGIST LOG OF WELL L-M-2413 - Co tinued:

<u>Depth(feet)</u>	<u>Lithology</u>
633-637	Marl, white, fine silt and clay predominant with limestone and shell interbedded.
637-650	Marl, gray-white, minor gray limestone 10-20% interbedded white silt and clay, shell also common.
650-666	Limestone and marl, gray, medium, interbedded clay, silt and limestone with biomicritic limestone 30-40%.
666-673	Limestone, white, medium hard, biomicritic, slightly marly, fossiliferous.
673-681	Limestone, white, medium hard, biomicritic, good secondary porosity, spar lining vugs.
681-683	Limestone, white and gray, biomicritic, medium hard, secondary porosity more extensive than above, spar as above.
683-693	Limestone, white and gray, biomicritic, harder than above, large fossil molds and casts, very good to excellent secondary porosity.
693-698	Limestone, tan-white, biomicritic, medium only, silty, good secondary porosity.
698-720	Limestone, white and gray, hard, as above at 683-693 feet, very good to excellent secondary porosity.