

GEOLOGY OF THE SURFICIAL AQUIFER SYSTEM

BROWARD COUNTY, FLORIDA

LITHOLOGIC LOGS

By Carmen R. Causarás

U.S. GEOLOGICAL SURVEY

WATER-RESOURCES INVESTIGATIONS REPORT 84-4068

Lithologic Log of Well G-2311

Lat 26°03'35", long 80°26'37"  
Sec. 28, T. 50 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Fill and soil.	5	0 - 5
Limestone, very pale orange (10 YR 8/2) and grayish-orange (10 YR 7/4), mottled; sandy, fossiliferous micrite; about 20 percent quartz, medium to very fine grained, moderately sorted (fine), angular to subrounded; about 1 percent phosphorite and heavy minerals, fine grained, rounded.	4	5 - 9
Limestone, yellowish-gray (5 Y 7/2) and dusky-yellow (5 Y 6/4); sandy, poorly washed biosparite, mollusks and calcareous algae; about 30 percent quartz, coarse to very fine grained, moderately sorted (medium), subangular to rounded; about 5 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, angular to rounded; well cemented; interbedded with about 30 percent micrite, not cemented, light-olive-gray (5 Y 6/1).	1	9 - 10
Limestone, yellowish-gray (5 Y 8/1); sandy, sparse biomicrite, mollusks; about 30 to 35 percent quartz, coarse to very fine grained, poorly sorted, subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), angular to rounded; loosely to well cemented.	5	10 - 15
Limestone, yellowish-gray (5 Y 8/1); sandy, fossiliferous dis-micrite, benthic foraminifers; about 40 percent quartz, medium to very fine grained, well sorted (fine), subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, poorly sorted, angular to rounded; interbedded with about 40 percent sand, pale-yellowish-brown (10 YR 6/2); quartzose, medium to fine grained, well sorted (medium), angular to subrounded; about 10 percent phosphorite and heavy minerals, fine grained, angular to rounded.	4	15 - 19
Sand, yellowish-gray (5 Y 8/1); quartzose, medium to fine grained, well sorted (fine), angular to subrounded; about 15 to 20 percent micrite, not cemented; about 5 percent phosphorite and heavy minerals, fine grained, subrounded to rounded; interbedded with about 20 percent limestone, yellowish-gray (5 Y 8/1) and pale-yellowish-brown (10 YR 6/2); sandy, sparse biomicrite, mollusks; about 30 to 35 percent quartz, fine to very fine grained, well sorted (very fine), angular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; well cemented.	6	19 - 25

Lithologic Log of Well G-2311--Continued

Lat 26°03'35", long 80°26'37"  
Sec. 28, T. 50 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand as above; about 20 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (very fine), subrounded to rounded; about 15 percent detrital carbonate, medium to fine grained, poorly sorted at 27 feet; interbedded with about 20 percent limestone, yellowish-gray (5 Y 8/1); sandy, poorly washed biosparite, mollusks, including <u>Chione</u> sp.; about 25 to 30 percent quartz, fine grained, subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine grained, rounded to well rounded; well cemented.	4	25 - 29
Sand as above; about 5 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), subangular to rounded; about 25 to 30 percent micrite, not cemented; interbedded with about 20 percent limestone, yellowish-gray (5 Y 8/1); sandy, fossiliferous micrite, benthic foraminifers; about 20 to 25 percent quartz, fine grained, subangular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, angular to rounded; moderately to well cemented.	4	29 - 33
Limestone, yellowish-gray (5 Y 7/2); sandy, packed biomicrite, mollusks, including <u>Chione</u> sp.; neomorphic calcite present in matrix; about 20 to 25 percent quartz, fine grained, subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subangular to well rounded; well cemented.	6	33 - 39
Limestone, yellowish-gray (5 Y 7/2); sandy, fossiliferous micrite, mollusks; about 25 to 30 percent quartz, fine to very fine grained, well sorted (very fine), subangular to subrounded; well cemented.	9	39 - 48
Limestone, yellowish-gray (5 Y 8/1); sandy, sparse biomicrite, mollusks, including pelecypods; neomorphic calcite present in matrix; about 15 to 20 percent quartz, very fine grained, angular to subrounded; well cemented.	5	48 - 53
Limestone, yellowish-gray (5 Y 8/1); sandy, fossiliferous intradismicrite, mollusks; about 15 to 20 percent quartz, very fine grained, subangular; about 5 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded.	3	53 - 56
Limestone as above; grading into a sandy, intraclastic, sparse biosparite, planktonic foraminifers, and mollusks; about 25 to 30 percent quartz, very fine grained, subangular; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; well cemented.	2.5	56 - 58.5

Lithologic Log of Well G-2311--Continued

Lat 26°03'35", long 80°26'37"  
Sec. 28, T. 50 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse biomicrite, planktonic foraminifers and mollusks; neomorphic and cavity-filling calcite are present; about 20 to 25 percent quartz, very fine grained, subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subangular to subrounded; well cemented.	6.5	58.5 - 65
Limestone, yellowish-gray (5 Y 7/2) to grayish-orange (10 YR 7/4); sandy, intraclastic, poorly washed biosparite, mollusks, bryozoans, and planktonic foraminifers; about 20 percent quartz, medium to very fine grained, moderately sorted (very fine), subangular to rounded; well cemented.	3.5	65 - 68.5
Limestone, dark-yellowish-brown (10 YR 4/2); sandy, unsorted biosparite, mollusks; about 30 to 35 percent quartz, medium to very fine grained, well sorted (fine), subangular to rounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subangular to well rounded; well cemented.	3.5	68.5 - 72
Limestone, dark-yellowish-brown (10 YR 4/2) and medium-dark-gray (N 4); sandy, unsorted intrasparite, mollusks; about 20 to 25 percent quartz, coarse to very fine grained, moderately sorted (fine), subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, very coarse to very fine grained, moderately sorted (very fine), subangular to rounded; well cemented; interbedded with about 20 percent sandy, intraclastic, unsorted biosparite; about 30 percent quartz, very coarse to fine grained, moderately sorted (medium), subrounded to rounded; about 5 percent phosphorite and heavy minerals, very coarse to very fine grained, moderately sorted (fine), subrounded to well rounded; well cemented.	3	72 - 75
Limemud, light-olive-gray (5 Y 6/1); sandy micrite; about 25 percent quartz, medium to very fine grained, well sorted (fine), subangular to rounded; about 15 percent detrital carbonate, medium grained, subrounded to rounded; about 10 percent phosphorite and heavy minerals, fine grained, rounded to well rounded; about 5 to 10 percent shell fragments at 78.5 to 82 feet.	7	75 - 82
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to medium grained, well sorted (coarse), subrounded to rounded; about 25 to 30 percent shell fragments, mollusks, bryozoans, and claw; about 3 percent RF from a calcareous sandstone to a sandy micrite; about 5 percent phosphorite, coarse grained, rounded; interbedded with about 5 to 10 percent limestone, sandy, fossiliferous micrite; about 25 percent quartz and about 3 to 5 percent phosphorite as above; about 1 percent hematite; moderately cemented.	4	82 - 86

Lithologic Log of Well G-2311--Continued

Lat 26°03'35", long 80°26'37"  
Sec. 28, T. 50 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limemud, yellowish-gray (5 Y 7/2); sandy micrite; about 15 to 25 percent quartz, coarse to very fine grained, poorly sorted, subangular to rounded; about 10 to 15 percent detrital carbonate and shell fragments, including echinoid spines, medium grained, subrounded to rounded; about 5 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (very fine), subrounded to well rounded.	9	86 - 95
Sandstone, yellowish-gray (5 Y 7/2); quartzose, coarse to fine grained, poorly sorted, subangular to rounded; about 15 to 20 percent micritic matrix; about 5 to 10 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subangular to rounded; about 5 to 10 percent detrital carbonate, coarse to medium grained, well sorted (medium), subrounded; well cemented.	1	95 - 96
Limestone, yellowish-gray (5 Y 7/2); sandy, intramicrite; about 30 to 35 percent quartz and about 5 to 10 percent phosphorite and heavy minerals as above; loosely cemented.	2	96 - 98
Limestone, yellowish-gray (5 Y 7/2); fossiliferous intramicrite, <u>Ostrea</u> sp.; same properties as above.	2.5	98 - 100.5
Missing.	1.5	100.5 - 102
Sandstone, yellowish-gray (5 Y 8/1); quartzose, coarse to fine grained, moderately sorted (medium), angular to rounded; about 15 percent shell fragments, mollusks, including gastropods, and echinoid spines; about 10 to 15 percent micritic matrix; about 5 to 10 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), subrounded to well rounded; loosely cemented.	3	102 - 105
Limestone, light-olive-gray (5 Y 5/2); sandy, sparse biomicrite, mollusks and barnacles; about 25 to 30 percent quartz, fine grained, angular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), subangular to well rounded; moderately cemented.	3	105 - 108
Missing.	3.5	108 - 111.5
Limestone as above; loosely to moderately cemented.	2.5	111.5 - 114
Limemud, yellowish-gray (5 Y 7/2); sandy, micrite; about 25 to 30 percent quartz, fine grained, angular to subrounded; about 20 percent shell fragments, mollusks and echinoid spines; about 5 to 10 percent phosphorite and heavy minerals, fine grained, subangular to well rounded.	5	114 - 119

Lithologic Log of Well G-2311--Continued

Lat 26°03'35", long 80°26'37"  
Sec. 28, T. 50 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 5/2); sandy, sparse intramicrite, barnacles (pink), echinoid spines, bryozoans, and mollusks; about 25 to 30 percent quartz, fine grained, angular to subrounded; about 10 percent phosphorite and heavy minerals, very fine grained, angular to well rounded; loosely to moderately cemented.	1.5	119 - 120.5
Missing.	8.5	120.5 - 129
Limestone, white (N 9) to medium-light-gray (N 6); sandy, sparse intramicrite, mollusks; about 20 to 25 percent quartz, very fine grained, angular to subangular; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; moderately cemented.	3	129 - 132
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse intramicrite, mollusks including <u>Turritella</u> sp. and other gastropods, bryozoans, and barnacles (pink); about 20 percent quartz, very fine grained, angular to subangular; about 15 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (very fine), angular to well rounded; loosely to well cemented.	6.5	132 - 138.5
Cavity.	.5	138.5 - 139
Limestone as above, white (N 9) to light-gray (N 7) fauna, also includes <u>Ostrea</u> sp. and fecal pellets; about 10 percent phosphorite and dark minerals, very fine grained, angular to well rounded; moderately cemented.	4	139 - 143
Limemud, yellowish-gray (5 Y 8/1); sandy micrite; about 20 percent quartz and about 10 percent phosphorite as above; about 25 to 30 percent shell fragments; loosely cemented at 147 to 148 feet.	5	143 - 148
Limestone, light-olive-gray (5 Y 6/1); sandy, intraclastic, sparse biomicrite, mollusks; about 35 to 40 percent quartz, very fine grained, angular to subrounded; about 15 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; moderately to well cemented.	3	148 - 151
Limemud, medium-light-gray (N 6) and yellowish-gray (5 Y 7/2); sandy micrite; about 30 percent quartz and about 10 percent phosphorite as above; about 25 percent shell fragments; loosely cemented in places.	3	151 - 154

Lithologic Log of Well G-2311--Continued

Lat 26°03'35", long 80°26'37"  
Sec. 28, T. 50 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-olive-gray (5 Y 6/1); quartzose, fine to very fine grained, well sorted (fine), angular to subangular; about 20 percent detrital carbonate, medium grained, and shell fragments (as much as 3 inches); about 10 to 15 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded.	5	154 - 159
Limestone, light-olive-gray (5 Y 6/1); sandy, intraclastic, sparse biomicrite, mollusks; about 35 to 40 percent quartz, very fine grained, angular to subangular; about 10 to 15 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; loosely to moderately cemented.	4	159 - 163
Limestone as above; grading into a sandy, sparse biomicrite, yellowish-gray (5 Y 5/2); about 20 percent quartz and about 10 percent phosphorite as above.	2	163 - 165
Sand, light-olive-gray (5 Y 6/1); quartzose, fine to very fine grained, well sorted (fine), angular to subangular; about 15 to 20 percent phosphorite and heavy minerals, very fine grained, angular to well rounded; about 15 to 25 percent shell fragments, mollusks, including <u>Pecten</u> sp.; about 5 to 15 percent silty micrite (limemud).	13	165 - 178
Sand, light-olive-gray (5 Y 6/1); quartzose, very fine grained, angular; about 15 percent phosphorite and heavy minerals, very fine grained, angular to well rounded; about 15 percent shell fragments; about 3 to 5 percent clay.	7	178 - 185
Sand as in 175 to 178 feet; about 10 to 15 percent shell fragments.	3	185 - 188
Sand as above; about 15 percent clayey silt and about 3 to 5 percent shell fragments.	4	188 - 192
Sand as in 178 to 185 feet; about 20 to 25 percent clayey silt; about 1 percent shell fragments.	3	192 - 195
Clay, grayish-olive-green (5 GY 3/2) and dusky-yellow-green (5 GY 5/2), silty.	13.5	195 - 208.5

Lithologic Log of Well G-2312

Lat 26°13'47", long 80°27'37"  
Sec. 32, T. 48 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Soil and muck, brownish-black (5 YR 2/1); interbedded with limestone, yellowish-gray (5 Y 8/1); sandy, fossiliferous micrite; about 25 percent quartz, medium to very fine grained, moderately sorted (fine), subangular to subrounded; about 1 to 3 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; well cemented.	3	0 - 3
Limestone, yellowish-gray (5 Y 7/2); sandy, fossiliferous micrite, bryozoans; neomorphic and cavity-filling calcite are present; about 30 to 40 percent quartz, coarse to very fine grained, moderately sorted (very fine), subangular to rounded; about 1 percent heavy minerals, very fine grained, subrounded; well cemented.	6	3 - 9
Limestone as above, very pale orange (10 YR 8/2), grayish-orange (10 YR 7/4), and moderate-yellowish-brown (10 YR 5/4), mottled.	4	9 - 13
Limestone, very pale orange (10 YR 8/2); sandy, fossiliferous dismicrite, mollusks; about 25 percent quartz, coarse to very fine grained (very fine), subangular to subrounded; about 1 percent phosphorite, medium to very fine grained, well sorted (very fine), subrounded to rounded; loosely to well cemented; interbedded with about 30 percent sandy micrite, not cemented, about 25 percent quartz as above.	6	13 - 19
Limestone as in 9 to 13 feet; loosely to well cemented.	4	19 - 23
Limestone, very pale orange (10 YR 8/2); sandy micrite grading into a sandy sparite in places; about 45 percent quartz, fine to very fine grained, well sorted (very fine), subangular to subrounded; about 1 to 3 percent phosphorite and heavy minerals, very fine grained, rounded; well cemented.	3	23 - 26
Sand, yellowish-gray (5 Y 7/2); quartzose, very fine grained to silt, well sorted (very fine), angular to subrounded; about 20 to 30 percent detrital carbonate and shell fragments, fine to very fine grained, well sorted (very fine), subrounded; about 10 to 20 percent micrite, not cemented; about 3 to 5 percent phosphorite and heavy minerals, very fine grained; coral fragment, about 2 inches long, at 33 to 36 feet.	10	26 - 36
Limestone, very pale orange (10 YR 8/2) to pale-yellowish-brown (10 YR 6/2); sandy, sparse biomicrite, abundant in gastropods and other mollusks; about 20 to 25 percent quartz, very fine grained, angular to rounded; well cemented.	3	36 - 39

Lithologic Log of Well G-2312--Continued

Lat 26°13'47", long 80°27'37"  
Sec. 32, T. 48 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1); sandy, fossiliferous micrite, mollusks, including <u>Chione</u> sp.; about 25 percent quartz, very fine grained, angular to rounded; about 1 to 3 percent phosphorite, very fine grained, rounded to well rounded; well cemented.	4	39 - 43
Limestone, light-olive-gray (5 Y 6/1) and yellowish-gray (5 Y 7/2), sandy, sparse biomicrite, mollusks, including <u>Ostrea</u> sp. and <u>Chione</u> sp.; about 25 to 30 percent quartz, very fine grained, angular to subrounded; about 3 to 5 percent phosphorite, very fine grained, rounded to well rounded; loosely to well cemented.	8.5	43 - 51.5
Limestone, yellowish-gray (5 Y 7/2); sandy, intraclastic, packed biomicrite, mollusks, including <u>Chione</u> sp.; about 25 percent quartz, very fine grained, angular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; loosely to well cemented.	1.5	51.5 - 53
Limestone, medium-dark-gray (N 4) to dark-gray (N 3); sparse, poorly washed biosparite grading into a sparse, intraclastic, poorly washed biosparite at 54 to 57 feet, abundant in gastropods and other mollusks; about 10 to 15 percent quartz, very fine grained, subrounded; well cemented.	4	53 - 57
Limestone, light-olive-gray (5 Y 6/1); sandy, packed, intradismicrite, mollusks and planktonic foraminifers; about 25 percent quartz, very fine grained, angular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; loosely to well cemented.	2.5	57 - 59.5
Limestone, medium-light-gray (N 6); sandy, intraclastic, unsorted biosparite, mollusks and foraminifers; about 15 percent quartz, very fine grained, angular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented.	3.5	59.5 - 63
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse biomicrite grading into a sandy, sparse intramicrite at 66 to 69 feet, mollusks, abundant in <u>Turritella</u> sp.; about 25 percent quartz, very fine grained, subangular to subrounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to rounded; moderately to well cemented.	6	63 - 69

Lithologic Log of Well G-2312--Continued

Lat 26°13'47", long 80°27'37"  
Sec. 32, T. 48 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Shells and shell fragments, mollusks, including <u>Turritella</u> sp. and <u>Chione</u> sp., and bryozoan; shells are up to 2 inches in length; about 20 percent quartz, coarse to very fine grained, well sorted (very fine), angular to subangular; about 5 to 10 percent phosphorite, and heavy minerals, very fine grained, subrounded to well rounded.	2	69 - 71
Limestone, as in 63 to 69 feet; moderately cemented; interbedded with shell fragments as above.	3	71 - 74
Shells and shell fragments, as in 69 to 71 feet; about 35 percent quartz, coarse to fine grained, poorly sorted, angular to subrounded; about 5 percent phosphorite, very fine grained, subrounded to well rounded.	1.5	74 - 75.5
Limestone, yellowish-gray (5 Y 7/2); sandy, packed intramicrite, mollusks, abundant in <u>Turritella</u> sp.; about 20 percent quartz, coarse to very fine grained, moderately sorted (fine), subangular to subrounded; about 3 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; moderately cemented.	3.5	75.5 - 79
Shells and shell fragments, <u>Turritella</u> sp., <u>Chione</u> sp., and other mollusks, large; about 20 percent RF, limestone, medium-dark-gray (N 4), sandy, sparse dismicrite; about 30 percent quartz, coarse to fine grained, well sorted (medium), subangular to subrounded; about 1 percent phosphorite, very fine grained, subrounded to well rounded; well cemented.	1	79 - 80
Limestone, as in 63 to 69 feet; loosely to moderately cemented.	3	80 - 83
Limestone, yellowish-gray (5 Y 7/2); sandy, intraclastic, sparse biomicrite, mollusks; about 25 percent quartz, coarse to very fine grained, well sorted (very fine), angular to subangular; about 10 percent phosphorite, coarse to very fine grained, well sorted (very fine grained), rounded to well rounded; loosely to moderately cemented; well cemented at 89 feet.	6	83 - 89
Sand, light-olive-gray (5 Y 6/1); quartzose, very coarse to medium grained, well sorted (coarse), subrounded to rounded; about 5 percent phosphorite and heavy minerals, very coarse to coarse, very fine grained, poorly sorted, rounded to well rounded; about 3 percent shell fragments; about 20 to 30 percent calcareous silt; at 94.5 to 99 feet sand with about 30 percent sandy limestone, "root like" structure.	10	89 - 99

Lithologic Log of Well G-2312--Continued

Lat 26°13'47", long 80°27'37"  
Sec. 32, T. 48 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to fine grained, moderately sorted (coarse), subrounded; about 3 to 5 percent phosphorite and heavy minerals, coarse to medium grained, well sorted (medium), subrounded to well rounded; about 10 to 15 percent shell fragments, mollusks and bryozoans.	6	99 - 105
Shells and shell fragments, mollusks; about 15 to 30 percent sand as above, at 109 to 113 feet; about 5 to 10 percent phosphorite, granules to very fine grained, poorly sorted, rounded to well rounded.	8	105 - 113
Sand, light-olive-gray (5 Y 6/1); quartzose, very coarse to very fine grained, poorly sorted, subrounded to rounded; about 3 to 5 percent phosphorite and heavy minerals, granules to very fine grained, poorly sorted, rounded to well rounded; about 40 percent shell fragments.	3	113 - 116
Shells and shell fragments as 105 to 113 feet, barnacles.	3	116 - 119
Shells and shell fragments as above; about 15 percent quartz, and about 3 to 5 percent phosphorite and heavy minerals, fine grained, rounded.	4	119 - 123
Shells and shell fragments as above, relatively small in size; about 20 percent sand at 126 to 129 feet.	10	123 - 133
Sand as in 113 to 116 feet.	6	133 - 139
Sand as above; about 30 percent shell fragments; interbedded with about 30 to 40 percent limestone, light-olive-gray (5 Y 6/1) to dark-gray (N 3); sandy, sparse biomicrite, replaced by heavy mineral, mollusks; about 25 percent quartz, very fine grained, subangular to rounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; well cemented.	.5	139 - 139.5
Limestone, very light-gray (N 8) to light-gray (N 7); sandy, sparse biomicrite, <u>Pecten</u> sp., <u>Ostrea</u> sp., and other mollusks; about 20 to 25 percent quartz, very fine grained, subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; moderately to well cemented.	1.5	139.5 - 141
Limestone, light-olive-gray (5 Y 6/1); sandy, packed biomicrite, <u>Pecten</u> sp. and other mollusks, and barnacles; about 20 to 25 percent quartz, very fine grained, subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals as above; well cemented.	3	141 - 144

Lithologic Log of Well G-2312--Continued

Lat 26°13'47", long 80°27'37"  
Sec. 32, T. 48 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, very light-gray (N 8) to light-gray (N 7); sandy, intraclastic, sparse biomicrite, mollusks; about 20 percent quartz, very fine grained, subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; moderately to well cemented.	6	144 - 150
Limemud, very light-gray (N 8) to light-gray (N 7); sandy micrite, not cemented; about 20 percent quartz, very fine grained, subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; about 15 percent shell fragments.	1	150 - 151
Limestone, as in 144 to 150 feet; loosely to moderately cemented.	4	151 - 155
Limestone, very light-gray (N 8) to light-gray (N 7); sandy, packed biomicrite, echinoid spines, mollusks, and barnacles; about 30 percent quartz, very fine grained, subangular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; moderately cemented.	4	155 - 159
Limestone, very light-gray (N 8) to medium-light-gray (N 6); sandy, sparse intramicrite, mollusks, including <u>Turritella</u> sp., and echinoid fragments; about 30 to 35 percent quartz, very fine grained, subangular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; loosely to well cemented.	7	159 - 166
Limestone, light-olive-gray (5 Y 6/1); sandy, intraclastic, sparse biomicrite, mollusks, including <u>Turritella</u> sp.; about 20 percent quartz, very fine grained, subangular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; moderately to well cemented.	3	166 - 169
Limestone, as in 159 to 166 feet; loosely to moderately cemented.	5	169 - 174
Limestone; light-olive-gray (5 Y 6/1); sandy, sparse biomicrite, mollusks, including <u>Turritella</u> sp.; about 35 to 40 percent quartz, very fine grained, subangular to subrounded; about 10 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; loosely to moderately cemented.	5	174 - 179

Lithologic Log of Well G-2312--Continued

Lat 26°13'47", long 80°27'37"  
Sec. 32, T. 48 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-olive-gray (5 Y 6/1); quartzose, very fine grained, angular; about 10 percent phosphorite and heavy minerals, very fine grained, angular to rounded; about 10 to 20 percent shell fragments (as much as 1 1/2 inches), mollusks; about 10 percent micrite, not cemented, at 183 to 186 feet.	7	179 - 186
Sandstone, light-olive-gray (5 Y 6/1); quartzose, very fine grained, angular; about 10 to 15 percent phosphorite and heavy minerals, very fine grained, angular to rounded; about 30 to 35 percent shell fragments; about 10 percent detrital carbonate, very fine grained, rounded; about 10 percent micritic matrix; loosely to well cemented.	7	186 - 193
Sand, as in 179 to 186 feet; about 10 to 15 percent phosphorite and heavy minerals; about 20 to 35 percent shell fragments at 199 to 209 feet; at 202 to 206 feet, quartz is coarse to very fine grained, well sorted (very fine).	16	193 - 209
Sand, olive-gray (5 Y 4/1); quartzose, very fine grained, angular; about 20 percent phosphorite and heavy minerals, very fine grained, rounded; about 10 to 15 percent shell fragments and detrital carbonate, very fine grained, subrounded to rounded; about 10 percent silt at 216 to 219 feet.	10	209 - 219
Sand, olive-gray (5 Y 4/1); quartzose, very fine grained to silt, moderately sorted (very fine), angular; about 10 percent phosphorite and heavy minerals, very fine grained to silt, well sorted (very fine grained), rounded; about 5 percent micrite, not cemented.	2.5	219 - 221.5
Silt, olive-gray (5 Y 4/1); about 40 percent quartz, very fine grained, angular; about 10 percent phosphorite and heavy minerals, very fine grained, rounded; about 3 percent micrite, not cemented.	3.5	221.5 - 225
Clay, olive-gray (5 Y 4/1); silty.	4	225 - 229

Lithologic Log of Well G-2313

Lat 26°19'58", long 80°41'06"

Description	Thick- ness (feet)	Depth, feet below land surface
Muck and soil.	3	0 - 3
Limestone, very pale orange (10 YR 8/2) to dark-yellowish-orange (10 YR 6/6); fossiliferous micrite, gastropods; neomorphic calcite present in matrix; well cemented.	4	3 - 7
Limestone, yellowish-gray (5 Y 7/2) and dark-yellowish-orange (10 YR 6/6), mottled; intramicrite to sandy intramicrite; about 5 to 10 percent quartz, fine grained, subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained; well cemented.	2	7 - 9
Limestone, very pale orange (10 YR 8/2); sandy, sparse biomicrite, mollusks; cavity-filling calcite present; about 15 to 20 percent quartz, fine to very fine grained, well sorted (very fine), angular to subrounded; about 5 to 10 phosphorite and heavy minerals, very fine grained, subangular to rounded; well cemented; cavity at 11 to about 12 feet.	4	9 - 13
Limestone, very pale orange (10 YR 8/2) to dark-yellowish-brown (10 YR 4/2); sandy, sparse biomicrite grading into a sandy, packed biomicrite, mollusks including gastropods and <u>Chione</u> sp.; about 25 percent quartz, coarse to very fine grained, moderately sorted (very fine), angular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subangular to rounded; well cemented.	3	13 - 16
Limestone, very pale orange (10 YR 8/2) to pale-yellowish-brown (10 YR 6/2); sandy, sparse biomicrite, mollusks including gastropods; neomorphic calcite present; about 25 to 30 percent quartz, coarse to fine grained, well sorted (fine), subangular to subrounded; about 3 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; well cemented.	3	16 - 19
Limestone, very pale orange (10 YR 8/2) to pale-yellowish-brown (10 YR 6/2); sandy, fossiliferous micrite, mollusks; about 30 percent quartz, coarse to fine grained, well sorted (fine), subangular to rounded; about 3 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; well cemented.	4	19 - 23
Limestone, very pale orange (10 YR 8/2) to pale-yellowish-brown (10 YR 6/2) and yellowish-gray (5 Y 7/2) to light-olive-gray (5 Y 5/2) at 26 to 29 feet; sandy, sparse biomicrite, mollusks; about 25 percent quartz, coarse to fine grained, moderately sorted (fine), subangular to rounded; well cemented.	6	23 - 29

Lithologic Log of Well G-2313--Continued

Lat 26°19'58", long 80°41'06"

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, yellowish-gray (5 Y 8/1); quartzose, fine to very fine grained, well sorted (very fine), angular to subrounded; about 10 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 10 percent shell fragments, mollusks; interbedded with about 5 percent sandstone, light-olive-gray (5 Y 6/1) and olive-gray (5 Y 4/1); quartzose, fine to very fine grained, well sorted (very fine), angular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; about 5 percent shell fragments, mollusks; about 5 to 10 percent sparite matrix; well cemented.	4	29 - 33
Sand as above; about 20 to 35 percent micrite, not cemented, and about 5 to 20 percent shell fragments, mollusks.	9.5	33 - 42.5
Limestone, yellowish-gray (5 Y 7/2) to light-olive-gray (5 Y 6/1); sandy, sparse biomicrite, mollusks; about 10 to 15 percent quartz, coarse to fine grained, moderately sorted (medium), subangular to subrounded; about 5 percent phosphorite, medium to very fine grained, well sorted (fine), subangular to rounded; well cemented.	3.5	42.5 - 46
Limestone, light-olive-gray (5 Y 6/1); sandy, sparse biomicrite grading into a sandy, fossiliferous dismicrite in places, mollusks; about 20 percent quartz; coarse to fine grained, poorly sorted, subangular to rounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to rounded; well cemented.	3	46 - 49
Limestone, olive-gray (5 Y 4/1); sandy, packed biomicrite, mollusks; about 25 percent quartz, coarse to very fine grained, poorly sorted, subangular to rounded; about 10 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), angular to rounded; well cemented.	4	49 - 53
Limestone, light-olive-gray (5 Y 6/1); sandy, packed biomicrite, mollusks including <u>Ostrea</u> sp. and <u>Turritella</u> sp.; about 20 to 25 percent quartz, medium to very fine grained, moderately sorted (fine), angular to subangular; about 15 percent phosphorite and heavy minerals, coarse and fine grained, well sorted (fine), subrounded to rounded; moderately to well cemented.	6	53 - 59
Limestone, light-olive-gray (5 Y 6/1); packed biomicrite, mollusks and bryozoans; about 5 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subrounded to rounded; well cemented.	4	59 - 63

Lithologic Log of Well G-2313--Continued

Lat 26°19'58", long 80°41'06"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, medium-light-gray (N 6) to medium-dark-gray (N 4); sandy, intraclastic, sparse biomicrite, mollusks, and barnacles (pink); about 10 percent quartz, medium to fine grained, well sorted (fine), subrounded to rounded; about 3 to 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to rounded; loosely to moderately cemented.	3	63 - 66
Limestone, medium-light-gray (N 6) to medium-gray (N 5); sandy, sparse intramicrite, mollusks, including <i>Ostrea</i> sp., bryozoans and echinoid fragments; about 20 percent quartz, fine grained, subrounded; about 3 to 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; loosely to moderately cemented.	13	66 - 79
Limestone, light-olive-gray (5 Y 6/1); sandy, intraclastic, sparse biomicrite, mollusks, including <i>Ostrea</i> sp., and bryozoans; about 20 to 25 percent quartz, coarse to fine grained, well sorted (fine and medium at 83 to 86 feet), subrounded to rounded; about 3 to 5 percent phosphorite and heavy minerals, fine grained, subrounded to rounded; loosely to well cemented.	10	79 - 89
Limestone, light-gray (N 7) to medium-gray (N 5); sandy, sparse intramicrite, bryozoans, mollusks, and barnacles (pink); about 10 to 15 percent quartz, medium grained, subrounded to rounded; about 3 to 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to rounded; loosely to well cemented.	7	89 - 96
Limestone as above, medium-gray (N 5) to medium-dark-gray (N 4); grading into a sandy, intraclastic, sparse biomicrite at 103 to 106 feet; about 15 to 20 percent quartz, coarse to medium grained, well sorted (medium); about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded.	13	96 - 109
Limestone, light-gray (N 7) to medium-gray (N 5); sandy, sparse intramicrite, mollusks, including <i>Ostrea</i> sp., bryozoans, and barnacles (pink); about 10 to 30 percent quartz, fine grained, subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine grained, subrounded to well rounded; moderately to well cemented.	17	109 - 126
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); sandy, sparse biomicrite, mollusks; about 25 to 30 percent quartz, fine grained, subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine grained, subrounded to rounded; loosely to moderately cemented.	3	126 - 129

Lithologic Log of Well G-2313--Continued

Lat 26°19'58", long 80°41'06"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, as in 109 to 126 feet, barnacles (pink) and echinoid spines and fragments; about 25 to 30 percent quartz, medium to fine grained, well sorted (fine), subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine grained, subrounded to well rounded; well cemented.	7	129 - 136
Limestone, medium-light-gray (N 6) to medium-gray (N 5); sandy, intraclastic, sparse biomicrite, mollusks and barnacles (pink); about 30 to 35 percent quartz, fine grained, subangular to subrounded; about 5 percent phosphorite and heavy minerals, fine grained, subrounded to well rounded; moderately to well cemented.	10	136 - 146
Limestone, light-gray (N 7); sandy, sparse biomicrite, mollusks, including <u>Pecten</u> sp., and echinoid fragments; about 30 to 45 percent quartz, fine grained, subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine grained, subrounded to well rounded; loosely to moderately cemented.	23	146 - 169
Sand, light-olive-gray (5 Y 6/1); quartzose, fine to very fine grained, well sorted (very fine), angular to subangular; about 15 to 20 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; about 10 to 25 percent shell fragments and detrital carbonate; about 5 to 20 percent silty micrite, not cemented.	20	169 - 189
Sand as above; about 20 percent RF, sandstone, olive-gray (5 Y 4/1); quartzose, fine grained to silt, well sorted (very fine), angular to subangular; about 10 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 10 percent micritic matrix.	7	189 - 196
Sand, grayish-olive-green (5 GY 3/2); very fine grained to silt, well sorted (very fine), angular; about 15 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded.	3	196 - 199
Sand, olive-gray (5 Y 4/1); quartzose, coarse to silt, well sorted (very fine), angular to subangular; about 15 percent phosphorite and heavy minerals, granules to very fine grained, moderately sorted (very fine), subrounded to well rounded; about 20 percent RF, micrite, not cemented, with about 20 percent quartz, fine grained, subangular to subrounded; about 5 percent phosphorite, very fine grained, subrounded to well rounded; about 5 percent shell fragments.	4	199 - 203
Sand as in 196 to 199 feet, olive-gray (5 Y 4/1); about 15 percent phosphorite, medium to very fine grained, well sorted (very fine), subrounded to well rounded; about 5 percent shell fragments.	6	203 - 209
Clay, grayish-olive (10 Y 4/2), silty; interbedded with a claystone at 216 to 219 feet, olive-gray (5 Y 3/2).	10	209 - 219

Lithologic Log of Well G-2314

Lat 26°19'52", long 80°50'02"

Description	Thick- ness (feet)	Depth, feet below land surface
Fill and limestone, yellowish-gray (5 Y 7/2) and medium-dark-gray (N 4), mottled; sparse biomicrite to sandy, sparse biomicrite, mollusks; neomorphic calcite present; about 5 to 10 percent quartz, very coarse to very fine grained, poorly sorted, subangular to rounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented.	9	0 - 9
Limestone, yellowish-gray (5 Y 7/2) and medium-bluish-gray (5 B 5/1); sandy, fossiliferous micrite, mollusks; neomorphic calcite; about 10 percent quartz, coarse to very fine grained, moderately sorted (very fine), subangular to subrounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded; moderately to well cemented.	7	9 - 16
Limestone, yellowish-gray (5 Y 8/1); sandy, sparse biomicrite, mollusks; about 15 to 25 percent quartz, granules to very fine grained, poorly sorted, angular to rounded; about 5 to 15 percent phosphorite and heavy minerals, granules to very fine grained, poorly sorted, subangular to well rounded; loosely to well cemented.	10	16 - 26
Limestone as above, abundant in gastropods having smooth tests; about 25 percent quartz, coarse to fine grained, moderately sorted (fine), subrounded to rounded; loosely cemented.	3	26 - 29
Limestone, yellowish-gray (5 Y 7/2); sandy, fossiliferous intramicrite, mollusks; about 20 to 25 percent quartz, coarse to fine grained, poorly sorted, subangular to subrounded; about 5 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subrounded to rounded; loosely to moderately cemented.	7	29 - 36
Limestone, light-olive-gray (5 Y 6/1); sandy, fossiliferous intramicrite, mollusks; about 25 to 30 percent quartz, coarse to fine grained, moderately sorted (fine), angular to rounded; about 5 percent phosphorite and heavy minerals, fine grained, subrounded to rounded; well cemented.	3	36 - 39
Limestone, light-olive-gray (5 Y 6/1); intraclastic, sparse biomicrite, mollusks, and pellets; about 15 percent quartz, fine grained, subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; moderately to well cemented.	4	39 - 43
Limestone, light-olive-gray (5 Y 6/1); sparse intramicrite, mollusks, bryozoans, and echinoid fragments; about 5 to 10 percent quartz, fine grained, subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; loosely to well cemented.	13	43 - 56

Lithologic Log of Well G-2314--Continued

Lat 26°19'52", long 80°50'02"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone as above, barnacles; about 15 percent quartz; about 5 percent phosphorite and heavy minerals, fine grained, subrounded to rounded; loosely cemented.	3	56 - 59
Limestone as above; about 20 to 25 percent quartz, medium to fine grained, well sorted (fine), subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subangular to rounded; loosely to moderately cemented.	10	59 - 69
Limestone, light-olive-gray (5 Y 6/1) to medium-gray (N 5); sandy, intraclastic, sparse biomicrite, mollusks, bryozoans, and barnacles (pink); about 20 to 25 percent quartz, medium to fine grained, well sorted (fine), subrounded; about 5 percent phosphorite and heavy minerals, fine grained, subrounded to rounded; loosely to moderately cemented.	4	69 - 73
Limestone, light-olive-gray (5 Y 6/1) to medium-gray (N 5); sandy, intraclastic, packed biomicrite, mollusks, bryozoans, and barnacles (pink); about 25 to 30 percent quartz, medium to fine grained, well sorted (fine), subangular to subrounded; about 5 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), rounded to well rounded; moderately to well cemented.	3	73 - 76
Limestone, as in 69 to 73 feet.	3	76 - 79
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); sandy, sparse intramicrite, <u>Ostrea</u> sp., serpulids, and bryozoans; about 20 to 25 percent quartz, very coarse to fine grained, moderately sorted (medium), subrounded to rounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (very fine), subangular to well rounded; loosely cemented.	4	79 - 83
Limestone, light-olive-gray (5 Y 6/1); sandy, intraclastic, sparse biomicrite, mollusks, including <u>Ostrea</u> sp.; about 25 to 30 percent quartz, medium to fine grained, well sorted (fine), subangular to subrounded; about 35 percent porosity, intraparticle, interparticle, moldic, and vuggy (up to 1/2 inch); loosely to moderately cemented.	3	83 - 86
Limestone, light-olive-gray (5 Y 6/1) to medium-gray (N 5); sandy, sparse intramicrite, mollusks; about 25 percent quartz, fine grained, subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, fine grained, subrounded to rounded; moderately cemented.	3	86 - 89
Limestone as above, medium-light-gray (N 6) to medium-dark-gray (N 4), bryozoans; about 10 to 15 percent quartz at 93 to 95 feet; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to rounded; well cemented.	6	89 - 95

Lithologic Log of Well G-2314--Continued

Lat 26°19'52", long 80°50'02"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1) to medium-gray (N 5); sandy, intraclastic, sparse biomicrite, mollusks, bryozoans, and coral; about 20 to 30 percent quartz, fine grained, subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; moderately to well cemented.	8	95 - 103
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); sandy, packed intramicrite, <u>Pecten</u> sp., bryozoans, and barnacles (pink); about 20 to 25 percent quartz, coarse to fine grained, well sorted (fine), subangular to subrounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to rounded; moderately to well cemented.	3	103 - 106
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); sandy, sparse intramicrite, mollusks, including <u>Pecten</u> sp. and <u>Ostrea</u> sp., echinoid fragments, serpulids, and barnacles; about 25 to 30 percent quartz, fine grained, subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; loosely to well cemented.	17	106 - 123
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6), sandy, sparse biomicrite, <u>Ostrea</u> sp., <u>Pecten</u> sp., serpulids, and bryozoans; about 25 to 30 percent quartz, coarse to fine grained, well sorted (fine), subangular to rounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to well rounded; moderately to well cemented.	3	123 - 126
Limestone, medium-light-gray (N 6); sandy, packed biomicrite, mollusks, including <u>Pecten</u> sp., bryozoans, and barnacles; about 25 percent quartz, coarse to fine grained, moderately sorted (fine), subangular to rounded; about 5 to 10 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (very fine), subangular to rounded; moderately to well cemented.	10	126 - 136
Limestone, light-olive-gray (5 Y 6/1) to light-gray (N 7); sandy, sparse biomicrite, mollusks; about 20 to 25 percent quartz, fine to very fine grained, well sorted (very fine), angular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; moderately cemented.	3	136 - 139
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); sandy, intraclastic, sparse biomicrite, mollusks; about 25 percent quartz, fine to very fine grained, well sorted (very fine), angular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to rounded; moderately to well cemented.	7	139 - 146

Lithologic Log of Well G-2314--Continued

Lat 26°19'52", long 80°50'02"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1) to medium-gray (N 5); sandy, sparse intramicrite, mollusks and barnacles; about 20 to 40 percent quartz, very fine grained, angular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, very fine and fine grained at 149 to 156 feet, subangular to rounded; loosely to moderately cemented.	10	146 - 156
Sand, light-olive-gray (5 Y 6/1); quartzose, very fine grained, angular to subrounded; about 10 to 20 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; about 5 to 10 percent detrital carbonate, fine grained, subrounded; about 5 to 15 percent shell fragments, mollusks, barnacles, bryozoans, claws, and echinoid spines; about 5 to 15 percent micrite, not cemented.	17	156 - 173
Sand as above; about 25 to 30 percent shell fragments and about 15 to 20 percent micrite, not cemented.	6	173 - 179
Sand, light-olive-gray (5 Y 5/2); quartzose, very fine grained to silt, well sorted (very fine), angular to subangular; about 15 percent phosphorite and heavy minerals, granules and very fine grained, well sorted (very fine), subangular to well rounded; about 20 to 25 percent shell fragments; about 10 percent RF, sandy intramicrite; about 40 to 45 percent quartz, very fine grained, subangular to subrounded; about 5 percent phosphorite, fine grained, rounded; about 5 percent clay-size particles; moderately cemented.	2	179 - 181
Sand as above; about 35 to 40 percent shell fragments, mollusks, including <u>Pecten</u> sp., and bryozoans; about 15 percent phosphorite and heavy minerals, granules to very fine grained, moderately sorted (very fine), subangular to well rounded; about 5 to 10 percent RF, and about 10 percent clay-size particles.	2	181 - 183
Clay, dark-greenish-gray (5 GY 4/1) and moderate-olive-brown (5 Y 4/4); silty, slightly calcareous; about 3 to 5 percent phosphorite, granules to very fine grained, poorly sorted, rounded to well rounded.	3	183 - 186
Clay, grayish-olive (10 Y 4/2); silty, slightly calcareous; embedded calcite crystals, equant to fibrous, coarse grained.	13	186 - 199

Lithologic Log of Well G-2315

Lat 26°19'58", long 80°34'21"

Description	Thick- ness (feet)	Depth, feet below land surface
Fill.	9	0 - 9
Limestone, very pale orange (10 YR 8/2), moderate-yellowish-brown (10 YR 5/4), and light-brown (5 YR 5/6), mottled, brecciated texture; micrite to sandy micrite; about 5 to 10 percent quartz, very fine grained, angular to rounded; about 1 to 3 percent heavy minerals, very fine grained, angular to subrounded; well cemented.	4	9 - 13
Limestone, between very pale orange (10 YR 8/2) and pale-yellowish-brown (10 YR 6/2); fossiliferous micrite; neomorphic calcite present; about 5 percent quartz, very fine grained, angular to subangular; about 1 to 3 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; moderately to well cemented.	2	13 - 15
Limestone, very pale orange (10 YR 8/2); micrite; neomorphic and cavity-filling calcite present; well cemented; interbedded with about 40 percent limestone, very pale orange (10 YR 8/2) and medium-light-gray (N 6), mottled; packed biomicrite, mollusks; about 3 to 5 percent quartz, very fine grained, subrounded; loosely to moderately cemented.	4	15 - 19
Limestone, yellowish-gray (5 Y 8/1) to light-olive-gray (5 Y 6/1); fossiliferous micrite to silty, fossiliferous micrite, gastropods; neomorphic calcite in places; about 3 to 5 percent quartz, very fine sand to silt, well sorted (silt), angular; about 5 percent heavy minerals, very fine grained to silt, well sorted (silt), rounded; moderately to well cemented.	4	19 - 23
Limestone, pale-yellowish-brown (10 YR 6/2); micrite; about 3 to 5 percent quartz, very fine grained, subangular; well cemented.	3	23 - 26
Limestone, pale-yellowish-brown (10 YR 6/2); packed biomicrite, mollusks, including <u>Chione</u> sp., <u>Ostrea</u> sp., and gastropods; loosely to well cemented; interbedded with about 30 percent limestone as above.	3	26 - 29
Limestone, very pale orange (10 YR 8/2) to pale-yellowish-brown (10 YR 6/2); fossiliferous micrite to sandy, fossiliferous micrite; about 3 to 5 percent quartz, very fine grained, subangular; about 3 to 5 percent heavy minerals, very fine grained, subrounded; well cemented.	4	29 - 33

Lithologic Log of Well G-2315--Continued

Lat 26°19'58", long 80°34'21"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1) to olive-gray (5 Y 4/1); sandy, sparse biomicrite, mollusks, including gastropods and pelecypods, large shells; about 10 percent quartz, very fine grained, subangular to subrounded; about 5 percent heavy minerals, subangular to subrounded; loosely to well cemented; interbedded with limestone at 38 to 39 feet, dark-yellowish-brown (10 YR 4/2) and brownish-black (5 YR 2/1); sandy, packed biomicrite, pelecypods and gastropods; tests are replaced by phosphorite; about 5 percent quartz, very fine grained, subangular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; well cemented.	6	33 - 39
Limestone, yellowish-gray (5 Y 8/1); sandy, sparse biomicrite, mollusks including gastropods; about 5 to 10 percent quartz, very fine grained, angular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; moderately to well cemented.	4	39 - 43
Limestone, dark-yellowish-brown (10 YR 4/2) and brownish-black (5 YR 2/1); sandy, packed biomicrite, pelecypods and gastropods; tests are replaced by phosphorite; about 20 to 25 percent quartz, coarse to very fine grained, moderately sorted (fine), angular to rounded; about 3 to 5 percent phosphorite and heavy minerals, fine grained, subangular to rounded; well cemented.	2	43 - 45
Limestone, light-olive-gray (5 Y 6/1) to olive-gray (5 Y 4/1); sandy, sparse biomicrite, mollusks; about 20 to 25 percent quartz, coarse to fine grained, moderately sorted (fine) at 45 feet to poorly sorted at 46 feet, angular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to subrounded; well cemented.	4	45 - 49
Limestone, medium-dark-gray (N 4); sandy, packed biomicrite, pelecypods, and gastropods; about 20 percent quartz, coarse to fine grained, moderately sorted (fine), subrounded; well cemented; grading into a sandy, sparse biomicrite; about 30 to 35 percent quartz, fine to very fine grained, well sorted (fine), angular to subangular; well cemented.	4	49 - 53
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to fine grained, moderately sorted (fine), angular to subrounded; about 3 percent heavy minerals, very fine grained, subangular; about 25 to 30 percent micrite, not cemented; about 25 percent shell fragments, mollusks.	3	53 - 56

Lithologic Log of Well G-2315--Continued

Lat 26°19'58", long 80°34'21"

Description	Thick- ness (feet)	Depth, feet below land surface
Limemud, light-olive-gray (5 Y 6/1); sandy micrite; about 30 percent quartz, fine grained, angular to subrounded; about 5 percent phosphorite and heavy minerals, fine grained, subrounded to well rounded; about 10 to 15 percent shell fragments, mollusks; interbedded with about 20 percent limestone as 49 to 53 feet.	3	56 - 59
Sand, light-olive-gray (5 Y 6/1); quartzose, medium to very fine grained, moderately sorted (fine), angular to subrounded; about 10 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), subangular to well rounded; about 30 percent shells and shell fragments, mollusks and bryozoans.	10	59 - 69
Limestone, medium-gray (N 5) and black (N 1); sandy, sparse biomicrite, gastropods, pelecypods and other mollusks, and foraminifers, partially replaced by a heavy mineral; about 20 to 25 percent quartz, coarse to fine grained, moderately to well sorted (fine), subangular to rounded; about 5 percent phosphorite and heavy minerals, fine grained, subrounded to rounded; about 20 percent organic material, moderate brown (5 YR 4/4), specks; intraparticle; moderately to well cemented.	4	69 - 73
Limestone, light-olive-gray (5 Y 6/1); sandy, sparse biomicrite, mollusks; about 20 percent quartz, fine grained, subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; loosely cemented.	3	73 - 76
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse biomicrite, mollusks; about 20 percent quartz, coarse to fine grained, poorly sorted, subangular to subrounded; about 5 percent phosphorite and heavy minerals, fine grained, subrounded to rounded; about 0 to 1 percent pyrite; loosely to moderately cemented.	7	76 - 83
Limemud, yellowish-gray (5 Y 8/1); sandy micrite; about 20 to 25 percent quartz, coarse to fine grained, subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), rounded to well rounded; about 35 to 40 percent shells and shell fragments, <u>Chione</u> sp. and other mollusks; tests are up to 2-1/2 inches in size.	3	83 - 86
Shells and shell fragments, <u>Turritella</u> sp., <u>Chione</u> sp., and other mollusks; about 30 to 40 percent sandy micrite, not cemented, to about 10 percent at 89 to 93 feet.	7	86 - 93
Limestone as in 76 to 83 feet.	3	93 - 96

Lithologic Log of Well G-2315--Continued

Lat 26°19'58", long 80°34'21"

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, yellowish-gray (5 Y 8/1); quartzose, coarse to fine grained, well sorted (medium), subrounded to rounded; about 5 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), subrounded to well rounded; about 10 to 15 percent shell fragments; about 20 percent micrite, not cemented.	3	96 - 99
Limemud, yellowish-gray (5 Y 8/1); sandy micrite; about 25 percent quartz, medium to fine grained, well sorted (fine), angular to subrounded; about 5 percent phosphorite and heavy minerals, fine grained, subrounded to rounded; about 5 to 15 percent shells and shell fragments; cemented in places.	7	99 - 106
Limemud, yellowish-gray (5 Y 7/2) to pale-olive (10 Y 6/2); sandy micrite; about 25 to 35 percent quartz, very fine grained, subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to well rounded; about 5 to 25 percent shell fragments.	10	106 - 116
Limestone, light-olive-gray (5 Y 6/1) and medium-gray (N 5); sandy, sparse intramicrite, mollusks; about 25 to 30 percent quartz, very fine grained, subangular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; moderately to well cemented.	3	116 - 119
Limestone, medium-gray (N 5); sandy, sparse intramicrite, mollusks, including <i>Ostrea</i> sp., barnacles and echinoid fragments; about 20 percent quartz, fine grained, angular to subrounded; about 5 percent phosphorite and heavy minerals, fine grained, subrounded to well rounded; moderately to well cemented.	20	119 - 139
Limestone as above; about 25 percent quartz, medium to fine grained, well sorted (medium), subrounded to rounded; about 5 to 10 percent phosphorite and heavy minerals.	7	139 - 146
Limestone as above; about 10 to 15 percent quartz, fine grained, subangular to rounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded.	13	146 - 159
Sand, light-olive-gray (5 Y 6/1); quartzose, fine grained, angular to subrounded; about 10 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; about 20 to 25 percent shell fragments and detrital carbonate, coarse to medium grained, well sorted (medium), subrounded.	4	159 - 163

Lithologic Log of Well G-2315--Continued

Lat 26°19'58", long 80°34'21"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1); sandy, sparse biomicrite, mollusks; about 25 percent quartz, fine grained, subangular to rounded; about 10 percent phosphorite and heavy minerals, fine grained, subangular to rounded; loosely cemented; grading into a sandy, intraclastic, sparse biomicrite at 166 to 169 feet; moderately cemented at 168.5 to 169 feet.	6	163 - 169
Limestone, yellowish-gray (5 Y 8/1); sandy, fossiliferous micrite grading into a sparse intramicrite at 173 to 179 feet; about 25 percent quartz, very fine grained, subangular; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; loosely cemented.	10	169 - 179
Limestone, yellowish-gray (5 Y 7/2) to olive-gray (5 Y 4/1); sandy, packed biomicrite, mollusks, and barnacles; about 20 to 30 percent quartz, very fine grained, subangular to subrounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded; well cemented.	4	179 - 183
Limestone, yellowish-gray (5 Y 8/1) to light-gray (N 7); sandy, sparse intramicrite, barnacles, <u>Pecten</u> sp., and mollusks; about 15 to 20 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; moderately cemented.	3	183 - 186
Limestone, yellowish-gray (5 Y 8/1) to light-gray (N 7); sandy, sparse intramicrite, mollusks, and bryozoans; about 15 to 35 percent quartz, fine grained, subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; loosely to moderately cemented.	20	186 - 206
Limestone, light-olive-gray (5 Y 6/1); sandy, intraclastic, fossiliferous micrite; about 35 to 40 percent quartz, fine to very fine grained, well sorted (fine), angular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine grained, subrounded to well rounded; loosely to moderately cemented.	10	206 - 216
Sand, light-olive-gray (5 Y 6/1); quartzose, fine to very fine grained, well sorted (very fine), angular; about 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded; about 5 percent shell fragments, mollusks; interbedded with about 20 percent limestone, as above.	7	216 - 223

Lithologic Log of Well G-2315--Continued

Lat 26°19'58", long 80°34'21"

Description	Thick- ness (feet)	Depth, feet below land surface
Sand as above, interbedded with about 20 percent sandstone, quartzose, very fine grained, subangular to subrounded; about 20 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; about 20 percent micritic matrix; about 5 to 10 percent shell fragments; moderately cemented.	3	223 - 226
Sand as above, very fine grained to silt; about 15 to 20 percent phosphorite and heavy minerals; about 5 to 10 percent shell fragments; about 5 to 10 percent, not cemented.	3	226 - 229
Sandstone, light-olive-gray (5 Y 5/2); quartzose, very fine grained to silt, well sorted (very fine), angular to subrounded; about 20 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; about 5 percent micritic matrix; loosely to well cemented; interbedded with sand as above.	4	229 - 233
Sand as 226 to 229 feet; about 5 to 10 percent shell fragments and detrital carbonate; about 25 percent phosphorite and heavy minerals; about 3 to 5 percent micrite, not cemented.	10	233 - 243
Silt, grayish-olive (10 Y 4/2); about 30 to 40 percent quartz, very fine grained, angular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; about 0 to 10 percent shell fragments.	6.5	243 - 249.5
Silt, grayish-olive-green (5 GY 3/2); quartzose; about 5 percent phosphorite and heavy minerals, very fine grained, angular to rounded; about 30 percent clay, calcite crystals are present, fibrous and equant, very coarse grained.	9.5	249.5 - 259

Lithologic Log of Well G-2316

Lat 25°57'32", long 80°32'56"

Description	Thick- ness (feet)	Depth, feet below land surface
Fill.	9	0 - 9
Limestone, very pale orange (10 YR 8/2); sandy micrite; about 15 percent quartz, fine to very fine grained, well sorted (very fine), subangular to subrounded; about 5 percent heavy minerals, fine to very fine grained, well sorted (very fine), angular to well rounded; well cemented.	4	9 - 13
Limemud, pale-yellowish-brown (10 YR 6/2); sandy micrite, about 25 to 30 percent detrital carbonate; about 20 percent RF, limestone, sandy micrite; about 10 percent quartz, fine to very fine, well sorted (very fine), subangular to subrounded; about 30 to 35 percent peat and organic material.	3	13 - 16
Limestone, moderate-yellowish-brown (10 YR 5/4), dark-yellowish-orange (10 YR 6/6), pale-yellowish-brown (10 YR 6/2), and very pale orange (10 YR 8/2), mottled; sandy, sparse biomicrite, mollusks; neomorphic calcite present in matrix; about 20 percent quartz, fine to very fine grained, well sorted (very fine), subangular to subrounded; about 5 percent limonite, present as coating; well cemented; interbedded with about 10 percent peat.	3	16 - 19
Limestone, pale-yellowish-brown (10 YR 6/2), very pale orange (10 YR 8/2), light-olive-brown (5 Y 5/6), and grayish-black (N 2), mottled and brecciated texture; sandy, fossiliferous intramicrite, benthic foraminifers and mollusks, including gastropods; about 20 percent quartz, fine to very fine grained, well sorted (very fine) subangular; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to rounded; fossils are replaced by heavy minerals; well cemented.	4	19 - 23
Limedmud, light-olive-gray (5 Y 6/1); sandy micrite; about 30 percent quartz, fine to very fine grained, well sorted (fine), angular to subrounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to rounded; interbedded with about 30 percent limestone, sandy, sparse biomicrite; about 30 percent quartz, fine to very fine grained, well sorted (fine), angular to subrounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to rounded; well cemented; about 10 percent peat and organic material.	3	23 - 26
Limestone, very pale orange (10 YR 8/2) and pale-yellowish-brown (10 YR 6/2), mottled; sandy, fossiliferous micrite, mollusks; neomorphic calcite present in matrix; about 30 percent quartz, fine to very fine grained, well sorted (very fine), subangular to subrounded; about 5 percent phosphorite, fine to very fine grained, well sorted (very fine), rounded to well rounded; well cemented; interbedded with about 20 percent limemud as above.	3	26 - 29

Lithologic Log of Well G-2316--Continued

Lat 25°57'32", long 80°32'56"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 8/1); sandy, sparse biomicrite, mollusks and foraminifers; neomorphic calcite present in tests; about 20 to 25 percent quartz, very fine grained, angular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, angular to rounded; well cemented.	4	29 - 33
Limestone, yellowish-gray (5 Y 8/1); sandy, fossiliferous micrite, mollusks; about 30 percent quartz, fine to very fine grained, well sorted (very fine), angular to rounded; about 3 to 5 percent phosphorite and grained minerals, fine to very fine grained, well sorted (very fine), angular to well rounded; well cemented.	3	33 - 36
Limestone, yellowish-gray (5 Y 7/2 to 5 Y 8/1); sandy, sparse biomicrite, mollusks and bryozoans; neomorphic calcite present in matrix; about 25 percent quartz, fine grained, subrounded; about 3 percent phosphorite and heavy minerals, fine to very fine grained, angular to rounded; well cemented.	3	36 - 39
Limestone, yellowish-gray (5 Y 7/2 to 5 Y 8/1) and olive-gray (5 Y 4/1), mottled; sparse biomicrite, mollusks including gastropods; cavity-filling calcite present; well cemented.	7	39 - 46
Limestone, yellowish-gray (5 Y 7/2 and 5 Y 8/1); sandy, sparse biomicrite, algae, mollusks, and foraminifers; cavity-filling calcite present; about 10 to 20 percent quartz, medium to very fine grained, well sorted (very fine), subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to well rounded; well cemented.	10	46 - 56
Limestone, yellowish-gray (5 Y 8/1 and 5 Y 7/2) and pale-yellowish-brown (10 YR 6/2); packed biomicrite to sandy, packed biomicrite, mollusks, root cast, bryozoan, coral (at 56 to 59 feet), and abundant planktonic foraminifers; cavity-filling calcite (both fibrous and equant) present; about 5 to 25 percent quartz, medium to very fine grained, well sorted (very fine), angular to subrounded; about 1 to 3 percent phosphorite and heavy minerals, very fine grained, angular to well rounded; well cemented.	7	56 - 63
Limestone, yellowish-gray (5 Y 7/2); sandy, packed biomicrite, coral and pelecypods; about 15 to 20 percent quartz, medium to very fine grained, moderately sorted (very fine), subangular to subrounded; about 3 percent heavy minerals, very fine grained, angular to subangular; well cemented.	2	63 - 65

Lithologic Log of Well G-2316--Continued

Lat 25°57'32", long 80°32'56"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1); sandy, packed biomicrite, abundant in gastropods with smooth and white tests, foraminifers, and <u>Chione</u> sp.; most of the tests are partially dissolved; neomorphic calcite is present in matrix; about 20 percent quartz, medium to very fine grained, poorly sorted, subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to subrounded; well cemented.	3	65 - 68
Sandstone, medium-light-gray (N 6) to medium-gray (N 5); quartzose, medium to very fine grained, moderately sorted (very fine), subangular to rounded; about 25 percent detrital carbonate and shell fragments, planktonic foraminifers and mollusks; about 10 percent phosphorite, granules to very fine grained, moderately sorted (very fine), subrounded to well rounded, calcareous matrix; moderately to well cemented.	1	68 - 69
Limestone, light-olive-gray (5 Y 6/1); sandy, sparse biomicrite, <u>Monastrea</u> sp., and mollusks with smooth white tests; about 30 percent quartz, medium to very fine grained, moderately sorted (very fine), subangular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; well cemented.	4	69 - 73
Limemud, white (N 9); sandy micrite, about 10 percent quartz, fine to very fine grained, well sorted (very fine), angular; about 5 to 10 percent phosphorite, fine to very fine grained, well sorted (very fine), rounded to well rounded; about 30 percent shell fragments, mollusks.	6	73 - 79
Sand, yellowish-gray (5 Y 7/2); quartzose, medium grained to silt, poorly sorted, angular to rounded; about 5 to 10 percent phosphorite (at 89 to 93 feet), pebbles to very fine grained, poorly sorted, subrounded; about 20 to 30 percent detrital carbonate and shell fragments, mollusks including <u>Ostrea</u> sp. and <u>Chione</u> sp.; about 20 percent micrite, not cemented.	14	79 - 93
Sand, yellowish-gray (5 Y 7/2); quartzose, fine grained to silt, moderately sorted (very fine), angular to rounded; about 5 percent phosphorite, very fine grained, subangular to subrounded; about 20 percent micrite, not cemented; about 20 percent shell fragments, <u>Ostrea</u> sp.	3	93 - 96
Sand as above; interbedded with limestone, medium-light-gray (N 6); sandy, packed biomicrite, mollusks; rock is coated with cryptocrystalline calcite; about 20 percent quartz, medium to fine grained, moderately sorted (fine), subangular to subrounded; about 5 percent phosphorite, medium to fine grained, moderately sorted (fine), subrounded to rounded; well cemented.	3	96 - 99

Lithologic Log of Well G-2316--Continued

Lat 25°57'32", long 80°32'56"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, medium-light-gray (N 6); sandy, packed biomicrite, mollusks and bryozoans; about 20 percent quartz, fine grained, subrounded; moderately to well cemented.	4	99 - 103
Sand, yellowish-gray (5 Y 8/1); detrital carbonate and shell fragments, coarse to very fine grained, moderately sorted (medium), subrounded; about 20 percent quartz, fine to very fine grained, well sorted (fine), rounded; about 5 percent phosphorite, fine to very fine grained, well sorted (very fine), rounded to well rounded.	3	103 - 106
Limestone, as in 99 to 103 feet, echinoid fragments, pink barnacles, <u>Pecten</u> sp., <u>Ostrea</u> sp., and bryozoans, loosely to moderately cemented.	33	106 - 139
Limestone, medium-gray (N 5); sandy, intraclastic packed biomicrite, echinoid fragments, barnacles, planktonic foraminifers, and mollusks; about 20 percent quartz, fine grained, subrounded; about 5 percent phosphorite, fine to very fine grained, well sorted (very fine), rounded to well rounded; loosely to well cemented.	7	139 - 146
Limestone, medium-light-gray (N 6), sandy, packed intramicrite, mollusks, echinoid fragments, and pink barnacles; about 25 percent quartz, medium to very fine grained, moderately sorted (fine), subrounded; about 5 to 10 percent phosphorite, fine to very fine grained, well sorted (very fine), subrounded to well rounded; loosely to well cemented.	13	146 - 159
Limestone, light-gray (N 7) to yellowish-gray (5 Y 8/1); sandy, sparse intramicrite, mollusks including <u>Ostrea</u> sp.; about 15 to 20 percent quartz, fine to very fine grained, well sorted (very fine), subangular; about 5 to 10 percent phosphorite, very fine grained, subrounded to well rounded; loosely to well cemented.	7	159 - 166
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse biomicrite, mollusks including <u>Ostrea</u> sp.; about 20 percent quartz, medium to very fine grained, moderately sorted (fine), subangular to subrounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; moderately cemented.	3	166 - 169
Limestone, yellowish-gray (5 Y 7/2) to light-olive-gray (5 Y 6/1); sandy, sparse intramicrite, mollusks; about 30 percent quartz, fine to very fine grained, well sorted, subangular to rounded; about 5 to 10 percent phosphorite, fine to very fine grained, well sorted (very fine), subrounded to well rounded; loosely to well cemented.	4	169 - 173
Limestone as in 166 to 169 feet; loosely to moderately cemented.	3	173 - 176

Lithologic Log of Well G-2316--Continued

Lat 25°57'32", long 80°32'56"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1); sandy, fossiliferous micrite; about 20 to 30 percent quartz, fine to very fine grained, well sorted (very fine), subangular to subrounded; about 5 to 10 percent phosphorite, fine to very fine grained, well sorted (very fine), subrounded to well rounded; loosely cemented.	10	176 - 186
Limestone, light-olive-gray (5 Y 6/1); sandy, sparse biomicrite, mollusks; about 30 percent quartz, fine to very fine grained, well sorted (very fine), subangular to subrounded; about 15 percent phosphorite and heavy minerals, fine to very fine grained, subrounded to well rounded; loosely cemented.	3	186 - 189
Sand, light-olive-gray (5 Y 6/1); quartzose, fine to very fine grained, well sorted (very fine), angular to subrounded; about 20 to 25 percent phosphorite, fine to very fine grained, well sorted (very fine), subrounded to well rounded; about 25 percent shell fragments, mollusks, echinoid spines, sponge spicules, and bryozoan; about 15 to 20 percent micrite, not cemented.	14	189 - 203
Limemud, light-olive-gray (5 Y 6/1); sandy micrite, about 35 percent quartz, fine to very fine grained, well sorted (very fine), subangular to subrounded; about 20 percent phosphorite, fine to very fine grained, well sorted (very fine), rounded to well rounded; about 5 to 10 percent shell fragments.	6	203 - 209

Lithologic Log of Well G-2317

Lat 25°57'22", long 80°24'55"

Sec. 35, T. 51 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Soil and muck.	2	0 - 2
Limestone, very pale orange (10 YR 8/2) to grayish-orange (10 YR 7/4); fossiliferous micrite; neomorphic calcite is present; well cemented.	1	2 - 3
Limestone, very pale orange (10 YR 8/2), moderate-yellowish-brown (10 YR 5/4), and moderate-brown (5 YR 4/4), mottled; sandy, sparse biomicrite, mollusks, and benthic foraminifers; neomorphic calcite present; about 20 percent quartz, fine grained, subangular to subrounded; about 3 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; well cemented.	4	3 - 7
Limestone as above; very pale orange (10 YR 8/2) to grayish-orange (10 YR 7/4) and light-olive-gray (5 Y 5/2), mottled; well cemented.	2	7 - 9
Limemud, very pale orange (10 YR 8/2); about 20 percent quartz, medium to very fine grained, poorly sorted, subangular to subrounded; about 3 percent phosphorite and heavy minerals, very fine grained, rounded; interbedded with about 40 percent limestone, fossiliferous micrite, mollusks; neomorphic calcite present; vuggy; well cemented.	7	9 - 16
Limestone, very pale orange (10 YR 8/2); sandy micrite; neomorphic cement present; about 30 percent quartz, medium to very fine grained, moderately sorted (very fine), angular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented.	3	16 - 19
Limestone, very pale orange (10 YR 8/2); sandy, fossiliferous micrite, mollusks; about 30 percent quartz, medium to very fine grained, moderately sorted (very fine), angular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented.	10	19 - 29
Limestone, very pale orange (10 YR 8/2); sandy micrite; neomorphic calcite cement is present; about 30 percent quartz, medium to very fine grained, moderately sorted (very fine), angular to subangular; about 3 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented; interbedded with about 40 percent sandy micrite, not cemented; about 20 percent quartz, very fine grained, subangular; about 3 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded.	4	29 - 33

Lithologic Log of Well G-2317--Continued

Lat 25°57'22", long 80°24'55"  
Sec. 35, T. 51 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, very pale orange (10 YR 8/2); sandy, sparse biomicrite, mollusks, and echinoid spines; neomorphic and cavity-filling calcite cement are present; about 20 percent quartz, medium to very fine grained, well sorted (very fine), angular to subrounded; about 3 percent phosphorite and heavy minerals, very fine grained, rounded; well cemented; interbedded with about 40 percent sandy micrite, not cemented about 20 to 25 percent quartz, fine to very fine grained, well sorted (very fine), angular to subangular; about 3 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded.	6	33 - 39
Limestone, yellowish-gray (5 Y 8/1); sandy, fossiliferous micrite, gastropods; about 30 to 35 percent quartz, fine to very fine grained, well sorted (very fine), angular to subangular; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented.	4	39 - 43
Limestone, yellowish-gray (5 Y 8/1); sandy, sparse biomicrite, pelecypods including <u>Pecten</u> sp. and gastropods, casts are up to about 2 inches in size; about 30 to 35 percent quartz, fine to very fine grained, well sorted (very fine), angular to subangular; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented.	6	43 - 49
Limestone, very pale orange (10 YR 8/2) and dusky-yellow (5 Y 6/4); sandy, sparse biomicrite, mollusks including pelecypods; about 25 to 30 percent quartz, medium to very fine grained, well to moderately sorted (fine), subangular to rounded; about 1 to 3 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subangular to rounded; well cemented.	7	49 - 56
Limestone, yellowish-gray (5 Y 7/2 and 5 Y 8/1); sandy, sparse biomicrite, <u>Monastrea</u> sp. and mollusks; cavity-filling calcite is present; about 15 percent quartz, fine to very fine grained, well sorted (fine), subangular to rounded; about 3 percent phosphorite, fine to very fine grained, well sorted (fine), subangular to rounded; well cemented.	3	56 - 59
Limestone, white (N 9) and grayish-orange (10 YR 7/4); sandy, fossiliferous micrite grading into a sandy, fossiliferous dismicrite at 63 to 69 feet; about 20 to 25 percent quartz, medium to very fine grained, moderately sorted (fine), subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; loosely to well cemented.	10	59 - 69

Lithologic Log of Well G-2317--Continued

Lat 25°57'22", long 80°24'55"  
Sec. 35, T. 51 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 7/2); mixture: sandy micrite and a sandy, sparse biomicrite grading to a sandy, sparse intramicrite, mollusks; cavity-filling calcite is present; about 25 percent quartz, medium to very fine grained, well sorted (fine), angular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; well cemented.	4	69 - 73
Limestone, grayish-orange (10 YR 7/4); sandy, fossiliferous micrite; about 25 percent quartz, medium to very fine grained, moderately sorted (fine), subangular; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to rounded; loosely to well cemented.	10	73 - 83
Limestone, yellowish-gray (5 Y 7/2); sandy, fossiliferous micrite, coral; calcite cavity-filling cement present; about 20 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; about 1 to 3 percent heavy minerals, including iron, very fine grained, angular to rounded; well cemented.	3	83 - 86
Limestone as in 73 to 83 feet; barnacles.	3	86 - 89
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse intramicrite, mollusks, including <u>Ostrea</u> sp., barnacles, and echinoid fragments; about 25 percent quartz, fine to very fine grained, well sorted (fine), subangular to rounded; about 3 to 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to rounded; moderately to well cemented.	7	89 - 96
Limestone, light-olive-gray (5 Y 6/1) to pale-yellowish-brown (10 YR 6/2); sandy intramicrite; about 30 percent quartz, medium to very fine grained, moderately sorted (fine), subangular to rounded; about 3 to 5 percent heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to rounded; moderately to well cemented.	3	96 - 99
Limestone, yellowish-gray (5 Y 7/2) and dusky-yellow (5 Y 6/4); sandy, fossiliferous intramicrite, <u>Pecten</u> sp. and echinoid spines; about 30 to 35 percent quartz, coarse to very fine grained, moderately sorted (fine), subrounded to well rounded; about 1 to 3 percent heavy minerals, very fine grained, subangular to subrounded; well cemented; interbedded with about 20 percent limestone, sandy, intraclastic, sparse biomicrite, mollusks; neomorphic calcite in matrix; about 25 percent quartz, very coarse to medium grained, moderately sorted (medium), subrounded to rounded; about 10 to 15 percent phosphorite and heavy minerals, very coarse to very fine grained, poorly sorted, subangular to rounded; about 5 to 10 percent clayey silt with organic matter; moderately cemented.	4	99 - 103

Lithologic Log of Well G-2317--Continued

Lat 25°57'22", long 80°24'55"  
Sec. 35, T. 51 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1); sandy, fossiliferous intramicrite, mollusks; about 20 to 25 percent quartz, coarse to fine grained, moderately sorted (fine), subangular to rounded; about 10 percent phosphorite and heavy minerals, very coarse to very fine grained, moderately sorted (fine), subrounded to well rounded; about 5 percent clayey silt.	6	103 - 109
Limemud, light-olive-gray (5 Y 5/2); sandy, clayey, silty micrite; about 20 percent clayey silt; about 10 percent quartz, medium to very fine grained, well sorted (very fine), subangular to rounded; about 5 percent phosphorite and heavy minerals, fine grained to silt, well sorted (fine), subangular to well rounded; about 20 percent shell fragments, mollusks, and detrital carbonate; loosely cemented in places.	2	109 - 111
Limemud as above; about 30 percent shell fragments and detrital carbonate; about 25 percent quartz, coarse to very fine grained, poorly sorted; about 5 to 10 percent phosphorite and heavy minerals; about 0 to 1 percent clay.	5	111 - 116
Limemud as above.	3	116 - 119
Limemud, light-olive-gray (5 Y 5/2); sandy micrite; about 20 to 25 percent detrital carbonate and shell fragments; about 20 to 25 percent quartz, coarse to very fine grained, poorly sorted, angular to rounded; about 5 to 10 percent phosphorite, and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to rounded; about 5 to 20 percent clayey silt.	7	119 - 126
Sand, light-olive-gray (5 Y 5/2); quartzose, coarse to very fine grained, moderately to well sorted (fine), subangular to rounded; about 5 to 10 percent heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to rounded; about 5 to 10 percent detrital carbonate and shell fragments; about 20 to 25 percent clayey, silty micrite, not cemented.	3	126 - 129
Sand, light-olive-gray (5 Y 5/2); quartz, fine grained to silt, moderately sorted (fine), subangular to rounded; about 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to rounded; about 10 percent clayey micrite, not cemented; about 10 percent shell fragments at 136 to 139 feet.	10	129 - 139

Lithologic Log of Well G-2318

Lat 25°57'24", long 80°20'36"  
Sec. 34, T. 51 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Soil and muck.	3	0 - 3
Sand, dark-yellowish-brown (10 YR 4/2); quartzose, medium to very fine grained, well sorted (fine), subangular to subrounded; about 5 percent phosphorite, medium to very fine grained, moderately sorted, rounded to well rounded; about 5 percent organic material; interbedded with about 10 to 15 percent limestone, yellowish-gray (5 Y 8/1) and grayish-orange (10 YR 7/4); sandy, fossiliferous micrite, mollusks; neomorphic calcite present; about 25 to 30 percent quartz, medium to very fine grained, well sorted (fine), subangular to subrounded; well cemented.	6	3 - 9
Sand, pale-yellowish-brown (10 YR 6/2); quartzose, medium to very fine grained, well sorted (fine), subangular to rounded; about 3 percent phosphorite and heavy minerals, fine to very fine grained, well sorted, subangular to rounded.	1	9 - 10
Limestone, yellowish-gray (5 Y 7/2) and dark-yellowish-orange (10 YR 6/6), mottled; sandy, sparse biomicrite, mollusks; about 25 to 30 percent quartz, coarse to very fine grained, moderately sorted, subangular to subrounded; about 1 to 3 percent phosphorite and heavy minerals, fine to very fine grained, well sorted, subrounded to rounded; well cemented.	3	10 - 13
Sand as in 9 to 10 feet and limestone as above.	4	13 - 17
Sand, very pale orange (10 YR 8/2), quartzose, medium to very fine grained, moderately sorted (fine), subangular to subrounded; about 30 percent micrite, not cemented; about 1 to 3 percent phosphorite and heavy minerals, fine to very grained, subrounded to rounded.	2	17 - 19
Sand as above, medium to very fine grained, moderately sorted (fine), subangular to rounded; about 5 to 10 percent micrite, not cemented.	.5	19 - 19.5
Limestone, very pale-orange (10 YR 8/2), dark-yellowish-orange (6/6) and yellowish-gray (5 Y 7/2), mottled; sandy, sparse biomicrite, mollusks, including <i>Chione</i> sp., and benthic foraminifers; neomorphic calcite present in tests; about 20 percent quartz, medium to very fine grained, moderately sorted (fine); about 1 to 3 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented; interbedded with about 30 to 40 percent sand as above.	6.5	19.5 - 26
Limestone as above; about 30 to 45 percent quartz (in places); interbedded with about 35 to 40 percent sand as in 19 to 19.5 feet.	7	26 - 33

Lithologic Log of Well G-2318--Continued

Lat 25°57'24", long 80°20'36"  
Sec. 34, T. 51 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone as above, grading into a sandstone in places (about 20 percent), quartzose, medium to very fine grained, moderately to well sorted (fine), subrounded; about 25 to 30 percent dismicrite matrix; well cemented; interbedded with about 40 percent sand as above.	3	33 - 36
Sandstone, yellowish-gray (5 Y 7/2); quartzose, fine to very fine grained, moderately sorted, subangular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), rounded; about 25 to 30 percent sparite matrix, grading into a sandy, fossiliferous micrite in places; well cemented.	3	36 - 39
Limestone, yellowish-gray (5 Y 7/2), dusky-yellow (5 Y 6/4) and grayish-orange (10 YR 7/4), mottled; sandy, sparse dismicrite, benthic foraminifers, coral, and mollusks; about 40 to 45 percent quartz, coarse to very fine grained, moderately sorted, subrounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to rounded; well cemented; interbedded with about 25 to 30 percent sand as in 19 to 19.5 feet.	4	39 - 43
Limestone, yellowish-gray (5 Y 7/2) and very pale orange (10 YR 8/2) to grayish-orange (10 YR 7/4); sandy, sparse biomicrite, mollusks, benthic foraminifers and fecal pellets; about 30 percent quartz, coarse to very fine grained, moderately sorted (medium); about 1 to 3 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subangular to rounded; well cemented; interbedded with about 25 percent sand (as above) at 43 to 46 feet.	10	43 - 53
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse intramicrite, mollusks; about 30 percent quartz, coarse to fine grained, moderately sorted (medium), subangular to rounded; about 5 percent phosphorite and heavy minerals, very coarse to very fine grained, moderately sorted (fine), subrounded to well rounded; well cemented.	3	53 - 56
Limestone, yellowish-gray (5 Y 7/2) and very pale orange (5 Y 8/2) to pale-yellowish-orange (10 YR 8/6); sandy fossiliferous micrite grading to a sandy, sparse biomicrite (in places), foraminifers and mollusks; about 30 percent quartz, coarse to very fine grained, well to moderately sorted in places (fine), subangular to subrounded; about 10 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), subrounded to rounded; well cemented.	7	56 - 63
Limestone as above, yellowish-gray (5 Y 8/1); neomorphic calcite present in matrix; about 25 percent quartz, medium to very fine grained, moderately sorted (very fine), subangular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to rounded; well cemented.	3	63 - 66

Lithologic Log of Well G-2318--Continued

Lat 25°57'24", long 80°20'36"  
Sec. 34, T. 51 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 8/1); sandy, sparse biomicrite, mollusks, including <i>Turritella</i> sp. and <i>Ostrea</i> sp.; about 20 to 25 percent quartz, medium to very fine grained, well sorted (fine), subangular to rounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), rounded; well cemented.	3	66 - 69
Limestone, yellowish-gray (5 Y 8/1); sandy, fossiliferous micrite, mollusks, including <i>Turritella</i> sp. and <i>Ostrea</i> sp.; about 20 to 25 percent quartz, medium to very fine grained, well sorted (fine), subangular to rounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), rounded; well cemented; interbedded with 35 to 40 percent sand, quartzose, medium to very fine grained, well sorted (fine), angular to subrounded; about 10 percent phosphorite and heavy minerals, fine grained, rounded; about 15 percent detrital carbonate, coarse to fine grained, moderately sorted (medium), subrounded.	4	69 - 73
Sand as above.	3	73 - 76
Limestone as in 69 to 73 feet; neomorphic calcite present in matrix; well cemented; interbedded with about 20 percent sand as above.	3	76 - 79
Sand as above; interbedded with about 40 percent limestone, yellowish-gray (5 Y 6/2); sandy, intraclastic sparse biosparite, mollusks; about 30 to 40 percent quartz, medium to very fine grained, moderately sorted (fine), angular to subrounded; about 10 percent phosphorite and heavy minerals, rounded to well rounded; well cemented.	4	79 - 83
Limestone as above grading into a sandy, sparse intrasparite; about 30 percent quartz; about 5 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (very fine), subrounded to well rounded; interbedded with about 25 to 30 percent sand as above, about 20 percent phosphorite and heavy minerals.	6	83 - 89
Limestone as above; sandy, sparse intrasparite, including echinoid spines; about 30 percent quartz, coarse to very fine grained, moderately sorted (medium), subangular to rounded; about 10 percent phosphorite and heavy minerals, very coarse to very fine grained, moderately sorted (medium), subrounded to well rounded; well cemented.	4	89 - 93
Limestone, very pale orange (10 YR 8/2); sandy, sparse biomicrite, mollusks, including gastropods; neomorphic and cavity-filling calcite is present; about 10 to 15 percent quartz, medium to very fine grained, well sorted (fine), subangular; about 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subrounded to well rounded; well cemented.	3	93 - 96

Lithologic Log of Well G-2318--Continued

Lat 25°57'24", long 80°20'36"  
Sec. 34, T. 51 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, very pale orange (10 YR 8/2); sandy packed biomicrite, abundant in pelecypods; neomorphic calcite present in matrix; about 15 to 20 percent quartz, medium to very fine grained, well sorted (very fine), angular to subangular; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to rounded; well cemented.	2	96 - 98
Sand, yellowish-gray (5 Y 7/2); detrital carbonate, medium to very fine grained, well sorted (fine), subrounded to rounded; about 30 to 35 percent quartz, fine to very fine grained, well sorted (fine), angular to subrounded; about 25 percent phosphorite, heavy and ferrous minerals, medium to very fine grained, moderately sorted (fine), angular to subrounded.	1	98 - 99
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse biomicrite, mollusks, and benthic foraminifers; about 25 percent quartz, very coarse to very fine grained, moderately sorted (fine), subangular to rounded; about 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), subrounded to well rounded; well cemented; at 103 feet, fossiliferous dismicrite, bryozoans.	4	99 - 103
Limestone, very pale orange (10 YR 8/2) and grayish-orange (10 YR 7/4), mottled; sandy, fossiliferous micrite, mollusks; about 25 to 30 percent quartz, coarse to very fine grained, poorly sorted, subangular to rounded; about 5 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (very fine), subrounded to rounded; well cemented; sand at 106 feet, sand quartzose, very coarse to medium grained, well sorted (coarse), subrounded to rounded; about 25 to 30 percent detrital carbonate, very coarse to medium grained, moderately sorted (coarse), subrounded; about 5 to 10 percent phosphorite and heavy minerals, very coarse to fine grained, moderately sorted (coarse), subrounded to well rounded.	3	103 - 106
Sand as above, yellowish-gray (5 Y 8/1); about 15 percent detrital carbonate and about 10 percent phosphorite.	3	106 - 109
Limestone, yellowish-gray (5 Y 8/1); sandy, fossiliferous micrite, mollusks; about 30 percent quartz, very coarse to medium grained, well sorted (coarse), rounded to well rounded; about 5 to 10 percent phosphorite and heavy minerals, well sorted (very fine), subangular to subrounded; well cemented.	4	109 - 113
Limestone, yellowish-gray (5 Y 8/1); sandy, sparse intramicrite, mollusks; about 25 to 30 percent quartz, fine to very fine grained, well sorted (very fine), angular to subangular; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to rounded; moderately to well cemented.	3	113 - 116

Lithologic Log of Well G-2318--Continued

Lat 25°57'24", long 80°20'36"  
Sec. 34, T. 51 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 8/1); sandy, intraclastic, sparse biomicrite, mollusks; about 25 to 30 percent quartz, coarse to very fine grained, well sorted (very fine), subangular to subrounded; about 20 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; moderately to well cemented.	3	116 - 119
Limestone, yellowish-gray (5 Y 8/1); sandy, fossiliferous intramicrite, mollusks; about 25 percent quartz, coarse to very fine grained, well sorted (very fine), subangular to rounded; about 5 percent heavy minerals and phosphorite, fine to very fine grained, well sorted (very fine), subangular to rounded; moderately cemented.	4	119 - 123
Limestone, yellowish-gray (5 Y 8/1); sandy, fossiliferous intramicrite, mollusks; about 25 to 30 percent quartz, very coarse to very fine grained, poorly sorted, subangular to rounded; about 5 to 10 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (medium), subrounded to well rounded; some are rod shaped; moderately cemented.	3	123 - 126
Limestone, light- (N 7) to medium- (N 5) gray; sandy, sparse intramicrite, barnacles, and mollusks, including <i>Ostrea</i> sp.; about 25 to 30 percent quartz, very coarse to very fine grained, poorly sorted (medium), subangular to rounded; about 10 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (medium), subrounded to well rounded; moderately cemented; interbedded with about 20 percent sandy, fossiliferous intrasparite; about 30 percent quartz, very coarse to fine grained, moderately sorted (fine), subangular to rounded; about 10 percent phosphorite, very coarse to very fine grained, moderately sorted (medium), subrounded to rounded; well cemented.	3	126 - 129
Sand, light-olive gray (5 Y 6/1); detrital carbonate, very coarse to fine grained, poorly sorted, subrounded; and shell fragments, barnacles, echinoid spines, bryozoans, and mollusks, including <i>Ostrea</i> sp.; about 35 percent quartz, very coarse to fine grained, moderately sorted (medium), subangular to well rounded; about 10 percent phosphorite and heavy minerals, very coarse to very fine grained, well sorted (medium), subrounded to well rounded.	4	129 - 133
Shells and shell fragments, mollusks; with about 20 percent quartz, very coarse to fine grained, moderately sorted (medium), subangular to rounded; about 10 percent phosphorite and heavy minerals, very coarse to fine grained, moderately sorted (medium), subangular to well rounded; about 15 percent silty micrite, not cemented.	3	133 - 136

Lithologic Log of Well G-2318--Continued

Lat 25°57'24", long 80°20'36"  
Sec. 34, T. 51 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limemud, light-olive-gray (5 Y 6/1); sandy, shelly micrite; about 35 percent shell fragments, mollusks; about 15 to 20 percent quartz, coarse to fine grained, moderately sorted (medium), subangular; about 5 percent heavy minerals, fine to very fine grained, well sorted (fine), subangular to subrounded.	3	136 - 139
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to very fine grained, poorly sorted, angular to rounded; about 5 percent heavy minerals, coarse to very fine grained, moderately sorted (fine), angular to well rounded; about 40 percent detrital carbonate and shell fragments, very coarse to medium grained, poorly sorted, subrounded to rounded.	4	139 - 143
Shell fragments and detrital carbonate as above; about 40 percent quartz as above, and about 5 to 10 percent micrite, not cemented, as in 136 to 139 feet.	3	143 - 146
Sand, light-olive-gray (5 Y 6/1); detrital carbonate as above and shell fragments, bryozoans, and mollusks, including <i>Pecten</i> sp.; about 30 percent micrite, not cemented; about 20 percent quartz, coarse to fine grained, moderately sorted (fine), subangular to rounded; about 3 to 5 percent heavy minerals, medium to very fine grained, moderately sorted (very fine), subangular to rounded; about 1 to 3 percent limestone, light-olive-gray (5 Y 6/1), sparse intramicrite.	3	146 - 149
Sand, medium-gray (N 5) and light-olive-gray (5 Y 6/1); quartzose, coarse to fine grained, moderately sorted (medium), subangular to rounded; about 35 to 40 percent shell fragments and detrital carbonate as above; about 5 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subrounded to well rounded.	4	149 - 153
Sand as above; about 30 to 35 percent shell fragments and detrital carbonate; about 15 percent micrite, not cemented.	6	153 - 159
Sand as in 149 to 153 feet; about 10 percent micrite, not cemented; and about 15 percent RF, sandy intramicrite.	4	159 - 163
Silt, light-olive-gray (5 Y 6/1); quartzose, about 25 percent quartz, medium to very fine grained, well sorted (fine), subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine grained, angular to rounded; about 5 to 10 percent shell fragments from 163 to 167 feet.	6	163 - 169
No cuttings were collected.	5	169 - 174
Silt as in 163 to 169 feet; about 3 to 5 percent micrite, not cemented.	.5	174 - 174.5

Lithologic Log of Well G-2318--Continued

Lat 25°57'24", long 80°20'36"  
 Sec. 34, T. 51 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-olive-gray (5 Y 5/2); quartzose, coarse to fine grained, moderately sorted (medium), subangular to rounded; about 10 to 15 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (very fine), angular to well rounded; about 15 percent detrital carbonate and shell fragments; interbedded with about 35 to 40 percent siltstone, light-olive-gray (5 Y 5/2), calcareous; about 30 percent quartz, medium to very fine grained, well sorted (very fine), subangular to subrounded; about 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to well rounded; about 10 percent shell fragments, mollusks, and foraminifers; well cemented.	4.5	174.5 - 179
Limestone, light-olive-gray (5 Y 6/1); silty, sandy, sparse biomicrite, mollusks, including <u>Pecten</u> sp.; about 20 to 25 percent quartz, medium to very fine grained, moderately sorted (very fine), subangular to subrounded; about 15 percent silt, quartzose; about 20 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subrounded to well rounded; moderately cemented.	4	179 - 183
Sand as in 174.5 to 179 feet; about 15 percent phosphorite and heavy minerals; interbedded with about 20 percent limestone, as above, mollusks, including <u>Turritella</u> sp.; well cemented.	3	183 - 186
Siltstone, light-olive-gray (5 Y 5/2); quartzose, calcareous, sandy; about 35 percent quartz, medium to very fine grained, well sorted (very fine), subangular; about 15 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subangular to well rounded; about 5 to 10 percent shell fragments, mollusks, including <u>Pecten</u> sp.; well cemented.	3	186 - 189
Sand as in 183 to 186 feet.	4	189 - 193
Sand, yellowish-gray (5 Y 7/2); quartzose, coarse to fine, moderately sorted (medium), angular to rounded; about 20 percent detrital carbonate and shell fragments (about 2 inches); about 15 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subrounded to well rounded; interbedded with about 15 percent siltstone as above.	3	193 - 196

Lithologic Log of Well G-2318--Continued

Lat 25°57'24", long 80°20'36"  
Sec. 34, T. 51 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand as above; about 20 percent phosphorite and heavy minerals, medium to fine, well sorted (fine), subrounded to well rounded; about 25 percent shell fragments and detrital carbonate.	3	196 - 199
Sand, light-olive-gray (5 Y 5/2); quartzose, coarse grained to silt, moderately sorted (very fine), angular to rounded; about 20 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), subrounded to well rounded; up to about 20 percent of calcareous clay towards the base; about 15 percent shell fragments, mollusks, shark teeth, and claw.	4	199 - 203
Clay, olive-gray (5 Y 4/1); silty, slightly calcareous; about 10 to 15 percent phosphorite, very fine grained, subrounded to rounded.	1	203 - 204

Lithologic Log of Well G-2319

Lat 26°08'43", long 80°28'39"  
Sec. 31, T. 49 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Fill.	6	0 - 6
Limestone, very pale orange (10 YR 8/2) and moderate-yellowish-brown (10 YR 5/4); sandy micrite to sandy, fossiliferous micrite, benthic foraminifers and gastropods; about 10 to 15 percent quartz, fine to very fine grained, well sorted (very fine), subangular to rounded; well to very well cemented; interbedded with about 30 percent sandy, shelly micrite (lime-mud); about 20 percent shell fragments, <u>Chione</u> sp.	3	6 - 9
Limemud, yellowish-gray (5 Y 7/2); sandy micrite, not cemented; about 15 percent quartz, medium to very fine grained, poorly sorted, angular to rounded; about 10 to 15 percent shells and shell fragments, <u>Chione</u> sp. and <u>Turritella</u> sp.; about 5 to 10 percent clay-size particles.	7	9 - 16
Limemud, yellowish-gray (5 Y 8/1); micrite, not cemented; about 5 to 10 percent quartz, fine to very fine grained, well sorted (very fine), angular to subangular; about 5 to 10 percent shells and shell fragments, mollusks including <u>Chione</u> sp.; interbedded with about 10 to 15 percent limestone, yellowish-gray (5 Y 8/1) to light-gray (N 7) in places; sandy, sparse biosparite; neomorphic calcite present both in matrix and shells; about 20 percent quartz, fine to very fine grained, well sorted (fine), angular; well cemented.	3	16 - 19
Sand, yellowish-gray (5 Y 8/1); quartzose, very fine grained, subrounded; about 15 to 20 percent micrite, not cemented; about 5 percent shell fragments; interbedded with about 20 percent limestone, yellowish-gray (5 Y 8/1) to grayish-orange (10 YR 7/4); sandy, poorly washed biosparite; neomorphic calcite present both in matrix and shells; about 15 to 20 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded.	4	19 - 23
Sand, yellowish-gray (5 Y 7/2); quartzose, fine to very fine grained, well sorted (fine), subangular to rounded; about 3 to 5 percent micrite, not cemented.	1	23 - 24
Limestone, yellowish-gray (5 Y 8/1) to light-olive-gray (5 Y 6/1); sandy, unsorted biosparite, planktonic foraminifers and mollusks; neomorphic calcite present; about 30 to 40 percent quartz, fine to very fine grained, well sorted (fine), subangular to rounded; well cemented.	2	24 - 26
Limestone as above; grading into a sandy, intraclastic sparite; well cemented; interbedded with about 20 percent sand as in 23 to 24 feet.	3	26 - 29

Lithologic Log of Well G-2319--Continued

Lat 26°08'43", long 80°28'39"  
Sec. 31, T. 49 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 8/1 to 5 Y 7/2); sandy, fossiliferous sparite; about 25 to 30 percent quartz, fine to very fine grained, well sorted (fine), subangular to rounded; very well cemented; interbedded with about 40 percent sandy, sparse biomicrite, benthic foraminifers, mollusks including gastropods; well cemented.	4	29 - 33
Limestone, yellowish-gray (5 Y 8/1); sandy, sparse biomicrite, mollusks including gastropods; cavity-filling calcite is present; about 25 to 30 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; well cemented.	3	33 - 36
Limestone, yellowish-gray (5 Y 8/1 to 5 Y 7/2); sandy, sparse biomicrite, mollusks and echinoid spines; neomorphic and cavity-filling calcite present; about 20 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; well cemented; interbedded with about 15 percent quartz sand with minor phosphorite.	3	36 - 39
Limestone, yellowish-gray (5 Y 8/1) and pale-yellowish-brown (10 YR 6/2); fossiliferous dismicrite, gastropods and other mollusks, and framework organisms; neomorphic and both equant and fibrous cavity-filling calcite are present; well cemented.	4	39 - 43
Limestone, very pale orange (10 YR 8/2); sandy, sparse biomicrite, mollusks; about 10 to 20 percent quartz, fine to very fine grained, well sorted (very fine), subangular to subrounded; neomorphic calcite present in matrix; well cemented.	5.5	43 - 48.5
Limestone, yellowish-gray (5 Y 8/1 to 5 Y 7/2); sandy, sparse, poorly washed biomicrite, gastropods, <u>Pecten</u> sp., and other mollusks; neomorphic calcite present in shells and matrix; about 20 to 25 percent quartz, fine to very fine grained, well sorted (very fine), subangular; very well cemented.	.5	48.5 - 49
Limestone, light-olive-gray (5 Y 6/1) and dark-gray (N 3); sandy, packed biomicrite, mollusks including <u>Pecten</u> sp., bryozoans, borings, and fecal pellets; shells are white (N 9) and partially dissolved; about 15 to 20 percent quartz, very fine grained, subangular; moderately to well cemented.	4	49 - 53
Limemud, light-olive-gray (5 Y 8/1); shelly, sandy micrite; about 20 percent quartz, fine grained, subrounded; about 20 percent shell fragments and detrital carbonate.	1.5	53 - 54.5

Lithologic Log of Well G-2319--Continued

Lat 26°08'43", long 80°28'39"  
Sec. 31, T. 49 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 8/1 to 5 Y 7/2); sandy, fossiliferous intramicrite; about 20 to 25 percent quartz, medium to fine grained, well sorted (very fine), subangular; about 5 to 10 percent phosphorite, fine to very fine grained, well sorted (very fine), subrounded to well rounded; moderately cemented.	4.5	54.5 - 59
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse biomicrite, gastropods and pelecypods; about 20 to 25 percent quartz, medium to very fine grained, well sorted (very fine), subangular to rounded; about 10 percent phosphorite, fine to very fine grained, well sorted (very fine), subrounded to well rounded; loosely to moderately cemented.	4	59 - 63
Limestone, yellowish-gray (5 Y 7/2), light-olive-gray (5 Y 5/2), and grayish-black (N 2); sandy, packed biomicrite, mollusks including pelecypods, <u>Turritella</u> sp. and other gastropods, and pelecypods, bryozoans and barnacles; about 20 to 25 percent quartz, medium to fine grained, well sorted (very fine), subrounded to well rounded; about 10 to 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; loosely to well cemented.	3	63 - 69
Limestone, light-olive-gray (5 Y 6/1); sandy, sparse biomicrite, pelecypods and <u>Turritella</u> sp.; about 30 to 35 percent quartz, medium to very fine grained, poorly sorted, subangular to rounded; about 10 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted, rounded to well rounded; about 5 percent clayey silt; loosely to moderately cemented.	4	69 - 73
Limestone, light-yellowish-gray (5 Y 8/1); sandy, fossiliferous intramicrite; about 15 to 20 percent quartz, medium to very fine grained, poorly sorted, subrounded to rounded; about 10 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), subrounded to well rounded; moderately to loosely cemented towards base.	6	73 - 79
Sand, light-olive-gray (5 Y 6/1); detrital carbonate, very coarse to very fine grained, poorly sorted, subrounded to rounded; about 20 percent shells and shell fragments; about 15 to 20 percent quartz, very coarse to very fine grained, poorly sorted, subrounded to well rounded; cemented in places.	4	79 - 83
Sand, medium-gray (N 5); quartzose, fine to very fine grained, well sorted (fine), subrounded to rounded; about 5 percent phosphorite, fine to very fine grained, well sorted (fine), subrounded to well rounded; about 3 to 5 percent detrital carbonate, fine grained, subrounded; about 15 to 20 percent clayey silt, light-olive-gray (5 Y 6/1); slightly calcareous; about 3 to 5 percent shell fragments.	3	83 - 86

Lithologic Log of Well G-2319--Continued

Lat 26°08'43", long 80°28'39"  
Sec. 31, T. 49 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, medium-gray (N 5); quartzose, medium to very fine grained, moderately sorted (fine), angular to rounded; about 10 percent phosphorite, fine to very fine grained, well sorted (very fine), subrounded to rounded; about 5 to 10 percent detrital carbonate, medium to fine grained, poorly sorted, subrounded; about 15 percent clayey silt as above.	1	86 - 87
Sand, medium-gray (N 5); quartzose, fine grained, angular to subrounded; about 5 percent phosphorite, very fine grained, rounded to well rounded; about 10 percent clay, light-olive-gray (5 Y 6/1); slightly calcareous; about 1 to 5 percent shell fragments.	6	87 - 93
Sand, olive-gray (5 Y 4/1); quartzose, fine to coarse silt, well sorted (very fine), very angular to subrounded; about 10 to 15 percent phosphorite, fine to very fine grained, well sorted (very fine), subrounded to well rounded; about 15 to 20 percent clayey silt, light-olive-gray (5 Y 6/1); slightly calcareous; about 10 percent clay, dark-greenish-gray (5 GY 4/1).	3	93 - 96
Sand, olive-gray (5 Y 4/1); quartzose, medium to very fine grained, well sorted (fine), subangular to rounded; about 5 percent phosphorite, very fine grained, rounded to well rounded; about 15 percent clay, light-olive-gray (5 Y 6/1); slightly calcareous.	7	96 - 103
Sand as in 93 to 96 feet; a large (about 4 x 3 inches) mollusk shell fragment; about 10 percent clay, dark-greenish-gray (5 GY 4/1); slightly calcareous.	3	103 - 106
Sand, medium-light-gray (N 6); medium to very fine grained, moderately sorted (fine), subangular to well rounded; about 5 to 10 percent phosphorite, fine to very fine grained, well sorted (fine), subangular to well rounded; about 30 to 35 percent RF: silty claystone, very calcareous; about 15 percent clay, light-olive-gray (5 Y 6/1); slightly calcareous; about 15 to 20 percent shell fragments, mollusks.	3	106 - 109
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to fine grained, moderately sorted (fine), subangular to subrounded; about 15 to 20 percent phosphorite, coarse to fine grained, moderately sorted (fine), subrounded to well rounded; about 20 to 25 percent RF as above; about 10 to 15 percent detrital carbonate, coarse to fine grained, poorly sorted, subrounded; about 3 to 5 percent shell fragments, mollusks.	2.5	109 - 111.5
Claystone, olive-gray (5 Y 4/1); silty, very calcareous; well cemented.	1.5	111.5 - 113

Lithologic Log of Well G-2319--Continued

Lat 26°08'43", long 80°28'39"  
Sec. 31, T. 49 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, medium-light-gray (N 6); intraclastic, packed biomicrite, mollusks including gastropods, echinoid spines and fragments, and pink barnacles; loosely cemented to well cemented at 113 to 116 feet.	13	113 - 126
Limestone, light-gray (N 7); packed biomicrite, mollusks including pelecypods, and echinoid spines and fragments; moderately to well cemented at 128.5 and 129 feet.	3	126 - 129
Limestone as in 113 to 126 feet; fecal pellets; loosely to moderately cemented.	10	129 - 139
Limestone as above; about 5 to 10 percent quartz, fine grained, subangular; about 5 percent phosphorite, very fine grained, rounded to well rounded.	4	139 - 143
Sand, light-gray (N 7); detrital carbonate, coarse to medium grained, well sorted (coarse), subrounded to rounded; about 30 to 35 percent quartz, medium to very fine grained, well sorted (fine), subangular to subrounded; about 10 to 15 percent micrite, not cemented; about 10 percent phosphorite, fine to very fine grained, well sorted, rounded to well rounded.	3	143 - 146
Sand, light-olive-gray (N 7); quartzose, medium to to fine grained, well sorted (fine), angular to subrounded; about 25 to 30 percent detrital carbonate as above; about 10 percent phosphorite, fine grained, subrounded to well rounded; about 3 to 5 percent shell fragments.	3	146 - 149
Limestone, light-gray (N 7), intraclastic, packed biomicrite, <u>Pecten</u> sp., pelecypods, bryozoans, and echinoid spines; moderately to well cemented.	7	149 - 156
Sand, light-gray (N 7); detrital carbonate, fine to very fine grained, subrounded to rounded; about 30 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; about 10 to 15 percent phosphorite, fine to very fine grained, well sorted (fine), subrounded to well rounded; about 5 percent shell fragments.	3	156 - 159
Limestone, yellowish-gray (5 Y 8/1); sandy, intraclastic, sparse biomicrite, barnacles, <u>Pecten</u> sp. and other mollusks; about 20 percent quartz (towards base), fine grained, angular to subrounded; about 5 to 10 percent phosphorite, fine to very fine grained, well sorted (fine), subrounded to well rounded; loosely to well cemented towards base.	7	159 - 166

Lithologic Log of Well G-2319--Continued

Lat 26°08'43", long 80°28'39"

Sec. 31, T. 49 S., R. 39 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone as above; about 15 to 20 percent porosity, moldic; interbedded with sand, quartzose, fine to very fine grained, well sorted (fine), subangular to subrounded; about 20 to 25 percent detrital carbonate, fine to very fine grained, well sorted (fine), subrounded to rounded; about 10 percent phosphorite, fine to very fine grained, well sorted (fine), subrounded to rounded; about 5 to 10 percent shell fragments, mollusks; well cemented.	7	166 - 173
Sand, light-olive-gray (5 Y 6/1); quartzose, fine to very fine grained, well sorted (fine), angular to subrounded; about 15 to 20 percent detrital carbonate, rounded to well rounded; about 10 to 15 percent shell fragments; about 10 to 15 percent phosphorite, fine to very fine grained, rounded to well rounded; about 10 percent clay at 176 to 179 feet.	6	173 - 179
Limestone, light-olive-gray (5 Y 6/1); sandy, intraclastic, sparse biomicrite; about 30 to 40 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; about 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to well rounded; interbedded with about 25 to 30 percent sand as above; about 20 percent shells and shell fragments.	4	179 - 183
Sandstone, olive-gray (5 Y 4/1); quartzose, fine to very fine grained, well sorted (fine), subangular to subrounded; about 20 percent phosphorite, fine to very fine grained, well sorted (fine), subrounded to well rounded; about 10 to 15 percent clay; about 10 percent shell fragments; moderately to well cemented.	3	183 - 186
Sand as in 173 to 176 feet; about 25 to 30 percent shell fragments, mollusks; about 20 percent phosphorite.	6	186 - 192
Sand as above; about 15 to 20 percent clay; about 20 to 25 percent phosphorite; about 15 percent shell fragments.	1	192 - 193
Sand as above; about 30 percent phosphorite; about 15 to 25 percent clay; about 10 to 15 percent shell fragments.	16	193 - 209
Clay, light-olive-gray (5 Y 5/2) and grayish-olive-green (5 GY 3/2); silty and slightly calcareous.	10	209 - 219

Lithologic Log of Well G-2320

Lat 26°08'46", long 80°35'42"

Description	Thick- ness (feet)	Depth, feet below land surface
Fill.	6	0 - 6
Limestone, yellowish-gray (5 Y 7/2) to dusky-yellow (5 Y 6/4); sandy, fossiliferous micrite, benthic foraminifers; about 10 to 15 percent quartz, fine to very fine grained, well sorted (fine), angular to subangular; neomorphic calcite present in matrix; loosely to well cemented.	3	6 - 9
Limestone, very pale orange (10 YR 8/2); fossiliferous dismicrite; first and second generation cavity-filling calcite present; moderately to well cemented.	7	9 - 16
Limestone, very pale orange (10 YR 8/2) to pale-yellowish-brown (10 YR 6/2); micrite to dismicrite in places; moderately to well cemented.	3	16 - 19
Limestone, moderate-yellowish-brown (10 YR 5/4); sparse biomicrite, gastropods; cavity-filling calcite cement is present; loosely to moderately cemented.	4	19 - 23
Limemud, very pale orange (10 YR 8/2); sandy micrite; about 10 to 15 percent quartz, fine grained, angular to subangular.	2	23 - 25
Limestone, grayish-orange (10 YR 7/4), pale-yellowish-brown (10 YR 6/2), and moderate-yellowish-brown (10 YR 5/4); sparse biomicrite, mollusks including gastropods; neomorphic and cavity-filling calcite are present; moderately cemented.	.5	25 - 25.5
Limestone, yellowish-gray (5 Y 7/2), dark-yellowish-gray (10 YR 6/6), and pale-yellowish-brown (10 YR 6/2); fossiliferous dismicrite, mollusks including gastropods; cavity-filling calcite is present; well cemented.	3.5	25.5 - 29
Limestone, pale-yellowish-brown (10 YR 6/2); packed biomicrite, abundant in white, smooth-test gastropods and other mollusks, benthic foraminifers; well cemented.	2	29 - 31
Limestone, very pale orange (10 YR 8/2) to pale-yellowish-brown (10 YR 6/2); sandy, sparse biomicrite, mollusks including gastropods; cavity-filling calcite is present; about 20 to 25 percent quartz, medium to fine grained, well sorted (fine), angular to subangular; well cemented.	5	31 - 36
Limestone, very pale orange (10 YR 8/2) to dark-yellowish-brown (10 YR 4/2); sandy sparse to packed biomicrite, mollusks, including gastropods and pelecypods, and benthic foraminifers; about 15 to 20 percent quartz, fine to very fine grained, well sorted (very fine), angular; cavity-filling calcite is present; well cemented.	7	36 - 43

Lithologic Log of Well G-2320--Continued

Lat 26°08'46", long 80°35'42"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, very pale orange (10 YR 8/2) and a pale-brownish-gray (10 YR 6/2); sandy, sparse biomicrite, mollusks including pelecypods; about 30 percent quartz, very fine grained, angular; well cemented.	3	43 - 46
Limestone, yellowish-gray (5 Y 7/2) to very pale orange (10 YR 8/2); sandy, packed biomicrite and biolithite, coral, gastropods, pelecypods, possible root casts, and fecal pellets; bioturbated in places; about 30 percent quartz, fine to very fine grained, well sorted (very fine), angular to subangular; well cemented.	3	46 - 49
Limestone, yellowish-gray (5 Y 8/1); sandy, intraclastic, packed biomicrite grading into a sandy, intraclastic, sparse biomicrite in places, mollusks including gastropods and pelecypods; about 30 to 35 percent quartz, fine to very fine grained, well sorted (fine), angular to subangular; cavity-filling calcite is present; moderately to well cemented.	4	49 - 53
Limestone, yellowish-gray (5 Y 8/1) to very pale orange (10 YR 8/2); sandy, packed biomicrite to a sandy, poorly washed biosparite in places; mollusks, including <u>Chione</u> sp., <u>Turritella</u> sp., and <u>Pecten</u> sp., bryozoans, and fecal pellets; about 35 to 40 percent quartz, medium to very fine grained, well sorted (very fine), angular to rounded; cavity-filling calcite is present; loosely to moderately cemented.	6	53 - 59
Limestone, light-gray (N 7); dismicrite grading vertically to a sandy, sparse biomicrite; both contain neomorphic calcite; mollusks including pelecypods, and barnacles; about 0 to 30 percent quartz, fine grained, angular to subangular; well cemented.	1	59 - 60
Limestone, light-gray (N 7) and dark-gray (N 3); sandy, fossiliferous, intraclastic dismicrite (clasts are from a calcareous graywacke) grading to a sandy, packed biomicrite; both contain neomorphic calcite; mollusks including <u>Chione</u> sp. and other pelecypods; about 30 to 40 percent quartz, fine grained, angular to subrounded; well cemented; interbedded with about 40 percent sand; quartzose, medium to fine grained, moderately sorted (fine), angular to subrounded; about 5 percent phosphorite, fine grained, subrounded to rounded; about 10 percent shell fragments.	3	60 - 63
Limestone, medium-dark-gray (N 4) to grayish-black (N 2); sandy, fossiliferous micrite grading to a sandy, sparse biomicrite; neomorphic calcite present, mollusks including gastropods, <u>Pecten</u> sp. and <u>Chione</u> sp.; about 30 percent quartz, medium to fine grained, well sorted (fine), subangular to rounded; well cemented; interbedded with shells and shell fragments; about 20 percent quartz, medium to fine grained, well sorted (fine); subangular to rounded.	6	63 - 69

Lithologic Log of Well G-2320--Continued

Lat 26°08'46", long 80°35'42"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone as above; interbedded with about 40 percent micrite, not cemented, with about 30 percent quartz, medium to fine grained, well sorted (fine), angular to subangular; about 10 percent phosphorite, medium to fine grained, well sorted (fine), subrounded to well rounded; about 10 percent shell fragments.	2.5	69 - 71.5
Limemud, yellowish-gray (5 Y 8/1); sandy micrite; about 30 percent quartz, fine to very fine grained, well sorted (very fine), angular; about 5 to 10 percent heavy minerals, very fine grained, angular to subrounded; about 5 to 10 percent shell fragments; interbedded with about 15 to 20 percent limestone as above.	1.5	71.5 - 73
Sandstone, light-olive-gray (5 Y 6/1); quartzose, coarse to fine grained, moderately sorted (medium), subangular to rounded; about 20 percent carbonate grains, coarse to medium grained, moderately sorted, subrounded to rounded; about 20 percent micrite matrix; about 5 to 10 percent shells and shell fragments, mollusks; about 5 percent phosphorite, medium to fine grained, well sorted (fine), subrounded to well rounded; moderately to well cemented.	3	73 - 76
Sand, light-gray (N 7) to light-olive-gray (5 Y 6/1); quartzose, coarse to fine grained, moderately sorted (medium), subrounded to rounded; about 15 to 20 percent detrital carbonate; about 10 percent phosphorite, medium to very fine grained, moderately sorted (fine), rounded to well rounded; about 5 to 10 percent shells and shell fragments, mollusks and echinoid spines; about 5 percent micrite (limemud); cemented in places.	3	76 - 79
Sand as above; about 30 percent sandstone, light-olive-gray (5 Y 6/1); quartzose, coarse to fine grained, moderately sorted (fine); about 10 to 15 percent carbonate grains, coarse to fine grained, subrounded to rounded; about 10 percent phosphorite, medium to fine grained, moderately sorted (fine), rounded to well rounded; about 5 percent shell fragments; about 5 to 10 percent micrite (limemud); moderately cemented.	5	79 - 84
Limestone, light-olive-gray (5 Y 5/2); intraclastic, packed biomicrite to sandy, intraclastic, packed biomicrite, mollusks including pelecypods and gastropods, echinoid fragments and spines; about 5 to 10 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; loosely to moderately cemented.	2	84 - 86

Lithologic Log of Well G-2320--Continued

Lat 26°08'46", long 80°35'42"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-gray (N 7) and light-olive-gray (5 Y 6/1); intraclastic, packed biomicrite to a sandy, intraclastic, packed biomicrite, mollusks including pelecypods and echinoid fragments and spines; about 5 to 10 percent quartz, fine to very fine grained, well sorted (fine), angular to subangular; moderately cemented; interbedded with carbonate sand; about 30 percent quartz, fine to very grained, well sorted (fine), subrounded to rounded; about 20 percent micrite.	3	86 - 93
Limestone, yellowish-gray (5 Y 8/1) and medium-light-gray (N 6); sparse intramicrite, mollusks including pelecypods, echinoid fragments and spines; loosely to moderately cemented.	10	93 - 103
Limestone, light-gray (N 7); packed intramicrite, mollusks including pelecypods, burrows, and echinoid fragments and spines; moderately to well cemented.	3	103 - 106
Limestone, light-gray (N 7) to medium-light-gray (N 6); sparse intramicrite, mollusks, barnacles, and echinoid fragments and spines; loosely to moderately cemented.	17	106 - 123
Limestone as in 103 to 106 feet; faunal assemblage includes barnacles and fecal pellets.	3	123 - 126
Limestone, light-gray (N 7) to medium-light-gray (N 6) and light-olive-gray (5 Y 6/1); sparse intramicrite, mollusks, including <u>Pecten</u> sp., barnacles, bryozoans, and echinoid fragments and spines; loosely to moderately cemented.	13	126 - 139
Limestone, light-olive-gray (5 Y 6/1) and medium-light-gray (N 6); sandy, sparse intramicrite, mollusks and barnacles; about 20 percent quartz, very fine grained, angular; well cemented.	7	139 - 146
Limestone, medium-light-gray (N 6), light-gray (N 7), and light-olive-gray (5 Y 6/1); sparse intramicrite, mollusks including <u>Pecten</u> sp., barnacles, echinoid fragments and spines, and bryozoans; about 5 to 15 percent quartz, fine to very fine grained, well sorted (very fine), angular to subangular; moderately to well cemented.	17	146 - 163
Limestone, light-olive-gray (5 Y 6/1); sparse intramicrite, mollusks; well cemented.	6	163 - 169

Lithologic Log of Well G-2320--Continued

Lat 26°08'46", long 80°35'42"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 8/1); sparse biomicrite, mollusks and echinoid spines; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to rounded; moderately to well cemented.	4	169 - 173
Limestone, yellowish-gray (5 Y 7/2); sandy, fossiliferous intramicrite, mollusks, barnacles, and echinoid spines; about 20 to 30 percent quartz, fine to very fine grained, well sorted (very fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to rounded; loosely cemented.	6	173 - 179
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse intramicrite, mollusks including gastropods; about 30 percent quartz, fine to very fine grained, well sorted (very fine), angular to subrounded; about 10 percent phosphorite, fine to very fine grained, subrounded to well rounded.	4	179 - 183
Sand, yellowish-gray (5 Y 7/2) and light-olive-gray (5 Y 5/2); quartzose, fine to very fine grained, well sorted (fine), angular to subrounded; about 10 to 15 percent phosphorite, fine to very fine grained, well sorted (fine), rounded to well rounded; about 15 to 20 percent shell fragments, mollusks, bryozoans, and echinoid spines; about 5 to 10 percent micrite, not cemented.	10	183 - 193
Sand, yellowish-gray (5 Y 8/1); quartzose, very fine grained, angular; about 5 to 10 percent phosphorite, very fine grained, rounded to well rounded; about 20 to 25 percent shells and shell fragments, mollusks; about 15 to 20 percent micrite, not cemented.	3	193 - 196
Sand, light-olive-gray (5 Y 6/1) to olive-gray (5 Y 4/1); quartzose, fine to very fine grained, well sorted (fine), very angular to subangular; about 20 percent phosphorite and heavy minerals, granules (at 206 to 210 feet) to very fine grained, well sorted (very fine), subrounded to well rounded; about 5 to 20 percent shells and shell fragments, mollusks including <u>Pecten</u> sp., and barnacles; about 10 to 20 percent clay-size particles.	14	196 - 210
Clay, olive-gray (5 Y 4/1), grayish-olive-green (5 GY 3/2), and dark-greenish-gray (5 GY 4/1); silty and slightly calcareous at 210 feet.	9	210 - 219

Lithologic Log of Well G-2321

Lat 26°07'42", long 80°22'00"  
Sec. 5, T. 50 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Fill and peat.	3	0 - 3
Limestone, yellowish-gray (5 Y 8/1 to 5 Y 7/2); sandy micrite; about 20 percent quartz, fine to very fine grained, moderately sorted (fine), subrounded to rounded; well cemented.	3	3 - 6
Limestone, yellowish-gray (5 Y 7/2); sandy micrite; about 20 to 25 percent quartz, fine to very fine grained, moderately sorted (fine), subrounded to rounded; neomorphic calcite present in matrix; well cemented; about 15 to 20 percent of sample is sandy micrite, not cemented; about 5 percent clay; about 1 percent peat.	3	6 - 9
Limemud, yellowish-gray (5 Y 7/2); sandy micrite; about 30 percent quartz, medium to very fine grained, moderately sorted (fine), subrounded to rounded; about 15 to 20 percent clay; about 5 percent shell fragments; about 30 percent of sample is limestone as above.	4	9 - 13
Limemud as above; about 30 to 35 percent quartz, fine to very fine grained, well sorted (fine), subrounded; about 5 to 10 percent clay.	1	13 - 14
Limestone, yellowish-gray (5 Y 7/2); sandy micrite; about 30 to 35 percent quartz, medium to very fine grained, moderately sorted (fine), subrounded to rounded; well cemented.	1.75	14 - 15.75
Limemud as in 13 to 14 feet; about 20 percent limestone at 16 to 19 feet, yellowish-gray (5 Y 7/2); sandy, fossiliferous micrite; about 30 to 35 percent quartz, medium to very fine grained, moderately sorted (fine), subrounded to rounded; well cemented.	3.25	15.75 - 19
Limestone, yellowish-gray (5 Y 7/2), sandy biosparite, mollusks and bryozoans; about 30 to 35 percent quartz, fine to very fine grained, well sorted (fine), subangular to rounded; abundant in cavity-filling calcite; well cemented; interbedded with sand, quartzose, medium to very fine grained, well sorted (fine), angular to subrounded; about 10 percent phosphorite, fine to very fine grained, well sorted (fine), subrounded to rounded.	4	19 - 23
Limestone as above grading into a calcareous sandstone in places; interbedded with about 40 to 50 percent sand as above.	3	23 - 26
Limestone, yellowish-gray (5 Y 8/1); sandy, fossiliferous sparite grading to a sandstone in places; about 40 to 45 percent quartz, fine to very fine grained, moderately sorted (fine), subrounded to rounded; about 5 percent phosphorite, fine to very fine grained, well sorted (fine), rounded to well rounded; well cemented; interbedded with about 25 to 30 percent sand as above.	3	26 - 29

Lithologic Log of Well G-2321--Continued

Lat 26°07'42", long 80°22'00"

Sec. 5, T. 50 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, yellowish-gray (5 Y 8/1); quartzose, medium to very fine grained, well sorted (fine); about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained; well sorted (fine), subangular to well rounded; about 1 to 3 percent shell fragments.	1	29 - 30
Limestone and sand as in 26 to 29 feet.	1.5	30 - 31.5
Sand as in 29 to 30 feet.	1.5	31.5 - 33
Sandstone, yellowish-gray (5 Y 8/1); quartzose, fine to very fine grained, moderately sorted (fine), subangular to subrounded; about 10 to 15 percent shells and shell fragments, benthic foraminifers and framework organism; about 10 to 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subangular to well rounded; nodular; well cemented; interbedded with about 15 to 20 percent sand as above.	3	33 - 36
Sand, yellowish-gray (5 Y 8/1); quartzose, fine to very fine grained, well sorted (fine); angular to subangular; about 10 to 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to well rounded; interbedded with sandstone as above.	3	36 - 39
Sand as in 29 to 30 feet; interbedded with about 35 percent sandstone as above, grading to a very sandy sparite in places.	4	39 - 43
Sand, yellowish-gray (5 Y 8/1); quartzose, coarse to fine grained, well sorted (fine), subangular to rounded; about 10 to 15 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), subrounded to well rounded; limestone, at 43 to 43.5 and 45.5 feet; sandy, sparse bio-sparite; mollusks; calcite cavity-filling cement present; about 35 to 40 percent quartz, medium to fine grained; about 3 to 5 percent phosphorite, fine grained, well rounded; well cemented.	3	43 - 46
Sand as above; interbedded with about 15 percent sandstone, calcareous, quartzose, fine to very fine grained, well sorted (fine), subrounded to rounded; about 15 percent detrital carbonate, fine to very fine grained, well sorted (fine); about 10 to 15 percent shell fragments, light-brown (5 YR 5/6); well cemented.	3	46 - 49
Sand as above.	2.5	49 - 51.5
Limestone, yellowish-gray (5 Y 7/2); sandy, fossiliferous micrite, mollusks; about 25 to 30 percent quartz, fine to very fine grained, well sorted (fine), subrounded to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to rounded; moderately to well cemented.	1.5	51.5 - 53

Lithologic Log of Well G-2321--Continued

Lat 26°07'42", long 80°22'00"  
Sec. 5, T. 50 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand as in 29 to 30 feet; interbedded with about 30 percent limestone; sandy, sparse biomicrite; about 30 percent quartz, medium to very fine grained, moderately sorted (fine), subrounded to rounded; about 5 to 10 percent phosphorite, fine to very fine grained, well sorted (fine), subrounded to well rounded; well cemented.	3	53 - 56
Limestone as above, coral and mollusks; interbedded with about 30 to 40 percent sand as above.	3	56 - 59
Limestone, yellowish-gray (5 Y 7/2); sandy, packed biomicrite, coral and mollusks; calcite cavity-filling cement present; about 30 percent quartz, medium to very fine grained, moderately sorted (fine), subrounded to rounded; about 5 to 10 percent phosphorite, fine to very fine grained, well sorted (fine), subrounded to well rounded; well cemented.	3	59 - 62
Sand as in 29 to 30 feet.	1	62 - 63
Limestone, yellowish-gray (5 Y 8/1); sandy, packed biomicrite, coral, pelecypods, and gastropods; calcite cavity-filling cement is present; about 15 to 20 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; about 5 to 10 percent phosphorite, fine to very fine grained, well sorted (fine), subrounded to rounded; well cemented.	3	63 - 66
Limestone, yellowish-gray (5 Y 8/1); fossiliferous micrite, gastropods, coral, pelecypods, and burrows filled with calcite cement; well cemented.	3	66 - 69
Limestone, yellowish-gray (5 Y 8/1); fossiliferous dismicrite, neomorphic calcite is present; well cemented.	2.5	69 - 71.5
Sand as in 29 to 30 feet, yellowish-gray (5 Y 7/2).	1.5	71.5 - 73
Limestone, white (N 9); fossiliferous micrite, neomorphic calcite is present in places; about 1 percent quartz, very fine grained, rounded; moderately to well cemented.	3	73 - 76
Limestone, yellowish-gray (5 Y 8/1); sandy, sparse intramicrite, mollusks; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; about 5 to 10 percent quartz, very fine grained, subangular to subrounded; moderately to well cemented.	7	76 - 83
Limestone as above; neomorphic and cavity-filling calcite is present; moderately to well cemented.	3	83 - 86

Lithologic Log of Well G-2321--Continued

Lat 26°07'42", long 80°22'00"  
Sec. 5, T. 50 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone as above; grading into a sandy intramicrite towards the base, medium-gray (N 5); about 15 percent quartz, fine to very fine grained, well sorted (very fine), subrounded to rounded; about 10 to 15 percent phosphorite, fine grained, rounded to well rounded; moderately to well cemented.	3	86 - 89
Limestone, medium-light-gray (N 6); sandy, fossiliferous intramicrite, mollusks, including <u>Turritella</u> sp.; about 15 to 20 percent quartz, medium to very fine grained, moderately sorted (very fine), rounded; about 10 to 15 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), subrounded to rounded; well cemented.	3.5	89 - 92.5
Sand, light-olive-gray (5 Y 6/1); quartzose, medium to fine grained, moderately sorted (very fine), subangular to subrounded; about 30 percent detrital carbonate, medium to fine grained; well sorted (medium), rounded to well rounded; about 10 to 15 percent phosphorite and heavy minerals, medium, very fine grained, well sorted (fine), subangular to rounded.	.5	92.5 - 93
Limestone as in 89 to 92.5 feet; containing large oyster fragments; interbedded with sand as above; about 20 percent shell fragments; about 1 percent phosphorite granules, well rounded.	3	93 - 96
Limestone, yellowish-gray (5 Y 7/2); sandy, intraclastic, sparse biomicrite, <u>Pecten</u> sp., <u>Ostrea</u> sp., pelecypods, and bryozoans; about 15 to 20 percent quartz, medium to very fine grained, poorly sorted, subangular to rounded; about 10 to 15 percent phosphorite and heavy minerals, granules to very fine grained, poorly sorted, angular to well rounded; loosely to moderately cemented.	3	96 - 99
Limestone, light-olive-gray (5 Y 5/2); sandy, sparse intrasparite; about 15 to 20 percent quartz, very coarse to fine grained, poorly sorted, subrounded to well rounded; about 10 to 15 percent phosphorite and heavy minerals, granules to very fine grained, poorly sorted, angular to well rounded; loosely to moderately cemented; interbedded with about 10 percent sandy, sparse biomicrite with quartz and phosphorite as above.	4	99 - 103
Sand, light-olive-gray (5 Y 6/1); about 30 to 35 percent detrital carbonate and shell fragments, subrounded to rounded; about 25 to 30 percent quartz, granules to fine grained, poorly sorted, subrounded to rounded; about 15 percent phosphorite and heavy minerals, granules to very fine grained, poorly sorted, subangular to well rounded; about 10 to 15 percent micrite, not cemented; interbedded with about 5 percent clay, olive-gray (5 Y 4/1), silty; cemented in places.	3	103 - 106

Lithologic Log of Well G-2321--Continued

Lat 26°07'42", long 80°22'00"  
Sec. 5, T. 50 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, yellowish-gray (5 Y 7/2); quartzose, coarse to fine grained, moderately sorted (fine), rounded to well rounded; about 20 to 25 percent micrite, not cemented; about 10 to 15 percent phosphorite and heavy minerals, granules to very fine grained, poorly sorted, subrounded to well rounded; about 10 percent detrital carbonate and shell fragments.	1.5	106 - 107.5
Claystone, dark-greenish-gray (5 GY 4/1); silty, calcareous; interbedded with RF from a sandy claystone, calcareous.	1.5	107.5 - 109
Silt, dark-greenish-gray (5 GY 4/1); clayey, slightly calcareous; about 15 percent quartz, medium grained, rounded; about 15 percent shell fragments; about 20 to 25 percent RF from a silty claystone.	4	109 - 113
Same as in 103 to 106 feet.	3	113 - 116
Sand, light-olive-gray (5 Y 6/1); quartzose, very coarse to medium grained, moderately sorted (medium), subrounded to well rounded; about 15 to 20 percent phosphorite, very coarse to medium grained, moderately sorted (medium), subrounded to well rounded; about 10 percent shell fragments; about 15 percent RF from a claystone (about 1 to 2 inches in size and oblate in shape).	3	116 - 119
Sand, yellowish-gray (5 Y 6/1) to dark-greenish-gray (5 GY 4/1); quartzose, medium to very fine grained, poorly sorted, subrounded to rounded; about 10 to 15 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subrounded to well rounded; about 30 to 35 percent clayey silt; about 5 to 10 percent shell fragments.	4	119 - 123
Sand, dark-greenish-gray (5 GY 4/1); quartzose, medium to fine grained, well sorted (fine), rounded; about 5 to 10 percent phosphorite and heavy minerals, fine grained, rounded to well rounded; about 20 percent clayey silt.	6	123 - 129
Sand, greenish-gray (5 GY 6/1); quartzose, coarse to fine grained, moderately sorted (fine), subrounded to rounded; about 10 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), subrounded to rounded; about 25 percent clayey silt; about 15 to 20 percent RF from a claystone.	7	129 - 136
Clay, dusky-yellow-green (5 GY 5/2); interbedded with sand and silt as above.	3	136 - 139
Clay as above; interbedded with about 20 percent sand, light-olive-brown (5 Y 5/6); quartzose, coarse to fine grained, moderately sorted (fine), subrounded to rounded; about 5 percent phosphorite and heavy minerals, fine grained, rounded; about 20 percent shell fragments; about 30 percent clayey micrite, not cemented.	2.5	139 - 141.5

Lithologic Log of Well G-2321--Continued

Lat 26°07'42", long 80°22'00"  
Sec. 5, T. 50 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Clay as above; about 30 percent sand as above; about 15 percent shell fragments.	1.5	141.5 - 143
Limestone, grayish-yellow-green (5 GY 7/2); sandy, fossiliferous micrite, mollusks; about 20 percent quartz, very fine grained, subangular; about 15 to 20 percent phosphorite and heavy minerals, very fine grained, rounded; about 3 percent clay; moderately cemented.	6	143 - 149
Limestone, light-olive-gray (5 Y 5/2); sandy, intramicrite; about 30 percent quartz, fine to very fine grained, well sorted (very fine), subangular to rounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), rounded to well rounded; loosely to moderately cemented.	4	149 - 153
Limestone as above; grading into a sandy, sparse biomicrite, mollusks, including <i>Pecten</i> sp. and bryozoans; about 15 to 20 percent quartz, fine to very fine grained, well sorted (very fine), subrounded to rounded; about 10 to 15 percent phosphorite and heavy minerals as above, subrounded to well rounded; about 3 percent clay; loosely to well cemented.	6	153 - 159
Limestone as above; about 20 to 25 percent shell fragments at 163 to 166 feet.	7	159 - 166
Sand, light-olive-gray (5 Y 6/1); quartzose, medium to very fine grained, well sorted (very fine), subangular to subrounded; about 20 percent detrital carbonate and shell fragments, echinoid spines and foraminifers were noted; about 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded.	3	166 - 169
Limestone as in 163 to 166 feet when dissolved in diluted HCl; about 35 percent microscopic insoluble brown, fibrous, organic matter.	4	169 - 173
Sand as in 166 to 169 feet.	3	173 - 176
Limemud, light-olive-gray (5 Y 6/1), micrite; about 25 percent silt and clay; about 20 percent quartz, fine to very fine grained, well sorted (very fine), subangular to rounded; about 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; about 3 to 5 percent shell fragments.	3	176 - 179
Sand as in 166 to 169 feet; about 20 percent phosphorite; about 10 percent silt; about 5 to 10 percent shell fragments, mollusks, and barnacles.	10	179 - 189

Lithologic Log of Well G-2321--Continued

Lat 26°07'42", long 80°22'00"  
Sec. 5, T. 50 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, medium-gray (N 5); quartzose, fine to very fine grained, well sorted (fine), angular to rounded; about 25 to 30 percent phosphorite, medium to very fine grained, moderately sorted (very fine), subrounded to well rounded; about 20 to 30 percent shell fragments, mollusks, including <u>Pecten</u> sp., large in size.	10	189 - 199
Sand as above; about 10 to 15 percent shell fragments; clayey silt towards the base.	3.5	199 - 202.5
Sand, dark-gray (N 3); quartzose, very fine grained, very angular to subangular; about 25 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; about 10 percent detrital carbonate; about 10 to 20 percent shell fragments; about 25 to 35 percent silt and clay, light-olive-gray (5 Y 5/2).	10.5	202.5 - 213
Sand as above; about 40 percent clay and silt; about 5 to 10 percent shell fragments.	10	213 - 223
Sand as above; about 45 to 50 percent clay and silt; about 1 percent shell fragments.	6	223 - 229
Sand as above; about 5 to 15 percent shell fragments, <u>Pecten</u> sp.	7	229 - 236
Sand as above; about 45 to 50 percent shell fragments.	3	236 - 239
Sand, olive-gray (5 Y 4/1); quartzose, fine to very fine grained, well sorted (fine), subangular to rounded; about 20 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded; about 20 percent clay and silt; about 40 percent shell fragments.	4	239 - 243
Shell fragments; about 35 to 45 percent sand as above; about 30 percent clay and silt.	6	243 - 249
Sand, olive-gray (5 Y 4/1); quartzose, medium to very fine grained, moderately sorted (fine), very angular to subangular; about 20 percent phosphorite, very fine grained, subrounded to well rounded; about 15 percent clay and silt; about 30 percent shell fragments.	4	249 - 253

Lithologic Log of Well G-2321--Continued

Lat 26°07'42", long 80°22'00"  
Sec. 5, T. 50 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, olive-gray (5 Y 4/1); quartzose, medium to very fine grained, well sorted (fine), subangular to rounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; about 5 to 10 percent clay and silt; about 20 percent shell fragments.	3	253 - 256
Sand as in 249 to 253 feet; about 30 percent clay and silt.	3	256 - 259
Sand, light-olive-gray (5 Y 5/2); quartzose, fine grained to silt, moderately to well sorted (fine to very fine at 263 to 266 feet), angular to subangular; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), rounded to well rounded; about 3 to 5 percent micrite, not cemented; about 20 to 25 percent shell fragments.	7	259 - 266
Sand, light-olive-gray (5 Y 5/2); quartzose, fine grained to silt, well sorted (fine), angular to subangular; about 10 to 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to well rounded; about 5 percent shell fragments.	3	266 - 269
Sand as in 259 to 266 feet; about 35 percent shell fragments (up to 2 inches in size).	4	269 - 273
Sand as in 266 to 269 feet; quartz is moderately sorted; about 20 to 35 percent shell fragments (up to 2.5 inches in size).	10	273 - 283
Sand as above; 5 percent shell fragments; about 5 to 10 percent clayey micrite, not cemented.	16	283 - 299

Lithologic Log of Well G-2322

Lat 26°06'17", long 80°16'12"  
Sec. 17, T. 50 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, pale-yellowish-brown (10 YR 6/2) to dark-yellowish-brown (10 YR 4/2); quartzose, medium to fine grained, well sorted (medium), subangular to rounded; interbedded with about 20 percent peat and soil decreasing to about 5 percent at 9 to 16 feet; about 5 to 10 percent micrite, not cemented, at 13 to 16 feet.	16	0 - 16
Sand, pale-yellowish-brown (10 YR 6/2); quartzose, medium to very fine grained, moderately sorted (fine), subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, fine to very fine grained, subrounded to well rounded.	3	16 - 19
Limemud, pale-yellowish-brown (10 YR 6/2); sandy micrite; about 40 percent quartz, fine to very fine grained, well sorted (fine), subangular to rounded.	3	19 - 22
Limestone, yellowish-gray (5 Y 7/2); sandy, fossiliferous micrite; about 30 percent quartz, fine to very fine grained, well sorted (fine), subrounded to rounded; moderately to well cemented.	1	22 - 23
Sandstone, yellowish-gray (5 Y 8/1); quartzose, medium to very fine grained, moderately sorted (fine), subangular to rounded; well cemented.	3	23 - 26
Sand, yellowish-gray (5 Y 8/1); quartzose, medium to very fine grained, moderately sorted (fine), angular to rounded; about 10 percent phosphorite, granules to very fine grained, poorly sorted, subrounded to well rounded; about 30 to 35 percent micrite, not cemented.	3	26 - 29
Sand as above; about 10 percent phosphorite, fine to very fine grained, subrounded to well rounded, well sorted (very fine); about 5 to 10 percent detrital carbonate; no micrite.	7	29 - 36
Limestone, yellowish-gray (5 Y 8/1); sandy micrite; about 35 to 40 percent quartz, fine grained, subangular to rounded; about 10 percent phosphorite and heavy minerals, fine grained, subangular to well rounded; well cemented; interbedded with about 40 percent sand, quartzose, medium to fine grained, well sorted (fine), subangular to rounded; about 20 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), angular to well rounded.	3	36 - 39
Sand as in 29 to 36 feet; interbedded with about 20 percent limestone mixture of a fossiliferous micrite, yellowish-gray (5 Y 7/2); about 5 to 10 percent quartz, very fine grained (has been areally exposed); grading to a sandy sparite, about 30 percent quartz, medium to fine grained, poorly sorted, subrounded; about 10 percent phosphorite, very fine grained, rounded to well rounded; sandy, sparse biosparite; about 30 to 35 percent quartz; about 10 percent phosphorite; well cemented.	4	39 - 43

Lithologic Log of Well G-2322--Continued

Lat 26°06'17", long 80°16'12"  
Sec. 17, T. 50 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 7/2); sandy micrite grading into a sandy intrasparite in places; about 25 to 30 percent quartz, fine to very fine grained, well sorted (fine), angular to rounded; about 10 to 15 percent phosphorite, medium to very fine grained, poorly sorted, subangular to rounded; well cemented; interbedded with about 40 percent sand as in 36 to 39 feet.	3	43 - 46
Sand as above.	2.5	46 - 48.5
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse biomicrite, mollusks; about 20 to 25 percent quartz, medium to very fine grained, poorly sorted, subrounded to rounded; about 10 percent phosphorite, fine grained, rounded to well rounded; neomorphic and cavity-filling calcite are present in matrix; well cemented.	1	48.5 - 49.5
Sand as in 39 to 43 feet; interbedded with limestone at 53 to 56 feet, sandy, fossiliferous micrite; about 25 to 30 percent quartz, fine to very fine grained, well sorted (fine), angular to subrounded; about 5 percent phosphorite, fine to very fine grained (very fine), rounded to well rounded; neomorphic calcite is present in matrix; well cemented.	6.5	49.5 - 56
Limestone as above; interbedded with sand, pale-yellowish-brown (10 YR 6/2); quartzose, coarse to fine grained, moderately sorted (fine); about 20 to 25 percent detrital carbonate, coarse to fine grained, poorly sorted, subrounded to rounded; about 10 to 15 percent phosphorite and heavy minerals; cemented in places into a sandstone having a sparite matrix.	3	56 - 59
Sand as above; cemented in places.	4	59 - 63
Sand, moderate-yellowish-brown (10 YR 5/4); quartzose, coarse to very fine grained, poorly sorted, very angular to rounded; about 30 percent detrital carbonate, granules to fine grained, poorly sorted, subangular to subrounded; about 10 percent phosphorite and heavy minerals, very coarse to very fine grained, poorly sorted, subangular to rounded; about 1 to 3 percent shells and shell fragments, mollusks; interbedded with about 15 to 25 percent limestone, sandy intrasparite; about 25 to 30 percent quartz, coarse to very fine grained, moderately sorted (fine), subangular to rounded; about 10 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; grading in places into an unsorted biosparite; neomorphic and cavity-filling calcite are present in matrix; well cemented.	3	63 - 66
Sand, moderate-yellowish-brown (10 YR 5/4); quartzose, medium to very fine grained, moderately sorted (fine), very angular to rounded; about 20 percent phosphorite and about 30 percent detrital carbonate as above; interbedded with limestone as above.	3	66 - 69

Lithologic Log of Well G-2322--Continued

Lat 26°06'17", long 80°16'12"  
Sec. 17, T. 50 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone as above; interbedded with about 40 to 45 percent sand as above at 73 to 76 feet.	7	69 - 76
Sand as above; about 20 percent phosphorite, coarse to very fine grained, moderately sorted (fine), subrounded to rounded; interbedded with about 40 percent limestone, unsorted biosparite as in 63 to 66 feet.	3	76 - 79
Limestone as in 63 to 66 feet, yellowish-gray (5 Y 7/2); well cemented; interbedded with about 50 percent sand as above; about 20 percent phosphorite, fine to very fine grained, well sorted (fine), subrounded to rounded.	4	79 - 83
Limestone, yellowish-gray (5 Y 7/2) and light-gray (N 7); sandy, intraclastic, unsorted biosparite grading into a sandy intrasparite in places, mollusks; about 30 percent quartz, medium to very fine grained, moderately sorted (fine), subrounded to well rounded; about 5 to 10 percent phosphorite, medium to very fine grained, well sorted (very fine), rounded to well rounded; moderately to well cemented; interbedded with about 30 percent sand, quartzose, coarse to very fine grained, moderately sorted (fine), subangular to well rounded; about 40 percent detrital carbonate and shell fragments; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), angular to well rounded.	3	83 - 86
Limestone, yellowish-gray (5 Y 7/2); sandy, intraclastic, unsorted biosparite, mollusks; about 10 percent quartz, coarse to very fine grained, poorly sorted, subangular to rounded; about 5 to 10 percent phosphorite, fine to very fine grained, subrounded to well rounded; well cemented.	3	86 - 89
Limestone, yellowish-gray (5 Y 7/2); sandy, poorly washed biosparite, mollusks and benthic foraminifers; about 10 to 15 percent quartz, coarse to very fine grained, moderately sorted (very fine), subangular to rounded; about 10 percent phosphorite, fine to very fine grained, well sorted (very fine), rounded to well rounded; well cemented.	4	89 - 93
Limestone, yellowish-gray (5 Y 7/2); sandy, intraclastic, unsorted biosparite, mollusks and benthic foraminifers; about 5 to 10 percent quartz, fine grained, subrounded to rounded; about 5 to 10 percent phosphorite, fine to very fine grained, well sorted (very fine), rounded to well rounded; well cemented.	3	93 - 96
Limestone, yellowish-gray (5 Y 7/2); sandy, intraclastic, sparse biomicrite, mollusks including gastropods; about 10 to 20 percent quartz, medium to fine grained, well sorted (fine), subrounded to rounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), angular to well rounded; moderately to well cemented.	4	96 - 103

Lithologic Log of Well G-2322--Continued

Lat 26°06'17", long 80°16'12"  
Sec. 17, T. 50 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone as above; about 5 to 10 percent quartz, medium to fine grained, moderately sorted (fine), subrounded to rounded; well cemented; interbedded with about 50 percent sand, detrital carbonate, medium to very fine grained, poorly sorted, subrounded to rounded; about 35 percent quartz, coarse to very fine grained, poorly sorted, angular to rounded; about 10 percent phosphorite, fine to very fine grained, well sorted (fine), rounded to well rounded; abundant in echinoid spines.	3	103 - 106
Sand as above; interbedded with about 40 percent limestone, light-gray (N 7) and yellowish-gray (5 Y 8/1); sandy, intraclastic, unsorted biosparite; about 20 percent quartz, medium to fine grained, moderately sorted (fine), subangular to rounded; about 10 to 15 percent heavy minerals, medium to very fine grained, moderately sorted (very fine), angular to rounded; well cemented.	3	106 - 109
Sand, light-gray (N 7); quartzose, coarse to very fine grained, poorly sorted, subangular to rounded; about 30 percent detrital carbonate and shell fragments, coarse to fine grained, poorly sorted, subangular to rounded; about 15 to 20 percent phosphorite, very coarse to fine grained, rounded to well rounded; cemented in places into a shelly sandstone; interbedded with about 20 percent limestone, sandy intramicrite, and sandy intrasparite; about 25 to 30 percent quartz and about 15 percent phosphorite as in sand above; well cemented.	4.5	109 - 113.5
Sand, light-gray (N 7); quartzose, coarse to very fine grained, poorly sorted, angular to rounded; about 25 percent detrital carbonate, medium to very fine grained, poorly sorted, subrounded to rounded; about 15 percent phosphorite, very coarse to fine grained, poorly sorted, subrounded to rounded; interbedded with about 40 percent limestone as in 106 to 109 feet.	2.5	113.5 - 116
Sand, light-gray (N 7); detrital carbonate, medium to very fine grained, poorly sorted, subrounded to rounded; about 40 percent quartz, coarse to very fine grained, poorly sorted, angular to rounded; about 15 percent phosphorite, very coarse to fine grained, poorly sorted, rounded to well rounded; interbedded with about 30 percent limestone, light-olive-gray (5 Y 6/1); sandy, intraclastic, sorted biosparite; about 10 percent phosphorite and heavy minerals, coarse to fine grained, moderately sorted (fine), subangular to rounded; well cemented.	3	116 - 119
Sand, as in 109 to 113.5 feet; interbedded with limestone (intrasparite) and sandstone at 120 to 121 feet, quartzose, coarse to fine grained, poorly sorted, subrounded to well rounded; about 30 percent detrital carbonate and shell fragments; sparite matrix; well cemented.	2	119 - 121

Lithologic Log of Well G-2322--Continued

Lat 26°06'17", long 80°16'12"  
Sec. 17, T. 50 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to medium grained, moderately sorted (medium), subrounded to rounded; about 30 percent detrital carbonate and shell fragments, granules to medium grained, moderately sorted (medium), subrounded; mollusks and echinoid spines; about 10 percent phosphorite, coarse to very fine grained, moderately sorted (fine), subangular to rounded; interbedded with about 10 to 30 percent limestone, fossiliferous intrasparite; well cemented.	5	121 - 126
Sand as above.	7	126 - 133
Sand, light-olive-gray (5 Y 6/1); quartzose, medium to fine grained, well sorted (fine), subangular to rounded; about 20 percent detrital carbonate and shell fragments, coarse to very fine grained, moderately sorted (medium), subrounded; pelecypods and echinoid spines; about 10 to 15 percent phosphorite, medium to very fine grained, well sorted (fine), angular to subrounded.	6	133 - 139
Sand, olive-gray (5 Y 4/1) and medium-dark-gray (N 4); detrital carbonate, very coarse to fine grained, poorly sorted, subangular to well rounded; about 40 percent quartz, very coarse to fine grained, moderately sorted (fine), subangular to rounded; about 5 to 10 percent phosphorite, coarse to fine grained, well sorted (fine), rounded; about 5 percent shell fragments, echinoid spines, benthic foraminifers, and bryozoans; interbedded with about 5 to 10 percent limestone, light-olive-gray (5 Y 6/1); sandy intramicrite; about 20 percent quartz, medium to fine grained, poorly sorted, subrounded to rounded; moderately cemented.	14	139 - 153
Sand as above; increase in very coarse grained detrital carbonate; about 5 percent phosphorite, very coarse to fine grained, well sorted (fine), rounded; interbedded with about 10 percent limestone, yellowish-gray (5 Y 7/2); sandy, fossiliferous intramicrite; about 15 percent quartz, coarse to fine grained, poorly sorted, subrounded to rounded; about 5 to 10 percent phosphorite, fine grained, rounded; moderately cemented.	3	153 - 156
Limestone, yellowish-gray (5 Y 7/2); sandy, fossiliferous intramicrite, mollusks including gastropods; about 10 to 15 percent quartz, medium to fine grained, moderately sorted (fine), subrounded to rounded; about 10 percent phosphorite, fine to very fine grained, well sorted (very fine), rounded to well rounded; loosely to moderately cemented; interbedded with about 30 percent sand as above.	3	156 - 159

Lithologic Log of Well G-2322--Continued

Lat 26°06'17", long 80°16'12"  
Sec. 17, T. 50 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, yellowish-gray (5 Y 7/2); detrital carbonate, coarse to fine grained, well sorted (fine), subangular to rounded; about 30 percent quartz, coarse to fine grained, moderately sorted (fine), subangular to rounded; about 5 to 10 percent phosphorite, medium to fine grained, well sorted (fine), rounded to well rounded; about 3 to 5 percent shell fragments.	4	159 - 163
Sand, yellowish-gray (5 Y 7/2); quartzose, coarse to fine grained, moderately sorted (fine), angular to rounded; about 25 to 40 percent detrital carbonate, coarse to fine grained, well sorted (fine), subangular to rounded; about 10 to 25 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), subrounded to well rounded; fauna: claws, echinoid spines, and sponge spicules; interbedded with limestone at 163 to 166 feet; sandy intramicrite; about 30 percent quartz, coarse to fine grained, moderately sorted (fine), angular to rounded; about 5 to 10 percent phosphorite, coarse to very fine grained, moderately sorted (fine), rounded to well rounded; loosely to moderately cemented.	20	163 - 183
Sand, light-olive-gray (5 Y 6/1); quartzose, medium to very fine grained, moderately sorted (fine), very angular to rounded; about 35 percent detrital carbonate, coarse to fine grained, well sorted (medium), subangular to rounded; about 20 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), subrounded to well rounded; abundant in echinoid spines.	3	183 - 186
Sand, light-olive-gray (5 Y 5/2); detrital carbonate, coarse to fine grained, poorly sorted, subangular to subrounded; about 30 to 35 percent quartz, medium to very fine grained, moderately sorted (fine), angular to rounded; about 10 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), angular to well rounded; fauna: echinoid spines and gastropods; cemented in places.	3	186 - 189
Sand as above; interbedded with about 10 percent limestone at 189 to 193 feet, sandy intramicrite; about 30 percent quartz, medium to fine grained, well sorted (fine), subangular to rounded; about 5 to 10 percent phosphorite, fine grained, rounded to well rounded; loosely to moderately cemented.	7	189 - 196
Sand as above; interbedded with about 10 to 20 percent limestone as above, mollusks and barnacles; about 10 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), subangular to well rounded; loosely to moderately cemented.	3	196 - 199

Lithologic Log of Well G-2322--Continued

Lat 26°06'17", long 80°16'12"  
Sec. 17, T. 50 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-olive-gray (5 Y 6/1); detrital carbonate, medium to fine grained, well sorted (fine), subrounded to well rounded; about 30 to 35 percent quartz, medium to fine grained, well sorted (fine), very angular to subangular; about 10 to 15 percent phosphorite, medium to fine grained, well sorted (fine), subangular to rounded; interbedded with about 10 to 15 percent limestone as above.	4	199 - 203
Sand, light-olive-gray (5 Y 5/2); quartzose, medium grained to silt, moderately sorted (fine), very angular to subangular; about 10 percent phosphorite, medium to fine grained, well sorted (fine), rounded to well rounded; about 20 to 35 percent micrite, not cemented; about 3 to 5 percent clay size particles; about 3 percent shell fragments; cemented in places.	6	203 - 209
Sand, light-olive-gray (5 Y 5/2); quartzose, medium to very fine grained, well sorted (fine), very angular to rounded; about 10 percent phosphorite, fine to very fine grained, well sorted (very fine), rounded to well rounded; about 15 percent micrite, not cemented; about 1 to 3 percent clay size particle; about 3 percent shell fragments; about 1 to 3 percent RF, sandy micrite.	7	209 - 216
Sand, light-olive-gray (5 Y 5/2); quartzose, medium grained to silt, moderately sorted (fine), very angular to subangular; about 10 to 15 percent phosphorite, fine grained to silt, well sorted (very fine), subrounded to well rounded; about 5 percent clay size particles, calcareous; about 75 percent silt at 219 to 219.5 feet.	7	216 - 223
Silt, light-olive-gray (5 Y 5/2); slightly calcareous; about 20 percent quartz, fine to very fine grained, well sorted (fine), angular to subangular; about 3 percent phosphorite, fine grained to very fine grained, well sorted (very fine), subrounded to well rounded.	7	223 - 230
Silt as above; about 25 to 30 percent micrite, not cemented; about 15 percent phosphorite, fine grained to very fine grained, well sorted (very fine), subangular to rounded.	8	230 - 238
Silt, olive-gray (5 Y 4/1); calcareous.	1	238 - 239

Lithologic Log of Well G-2323

Lat 26°19'38", long 80°12'15"  
Sec. 36, T. 47 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Fill.	3	0 - 3
Limestone, very pale orange (10 YR 8/2) to moderate-yellowish-brown (10 YR 5/4); sandy, sparse biomicrite, pelecypods; about 30 percent quartz, medium to very fine grained, moderately to well sorted (fine), subangular to subrounded; about 3 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented; interbedded with soil.	3	3 - 6
Limestone, grayish-orange (10 YR 7/4) to dark-yellowish-orange (10 YR 6/6); sandy, fossiliferous micrite, pelecypods; about 20 to 25 percent quartz, medium to fine grained, well sorted (fine), subangular to subrounded; about 3 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented.	3	6 - 9
Sand, moderate-yellowish-brown (10 YR 5/4); quartzose, coarse to very fine grained, moderately sorted (fine), angular to subangular; about 0 to 1 percent phosphorite and heavy minerals, fine grained, subrounded; interbedded with about 40 to 50 percent limestone, yellowish-gray (5 Y 8/1); sandy, sparse biomicrite, mollusks; about 40 percent quartz, coarse to very fine grained, moderately sorted (fine), angular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subrounded to rounded; well cemented.	4	9 - 13
Limestone as above; interbedded with about 20 percent sand as above.	3	13 - 16
Sand, pale-yellowish-brown (10 YR 6/2); quartzose, medium to fine grained, well sorted (fine), angular to subrounded; about 1 to 3 percent heavy minerals, fine grained, subrounded to rounded; about 15 percent shell fragments, mollusks, including <u>Chione</u> sp.; about 10 to 15 percent micrite, not cemented; interbedded with about 5 percent limestone, very pale orange (10 YR 8/2), dark-yellowish-orange (10 YR 6/6), and pale-yellowish-brown (10 YR 6/2); mottled; sandy micrite; about 25 percent quartz, medium to very fine grained, moderately sorted (fine), angular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented.	3	16 - 19
Shells and shell fragments, mollusks, abundant in <u>Chione</u> sp.; interbedded with about 40 percent sandy micrite, not cemented, pale-yellowish-brown (10 YR 6/2); about 30 percent quartz, medium to very fine grained, moderately sorted (fine), angular to subrounded; about 3 percent heavy minerals, very fine grained, subrounded to rounded.	4	19 - 23

Lithologic Log of Well G-2323--Continued

Lat 26°19'38", long 80°12'15"  
Sec. 36, T. 47 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, pale-yellowish-brown (10 YR 6/2); quartzose, coarse to very fine grained, well sorted (fine), angular to rounded; about 1 to 3 percent heavy minerals, very fine grained, subrounded to rounded; about 5 to 15 percent shell fragments.	10	23 - 33
Limemud, olive-black (5 Y 2/1); micrite, not cemented; about 30 percent clay and organic matter; about 10 percent quartz, coarse to very fine grained, well sorted (fine) to poorly sorted at 36 to 38.5 feet; about 15 percent shell fragments, <u>Chione</u> sp.	5.5	33 - 38.5
Sand, brownish-gray (5 YR 4/1) to pale-yellowish-brown (10 YR 6/2); quartzose, coarse to medium grained, well sorted (coarse), subangular to rounded; about 1 percent heavy minerals, very fine grained, subrounded to rounded; about 5 to 10 percent silt and organic material.	10.5	38.5 - 49
Sand, very pale orange (10 YR 8/2) to pale-yellowish-brown (10 YR 6/2); quartzose, very coarse to fine grained, moderately sorted (medium), angular to rounded; about 3 to 5 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), subrounded to rounded; about 1 to 10 percent silt and organic matter; about 3 to 10 percent shell fragments, mollusks.	10	49 - 59
Sand as above, grayish-orange (10 YR 7/4) to pale-yellowish-brown (10 YR 6/2); about 5 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subrounded to well rounded; no shell fragments.	1	59 - 60
Sand, very pale orange (10 YR 8/2) to yellowish-brown (10 YR 6/2), and dark-yellowish-orange (10 YR 6/6); quartzose, medium to very fine grained, well sorted (very fine), angular to rounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subangular to rounded.	29	60 - 89
Sand, light-olive-gray (5 Y 6/1); quartzose, fine to very fine grained, well sorted (very fine), angular to subrounded; about 10 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded.	7	89 - 96
Limestone, light-olive-gray (5 Y 6/1) to medium-gray (N 5); sandy, intraclastic, sparse dismicrite, mollusks and benthic foraminifers; about 35 percent quartz, coarse to very fine grained, moderately sorted (medium), subrounded; about 10 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (very fine), rounded to well rounded; loosely to well cemented.	3	96 - 99

Lithologic Log of Well G-2323--Continued

Lat 26°19'38", long 80°12'15"  
Sec. 36, T. 47 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, medium-light-gray (N 6); quartzose, coarse to fine grained, moderately sorted (medium), subangular to subrounded; about 10 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), rounded to well rounded; about 15 percent detrital carbonate, medium to fine grained, well sorted (medium), subrounded; interbedded with about 40 percent limestone, sandy, sparse biomicrite, foraminifers and mollusks; about 20 to 25 percent quartz, very coarse to fine grained, moderately sorted (medium), subrounded to rounded; about 10 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (fine), rounded to well rounded; well cemented.	4	99 - 103
Sandstone, light-gray (N 7) to medium-dark-gray (N 4); quartzose, coarse to very fine grained, moderately sorted (medium), subangular to rounded; about 15 to 20 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (fine), rounded to well rounded; about 25 percent detrital carbonate, coarse to very fine grained, moderately sorted (medium), subrounded to rounded; about 20 to 30 percent sparite matrix; moderately to well cemented.	3	103 - 106
Sand, light-gray (N 7) to medium-dark-gray (N 4); quartzose, coarse to very fine grained, moderately to poorly sorted, angular to subrounded; about 15 to 20 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (fine), rounded to well rounded; about 25 percent detrital carbonate, coarse to very fine grained, moderately sorted (medium), subrounded to rounded; interbedded with about 40 percent sandstone as above; loosely to moderately cemented.	3	106 - 109
Sandstone as above, grading into a sandy intramicrite and a sandy sparite in places; about 35 percent quartz, coarse to very fine grained, moderately sorted (medium), subangular to rounded; about 10 to 15 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (fine), rounded to well rounded; moderately to well cemented.	4	109 - 113
Sand, light-gray (N 7) to medium-dark-gray (N 4); quartzose, coarse to fine grained, moderately sorted (fine), angular to rounded; about 15 to 20 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), rounded to well rounded; about 25 percent detrital carbonate, coarse to fine grained, well sorted (medium), subangular to well rounded.	1.5	113 - 114.5

Lithologic Log of Well G-2323--Continued

Lat 26°19'38", long 80°12'15"  
Sec. 36, T. 47 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1) to medium-gray (N 5); sandy, sparse dismicrite, mollusks; about 25 percent quartz, coarse to very fine grained, moderately sorted (fine), subangular to subrounded; about 10 percent phosphorite and heavy minerals, fine grained, rounded to well rounded; well cemented; interbedded with about 20 percent sandstone as in 109 to 113 feet.	1.5	114.5 - 116
Sandstone, medium-light-gray (N 6) to medium-dark gray (N 4); quartzose, medium to fine grained, well sorted (fine), subrounded; about 20 percent phosphorite and heavy minerals, fine grained, rounded to well rounded; about 25 percent detrital carbonate, medium to fine grained, well sorted (fine), subrounded; grading into a limestone in places, moderate-yellowish-brown (10 YR 5/4); sparse biomicrite; moderately to well cemented.	3	116 - 119
Limestone, light-olive-gray (5 Y 6/1) to medium-gray (N 5); sandy, intraclastic, sparse biosparite grading into a sandstone in places, <i>Ostrea</i> sp. and coral; about 20 to 35 percent quartz, medium to fine grained, well sorted (fine), subrounded; about 20 percent phosphorite, fine to very fine grained, well sorted (fine), rounded to well rounded; well cemented.	4	119 - 123
Limestone, light-olive-gray (5 Y 6/1) to medium-gray (N 5); sandy, sparse intrasparite, mollusks; cavity-filling calcite present; about 30 to 35 percent quartz, coarse to fine grained, well sorted (fine), subrounded; about 10 percent phosphorite, fine grained, rounded to well rounded; loosely to well cemented.	6	123 - 129
Sandstone, medium-dark-gray (N 4) to dark-gray (N 3); quartzose, very fine grained, angular to subangular; about 25 to 30 percent phosphorite, very fine grained, well rounded; about 5 to 10 percent shell fragments and detrital carbonate; grading into a sandy, intraclastic, sparse biosparite and a sandy intrasparite in places; loosely to well cemented.	7	129 - 136
Limestone, light-olive-gray to medium-light-gray (N 6); sandy, fossiliferous intrasparite, foraminifers; about 35 to 40 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; loosely to well cemented.	3	136 - 139
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); sandy, sparse intrasparite, mollusks and foraminifers; about 20 to 30 percent quartz, coarse to very fine grained, well sorted (fine), subangular to rounded; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented.	10	139 - 149

Lithologic Log of Well G-2323--Continued

Lat 26°19'38", long 80°12'15"  
Sec. 36, T. 47 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone, medium-dark-gray (N 4); quartzose, coarse to fine grained, moderately sorted (medium), subrounded to rounded; about 5 to 10 percent phosphorite, medium to fine grained, well sorted (fine), rounded to well rounded; about 35 to 40 percent shell fragments and detrital carbonate, fine grained, subrounded; well cemented.	4	149 - 153
Limestone as in 139 to 149 feet; well cemented.	3	153 - 156
Sandstone as in 149 to 153 feet; loosely to well cemented.	10	156 - 166
Sandstone as above, grading into a sandy intrasparite in places; about 30 to 35 percent quartz, about 5 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (very fine), rounded to well rounded; well cemented.	3	166 - 169
Limestone, yellowish-gray (5 Y 8/1) to light-gray (N 7); sandy, sparse intrasparite grading to a sandy, sparse intramicrite in places; bryozoans, serpulids, mollusks, and benthic foraminifers; about 25 percent quartz, coarse to very fine grained, poorly sorted, subangular to subrounded; about 5 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), subrounded to well rounded; well cemented; is in contact with about 5 percent sandstone as above.	4	169 - 173
Sand, very pale orange (10 YR 8/2) to grayish-orange (10 YR 7/4); detrital carbonate and shell fragments; about 10 to 15 percent quartz, very coarse to fine grained, poorly sorted, subangular to rounded; about 5 percent phosphorite, fine to very fine grained, well sorted (fine), rounded to well rounded; interbedded with about 40 percent limestone, sandy, packed intramicrite, mollusks including <u>Chione</u> sp.; about 15 to 20 percent quartz, coarse to fine grained, poorly sorted, subangular to rounded; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; loosely to well cemented.	10	173 - 183
Sand as above; interbedded with about 40 percent limestone, yellowish-gray (5 Y 7/2) to light-olive-gray (5 Y 5/2); sandy, sparse intrasparite; about 10 percent quartz, fine grained, subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; well cemented.	3	183 - 186
Limestone as above; about 5 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subrounded to well rounded; moderately to well cemented.	3	186 - 189

Lithologic Log of Well G-2323--Continued

Lat 26°19'38", long 80°12'15"  
Sec. 36, T. 47 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); sandy, sparse intrasparite, mollusks; about 25 percent quartz, medium to very fine grained, well sorted (fine), subrounded to rounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; well cemented.	4	189 - 193
Limestone, light-olive-gray (5 Y 6/1); sandy, sparse intramicrite, mollusks; about 20 to 25 percent quartz, very coarse to very fine grained, poorly sorted, subrounded to well rounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; well cemented; interbedded with about 40 percent sand at 196 to 199 feet; quartzose, coarse to fine grained, moderately sorted (medium), subangular to rounded; about 30 percent detrital carbonate and shell fragments, coarse to fine grained, well sorted (medium), subrounded to rounded; about 5 percent phosphorite and heavy minerals, very coarse to very fine grained, moderately sorted (fine), rounded.	6	193 - 199
Sand as above; about 10 percent RF, limestone as in 193 to 199 feet.	4	199 - 203
Sand as above; about 20 percent detrital carbonate and shell fragments; interbedded with about 5 percent limestone as in 193 to 199 feet; about 25 to 30 percent quartz, coarse to fine grained, moderately sorted (fine), subrounded to rounded; about 5 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), rounded to well rounded; well cemented.	3	203 - 206
Sand as above; about 25 to 30 percent detrital carbonate and shell fragments; interbedded with about 10 percent limestone, sandy, intraclastic, sparse biomicrite; about 15 to 20 percent quartz, coarse to very fine grained, moderately sorted (fine), subrounded to rounded; about 5 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), rounded to well rounded; moderately cemented.	3	206 - 209
Limestone as above; about 30 percent quartz; about 5 percent phosphorite, medium to fine grained, well sorted (fine), rounded to well rounded; interbedded with about 20 to 30 percent sand as above.	4	209 - 213
Sand as above; shark tooth at 223 to 226 feet; interbedded with about 5 to 40 percent limestone as above; about 35 percent quartz.	16	213 - 229
Sand, light-olive-gray (5 Y 6/1); quartzose, very coarse to fine grained, moderately sorted (medium), subrounded to rounded; about 5 to 10 percent phosphorite and heavy minerals, pebbles to very fine grained, poorly sorted, subrounded to rounded; about 20 to 25 percent shell fragments, mollusks and echinoids, and detrital carbonate, very coarse to fine grained, moderately sorted (medium), subrounded to rounded.	4	229 - 233

Lithologic Log of Well G-2323--Continued

Lat 26°19'38", long 80°12'15"  
Sec. 36, T. 47 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand as above; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, poorly sorted, subrounded to well rounded.	10	233 - 243
Limestone, pale-olive (10 Y 6/2); sandy, intraclastic, sparse biomicrite; about 25 percent quartz, coarse to very fine grained, moderately sorted (fine), subrounded to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), rounded to well rounded; loosely to moderately cemented.	10	243 - 253
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to fine grained, moderately sorted (medium), subrounded to rounded; about 5 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subangular to well rounded; about 25 percent shell fragments, mollusks, and detrital carbonate, coarse to fine grained, moderately sorted (medium), subrounded to well rounded.	3	253 - 256
Limestone as in 243 to 253 feet; about 25 percent quartz, fine to very fine grained, well sorted (fine), angular to subrounded.	7	256 - 263
Sand, light-olive-gray (5 Y 5/2); quartzose, coarse grained to silt, poorly sorted to moderately sorted (fine) at 273 to 276 feet, angular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), subrounded to well rounded; about 20 to 30 percent micrite (limemud); cemented in places.	13	263 - 276
Siltstone, dusky-yellow-green (5 GY 5/2); about 15 to 20 percent micrite; about 25 percent quartz, fine to very fine grained, well sorted (very fine), subangular to subrounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; about 5 to 20 percent shell fragments; loosely cemented.	10	276 - 286
Sand, light-olive-gray (5 Y 5/2); quartzose, coarse to very fine grained, well sorted (fine), subangular to subrounded; about 5 percent phosphorite and heavy minerals, coarse to very fine grained, well sorted (very fine), rounded to well rounded; about 10 percent shell fragments and detrital carbonate, coarse to fine grained, moderately sorted (fine), subrounded to rounded; about 5 percent silty micrite, not cemented; about 5 percent RF, sandstone, medium-light-gray (N 6).	3	286 - 289
Silt, moderate-olive-brown (5 Y 4/4) to dusky-yellow-green (5 GY 5/2); about 25 percent micrite, not cemented; about 15 to 25 percent quartz, very fine grained, angular to subrounded; about 5 to 10 percent phosphorite and heavy dark minerals, very fine grained, rounded to well rounded; about 25 to 30 percent shells and shell fragments.	10	289 - 299

Lithologic Log of Well G-2325

Lat 26°19'38", long 80°07'52"  
Sec. 35, T. 47 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, grayish-brown (5 YR 3/2), pale-yellowish-brown (10 YR 6/2), dark-yellowish-brown (10 YR 4/2), very pale orange (10 YR 8/2), and grayish-orange (10 YR 7/4); quartzose, coarse to very fine grained, moderately sorted (fine), sub-angular to rounded, grains are coated with soil; about 1 to 3 percent heavy minerals, very fine grained, subangular to well rounded; about 15 to 20 percent organic material; interbedded with about 5 to 10 percent limestone, very pale orange (10 YR 8/2); micrite; about 10 percent quartz, medium to very fine grained, well sorted (fine), subangular to rounded; well cemented.	56	0 - 56
Sand as above, yellowish-gray (5 Y 7/2); about 3 to 5 percent phosphorite and heavy minerals; interbedded with about 50 percent silt at 56 to 63 feet decreasing to about 10 to 15 percent at 63 to 66 feet; calcareous.	10	56 - 66
Sand as above; about 5 to 10 percent phosphorite and heavy minerals, granules to very fine grained, poorly sorted, sub-rounded to well rounded; about 5 to 20 percent shell fragments; about 5 percent silt; cemented in places at 69 to 73 feet.	7	66 - 73
Sand, yellowish-gray (5 Y 7/2); quartzose, coarse to very fine grained, well sorted (very fine), angular to subrounded; about 10 percent phosphorite and heavy minerals, very fine grained, angular to rounded; about 5 to 10 percent shell fragments, mollusks; interbedded with about 30 percent sandstone, quartzose, medium to very fine grained, well sorted (very fine), angular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, angular to rounded; about 10 percent shells and shell fragments, gastropods; about 10 to 20 percent sparite matrix; well cemented.	3	73 - 76
Sandstone as above; about 10 to 30 percent sparite matrix; nodular shape; pyrite present at 86 to 89 feet; well cemented; interbedded with about 20 to 40 percent sand as above.	13	76 - 89
Sandstone as above, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); about 20 to 35 percent sparite matrix; about 20 percent shell fragments (mollusks and foraminifers) and detrital carbonate, very fine grained, subangular to rounded; well cemented.	4	89 - 93

Lithologic Log of Well G-2325--Continued

Lat 26°19'38", long 80°07'52"  
Sec. 35, T. 47 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); quartzose, coarse to very fine grained, poorly to moderately sorted (very fine), angular to rounded; about 10 percent phosphorite and heavy minerals, very coarse to very fine grained, poorly and well sorted (very fine) at 96 to 99 feet, subangular to well rounded; about 20 percent shells and shell fragments, mollusks and bryozoans; about 10 to 35 percent sparite matrix; well cemented; interbedded with about 30 to 50 percent sand, quartzose, coarse to very fine grained, poorly to moderately sorted, angular to rounded; about 10 percent phosphorite and heavy minerals, very coarse to very fine grained, poorly sorted, subangular to well rounded; about 20 percent shell fragments, mollusks.	6	93 - 99
Sandstone as above; interbedded with nodular sandstone as in 73 to 76 feet; about 10 percent shell fragments and detrital carbonate, medium to very fine grained, well sorted (very fine), subangular to rounded; interbedded with about 30 to 40 percent sand, quartzose, coarse to very fine grained, moderately sorted (fine), angular to rounded; about 10 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, rounded to well rounded; about 10 percent shell fragments and detrital carbonate, very coarse to fine grained, poorly sorted, subangular to rounded.	4	99 - 103
Sandstone as above; grading into limestone, sandy, intraclastic, packed biomicrite and to a sandy, intraclastic, unsorted biosparite, mollusks, including gastropods, bryozoans, and coral; well cemented; interbedded with about 10 to 20 percent sand as above.	3	103 - 106
Sandstone, medium-light-gray (N 6); quartzose, very coarse and very fine grained, well sorted (very fine) to moderately sorted in places, angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, coarse and very fine grained, well sorted (very fine) to moderately sorted in places, subrounded to well rounded; about 10 to 20 percent sparite matrix, grading into limestone, yellowish-gray (5 Y 8/1); sandy intramicrite about 25 to 30 percent quartz, very fine grained, angular to rounded; about 3 to 10 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented.	3	106 - 109
Limestone light-olive-gray (5 Y 6/1); sandy, sparse intrasparite, mollusks; about 25 to 30 percent quartz, coarse to very fine grained, moderately sorted (very fine), angular to rounded; about 10 to 15 percent phosphorite and heavy minerals, very coarse to very fine grained, moderately sorted (very fine), subrounded to well rounded; well cemented; interbedded with about 20 to 25 percent sandstone, medium-gray (N 5); quartzose, very fine grained, angular; about 20 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented; interbedded with about 30 to 35 percent sand as in 99 to 103 feet.	4	109 - 113

Lithologic Log of Well G-2325--Continued

Lat 26°19'38", long 80°07'52"  
Sec. 35, T. 47 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone, medium-light-gray (N 6); quartzose, coarse to very fine grained, poorly to moderately sorted (very fine), angular to rounded; about 10 percent phosphorite and heavy minerals, very coarse to very fine grained, poorly sorted, subrounded to well rounded; about 20 percent shell fragments and detrital carbonate, very coarse to very fine grained, moderately sorted (medium), subrounded; about 10 to 15 percent sparite matrix; well cemented; interbedded with about 30 to 40 percent sand as above.	3	113 - 116
Sandstone as above; grading into a well-sorted sandstone, quartzose, very fine grained, angular; about 10 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 15 to 20 percent sparite matrix; interbedded with limestone as in 109 to 113 feet and with about 40 to 45 percent sand, quartz, coarse to very fine grained, well sorted (fine), angular to rounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; about 10 percent detrital carbonate, very fine grained, rounded.	3	116 - 119
Sand as above.	1	119 - 120
Sandstone, light-olive-gray (5 Y 6/1); quartzose, coarse to very fine grained, moderately to well sorted (very fine), angular to rounded; about 10 percent phosphorite and heavy minerals, coarse and very fine grained, moderately to well sorted (very fine), subrounded to well rounded; about 20 percent shell fragments and detrital carbonate, very fine grained, subangular to subrounded; about 10 to 30 percent sparite matrix; about 3 percent intraclasts, sandstone; well cemented.	6	120 - 126
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to very fine grained, poorly sorted, angular to rounded; about 15 percent phosphorite and heavy minerals, coarse to very fine grained, well sorted (very fine), subrounded to rounded; about 10 to 15 percent shell fragments and detrital carbonate, coarse to fine grained, poorly sorted, subrounded.	3	126 - 129
Sandstone, medium-light-gray (N 6) to medium-gray (N 5); quartzose, very fine grained, angular to subangular; about 15 to 20 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; about 5 to 15 percent shell fragments and detrital carbonate, very fine grained, subrounded to rounded; about 10 percent sparite cement; nodular in shape at 133 to 139 feet; well cemented; interbedded with 10 to 30 percent sand, quartzose, coarse to very fine grained, well sorted (very fine), angular to rounded; about 10 to 15 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded.	10	129 - 139

Lithologic Log of Well G-2325--Continued

Lat 26°19'38", long 80°07'52"  
Sec. 35, T. 47 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand as above; about 15 to 20 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), rounded to well rounded; about 5 to 10 percent shell fragments and detrital carbonate; interbedded with about 20 to 30 percent sandstone nodules, as above, at 144.5 feet.	7	139 - 146
Sand as above; about 10 to 15 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (very fine), subrounded to well rounded; interbedded with about 30 to 40 percent sandstone as above, grading into a sandy, sparse biosparite, foraminifers; about 40 to 45 percent quartz, very fine grained, angular to subangular; well cemented.	3	146 - 149
Sand, light-gray (N 7) to medium-light-gray (N 6); quartzose, coarse to very fine grained, moderately sorted (medium), angular to rounded; about 10 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subrounded to well rounded; about 15 percent shell fragments; interbedded with about 15 to 20 percent limestone, sandy, sparse intrasparite, mollusks; about 35 to 40 percent quartz, coarse to very fine grained, moderately sorted (very fine), angular to rounded; about 5 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (very fine), subrounded to well rounded; intraparticle; well cemented.	4	149 - 153
Limestone as above; interbedded with about 40 percent sand as above; about 20 to 25 percent shell fragments and detrital carbonate, medium to fine grained, well sorted (medium), subrounded.	6	153 - 159
Sand as in 149 to 153 feet; about 15 percent shell fragments and detrital carbonate, coarse to fine grained, moderately sorted (fine), subrounded to rounded; interbedded with about 30 to 40 percent sandstone as in 129 to 139 feet.	4	159 - 163
Sandstone as in 129 to 139 feet; well cemented; interbedded with about 20 percent sand at 166 to 169 feet; quartzose, very fine grained, angular to subangular; about 15 to 20 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 5 percent detrital carbonate, very fine grained, subangular to subrounded.	6	163 - 169
Sand as above; interbedded with about 50 percent sandstone as above; about 10 to 20 percent sparite matrix.	4	169 - 173
Sandstone as in 146 to 149 feet; interbedded with about 40 percent sand as above; about 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (medium), rounded; about 5 percent detrital carbonate, fine grained, subrounded.	3	173 - 176

Lithologic Log of Well G-2325--Continued

Lat 26°19'38", long 80°07'52"  
Sec. 35, T. 47 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone, light-olive-gray (5 Y 6/1); quartzose, medium to very fine grained, well sorted (fine), angular to subrounded; about 10 to 20 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine and medium at 179 to 183 feet), subangular to well rounded; about 25 to 30 percent detrital carbonate, medium to fine grained, well sorted (medium), subrounded to rounded; about 1 to 20 percent sparite matrix; well cemented; interbedded with about 40 percent sand, quartzose, medium to very fine grained, well sorted (fine), angular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, medium to very fine grained, moderately to well sorted (fine), subangular to well rounded; about 20 percent detrital carbonate, medium to fine grained, well sorted (medium), subrounded to rounded.	7	176 - 183
Sandstone as above; grading into a sandy intrasparite; about 30 percent quartz, coarse to very fine grained, moderately sorted (medium), angular to rounded; about 5 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (medium), rounded to well rounded; well cemented; interbedded with about 20 percent sand, quartzose, coarse to fine grained, moderately sorted (medium), angular to rounded; about 10 to 15 percent phosphorite and heavy minerals, coarse to fine grained, moderately sorted (medium), subrounded to well rounded; about 15 percent detrital carbonate, coarse to fine grained, moderately sorted (medium), subrounded.	3	183 - 186
Limestone, yellowish-gray (5 Y 8/1) to light-olive-gray (5 Y 6/1); sandy, sparse intrasparite, mollusks; about 25 to 30 percent quartz, very coarse to fine grained, moderately sorted (coarse), subangular to rounded; about 5 percent phosphorite and heavy minerals, very coarse to very fine grained, poorly sorted, subrounded to well rounded; grading into a sandstone as above; well cemented.	3	186 - 189
Sandstone as in 176 to 183 feet; about 10 percent detrital carbonate and shell fragments; interbedded with about 30 percent sand, quartzose, very coarse to fine grained, moderately sorted (fine), angular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (very fine), subrounded to well rounded; about 15 percent shell fragments and detrital carbonate, very coarse to very fine grained, poorly sorted, subrounded to well rounded.	4	189 - 193
Sandstone as above; grading into a sandy, sparse intrasparite, mollusks; about 35 to 40 percent quartz, very coarse to very fine grained, moderately sorted (very fine), angular to rounded; about 5 percent phosphorite and heavy minerals, very coarse to very fine grained, moderately sorted (very fine), rounded to well rounded; well cemented; interbedded with about 30 percent sand as above.	3	193 - 196

Lithologic Log of Well G-2325--Continued

Lat 26°19'38", long 80°07'52"  
 Sec. 35, T. 47 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone as above; neomorphic calcite present in tests; grading into a limestone as above; interbedded with about 40 to 50 percent sand as in 189 to 193 feet.	3	196 - 199
Sandstone, light-olive-gray (5 Y 6/1); quartzose, coarse to very fine grained, moderately to well sorted (very fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), subrounded to well rounded; about 10 percent shell fragments, echinoid fragments and mollusks, and detrital carbonate, fine grained, subrounded; about 10 to 30 percent sparite matrix; well cemented; about 10 to 20 percent sand, quartzose, coarse to very fine grained, moderately to well sorted (very fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), subrounded to well rounded; about 10 percent shell fragments and detrital carbonate, fine grained, subrounded.	4	199 - 203
Sandstone, yellowish-gray (5 Y 7/2); quartzose, very fine grained, angular; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to rounded; about 15 percent detrital carbonate, fine grained, subangular to rounded; about 30 percent micritic matrix; moderately to well cemented; interbedded with about 40 percent sandstone as above.	3	203 - 206
Sandstone as above; about 10 to 45 percent micritic matrix; loosely to well cemented.	10	206 - 216
Sandstone as above; about 45 percent micritic matrix; interbedded with about 30 to 40 percent sand, quartzose, coarse to fine grained, well sorted (fine), angular to rounded; about 10 to 15 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), rounded to well rounded; about 1 to 3 percent shell fragments.	3	216 - 219
Sandstone as above; grading into a limestone, sandy, sparse intrasparite, mollusks; about 35 to 45 percent quartz, coarse to fine grained, moderately sorted (fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine grained, rounded to well rounded; well cemented; interbedded with about 30 percent sand, coarse to very fine grained, moderately sorted (fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine grained, rounded to well rounded; well cemented; interbedded with about 30 percent sand, coarse to very fine grained, moderately sorted (fine), angular to rounded; about 10 to 15 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), angular to well rounded; about 10 percent detrital carbonate, fine grained, angular to subrounded.	4	219 - 223

Lithologic Log of Well G-2325--Continued

Lat 26°19'38", long 80°07'52"  
Sec. 35, T. 47 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-olive-gray (5 Y 6/1); quartzose, medium to very fine grained, well sorted (very fine), angular to subrounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to well rounded; about 10 percent detrital carbonate, fine grained, subrounded to rounded; about 10 to 15 percent micrite, not cemented; interbedded with about 10 to 20 percent sandstone as above.	4	223 - 227
Sandstone, light-olive-gray (5 Y 6/1); quartzose, coarse to very fine grained, moderately sorted (very fine), angular to subrounded; about 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to well rounded; about 15 to 20 percent detrital carbonate, medium to very fine grained, well sorted (fine), subangular to subrounded; about 10 to 30 percent silty micrite matrix; grading into a silty micrite in places; well cemented; interbedded with about 30 percent sand, quartzose, coarse to very fine grained, moderately sorted (very fine), angular to subrounded; about 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to well rounded; about 15 to 20 percent detrital carbonate, medium to very fine grained, well sorted (fine), subangular to subrounded; about 20 to 25 percent silty micrite, not cemented.	16	227 - 243
Sandstone as above; interbedded with about 45 to 50 percent sand, quartzose, medium to very fine grained, well sorted (very fine), angular to rounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), rounded to well rounded; about 15 percent detrital carbonate, very fine grained, rounded.	3	243 - 246
Sandstone, yellowish-gray (5 Y 5/2); quartzose, fine to very fine grained, well sorted (very fine), angular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; about 25 to 35 percent detrital carbonate, fine grained, subangular to subrounded; about 5 to 10 percent sparite matrix; interbedded with about 30 to 40 percent sand, quartzose, fine to very fine grained, well sorted (very fine), angular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; about 5 to 10 percent detrital carbonate, fine grained, subangular to subrounded; about 20 to 35 percent micrite, not cemented.	7	246 - 253
Sandstone as above; grading into a limestone in places, sandy intrasparite; about 35 to 40 percent quartz; about 10 percent phosphorite and heavy minerals; well cemented; interbedded with about 20 to 30 percent sand as above; about 15 to 20 percent phosphorite and heavy minerals; about 20 to 25 percent detrital carbonate and about 5 to 10 percent micrite, not cemented.	6	253 - 259

Lithologic Log of Well G-2325--Continued

Lat 26°19'38", long 80°07'52"  
Sec. 35, T. 47 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); sandy, sparse intrasparite, mollusks; about 30 to 35 percent quartz, coarse to fine grained, moderately sorted (fine), subangular to rounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; well cemented; interbedded with about 20 percent sandy, sparse intramicrite, yellowish-gray (5 Y 8/1); mollusks; about 15 to 20 percent quartz, fine to very fine grained, well sorted (very fine), angular to subrounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to well rounded; well cemented.	4	259 - 263
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse intramicrite, mollusks; about 35 percent quartz, medium to very fine grained, moderately sorted (very fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), subangular to rounded; moderately to well cemented.	3	263 - 266
Limestone, light-olive-gray (5 Y 6/1); sandy, fossiliferous intramicrite, mollusks, and shark teeth; about 40 percent quartz, coarse to very fine grained, moderately sorted (fine), angular to subrounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; moderately cemented.	3	266 - 269
Limestone, light-olive-gray (5 Y 6/1); sandy, fossiliferous intradismicrite; about 35 to 40 percent quartz, medium to very fine grained, well sorted (very fine), angular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; well cemented.	4	269 - 273
Limestone, light-olive-gray (5 Y 6/1); sandy, sparse intrasparite, mollusks; about 35 to 40 percent quartz, medium to very fine grained, well sorted (very fine), angular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; well cemented.	8	273 - 281

Lithologic Log of Well G-2325--Continued

Lat 26°19'38", long 80°07'52"  
Sec. 35, T. 47 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, grayish-yellow-green (5 GY 7/2); sandy, fossiliferous intrasparite; about 40 percent quartz, fine to very fine grained, well sorted (very fine), angular to subrounded; about 10 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented; interbedded with about 20 percent sand, light-olive-gray (5 Y 6/1); quartzose, fine to very fine grained, well sorted (very fine), angular to subrounded; about 15 to 20 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; about 20 percent detrital carbonate, medium to very fine grained, well sorted (very fine), angular to subrounded.	5	281 - 286
Sand as above; interbedded with about 30 percent limestone as above.	3	286 - 289
Limestone as in 281 to 286 feet; about 30 percent quartz; well cemented.	4	289 - 293
Limestone as above, with a silty micritic matrix in places; interbedded with about 30 percent sand, light-olive-gray (5 Y 6/1) to light-olive-brown (5 Y 5/6); quartzose, coarse to fine grained, moderately sorted (fine), angular to rounded; about 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subrounded to well rounded; about 30 percent shell fragments, echinoid spines, and detrital carbonate, coarse to very fine grained, poorly sorted, subangular to subrounded.	3	293 - 296
Limestone, dusky-yellow (5 Y 6/4); sandy, fossiliferous intramicrite, mollusks; about 20 to 25 percent quartz, coarse to very fine grained, well sorted (very fine), angular to subrounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to well rounded; moderately cemented; interbedded with about 20 to 30 percent sand as above.	3	296 - 299

Lithologic Log of Well G-2325--Continued

Lat 26°19'38", long 80°07'52"  
Sec. 35, T. 47 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, dusky-yellow (5 Y 6/4); sandy, sparse intramicrite, mollusks; about 20 to 25 percent quartz, coarse to very fine grained, well sorted (very fine), angular to subrounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to well rounded; moderately cemented; interbedded with about 30 percent sand, quartzose, coarse to very fine grained, moderately to well sorted (very fine), angular to rounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to well rounded; about 30 to 35 percent detrital carbonate, coarse to very fine grained, moderately sorted (fine), subrounded.	4	299 - 303
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse intramicrite, pelecypods; grading into a sandstone in places; about 40 percent quartz, very coarse to very fine grained, poorly sorted, angular to rounded; about 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subangular to well rounded; moderately to well cemented.	3	303 - 306
Limestone, as in 299 to 303 feet; moderately to well cemented.	3	306 - 309
Limestone, as in 303 to 306 feet.	4	309 - 313
Limestone as above; about 30 percent quartz, moderately sorted (fine), mollusks and serpulids; moderately cemented.	3	313 - 316
Limestone, yellowish-gray (5 Y 7/2); sparse intramicrite, bryozoans and mollusks; about 10 to 20 percent quartz, medium to very fine grained, well sorted (fine), angular to subrounded; about 5 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), angular to well rounded; moderately cemented.	8	316 - 324

Lithologic Log of Well G-2327

Lat 25°58'29", long 80°14'48"  
Sec. 27, T. 51 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, pale-yellowish-brown (10 YR 6/2) and grayish-orange (10 YR 7/4); quartzose, coarse to fine grained, well sorted (fine), angular to subrounded; about 5 to 10 percent organic matter and about 0 to 5 percent micrite, not cemented, at 9 to 19 feet.	19	0 - 19
Sand, very pale orange (10 YR 8/2) to white (N 9); quartzose, coarse to fine grained, well sorted (medium), angular to subrounded; about 1 to 5 percent heavy minerals, fine to very fine grained, well sorted (very fine), angular to rounded.	24	19 - 43
Sand, yellowish-gray (5 Y 8/1); quartzose, fine to very fine grained, well sorted (fine), subangular to subrounded; about 3 percent heavy minerals, very fine grained, subangular.	5	43 - 48
Sand, very pale orange (10 YR 8/2); quartzose, coarse to very fine grained, moderately sorted (medium), subangular to rounded; about 5 percent heavy minerals, medium to very fine grained, well sorted (fine), subangular to subrounded.	1	48 - 49
Limestone, yellowish-gray (5 Y 7/2); sandy intradismicrite, about 35 to 40 percent quartz, coarse to fine grained, moderately sorted (medium), angular to subrounded; about 5 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), subrounded to well rounded; well cemented; interbedded with about 15 percent biolithite, <u>Monastrea</u> sp.; neomorphic calcite present; well cemented.	4	49 - 53
Sandstone, yellowish-gray (5 Y 7/2); quartzose, coarse to fine grained, moderately sorted (medium), subangular to rounded; about 15 percent sparite matrix; about 10 to 15 percent detrital carbonate, coarse, subrounded; about 5 to 10 percent phosphorite and heavy minerals, very coarse to fine grained, well sorted (fine), subrounded to rounded; loosely to well cemented.	3	53 - 56
Limestone, very pale orange (10 YR 8/2) and grayish-orange (10 YR 7/4); sandy intraclastic, poorly-washed biosparite, mollusks; about 25 to 30 percent quartz, coarse to fine grained, moderately sorted (fine), subangular to subrounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subangular to well rounded; well cemented.	3	56 - 59
Sand, yellowish-gray (5 Y 8/1); quartzose, medium to very fine grained, well sorted (fine), angular to subangular; about 10 to 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded; about 5 to 20 percent shell fragments; interbedded with about 15 to 30 percent sandstone, quartzose, fine grained, angular to subangular; about 5 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; about 20 to 25 percent sparite matrix; well cemented.	17.5	59 - 76.5

Lithologic Log of Well G-2327--Continued

Lat 25°58'29", long 80°14'48"  
Sec. 27, T. 51 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, dusky-yellow (5 Y 6/4) and yellowish-gray (5 Y 7/2); sandy, fossiliferous, intraclastic dismicrite, foraminifers; about 20 to 25 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, angular to rounded; well cemented.	2.5	76.5 - 79
Limestone, dusky-yellow (5 Y 6/4); sandy, intraclastic, unsorted biosparite, mollusks and foraminifers; about 20 to 25 percent quartz, very fine grained, angular to subangular; about 10 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; well cemented.	4	79 - 83
Limestone, dusky-yellow (5 Y 6/4); sandy intrasparite; about 30 to 40 percent quartz, fine grained, angular to subangular; about 10 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; well cemented; interbedded with about 30 percent sand as in 59 to 76.5 feet.	6	83 - 89
Sandstone, yellowish-gray (5 Y 8/1); quartzose, fine grained, angular to subangular; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded; about 20 to 25 percent sparite matrix; nodular; well cemented; interbedded with about 30 to 40 percent sand as above.	7	89 - 96
Limestone, yellowish-gray (5 Y 7/2) and dusky-yellow (5 Y 6/4); sandy intrasparite grading to a sandy, unsorted intrasparite, mollusks; about 30 percent quartz, medium to fine grained, well sorted (fine), angular to subrounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to well rounded; well cemented; interbedded with about 40 percent sand as above.	3	96 - 99
Limestone, yellowish-gray (5 Y 7/2) and dusky-yellow (5 Y 6/4); sandy, intraclastic, packed biomicrite, mollusks, including <u>Chione</u> sp. and benthic foraminifers; cavity-filling calcite is present; about 20 percent quartz, coarse to fine grained, moderately sorted (fine), subangular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, angular to rounded; well cemented.	4	99 - 103
Limestone, yellowish-gray (5 Y 7/2) and dusky-yellow (5 Y 6/4); sandy, sparse intradismicrite, mollusks; about 25 percent quartz, fine to very fine grained, well sorted (fine), angular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, angular to rounded; well cemented.	10	103 - 113

Lithologic Log of Well G-2327--Continued

Lat 25°58'29", long 80°14'48"  
Sec. 27, T. 51 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, very pale orange (10 YR 8/2); sandy, sparse biomicrite, mollusks, including gastropods; about 15 percent quartz, medium to very fine grained, moderately sorted (fine), angular to rounded; about 5 percent phosphorite and heavy minerals, medium to very fine grained, poorly sorted, subangular to rounded; well cemented.	3	113 - 116
Limestone, very pale orange (10 YR 8/2); sandy, packed biomicrite, mollusks, including <u>Turritella</u> sp. and pellets; about 15 percent quartz, medium to very fine grained, moderately sorted (fine), angular to rounded; about 5 percent phosphorite and heavy minerals, medium to very fine grained, poorly sorted, subangular to rounded.	3	116 - 119
Limestone, as in 113 to 116 feet.	4	119 - 123
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse biomicrite, mollusks; about 25 to 30 percent quartz, very fine grained, angular to subangular; about 10 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; moderately to well cemented.	3	123 - 126
Limestone, light-olive-gray (5 Y 6/1); sandy, fossiliferous micrite, mollusks, including <u>Ostrea</u> sp. and <u>Pecten</u> sp.; about 25 percent quartz, coarse to very fine grained, well sorted (fine), angular to subrounded; about 15 to 20 percent phosphorite and heavy minerals, coarse to very fine grained, well sorted (fine), subangular to well rounded; loosely to well cemented.	10	126 - 136
Limestone, light-olive-gray (5 Y 6/1); sandy, intraclastic, fossiliferous micrite; about 25 percent quartz, coarse to very fine grained, poorly sorted, angular to rounded; about 15 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), subangular to well rounded; moderately to well cemented.	3	136 - 139
Limestone, yellowish-gray (5 Y 7/2); sandy, fossiliferous intradismicrite; about 25 percent quartz, very coarse to very fine grained, moderately sorted (fine), subangular to rounded; about 10 percent phosphorite and heavy minerals, very coarse and fine to very fine grained, well sorted (fine), subrounded to well rounded; moderately to well cemented.	7	139 - 146
Sand, yellowish-gray (5 Y 7/2); quartzose, very coarse to very fine grained, poorly sorted subangular to subrounded; about 15 percent phosphorite and heavy minerals, very coarse to very fine grained, poorly sorted, angular to well rounded; interbedded with about 20 to 30 percent limestone, sandy, fossiliferous intramicrite; about 35 percent quartz, very coarse to very fine grained, poorly sorted, subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, very coarse to very fine grained, poorly sorted, angular to well rounded; moderately to well cemented.	3	146 - 149

Lithologic Log of Well G-2327--Continued

Lat 25°58'29", long 80°14'48"  
Sec. 27, T. 51 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone, light-olive-gray (5 Y 6/1); quartzose, medium to fine grained, well sorted (medium), subangular to rounded; about 5 percent phosphorite and heavy minerals, fine grained, subrounded to well rounded; about 30 percent shell fragments and detrital carbonate, fine grained, subangular; about 15 percent sparite matrix; is in contact with a well sorted biosparite, foraminifers; well cemented; interbedded with sand, as above, at 149 to 150 feet.	4	149 - 153
Sand, yellowish-gray (5 Y 7/2); quartzose, medium to very fine grained, moderately sorted (very fine) to well sorted (fine) at 156 to 159 feet, subangular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), angular to well rounded; about 15 percent shell fragments, and detrital carbonate, fine grained, subrounded to rounded.	6	153 - 159
Limestone, grayish-yellow-green (5 GY 7/2); sandy intramicrite; about 30 to 35 percent quartz, coarse to very fine grained, moderately sorted (fine), angular to rounded; about 15 percent phosphorite and heavy minerals, very fine grained, angular to rounded; moderately to well cemented.	1	159 - 160
Sand, yellowish-gray (5 Y 7/2); quartzose, coarse to very fine grained, poorly sorted, subangular to subrounded; about 10 percent phosphorite and heavy minerals, fine grained, subrounded to well rounded; about 10 to 15 percent shell fragments and detrital carbonate, coarse to medium grained, subrounded.	3	160 - 163
Limestone, as in 159 to 160 feet; about 20 to 25 percent quartz, coarse to very fine grained, poorly sorted, subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; interbedded with about 40 percent sand as above; about 20 percent shell fragments (phosphatized) and detrital carbonate, coarse to medium grained, subrounded.	3	163 - 166
Limestone as above; interbedded with limestone, as above, at 168 to 169 feet.	3	166 - 169
Sand, light-olive-gray (5 Y 6/1); quartzose, very coarse to fine grained, poorly sorted, angular to rounded; about 5 percent phosphorite and heavy minerals, very coarse to very fine grained, well sorted (very fine), subangular to subrounded; about 30 percent shell fragments, bryozoans, echinoid spines, and sponge spicules; interbedded with about 40 percent limestone, sandy, fossiliferous intramicrite; about 20 percent quartz, medium to fine grained, well sorted (medium), subangular to subrounded; about 5 percent phosphorite and heavy minerals, coarse to very fine grained, well sorted (very fine), subangular to well rounded; well cemented.	4	169 - 173

Lithologic Log of Well G-2327--Continued

Lat 25°58'29", long 80°14'48"  
Sec. 27, T. 51 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone as above; interbedded with about 30 percent sand as above.	3	173 - 176
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to very fine grained, poorly sorted, subangular to rounded; about 5 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; about 40 percent shell fragments and detrital carbonate, very coarse to medium grained, well sorted (coarse); interbedded with about 25 percent limestone as above.	3	176 - 179
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to fine grained, poorly sorted, subangular to rounded; about 5 percent phosphorite and heavy minerals, granules and fine to very fine grained, well sorted (very fine), subangular to well rounded; about 25 to 40 percent shell fragments and detrital carbonate, very coarse to fine grained, poorly sorted, subangular to subrounded; interbedded with about 25 percent limestone as above at 186 to 189 feet.	10	179 - 189
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to fine grained, well sorted (medium), subangular to subrounded; about 5 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subrounded to rounded; about 30 percent shell fragments and detrital carbonate, very coarse to fine grained, poorly sorted, subangular to subrounded; interbedded with about 3 percent limestone as above.	4	189 - 193
Sand as above; quartz grains are well sorted towards the fine grained; about 40 percent shell fragments and detrital carbonate.	3	193 - 196
Sand as in 189 to 193 feet; about 25 to 40 percent shell fragments and detrital carbonate.	10	196 - 206
Sand as above; about 20 to 25 percent shell fragments and detrital carbonate; about 3 to 10 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subrounded to well rounded.	13	206 - 219
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to fine grained, moderately sorted (fine), subangular to subrounded; about 5 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subangular to well rounded; about 25 percent shell fragments and detrital carbonate, very coarse to fine grained, poorly sorted, subangular to subrounded; about 5 percent silty micrite, not cemented.	7	219 - 226

Lithologic Log of Well G-2327--Continued

Lat 25°58'29", long 80°14'48"  
Sec. 27, T. 51 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-olive-gray (5 Y 6/1); quartzose, medium to fine grained, well sorted (fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine grained, angular to well rounded; about 35 percent detrital carbonate, medium grained, subangular; about 5 percent shell fragments; about 5 percent micrite, not cemented.	7	226 - 233
Sand, light-olive-gray (5 Y 6/1); quartzose, medium to very fine grained, moderately sorted (fine), angular to rounded; about 10 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 15 to 30 percent shell fragments and detrital carbonate, coarse to very fine grained, poorly sorted, subangular; about 10 to 25 percent micrite, not cemented.	10	233 - 243
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to very fine grained, poorly sorted, angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded; about 20 percent shell fragments and detrital carbonate, coarse to fine grained, poorly sorted, subangular; about 15 to 20 percent micrite, not cemented.	3	243 - 246
Sand as in 233 to 243 feet.	7	246 - 253
Sand as in 226 to 233 feet.	3	253 - 256
Sand, light-olive-gray (5 Y 6/1); quartzose, fine to very fine grained, well sorted (fine), angular to subrounded; about 15 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 15 to 20 percent detrital carbonate, fine grained, subangular; about 25 percent silty micrite, not cemented.	3	256 - 259
Sand, light-olive-gray (5 Y 5/2); quartzose, very fine grained to silt, moderately sorted (very fine), angular to subangular; about 10 to 15 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; about 10 to 25 percent shell fragments, mollusks, including <u>Pecten</u> sp. and echinoid spines; about 25 percent micrite, not cemented.	13	259 - 272
Silt, light-olive-gray (5 Y 5/2); about 30 percent quartz, very fine grained, angular to subangular; about 10 percent phosphorite and heavy minerals, subangular to rounded; about 10 percent detrital carbonate, very fine grained, subangular; about 30 percent micrite, not cemented.	7	272 - 279

Lithologic Log of Well G-2328

Lat 25°59'18", long 80°09'18"  
Sec. 28, T. 51 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Soil and fill.	3	0 - 3
Sand, very pale orange (10 YR 8/2) to pale-yellowish-brown (10 YR 6/2); quartzose, coarse to fine grained, well sorted (medium), subangular to subrounded; about 3 to 5 percent micrite, not cemented; about 1 to 3 percent organic material; about 1 percent heavy minerals, very fine grained, subangular.	6	3 - 9
Limestone, very pale orange (10 YR 8/2); sandy micrite; about 25 percent quartz, medium to fine grained, well sorted (fine), subangular to subrounded; well cemented.	4	9 - 13
Limestone as above; about 20 percent quartz, fine grained, angular to subangular; about 3 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded.	6	13 - 19
Limestone, very pale orange (10 YR 8/2); sandy intramicrite; about 20 to 25 percent quartz and about 1 to 3 percent heavy minerals as above; well cemented.	4	19 - 23
Limestone, very pale orange (10 YR 8/2); sandy, fossiliferous intramicrite; about 25 to 30 percent quartz as above; well cemented.	3	23 - 26
Sand, very pale orange (10 YR 8/2); quartzose, very fine grained, angular to subangular; about 25 percent detrital carbonate, very fine grained, subangular to well rounded; about 1 percent heavy minerals, very fine grained, subrounded to well rounded; interbedded with about 30 percent limestone as above.	3	26 - 29
Limestone, dusky-yellowish-orange (5 Y 6/4), grayish-orange (10 YR 7/4), and dark-yellowish-orange (10 YR 6/6), mottled; sandy sparite; about 30 percent quartz, medium to very fine grained, well sorted (fine), angular to subangular; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented.	4	29 - 33
Limestone, yellowish-gray (5 Y 7/2); sandy intrasparite; about 30 percent quartz, medium to fine grained, well sorted (medium), subangular to subrounded; about 5 percent phosphorite and heavy minerals, coarse to fine grained, poorly sorted, rounded to well rounded; parallel orientation of intraclastics is evident; moderately to well cemented.	3	33 - 36
Sandstone, light-olive-gray (5 Y 6/1); quartzose, medium to very fine grained, moderately sorted (medium), angular to subrounded; about 15 percent detrital carbonate; about 5 percent phosphorite and heavy minerals, poorly sorted, subangular to well rounded; about 15 percent sparite matrix; well cemented.	3	36 - 39

Lithologic Log of Well G-2328--Continued

Lat 25°59'18", long 80°09'18"  
Sec. 28, T. 51 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone as above; yellowish-gray (5 Y 7/2); about 30 percent detrital carbonate and shell fragments; about 5 percent phosphorite and heavy minerals, medium to fine grained, moderately sorted (fine), subangular to well rounded; interbedded with about 10 percent limestone as in 33 to 36 feet.	4	39 - 43
Sandstone as above; interbedded with about 20 percent limestone, sandy, fossiliferous intradismicrite, coral; about 10 percent quartz, very fine grained, angular to subangular; contact is sharp with the sandstone; well cemented.	3	43 - 46
Limestone, very pale orange (10 YR 8/2) and grayish-orange (10 YR 7/4); packed intradismicrite, coral, mollusks, and halimeda; well cemented.	3	46 - 49
Limestone, yellowish-gray (5 Y 8/1); biolithite, monastrea; with about 30 percent limestone as above; well cemented.	4	49 - 53
Limestone as above; abundant in neomorphic calcite; well weathered.	3	53 - 56
Limestone as above with about 30 percent limestone as in 46 to 49 feet; abundant in sponges.	7	56 - 63
Limestone, very pale orange (10 YR 8/2) and grayish-orange (10 YR 7/4), mottled; packed intradismicrite, coral, sponges, and gastropods; well cemented.	4	63 - 66
Limestone, very pale orange (10 YR 8/2) and grayish-orange (10 YR 7/4); packed biomicrite, coral; well cemented.	3	66 - 69
Limestone, very pale orange (10 YR 8/2) and grayish-orange (10 YR 7/4); fossiliferous intradismicrite, coral, and echinoid spines; well cemented.	4	69 - 73
Limestone as above, abundant in coral; cavity-filling calcite is present; well cemented.	3	73 - 76
Limestone as above; well cemented; is a contact with about 30 percent limestone, yellowish-gray (5 Y 8/1), sandy micrite; about 25 to 30 percent quartz, medium to fine grained, well sorted (medium), subangular to subrounded; about 10 to 15 percent phosphorite (medium), subangular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), angular to well rounded; moderately to well cemented.	3	76 - 79

Lithologic Log of Well G-2328--Continued

Lat 25°59'18", long 80°09'18"  
Sec. 28, T. 51 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone, yellowish-gray (5 Y 8/1); quartzose, coarse to fine grained, well sorted (medium), subangular to subrounded; about 10 percent phosphorite and heavy minerals, medium to fine grained, well sorted (medium), subrounded to well rounded; about 5 percent micrite cement; interbedded with about 40 percent limestone, very pale-orange (10 YR 8/2) and yellowish-gray (5 Y 7/2); sandy intrasparite grading into a sandy intradismicrite; about 30 percent quartz, coarse to fine grained, moderately sorted (medium), subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very grained, moderately sorted (fine), subangular to well rounded; moderately to well cemented.	4	79 - 83
Limestone, sandy, fossiliferous intradismicrite as above.	3	83 - 86
Sand, yellowish-gray (5 Y 7/2); quartzose, medium to fine grained, well sorted (medium), angular to subrounded; about 10 percent detrital carbonate, medium grained, subangular to rounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), subrounded to well rounded; interbedded with about 30 percent sandstone, quartzose, medium to very fine grained, moderately sorted (fine), angular to rounded; about 10 to 15 percent sparite cement; about 5 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), subrounded to well rounded; about 10 percent detrital carbonate, fine grained; moderately cemented.	3	86 - 89
Limestone, yellowish-gray (5 Y 8/1); sandy intradismicrite; about 30 to 35 percent quartz, medium to fine grained, well sorted (medium), subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; moderately to well cemented.	4	89 - 93
Limestone as above; about 25 to 30 percent quartz; grading into a sandy, fossiliferous intrasparite; about 20 to 25 percent quartz, coarse to medium grained, well sorted (medium), subangular to subrounded; about 5 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subrounded to well rounded; intraclastics exhibit parallel orientation; well cemented.	3	93 - 96
Sand, yellowish-gray (5 Y 8/1); quartzose, medium to very fine grained, moderately sorted (fine), angular to subrounded; about 30 percent detrital carbonate, coarse to very fine grained, poorly sorted, subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very coarse to very fine grained, poorly sorted, subrounded to well rounded; interbedded with 40 percent limestone, sandy, fossiliferous intradismicrite as above.	3	96 - 99

Lithologic Log of Well G-2328--Continued

Lat 25°59'18", long 80°09'18"  
Sec. 28, T. 51 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone, yellowish-gray (5 Y 8/1); quartzose, medium to very fine grained, moderately sorted (fine), angular to sub-rounded; about 30 to 35 percent detrital carbonate and shell fragments, very coarse to fine grained, poorly sorted, subangular to subrounded; about 10 to 20 percent sparite matrix; about 5 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subangular to well rounded; intraclastics exhibit parallel orientation; moderately to well cemented.	4	99 - 103
Sand, yellowish-gray (5 Y 8/1); quartzose, coarse to medium grained, well sorted (medium), subangular to rounded; about 10 percent detrital carbonate, very coarse to fine grained, poorly sorted, subangular to subrounded; about 5 percent phosphorite and heavy minerals, medium to very fine grained, poorly sorted, rounded to well rounded; interbedded with about 40 percent limestone, sandy intrasparite, "rod-shape"; about 30 to 35 percent quartz, medium to fine grained, moderately sorted, subrounded to rounded; about 3 percent phosphorite and heavy minerals, medium to very fine grained, poorly sorted, rounded to well rounded; well cemented.	3	103 - 106
Limestone, very pale orange (10 YR 8/2) and grayish-orange (10 YR 7/4); sandy intrasparite; about 20 to 25 percent quartz, coarse to very fine grained, poorly sorted, angular to sub-rounded; about 3 to 5 percent phosphorite and heavy minerals, very coarse to very fine grained, poorly sorted, subangular to well rounded; well cemented.	3	106 - 109
Limestone, yellowish-gray (5 Y 8/1); sandy, intraclastic, fossiliferous micrite; about 25 percent quartz, medium to fine grained, well sorted (fine), subangular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine grained, subangular to well rounded; moderately to well cemented.	7	109 - 116
Limestone, very pale orange (10 YR 8/2) to grayish-orange (10 YR 7/4); intradismicrite; about 10 percent quartz, coarse to fine grained, poorly sorted, subangular to rounded; about 3 to 5 percent phosphorite, coarse to very fine grained, poorly sorted, subrounded to well rounded; well cemented.	3	116 - 119

Lithologic Log of Well G-2328--Continued

Lat 25°59'18", long 80°09'18"  
Sec. 28, T. 51 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone, yellowish-gray (5 Y 7/2) to dusky-yellow (5 Y 6/4); quartzose, medium to fine grained, well sorted (medium), subangular to rounded; about 20 to 25 percent detrital carbonate and shell fragments, medium grained, subrounded to rounded; about 3 to 5 percent phosphorite and heavy minerals, medium to fine grained, well sorted (medium), subrounded to well rounded; well cemented; interbedded with about 40 percent limestone, yellowish-gray (5 Y 7/2) to dusky-yellow (5 Y 6/4); sandy, sparse intrasparite, mollusks; about 30 percent quartz, medium to fine grained, well sorted (medium), subangular to rounded; about 5 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), subrounded to well rounded; well cemented.	4	119 - 123
Limestone, yellowish-gray (5 Y 7/2) to dusky-yellow (5 Y 6/4); sandy intrasparite; about 30 percent quartz and 5 percent phosphorite and heavy minerals as above; well cemented; interbedded with about 30 percent sand, quartzose, coarse to fine grained, moderately sorted (fine), angular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subrounded to rounded; about 15 percent detrital carbonate, medium to very fine grained, moderately sorted (fine), subangular to rounded.	6	123 - 129
Sandstone, yellowish-gray (5 Y 7/2) to dusky-yellow (5 Y 6/4); quartzose, medium to fine grained, well sorted (fine), subangular to rounded; about 15 to 20 percent detrital carbonate, medium to fine grained, well sorted (fine), subrounded to rounded; about 5 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), subrounded to well rounded; well cemented; interbedded with about 20 percent limestone and about 15 percent sand as above.	4	129 - 133
Sandstone, as above; interbedded with about 30 percent sand, quartzose, coarse to fine grained, well sorted (fine), angular to subrounded; about 20 percent detrital carbonate, medium to fine grained, well sorted (fine), subrounded; about 3 to 5 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), subrounded to well rounded.	3	133 - 136
Limestone as in 123 to 129 feet, grading into a sandstone as above; interbedded with about 50 percent sand at 139 to 143 feet, quartzose, coarse to fine grained, well sorted (medium), subangular to subrounded; about 20 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (medium), subrounded; about 5 percent phosphorite and heavy minerals, medium to very fine grained, poorly sorted, subrounded to well rounded.	7	136 - 143
Sandstone as in 129 to 133 feet.	3	143 - 146

Lithologic Log of Well G-2328--Continued

Lat 25°59'18", long 80°09'18"  
Sec. 28, T. 51 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone, yellowish-gray (5 Y 7/2); quartzose, medium to fine grained, well sorted (fine), angular to rounded; about 15 percent detrital carbonate, fine grained, subangular to subrounded; about 5 percent phosphorite and heavy minerals, fine grained, subrounded to rounded; well cemented; interbedded with sand, quartzose, medium to fine grained, well sorted (fine), subangular to rounded; about 10 to 15 percent detrital carbonate, medium to fine grained, well sorted (fine), subrounded to well rounded; about 5 to 10 percent phosphorite and heavy minerals, fine grained, subrounded to well rounded.	3	146 - 149
Sand, yellowish-gray (5 Y 7/2); quartzose, medium to fine grained, well sorted (medium), subangular to rounded; about 15 to 20 percent detrital carbonate, medium to fine grained, moderately sorted (medium), subrounded; about 5 to 10 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), subrounded to well rounded; interbedded with about 20 percent limestone, sandy intrasparite; about 35 percent quartz, medium to fine grained, moderately sorted (medium), subangular to subrounded; about 10 percent detrital carbonate, medium to fine grained, moderately sorted (medium), subrounded; about 5 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), subrounded to well rounded; moderately to well cemented.	4	149 - 153
Limestone, yellowish-gray (5 Y 8/1); sandy intrasparite; about 20 percent quartz, coarse to fine grained, moderately sorted (medium), subangular to rounded; about 3 to 5 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subrounded to well rounded; moderately to well cemented; interbedded with about 10 percent limestone, grayish-orange (10 YR 7/4); sandy intrasparite; about 25 percent quartz, medium grained, subrounded; about 3 percent phosphorite and heavy minerals, fine grained, subrounded to well rounded; well cemented.	6	153 - 159
Limestone, very pale orange (10 YR 8/2) to grayish-orange (10 YR 7/4); sandy, sparse intrasparite, mollusks; about 15 to 20 percent quartz, coarse to fine grained, poorly sorted, angular to subrounded; about 5 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (very fine); well cemented.	4	159 - 163
Sandstone, yellowish-gray (5 Y 7/2) to dusky-yellow (5 Y 6/4); quartzose, medium to fine grained, well sorted (fine), subangular to rounded; about 20 percent sparite matrix; about 10 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 25 percent detrital carbonate, granules to fine grained, well sorted (fine), subrounded to rounded; well cemented; grading into a limestone in places.	3	163 - 166

Lithologic Log of Well G-2328--Continued

Lat 25°59'18", long 80°09'18"  
Sec. 28, T. 51 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone, yellowish-gray (5 Y 7/2); quartzose, fine to very fine grained, well sorted (very fine), angular to subangular; about 10 to 20 percent sparite matrix; about 5 to 15 percent detrital carbonate, fine grained, subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; nodular; moderately to well cemented.	3	166 - 169
Limestone, yellowish-gray (5 Y 7/2) to dusky-yellow (5 Y 7/6); sandy intrasparite; about 30 to 35 percent quartz, fine to very fine grained, well sorted (fine), subangular; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; well cemented; grading into a sandstone, as above, in places; interbedded with about 30 percent sand, quartzose, medium to very fine grained, well sorted (fine), angular to rounded; about 15 percent detrital carbonate, coarse to very fine grained, poorly sorted, subangular to subrounded; about 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subangular to rounded.	4	169 - 173
Sandstone as in 166 to 169 feet; well cemented; interbedded with sand as above at 175.5 to 176 feet.	3	173 - 176
Sandstone as in 166 to 169 feet; interbedded with about 50 percent sand, quartzose, coarse to fine grained, moderately sorted (fine), angular to subrounded; about 10 to 15 percent detrital carbonate and shell fragments, coarse to medium grained, well sorted (medium), subrounded; about 5 to 10 percent phosphorite and heavy minerals, medium and very fine grained, well sorted (very fine), subangular to rounded.	3	176 - 179
Limestone as in 169 to 173 feet; interbedded with about 30 percent sand as above.	10	179 - 189
Sand as above; interbedded with about 20 to 30 percent limestone as above.	10	189 - 199
Limestone, yellowish-gray (5 Y 8/1); sandy intramicrite; about 20 to 25 percent quartz, fine to very fine grained, well sorted (fine), angular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; moderately to well cemented; interbedded with about 30 percent sand, quartzose, medium to very fine grained, well sorted (fine), angular to subrounded; about 15 percent detrital carbonate, fine grained, subrounded; about 5 to 10 percent phosphorite and heavy minerals, medium and very fine grained, well sorted (very fine), subrounded to well rounded.	7	199 - 206
Sand as above; interbedded with about 10 to 20 percent sandstone as in 166 to 169 feet.	7	206 - 213

Lithologic Log of Well G-2328--Continued

Lat 25°59'18", long 80°09'18"  
Sec. 28, T. 51 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone, yellowish-gray (5 Y 7/2) to dusky-yellow (5 Y 6/4); quartzose, medium to fine grained, well sorted (fine), subangular to rounded; about 20 percent sparite matrix; about 15 percent detrital carbonate, coarse to fine grained, well sorted (fine), subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; loosely to well cemented.	3	213 - 216
Limestone, yellowish-gray (5 Y 7/2); sandy intrasparite; about 25 to 35 percent quartz, medium to fine grained, well sorted (fine), subangular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; loosely to well cemented.	3	216 - 219
Sandstone, yellowish-gray (5 Y 7/2); quartzose, fine to very fine grained, well sorted (fine), angular to subrounded; about 15 to 20 percent sparite matrix; about 10 percent detrital carbonate; medium to fine grained, moderately sorted (fine), subangular to rounded; about 5 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; well cemented; interbedded with sand at 221.5 to 223 feet, quartzose, fine to very fine grained, well sorted (fine), angular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; about 10 percent detrital carbonate, medium to fine grained, moderately sorted (fine), subangular to rounded.	4	219 - 223
Limestone as in 169 to 173 feet; interbedded with sand as above at 225 to 226 feet and 226 to 228 feet.	6	223 - 229
Sand as above.	3	229 - 232
Sandstone, light-gray (N 7); quartzose, fine to very fine grained, well sorted (very fine), angular to subrounded; about 15 to 20 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded; nodular; well cemented.	1	232 - 233
Sandstone as above; about 15 to 20 percent detrital carbonate, coarse to very fine grained, poorly sorted, subrounded; interbedded with about 40 percent sand, light-gray (N 7); quartzose, fine to very fine grained, well sorted (fine), angular to subangular; about 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded; about 5 percent detrital carbonate, coarse to fine grained, well sorted (fine), subrounded.	3	233 - 236
Sand as above; interbedded with about 30 percent sandstone at 236 to 239 feet.	7	236 - 243
Sand as above; about 3 percent detrital carbonate.	2.5	243 - 245.5
Sandstone as above, light-olive-gray (5 Y 6/1); about 10 percent detrital carbonate; well cemented.	.5	245.5 - 246

Lithologic Log of Well G-2328--Continued

Lat 25°59'18", long 80°09'18"  
Sec. 28, T. 51 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone as in 233 to 236 feet; about 5 to 10 percent detrital carbonate; interbedded with sand as above at 247 to 249 feet.	3	246 - 249
Sand as above; about 20 percent phosphorite and heavy minerals; interbedded with sandstone as above at 252.5 to 253 feet.	4	249 - 253
Sandstone, light-gray (N 7) to medium-light-gray (N 6); quartzose, fine to very fine grained, well sorted (fine), angular to subrounded; about 25 to 30 percent sparite matrix; about 20 percent detrital carbonate and shell fragments, coarse grained, subangular to subrounded; about 10 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; well cemented; interbedded with sand at 255 to 256 feet; quartzose, medium to fine grained, well sorted (medium), angular to subrounded; about 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subangular to well rounded.	3	253 - 256
Sand as above; interbedded with about 30 percent limestone, light-olive-gray (5 Y 6/1); sandy, fossiliferous intrasparite, mollusks, including gastropods; about 35 to 40 percent quartz, medium to very fine grained, well sorted (fine), subangular to rounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subangular to well rounded; well cemented.	3	256 - 259
Sand as above; interbedded with limestone at 261 to 263 feet; limestone, light-olive-gray (5 Y 6/1), sandy, sparse intrasparite, <i>Turritella</i> sp., echinoid spines, and foraminifers; about 25 to 30 percent quartz, medium to fine grained, well sorted (fine), subangular to rounded; about 5 to 10 percent phosphorite and heavy minerals, well sorted (fine), angular to subrounded; well cemented.	4	259 - 263
Sand, light-olive-gray (5 Y 6/1); quartzose, fine to very fine grained, well sorted (fine), angular to subrounded; about 15 to 20 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; about 10 percent detrital carbonate and shell fragments, coarse to fine grained, moderately sorted (medium), subangular to subrounded; interbedded with about 20 percent sandstone as in 253 to 256 feet.	3	263 - 266

Lithologic Log of Well G-2328--Continued

Lat 25°59'18", long 80°09'18"  
Sec. 28, T. 51 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone, light-olive-gray (5 Y 6/1); quartzose, fine to very fine grained, well sorted (very fine), angular to subangular; about 30 percent detrital carbonate, fine to very fine grained, well sorted (fine), subrounded; about 10 percent phosphorite and heavy minerals, very fine grained, angular to rounded; about 15 percent shell fragments, mollusks including gastropods; nodular in places; well cemented; interbedded with about 20 percent sand, quartzose, very fine grained, angular; about 10 to 15 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded.	13	266 - 279
Sandstone, medium-light-gray (N 6); quartzose, medium to fine grained, well sorted (fine), subangular to rounded; about 10 to 15 percent phosphorite and heavy minerals, coarse to fine grained, moderately sorted (fine), subangular to well rounded; about 5 percent shell fragments; well cemented; interbedded with sand at 279 to 280 feet, quartzose, medium to fine grained, well sorted (fine), subangular to rounded; about 10 to 15 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), subrounded to well rounded.	4	279 - 283
Sand as above; interbedded with sandstone as above at 287.5 to 288.5 feet; about 15 to 20 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), subangular to well rounded; about 15 percent shell fragments, barnacles; moderately to well cemented.	6	283 - 289
Limestone, light-olive-gray (5 Y 5/2), sandy micrite; about 15 percent quartz, medium to very fine grained, poorly sorted, subrounded to rounded; about 10 percent phosphorite and heavy minerals, fine grained, rounded to well rounded; moderately cemented; grading into a silty micrite in places.	7	289 - 296
Limestone, light-olive-gray (5 Y 5/2); sandy, fossiliferous micrite, mollusks; about 25 percent quartz, very fine grained, angular to subangular; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; moderately cemented.	3	296 - 299

Lithologic Log of Well G-2329

Lat 26°10'14", long 80°51'22"

Description	Thick- ness (feet)	Depth, feet below land surface
Fill.	8	0 - 8
Sand, yellowish-gray (5 Y 8/1); quartzose, very fine grained, angular to subangular; about 10 to 15 percent micrite, not cemented.	1	8 - 9
Sand, yellowish-gray (5 Y 8/1); quartzose, very fine grained to silt, well sorted (silt), angular to subrounded; about 30 to 35 percent micrite, not cemented; about 20 to 25 percent shell fragments, <u>Chione</u> sp. and <u>Turritella</u> sp.	4	9 - 13
Limemud, white (N 9); sandy micrite; about 45 percent quartz, very fine grained to silt, well sorted (very fine), subangular to subrounded; about 3 to 5 percent shell fragments, <u>Pecten</u> sp., <u>Chione</u> sp., and <u>Ostrea</u> sp.	3	13 - 16
Sand, yellowish-gray (5 Y 8/1); quartzose, very fine grained to silt, well sorted (silt), angular to rounded; about 30 percent micrite, not cemented; about 10 to 15 percent shell fragments, mollusks and echinoid spines; traces of phosphorite.	3	16 - 19
Shells, abundant in pelecypods (about 1/2 inch), and echinoid spines; about 30 percent sandy micrite, not cemented; about 15 to 20 percent quartz, very fine grained, angular to rounded.	4	19 - 23
Limemud, yellowish-gray (5 Y 8/1); sandy micrite; about 15 percent quartz, very fine grained to silt, well sorted (silt), subangular to rounded; about 10 percent detrital carbonate, very fine grained; about 1 to 3 percent heavy minerals; about 1 to 3 percent shell fragments.	3	23 - 26
Sand, yellowish-gray (5 Y 7/2); quartzose, very fine grained, subangular to subrounded; about 35 percent micrite, not cemented; about 3 percent detrital carbonate, very fine grained; about 1 to 3 percent heavy minerals; about 1 to 3 percent shell fragments.	3	26 - 29
Limemud, yellowish-gray (5 Y 7/2); sandy micrite; about 20 to 25 percent quartz, fine to very fine grained, well sorted (very fine), subangular to subrounded; about 10 to 15 percent detrital carbonate, fine to very fine grained; about 10 to 15 percent shell fragments, coral (at 29 to 36 feet), <u>Ostrea</u> sp. and barnacles (pink) at 39 to 46 feet; about 1 to 5 percent phosphorite and heavy minerals; about 1 to 3 percent clay-size particles and organic matter.	20	29 - 49
Limemud, yellowish-gray (5 Y 7/2); sandy micrite; about 30 to 35 percent quartz, very fine grained, subangular to subrounded; about 10 to 20 percent detrital carbonate, including RF from a sandy micrite; about 3 to 5 percent shell fragments; about 3 to 5 percent phosphorite and heavy minerals; cemented in places.	10	49 - 59

Lithologic Log of Well G-2329--Continued

Lat 26°10'14", long 80°51'22"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 7/2), sandy, sparse biomicrite; about 25 to 30 percent quartz, very fine grained, angular to subrounded; about 3 to 5 percent phosphorite, fine to very fine grained, rounded; loosely cemented.	2	59 - 61
Limemud, yellowish-gray (5 Y 7/2); sandy micrite; about 25 to 35 percent quartz, fine to very fine grained, well sorted (very fine), subangular to rounded; about 15 to 20 percent detrital carbonate and shell fragments; about 3 to 5 percent phosphorite, fine to very fine grained, well sorted (very fine), rounded to well rounded; cemented in places at 63 to 69 feet into a sandy, sparse biomicrite, echinoid spines.	8	61 - 69
Sand, yellowish-gray (5 Y 7/2); quartzose, fine to very fine grained, well sorted (fine), subangular to rounded; about 30 percent shell fragments, <i>Ostrea</i> sp. (about 2 inches) and echinoid spines; about 15 percent detrital carbonate, including limestone RF; about 10 percent phosphorite, very fine grained, rounded to well rounded; about 1 to 3 percent micrite, not cemented.	4	69 - 73
Sand, light-olive-gray (5 Y 6/1); detrital carbonate and shell fragments, granules to very fine grained, moderately sorted (fine), subangular to rounded; about 20 to 30 percent micrite, not cemented; about 5 percent at 79 to 83 feet; about 15 percent quartz, fine grained to silt, well sorted (very fine), subangular to rounded; interbedded with about 5 to 10 percent limestone, sandy, packed biomicrite; well cemented.	10	73 - 83
Limestone, light-gray (N 7); sandy, packed biomicrite; with about 10 percent quartz, very fine grained, subangular to subrounded; about 5 percent phosphorite, very fine grained, rounded; loosely to well cemented.	3	83 - 86
Sand, light-gray (N 7); detrital carbonate and shell fragments, granules to very fine grained, poorly sorted, subangular to subrounded; about 10 percent quartz, very fine grained, subrounded; about 5 to 10 percent shell fragments, including casts (about 1/2 to 1 inch); about 5 percent phosphorite, very fine grained, rounded to well rounded; interbedded with about 15 percent limestone, packed biomicrite, echinoid fragments; moldic porosity; well to loosely cemented.	5	86 - 91
Limestone, light-olive-gray (5 Y 6/1); sandy, packed biomicrite, abundant in echinoid fragments; about 10 percent phosphorite, very fine grained, rounded to well rounded; about 5 to 10 percent quartz, very fine grained, subrounded to rounded; well cemented.	3	91 - 94

Lithologic Log of Well G-2329--Continued

Lat 26°10'14", long 80°51'22"

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-olive-gray (5 Y 6/1); detrital carbonate and shell fragments, granules to very fine grained, poorly sorted, subangular to rounded; about 5 to 10 percent micrite, not cemented; interbedded with about 30 percent limestone, sandy, packed biomicrite; about 10 percent phosphorite, very fine grained, rounded to well rounded; about 10 percent quartz, very fine grained, subrounded.	5	94 - 99
Sand as above, light-gray (N 7) to light-medium-gray (N 6); about 20 percent shell fragments, including casts and molds (about 1/2 to 1 inch), echinoid fragments (sand dollar) and spine, and pelecypods; about 5 to 10 percent quartz, very fine grained, subangular to subrounded; about 5 to 10 percent phosphorite.	4	99 - 103
Sand as above; about 10 to 30 percent shell fragments, including barnacles (pink); interbedded with about 10 to 15 percent limestone, light-gray (N 7) to light-medium-gray (N 6); packed biomicrite; about 5 to 10 percent quartz, very fine grained, subangular to rounded; about 1 to 5 percent phosphorite.	9	103 - 112
Limestone, light-olive-gray (5 Y 6/1); sandy, packed biomicrite, <u>Pecten</u> sp., <u>Ostrea</u> sp., and echinoid spines; about 5 to 10 percent quartz, very fine grained, subrounded to rounded; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, angular to well rounded; loosely to well cemented.	4	112 - 116
Limestone as in 103 to 112 feet; about 10 to 15 percent quartz, subrounded to rounded; about 10 to 15 percent shell fragments.	3	116 - 119
Limestone, yellowish-gray (5 Y 7/2); sandy, packed biomicrite, coral at 119 to 123 feet, <u>Pecten</u> sp., echinoid fragments and spines, pelecypods, and <u>Ostrea</u> sp.; about 5 to 10 percent quartz, very fine grained, subrounded to well rounded; about 5 percent phosphorite, very fine grained, rounded to well rounded; loosely to well cemented.	7	119 - 126
Limestone, yellowish-gray (5 Y 7/2 and 5 Y 8/1); sandy, packed biomicrite, mollusks including <u>Pecten</u> sp. and <u>Ostrea</u> sp., and crab claw; about 25 to 30 percent quartz, fine to very fine grained, well sorted (very fine), subangular to subrounded; about 10 to 15 percent phosphorite, very fine grained, subrounded to well rounded; loosely to well cemented.	3	126 - 129

Lithologic Log of Well G-2329--Continued

Lat 26°10'14", long 80°51'22"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1); sandy, packed biomicrite, mollusks, <u>Pecten</u> sp. and gastropods, including echinoid fragments and spines, and a crab shell; about 20 percent quartz, fine to very fine grained, well sorted (very fine), subangular to rounded; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, angular to well rounded; loosely to well cemented.	4	129 - 133
Limestone, yellowish-gray (5 Y 8/1 to 5 Y 7/2); sandy, packed biomicrite grading to a sandy, poorly washed biosparite, calcareous algae, mollusks, including <u>Ostrea</u> sp. and <u>Pecten</u> sp., echinoid spines, and barnacles (pink); about 10 to 30 percent quartz, very fine grained, subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, angular to well rounded; loosely to well cemented.	3	133 - 136
Limestone, yellowish-gray (5 Y 7/2); sandy, packed biomicrite grading to a sandy, packed biosparite in places; about 30 to 35 percent quartz, fine to very fine grained; well sorted (very fine), subangular to rounded; about 15 percent phosphorite and heavy minerals, coarse to very fine grained, well sorted (fine), angular to well rounded; loosely to moderately cemented.	3	136 - 139
Sand, light-olive-gray (5 Y 6/1); quartzose, fine to very fine grained, well sorted (fine), angular to rounded; about 15 to 20 percent phosphorite and heavy minerals, very fine grained, angular to well rounded; about 20 percent detrital carbonate and shell fragments, fine to very fine grained; about 10 to 15 percent shell fragments, abundant in echinoid fragments.	4	139 - 143
Sand, light-olive gray (5 Y 6/1); quartzose, very fine grained to silt, well sorted (very fine), very angular to subangular; about 20 percent phosphorite and heavy minerals, very fine grained, angular to well rounded; about 20 percent shell fragments, mollusks, echinoid fragments and spines, barnacles, and framework organism.	6	143 - 149

Lithologic Log of Well G-2329--Continued

Lat 26°10'14", long 80°51'22"

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-olive-gray (5 Y 6/1); quartzose, very fine grained, very angular to subangular; about 15 to 25 percent phosphorite and heavy minerals, very coarse (at 153 to 156 feet) to very fine grained, well sorted (fine), angular to well rounded; about 10 percent detrital carbonate, fine to very fine grained; about 5 to 10 percent shell fragments, mollusks, echinoid spines, barnacles, sponge spicule, and framework organism.	7	149 - 156
Sand, light-olive-gray (5 Y 5/2); quartzose, very fine grained to silt, well sorted (very fine), very angular to angular; about 20 to 25 percent phosphorite and heavy minerals, granules to very fine grained, moderately sorted to well sorted (fine), angular to well sorted; about 10 to 20 percent calcareous clay; about 0 to 10 percent detrital carbonate and shell fragments.	7	156 - 163
Silt, olive-gray (5 Y 5/2 to 5 Y 3/2); about 30 percent calcareous clay; about 20 percent quartz, very fine grained, very angular to angular; about 10 percent phosphorite and heavy minerals, granules to very fine grained, well sorted (fine), angular to well rounded; about 3 to 5 percent shell fragments.	3	163 - 166
Clay, light-olive-gray (5 Y 5/2); calcareous; about 15 percent quartz, phosphorite and heavy minerals, very fine grained.	3	166 - 169
Clay, grayish-olive-gray (5 GY 3/2); calcareous, silty; about 5 to 10 percent quartz, phosphorite and heavy minerals.	4	169 - 173
Clay, olive-gray (5 Y 4/1); calcareous, silty.	3	173 - 176
Clay, grayish-olive-gray (5 GY 3/2); slightly calcareous, silty; about 1 percent shell fragments.	3	176 - 179

Lithologic Log of Well G-2330

Lat 26°08'44", long 80°41'59"

Description	Thick- ness (feet)	Depth, feet below land surface
Fill.	6	0 - 6
Clay, medium-gray (N 5); calcareous; interbedded with fill and shell fragments.	3	6 - 9
Limestone, very pale orange (10 YR 8/2); fossiliferous micrite, abundant in gastropods; neomorphic calcite present in matrix; moderately to loosely cemented.	4	9 - 13
Limestone, dark-yellowish-brown (10 YR 4/2); sandy, fossiliferous micrite; about 10 percent quartz, medium to fine grained, moderately sorted (fine), subangular to rounded; well cemented.	3	13 - 16
Limestone, very pale orange (10 YR 8/2) and dark-yellowish-brown (10 YR 6/2); sandy, sparse biomicrite, mollusks including gastropods; about 10 percent quartz, fine to very fine grained, well sorted (fine), angular to subangular; moderately to well cemented.	3	16 - 19
Limestone, yellowish-gray (5 Y 8/1); fossiliferous micrite, mollusks including gastropods and <u>Pecten</u> sp., and benthic foraminifers; neomorphic calcite present in tests; well cemented; interbedded with about 30 to 40 percent sparse biomicrite, yellowish-gray (5 Y 7/2); abundant in gastropods, tests are smooth and partially dissolved; first and second generation cavity-filling calcite cement is present and neomorphic calcite is present in matrix; about 5 to 10 percent quartz, fine grained, subrounded; moderately to well cemented.	4	19 - 23
Limestone mixture: fossiliferous micrite, yellowish-gray (5 Y 8/1); mollusks including gastropods; calcite cavity-filling cement is present; well cemented; sparse poorly washed biosparite, yellowish-gray (5 Y 7/2); neomorphic and cavity-filling calcite were noted; mottled texture; very well cemented.	3	23 - 26
Limestone mixture: sandy, fossiliferous micrite; neomorphic calcite is present; moderately to well cemented; fossiliferous micrite, light-olive-gray (5 Y 7/2), mollusks; mottled texture; neomorphic calcite present; very well cemented.	3	26 - 29
Limestone, yellowish-gray (5 Y 7/2); sparse biomicrite; neomorphic and cavity-filling calcite are present; about 5 to 10 percent quartz, very fine grained; well cemented.	4	29 - 33
Limestone, light-olive-gray (5 Y 6/1); sandy, fossiliferous micrite; about 10 to 15 percent quartz, very fine grained, angular to subangular; loosely to moderately cemented.	3	33 - 36
Limestone, very pale orange (10 YR 8/2); sandy, sparse biomicrite; about 20 percent quartz, very fine grained, angular; about 1 to 3 percent black shell fragments; moderately to well cemented.	3	36 - 39

Lithologic Log of Well G-2330--Continued

Lat 26°08'44", long 80°41'59"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1); sandy, sparse biomicrite, coral, gastropods, and pelecypods; about 20 percent quartz, phosphorite and heavy minerals, coarse to very fine grained, well sorted (fine), angular to subrounded; minor clay; neomorphic calcite is present in molds; moderately to well cemented.	4	39 - 43
Limestone, yellowish-gray (5 Y 7/2); sandy, fossiliferous micrite grading into a sandy, sparse biomicrite in places, <u>Chione</u> sp.; about 15 to 20 percent quartz, coarse to very fine grained, poorly sorted, very angular to subrounded; about 10 to 15 percent phosphorite, granules to very fine grained, poorly sorted, subangular to well rounded; minor clay; loosely to well cemented.	6	43 - 49
Shells and shell fragments, mollusks, including <u>Turritella</u> sp. and other gastropods; about 20 to 25 percent quartz, very coarse to very fine grained, poorly sorted, angular to subrounded; about 15 percent phosphorite, granules to very fine grained, poorly sorted, subrounded to well rounded; about 10 to 15 percent micrite, not cemented; minor clay.	4	49 - 53
Clay, light-olive-gray (5 Y 6/1); about 20 percent micrite, not cemented; about 20 to 25 percent shells and shell fragments, mollusks including <u>Turritella</u> sp., other gastropods, and <u>Chione</u> sp.; about 20 percent quartz and phosphorite, coarse to very fine grained, poorly sorted; quartz is angular to subrounded, and the phosphorite is subrounded to rounded.	3	53 - 56
Sand, light-olive-gray (5 Y 6/1); quartzose, medium to very fine grained, moderately to well sorted (very fine), angular to subrounded; about 20 to 25 percent shells and shell fragments, mollusks including <u>Turritella</u> sp.; about 5 to 15 percent clay at 59 to 63 feet; about 10 percent micrite, not cemented; about 10 percent phosphorite and heavy minerals, granules to very fine grained at 59 to 63 feet; poorly sorted to well sorted at 56 to 59 feet, angular to well rounded.	7	56 - 63
Limemud, light-olive-gray (5 Y 6/1); sandy micrite; about 30 to 40 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; about 10 percent phosphorite, fine to very fine grained, well sorted (very fine), rounded to well rounded; about 10 to 15 percent shell fragments increasing to about 25 percent at 66 to 69 feet; about 5 to 10 percent clay; minor organics; interbedded with about 30 percent limestone at 66 to 69 feet, packed biomicrite, sandy in places, mollusks including gastropods.	6	63 - 69

Lithologic Log of Well G-2330--Continued

Lat 26°08'44", long 80°41'59"

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-olive-gray (5 Y 6/1); detrital carbonate and shell fragments, granules to very fine grained, poorly sorted, subangular to subrounded; about 20 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; about 5 percent phosphorite, very fine grained, rounded to well rounded; interbedded with about 30 to 35 percent limestone, sandy packed biomicrite.	4	69 - 73
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); packed biomicrite grading into a sandy packed biomicrite in places, mollusks; loosely to well cemented.	10	73 - 83
Sand as in 69 to 73 feet; about 5 to 10 percent quartz, very fine grained, subangular; about 3 to 5 percent heavy minerals, very fine grained, angular to rounded; interbedded with about 20 percent limestone, sparse intramicrite, echinoid fragments and spines, and mollusks; well cemented.	10	83 - 93
Limestone, light-olive-gray (5 Y 6/1); packed biomicrite, echinoids, serpulids, mollusks, and barnacles (pink); minor quartz; loosely to well cemented.	6	93 - 99
Sand, light-olive-gray (5 Y 6/1); detrital carbonate and shell fragments, granules to very fine grained, poorly sorted, subrounded to well rounded; about 15 to 20 percent shells and shell fragments, mollusks and abundant barnacles; interbedded with about 15 to 20 percent limestone, packed biomicrite and sparse intramicrite.	4	99 - 103
Limestone, light-olive-gray (5 Y 6/1); intraclastic, sparse biomicrite, mollusks, including <u>Pecten</u> sp., echinoid fragments and spines, barnacles, and bryozoans; less than 1 percent quartz; loosely to well cemented.	6	103 - 109
Limestone, light-olive-gray (5 Y 6/1); sandy, packed biomicrite, mollusks and bryozoans; about 10 to 15 percent quartz, very fine grained, subangular to well rounded; about 5 to 10 percent phosphorite, very fine grained, subrounded to rounded; loosely to moderately cemented.	7	109 - 116
Limestone as above; echinoid spines and mollusks including gastropods; about 20 to 25 percent quartz, fine to very fine grained, well sorted (very fine), subangular to subrounded.	7	116 - 123
Limestone as above; echinoid fragments and spines, bryozoans, pellets, barnacles, mollusks, including pelecypods and <u>Pecten</u> sp., and coral at 129 to 133 feet; about 10 to 20 percent quartz.	13	123 - 136
Limestone, yellowish-gray (5 Y 8/1), light-olive-gray (5 Y 6/1), and medium-light-gray (N 6); sparse biomicrite, mollusks including pelecypods, <u>Pecten</u> sp. and gastropods, echinoid fragments and spines, bryozoan, and barnacles (pink); about 5 to 10 percent quartz, very fine grained, subangular to subrounded; moderately to well cemented.	13	136 - 149

Lithologic Log of Well G-2330--Continued

Lat 26°08'44", long 80°41'59"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1); sandy, intraclastic, sparse biomicrite, mollusks; about 10 percent quartz, very fine grained, subangular; about 5 percent phosphorite, fine to very fine grained, well sorted (very fine), rounded to well rounded; loosely to moderately cemented.	4	149 - 153
Limestone as in 136 to to 149 feet.	3	153 - 156
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse, intramicrite, mollusks, echinoids, bryozoans, pelecypods, and gastropods; about 10 to 20 percent quartz, very fine grained, angular to subrounded; about 5 to 10 percent phosphorite, fine to very fine grained, well sorted (very fine), rounded to well rounded; moderately to loosely cemented.	7	156 - 163
Limestone, light-olive-gray (5 Y 6/1); sandy, sparse intramicrite, barnacle fragments and mollusks; about 30 to 40 percent quartz, fine to very fine grained, well sorted (fine), angular to subrounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded; loosely to well cemented.	10	163 - 173
Sand, light-olive-gray (5 Y 6/1); quartzose, fine to very fine grained, well sorted (fine), subangular to subrounded; about 10 to 20 percent shell fragments, mollusks, and echinoid spines; about 10 to 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; about 10 to 20 percent detrital carbonate; about 1 to 10 percent micrite, not cemented.	6	173 - 179
Sand as above; about 40 to 45 percent shells and shell fragments, mollusks, echinoid spines and fragments, crab claw, and barnacles; about 1 to 5 percent micrite, not cemented; about 20 percent phosphorite.	7	179 - 186
Sand, yellowish-gray (5 Y 7/2) to light-olive-gray (5 Y 5/2); quartzose, fine to very fine grained, well sorted (very fine), angular to subangular; about 20 to 25 percent phosphorite, coarse to very fine grained, well sorted (fine), subrounded to well rounded; about 20 percent shells and shell fragments, mollusks, echinoid spines, and barnacles; about 1 to 10 percent clay.	7	186 - 193
Sand, light-olive-gray (5 Y 5/2) to olive-gray (5 Y 4/1); quartzose, fine to very fine grained, well sorted (very fine), angular; about 20 to 30 percent phosphorite and heavy minerals, granules (at 196 to 199 feet) to very fine grained, well sorted (fine), subangular to well rounded; about 10 to 30 percent clay; about 1 to 5 percent shell fragments.	10	193 - 203
Clay, light-olive-gray (5 Y 5/2), slightly calcareous; about 5 to 10 percent quartz, very fine grained, phosphorite and heavy minerals.	1.5	203 - 204.5
Clay as above, but lacking accessory minerals.	4.5	204.5 - 209

Lithologic Log of Well G-2338

Lat 26°05'32", long 80°50'36"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, grayish-orange (10 YR 7/4) to pale-yellowish-brown (10 YR 6/2) and very pale orange (10 YR 8/2); sandy micrite; about 10 to 30 percent quartz, coarse to very fine grained, moderately sorted (medium to fine at 3 to 9 feet), subrounded to rounded; about 1 to 3 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to rounded; well cemented; interbedded with about 15 percent muck at 0 to 3 feet.	9	0 - 9
Limestone, very pale orange (10 YR 8/2) to very pale brown (10 YR 6/2); sandy, fossiliferous micrite, mollusks; about 25 to 30 percent quartz, coarse to very fine grained, moderately sorted (fine), subangular to rounded; about 3 to 5 percent phosphorite and heavy minerals, coarse to very fine grained, poorly to well sorted (very fine), subrounded to rounded; well cemented.	10	9 - 19
Limestone, yellowish-gray (5 Y 8/1); sandy micrite; about 35 percent quartz, coarse to fine grained, moderately to well sorted (fine), subrounded to rounded; about 5 percent phosphorite and heavy minerals, fine grained, rounded; well cemented.	4	19 - 23
Limestone, yellowish-gray (5 Y 8/1); sandy, fossiliferous micrite; about 35 percent quartz, coarse to fine grained, moderately to well sorted (fine), subrounded to rounded; about 5 percent phosphorite and heavy minerals, fine grained, rounded; well cemented.	3	23 - 26
Limestone, light-olive-gray (5 Y 6/1); sandy, packed biomicrite, mollusks; about 25 to 30 percent quartz, coarse to fine grained, moderately sorted (fine), subangular to rounded; about 3 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), rounded to well rounded; well cemented.	10	26 - 36
Limestone, light-olive-gray (5 Y 6/1); sandy, packed biomicrite, mollusks; about 25 percent quartz, medium to fine grained, well sorted (fine), subrounded; about 1 to 3 percent phosphorite and heavy minerals, very fine grained, rounded; well cemented; interbedded with sandy, fossiliferous micrite, between moderate-yellowish-brown (10 YR 5/4) and dark-yellowish-brown (10 YR 4/2); about 25 percent quartz, medium to fine grained, well sorted (fine), subangular to subrounded; moderately to well cemented.	3	36 - 39
Limestone, moderate-yellowish-brown (10 YR 5/4) and dark-yellowish-brown (10 YR 4/2); sandy, sparse biomicrite, mollusks, pellets, and echinoid spines; about 25 percent quartz, medium to fine grained, well sorted (fine), subangular to subrounded; well cemented.	4	39 - 43

Lithologic Log of Well G-2338--Continued

Lat 26°05'32", long 80°50'36"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); sandy, sparse biomicrite, mollusks, including <u>Pecten</u> sp.; about 30 to 35 percent quartz, fine, angular to sub-rounded; about 5 percent phosphorite and heavy minerals, very fine grained, rounded; moderately to well cemented.	6	43 - 49
Silt, light-olive-gray (5 Y 5/2); quartzose; about 25 percent quartz, fine grained, subangular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, rounded; about 10 percent micrite, not cemented; about 20 percent clay size particles; about 5 percent shell fragments.	4	49 - 53
Limemud, yellowish-gray (5 Y 7/2); silty, sandy micrite; about 35 to 40 percent quartz, very fine grained to silt, well sorted (very fine), subangular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, rounded; about 5 to 10 percent detrital carbonate, very fine grained, subangular to subrounded; about 10 percent clay size particles.	3	53 - 56
Sand, light-olive-gray (5 Y 5/2); quartzose, very fine grained to silt, moderately to well sorted (very fine), subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; about 20 to 25 percent micrite, not cemented; grading to a clayey micrite at 63 to 66 feet.	10	56 - 66
Silt, light-olive-gray (5 Y 5/2); quartzose; about 25 percent micrite, not cemented; about 5 percent quartz, very fine grained, subangular to rounded; about 1 percent phosphorite and heavy minerals, very fine grained, rounded.	3	66 - 69
Limemud as in 53 to 56 feet; about 25 to 30 percent quartz; about 3 to 10 percent shell fragments.	7	69 - 76
Limemud, yellowish-gray (5 Y 7/2); sandy micrite; about 25 percent quartz, very fine grained, subrounded to rounded; about 5 percent phosphorite and heavy minerals, very fine grained, rounded; interbedded with about 20 percent limestone, sandy, fossiliferous micrite, bryozoans; about 25 to 30 percent quartz, very fine grained, angular to rounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, rounded; well cemented.	3	76 - 79
Limemud as above; interbedded with about 15 to 25 percent sandy silt, calcareous; about 5 percent shell fragments, <u>Ostrea</u> sp.	7	79 - 86
Silt, light-olive-gray (5 Y 5/2); quartzose; about 30 percent micrite, not cemented; about 3 to 10 percent shell fragments, <u>Ostrea</u> sp. (up to 2 inches).	7	86 - 93

Lithologic Log of Well G-2338--Continued

Lat 26°05'32", long 80°50'36"

Description	Thick- ness (feet)	Depth, feet below land surface
Silt as above, light-olive-gray (5 Y 5/2) to greenish-gray (5 GY 6/1); about 5 to 10 percent quartz, very fine grained, subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, rounded; about 1 to 3 percent organic matter.	4.5	93 - 97.5
Silt as above; interbedded with about 45 to 50 percent limestone, light-olive-gray (5 Y 6/1) to medium-dark-gray (N 4); sandy, packed biomicrite, <u>Ostrea</u> sp.; about 10 to 15 percent quartz, very fine grained, subrounded to rounded; about 5 percent phosphorite and heavy minerals, very fine grained, rounded; well cemented.	1.5	97.5 - 99
Limestone, medium-gray (N 5); sparse biomicrite to sandy, sparse biomicrite, mollusks including <u>Ostrea</u> sp., and bryozoans; about 5 percent quartz, very fine grained, subrounded to rounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, rounded; loosely cemented.	1	99 - 100
Limestone, light-olive-gray (5 Y 6/1) to medium-gray (N 5); intraclastic, sparse biomicrite to sandy, intraclastic, sparse biomicrite, mollusks, including <u>Ostrea</u> sp. and <u>Pecten</u> sp., serpulids, barnacles (pink), and bryozoans; about 5 to 20 percent quartz, very fine grained, subangular to rounded; about 3 to 15 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; moderately to well cemented.	13	100 - 113
Limestone, yellowish-gray (5 Y 8/1) to light-gray (N 7); sandy, sparse biomicrite, mollusks and barnacles; about 10 to 15 percent quartz, very fine grained, angular to subangular; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, rounded; moderately to well cemented.	3	113 - 116
Limestone, yellowish-gray (5 Y 8/1) to light-gray (N 7); sandy, intraclastic, packed biomicrite, mollusks including <u>Ostrea</u> sp., and barnacles; about 20 to 25 percent quartz, very fine grained, angular to subangular; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, rounded; moderately to well cemented.	3	116 - 119
Limestone, yellowish-gray (5 Y 8/1) to medium-dark-gray (N 4); sandy, sparse intramicrite, mollusks and barnacles; about 10 percent quartz, very fine grained, angular to subangular; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, rounded; moderately to well cemented.	10	119 - 129
Limestone as above; about 20 percent quartz, medium to very fine grained, moderately sorted (very fine), subangular to rounded; about 3 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; moderately cemented.	4	129 - 133

## Lithologic Log of Well G-2338--Continued

Lat 26°05'32", long 80°50'36"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-gray (N 7) to medium-light-gray (N 6); sandy, intraclastic, sparse biomicrite, mollusks including <i>Ostrea</i> sp. and <i>Pecten</i> sp., and serpulids; about 25 to 30 percent quartz, medium to very fine grained, well sorted (very fine), subangular to rounded; about 1 to 3 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; moderately to well cemented.	6	133 - 139
Limestone, light-gray (N 7) to medium-light-gray (N 6); sandy, packed biomicrite, mollusks and barnacles; about 20 to 30 percent quartz, very fine grained, subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, rounded; moderately to well cemented.	4	139 - 143
Limestone, light-olive-gray (5 Y 6/1) and yellowish-gray (5 Y 8/1); sandy, sparse biomicrite, mollusks including <i>Pecten</i> sp. and <i>Turritella</i> sp.; about 25 to 30 percent quartz, very fine grained, subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; loosely to moderately cemented.	6	143 - 149
Limestone, light-olive-gray (5 Y 6/1); sandy, packed biomicrite, mollusks and bryozoans; about 30 to 35 percent quartz, very fine grained, subangular to subrounded; about 10 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; loosely cemented.	7	149 - 156
Sand, medium-gray (N 5); quartzose, very fine grained, angular to subangular; about 25 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 25 to 30 percent shell fragments, mollusks and sponge spicules.	3	156 - 159
Shell fragments, mollusks; interbedded with sand as above; about 25 percent phosphorite and heavy minerals, pebbles to very fine grained, poorly sorted, subrounded to well rounded.	4	159 - 163
Sand, light-olive-gray (5 Y 5/2); quartzose, very fine grained to silt, moderately sorted (silt), angular to subangular; about 20 to 25 percent phosphorite and heavy minerals, granules to very fine grained, moderately sorted (very fine), rounded to well rounded; about 25 percent shell fragments; about 5 to 10 percent micrite, not cemented.	3	163 - 166
Silt, light-olive-gray (5 Y 5/2); about 15 to 20 percent micrite, not cemented; about 5 to 10 percent shells and shell fragments, foraminifers; about 5 to 10 percent quartz, very fine grained, angular to subangular; about 5 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; about 5 to 10 percent clay size particles.	3	166 - 169
Silt, light-olive-gray (5 Y 5/2) to olive-gray (5 Y 3/2); about 30 percent micrite, not cemented; about 5 percent quartz, very fine grained, angular to subangular; about 5 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; about 10 to 15 percent clay size particles.	10	169 - 179

Lithologic Log of Well G-2340

Lat 26°14'58", long 80°49'47"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 8/1); sandy, fossiliferous micrite, mollusks; about 25 percent quartz, coarse to very fine grained, poorly sorted, subrounded to rounded; about 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subrounded to well rounded; loosely to well cemented at 6 feet; interbedded with about 15 percent muck.	9	0 - 9
Limestone, yellowish-gray (5 Y 8/1); sandy, micrite; about 30 percent quartz, coarse to very fine grained, poorly sorted, subangular to rounded; about 10 to 15 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subrounded to well rounded; loosely to well cemented.	7	9 - 16
Limestone, yellowish-gray (5 Y 8/1); sandy, fossiliferous micrite; about 30 percent quartz, coarse to very fine grained, poorly sorted, subangular to rounded; about 10 to 15 percent phosphorite and heavy minerals, pebbles to very fine grained, moderately sorted (very fine), subrounded to well rounded; loosely to well cemented.	3	16 - 19
Limemud, yellowish-gray (5 Y 7/2); sandy micrite; about 35 to 40 percent quartz, fine to very fine grained, well sorted (fine), subangular; about 5 to 10 percent phosphorite and heavy minerals, pebbles (at 19 to 23 feet) and medium to very fine grained, moderately sorted (very fine), subangular to well rounded; about 10 percent shell fragments, <u>Chione</u> sp.	7	19 - 26
Limestone as above; interbedded with about 40 to 50 percent clay, light-olive-gray (5 Y 5/2); calcareous; about 25 to 30 percent quartz, very fine grained to silt, well sorted (very fine), angular to subangular; about 10 percent shell fragments.	7	26 - 33
Limemud, as in 19 to 26 feet, lacking pebbles; about 25 to 30 percent quartz; about 15 to 25 percent shell fragments, mollusks including <u>Ostrea</u> sp.	20	33 - 53
Limemud as above; about 15 to 20 percent quartz; about 5 percent phosphorite and heavy minerals; about 35 to 40 percent shell fragments.	3	53 - 56
Limemud as above; interbedded with about 15 to 20 percent limestone, yellowish-gray (5 Y 8/1) to medium-light gray (N 6); sandy, sparse intramicrite, mollusks including <u>Pecten</u> sp., bryozoans, and echinoid fragments; about 10 to 15 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded; moderately cemented.	3	56 - 59
Limestone as above.	7	59 - 66

Lithologic Log of Well G-2340--Continued

Lat 26°14'58", long 80°49'47"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1) to medium-dark-gray (N 4); sandy, intraclastic, packed biomicrite, mollusks including <u>Ostrea</u> sp., bryozoans, and echinoid fragments; about 15 to 20 percent quartz, fine to very fine grained, well sorted (very fine), subangular to subrounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to rounded; moderately to well cemented.	7	66 - 73
Limestone, yellowish-gray (5 Y 8/1) to medium-gray (N 5); sandy, intraclastic, sparse biomicrite, <u>Ostrea</u> sp., barnacles, serpulids, and bryozoans; about 20 to 25 percent quartz, medium to very fine grained, well sorted (fine), subangular to rounded; about 3 to 5 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), rounded; loosely to moderately cemented.	16	73 - 89
Limestone as above; about 25 to 30 percent quartz; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded.	4	89 - 93
Limestone, light-olive-gray (5 Y 6/1); sandy, packed biomicrite to sandy, sparse biomicrite at 96 to 99 feet, mollusks, including <u>Ostrea</u> sp.; about 25 to 30 percent quartz, fine to very fine grained, well sorted (fine), subangular to rounded; about 5 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), rounded; loosely cemented.	6	93 - 99
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); sandy, sparse intramicrite, mollusks; about 25 to 30 percent quartz, very fine grained, angular to subangular; about 5 percent phosphorite, heavy minerals, and hematite, fine to very fine grained, well sorted (fine), subrounded to well rounded; moderately to well cemented.	10	99 - 109
Limestone, light-olive-gray (5 Y 6/1); sandy, intraclastic, sparse biomicrite, mollusks including <u>Pecten</u> sp.; about 25 percent quartz, very fine grained, angular to subangular; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to well rounded; moderately cemented.	4	109 - 113
Limestone, yellowish-gray (5 Y 8/1) to light-olive-gray (5 Y 6/1); sandy, packed biomicrite, mollusks including <u>Pecten</u> sp., barnacles, and bryozoans; about 20 percent quartz, very fine grained, angular to subangular; about 3 to 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), rounded; moderately cemented.	3	113 - 116

Lithologic Log of Well G-2340--Continued

Lat 26°14'58", long 80°49'47"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); sandy, intraclastic, packed biomicrite, barnacles, <u>Ostrea</u> sp., <u>Pecten</u> sp., and bryozoans; about 25 percent quartz, fine to very fine grained, well sorted (very fine), subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; loosely to well cemented.	10	116 - 126
Limestone, light-olive-gray (5 Y 6/1) to medium-gray (N 5); sandy, packed biomicrite, mollusks including <u>Ostrea</u> sp. and <u>Turritella</u> sp.; about 5 to 30 percent quartz, fine to very fine grained, well sorted (very fine), subangular to rounded; about 5 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; moderately cemented.	10	126 - 136
Limestone, light-olive-gray (5 Y 6/1) and medium-light-gray (N 6); sandy, intraclastic, packed biomicrite, mollusks including <u>Pecten</u> sp.; about 20 to 25 percent quartz, medium to very fine grained, well sorted (fine), subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, rounded; moderately cemented.	3	136 - 139
Limestone as above; interbedded with about 30 percent limestone as in 126 to 136 feet.	4	139 - 143
Limestone, light-gray (N 7); sandy, packed biomicrite, mollusks, including <u>Turritella</u> sp., and barnacles; about 30 percent quartz, very fine grained, subangular; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; loosely to moderately cemented.	3	143 - 146
Limestone, medium-gray (N 5) to medium-dark-gray (N 4); sandy, sparse biomicrite, mollusks including <u>Pecten</u> sp.; about 25 percent quartz, very fine grained, subangular; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; loosely cemented.	3	146 - 149
Sand, light-gray (N 7) to medium-light-gray (N 6); quartzose, fine to very fine grained, well sorted (very fine), angular to subangular; about 15 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; about 1 to 10 percent shell fragments, mollusks and barnacles.	14	149 - 163

Lithologic Log of Well G-2340--Continued

Lat 26°14'58", long 80°49'47"

Description	Thick- ness (feet)	Depth, feet below land surface
Sand as above; about 25 to 30 percent shell fragments, mollusks, including <u>Pecten</u> sp., and barnacles.	3	163 - 166
Sand as above; about 20 percent phosphorite and heavy minerals, granules to very fine grained, moderately sorted (very fine), rounded to well rounded.	3	166 - 169
Sand as above; about 25 percent phosphorite and heavy minerals at 173 to 176 feet, granules to very fine grained, poorly sorted, rounded to well rounded; about 25 to 40 percent shell fragments; about 5 percent RF (at 169 to 173 feet), sandy siltstone, quartzose; about 10 percent phosphorite, very fine grained, micritic matrix.	7	169 - 176
Sand as above; about 20 percent shell fragments; about 15 percent silt.	3	176 - 179
Sand as above; about 15 percent shell fragments; about 10 to 15 percent clayey silt, dusky-yellow-green (5 GY 5/2).	4	179 - 183
Clay, grayish-olive (10 Y 4/2); silty, calcareous.	16	183 - 199

Lithologic Log of Well G-2341

Lat 26°13'43", long 80°17'58"  
T. 48 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, dark-yellowish-brown (10 YR 4/2); quartzose, fine to very fine grained, well sorted (fine), angular to rounded; about 5 percent phosphorite, fine to very fine grained, well sorted (very fine), subangular to rounded; about 5 to 10 percent organic material; interbedded with about 10 percent limestone, very pale orange (10 YR 8/2) and moderate-yellowish-brown (10 YR 5/4); sandy, packed biomicrite, mollusks; about 20 to 25 percent quartz, medium to very fine grained, moderately sorted (fine), angular to rounded; about 3 to 5 percent phosphorite and heavy minerals, fine grained, rounded to well rounded; well cemented.	3	0 - 3
Peat and soil; interbedded with about 30 to 40 percent limestone, very pale orange (10 YR 8/2), dark-yellowish-orange (10 YR 6/6), and light-brown (5 YR 5/6); sandy, fossiliferous micrite; about 25 to 30 percent quartz, medium to very fine grained, moderately sorted (fine), rounded; well cemented.	3	3 - 6
Limestone, yellowish-gray (5 Y 7/2), grayish-orange (10 YR 7/4), and light-brown (5 YR 5/6) to moderate-brown (5 YR 4/4), mottled; sandy, fossiliferous micrite, mollusks; about 25 percent quartz, coarse to very fine grained, moderately sorted (fine), subrounded to rounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), angular to well rounded; well cemented.	3	6 - 9
Limestone, very pale orange (10 YR 8/2), pale-yellowish-brown (10 YR 6/2), and medium-gray (N 5), mottled; sandy, fossiliferous dismicrite, mollusks and benthic foraminifers; about 30 percent quartz, coarse to very fine grained, poorly sorted, subrounded to rounded; about 3 percent phosphorite, fine to very fine grained, well sorted (fine), rounded to well rounded; well cemented; interbedded with about 40 percent sandy micrite, not cemented; about 30 percent quartz, fine to very fine grained, well sorted (very fine), subrounded to rounded; about 5 percent phosphorite, fine to very fine grained, well sorted (very fine), rounded to well rounded.	4	9 - 13
Limestone, yellowish-gray (5 Y 8/1) and light-olive-gray (5 Y 6/1); sandy, sparse dismicrite, mollusks and benthic foraminifers; about 30 percent quartz, coarse to very fine grained, moderately sorted (fine), subangular to subrounded; well cemented.	3	13 - 16
Limestone, very pale orange (10 YR 8/2), dark-yellowish-orange (10 YR 6/6), and light-olive-gray (5 Y 6/1), mottled; sandy, poorly washed biosparite, mollusks; about 30 to 35 percent quartz, coarse to very fine grained, well sorted (fine), subrounded to rounded; about 5 percent phosphorite and heavy minerals, very fine grained, angular to well rounded; well cemented; interbedded with about 20 percent sandy micrite, not cemented; about 35 to 40 percent quartz, medium to fine grained, moderately sorted (fine), subrounded to rounded.	3	16 - 19

Lithologic Log of Well G-2341--Continued

Lat 26°13'43", long 80°17'58"  
T. 48 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone, yellowish-gray (5 Y 7/2); quartzose, coarse to fine grained, well sorted (fine), subangular to rounded; about 10 to 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subangular to well rounded; about 20 to 25 percent shells and shell fragments, mollusks; about 20 to 30 percent sparite cement; interbedded with about 15 percent limestone as above.	4	19 - 23
Limestone, pale-yellowish-brown (10 YR 6/2) and olive-gray (5 Y 4/1); sandy, sparse biomicrite, mollusks including gastropods; about 30 percent quartz, fine to very fine grained, well sorted (fine), subangular to rounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), angular to well rounded; is in contact with a sandstone as above; well cemented; interbedded with a sandy, packed dismicrite; grading into a shelly sandstone, mollusks including gastropods, quartzose; about 10 percent phosphorite and heavy minerals, very coarse to very fine grained, moderately sorted (fine), subrounded to well rounded; well cemented.	3	23 - 26
Sandstone, yellowish-gray (5 Y 7/2) to light-olive-gray (5 Y 6/1); quartzose, fine to very fine grained, well sorted (fine), angular to rounded; about 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), rounded to well rounded; about 5 to 10 percent shell fragments, mollusks; about 30 percent micritic matrix; well cemented.	7	26 - 33
Sand, yellowish-gray (5 Y 7/2); quartzose, fine to very fine grained, well sorted (fine), subangular to subrounded; about 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subangular to well rounded; about 5 to 10 percent shell fragments; about 10 to 15 percent micrite, not cemented; interbedded with about 15 to 20 percent sandstone as above, nodular at 36 to 43 feet.	10	33 - 43
Sandstone as in 26 to 33 feet; nodular; about 25 percent shell fragments, mollusks, including <u>Chione</u> sp.	3	43 - 46
Sand as in 33 to 43 feet; interbedded with about 20 percent sandstone as in 26 to 33 feet.	3	46 - 49

Lithologic Log of Well G-2341--Continued

Lat 26°13'43", long 80°17'58"  
T. 48 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1); sandy, packed biomicrite, mollusks, including gastropods and benthic foraminifers; calcite cavity-filling cement is evident; about 35 percent quartz, medium to very fine grained, poorly sorted, subangular to subrounded; about 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), subrounded to well rounded; well cemented; interbedded with a sandy, fossiliferous micrite, medium-gray (N 5) and pale-yellowish-brown (10 YR 6/2); about 30 percent quartz, medium to very fine grained, moderately to well sorted (fine), subangular to subrounded; about 5 percent phosphorite, fine to very fine grained, well sorted (fine), rounded to well rounded; well cemented; interbedded with about 30 percent sand as above.	4	49 - 53
Limestone, pale-yellowish-brown (10 YR 6/2); sandy, sparse biomicrite, mollusks, including gastropods and <u>Chione</u> sp.; about 30 percent quartz, medium to very fine grained, well sorted (fine), subangular to subrounded; about 5 percent phosphorite, fine to very fine grained, well sorted (fine), rounded to well rounded; well cemented.	6	53 - 59
Limestone, light-olive-gray (5 Y 6/1) and grayish-orange (10 YR 7/4); sandy, packed biomicrite, mollusks, including gastropods (up to 3 inches); about 30 percent quartz, medium to fine grained, moderately sorted (fine), subangular to subrounded; about 5 percent phosphorite, coarse to very fine grained, moderately sorted (fine), subrounded to well rounded; loosely to well cemented.	4	59 - 63
Sandstone, yellowish-gray (5 Y 7/2); quartzose, medium to very fine grained, moderately sorted (fine), subrounded to rounded; about 20 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), rounded to well rounded; about 35 to 40 percent shells and shell fragments, mollusks including <u>Turritella</u> sp.; micritic matrix; loosely to moderately cemented.	6	63 - 69
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse intramicrite, mollusks, including <u>Turritella</u> sp., and both benthic and planktonic foraminifers; about 15 to 30 percent quartz, medium to very fine grained, moderately sorted (fine), subrounded to rounded; about 20 to 25 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), rounded to well rounded; loosely to well cemented.	10	69 - 79
Sand, light-olive-gray (5 Y 6/1); quartzose, medium to very fine grained, well sorted (fine), subangular to rounded; about 20 percent phosphorite and heavy minerals, fine grained, subrounded to well rounded; about 40 percent detrital carbonate and shell fragments, mollusks.	4	79 - 83

Lithologic Log of Well G-2341--Continued

Lat 26°13'43", long 80°17'58"  
T. 48 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, yellowish-gray (5 Y 7/2); detrital carbonate and shell fragments; about 20 to 25 percent quartz, coarse to very fine grained, poorly sorted, angular to subrounded; about 5 percent phosphorite, fine grained, rounded to well rounded.	3	83 - 86
Limestone, very pale orange (10 YR 8/2) and grayish-orange (10 YR 7/4); intraclastic, packed biomicrite, mollusks; loosely to well cemented.	7	86 - 93
Limestone as above; about 10 to 15 percent quartz, coarse to fine grained, moderately sorted (fine), subrounded to rounded; about 5 to 10 percent phosphorite, fine grained, well rounded; loosely to well cemented.	3	93 - 96
Limestone as above; interbedded with a sandy, packed intramicrite, mollusks including <u>Chione</u> sp.; about 10 percent quartz, coarse to very fine grained, moderately sorted (fine), subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to well rounded; well cemented.	10	96 - 106
Sand, light-olive-gray (5 Y 6/1); detrital carbonate and shell fragments; about 25 to 35 percent quartz, very coarse to very fine grained, poorly sorted, angular to well rounded; about 5 to 20 percent phosphorite and heavy minerals, very coarse to very fine grained, poorly sorted, subrounded to well rounded.	13	106 - 119
Sand, light-olive-gray (5 Y 6/1); quartzose, very coarse to fine grained, poorly sorted, subrounded to rounded; about 20 percent phosphorite, very coarse to very fine grained, poorly sorted, subrounded to rounded; about 30 percent detrital carbonate and shell fragments; interbedded with about 15 percent limestone, sandy, packed intramicrite, mollusks; about 25 percent quartz, very coarse to fine grained, poorly sorted, subrounded to rounded; about 20 percent phosphorite, granules to very fine grained, poorly sorted, rounded to well rounded; well cemented.	4	119 - 123
Sand, yellowish-gray (5 Y 7/2); detrital carbonate and shell fragments; about 35 percent quartz, granules to very fine grained, poorly sorted, subangular to well rounded; about 20 percent phosphorite and heavy minerals, very fine grained, poorly sorted, subrounded to rounded; cemented in places into a sandy, sparse intramicrite; well cemented.	3	123 - 126
Sand, yellowish-gray (5 Y 8/1); shell fragments, mollusks; about 30 percent quartz, coarse to very fine grained, poorly sorted, subrounded to well rounded; about 15 to 20 percent phosphorite, very coarse to very fine grained, poorly sorted, subrounded to well rounded; about 10 percent micrite (lime-mud); cemented in places.	10	126 - 136

Lithologic Log of Well G-2341--Continued

Lat 26°13'43", long 80°17'58"  
T. 48 S., R. 40 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Shell fragments, pale-olive (10 Y 6/2); about 30 percent quartz, granules to fine grained, moderately sorted (fine), subangular to rounded; about 5 percent phosphorite, very coarse to fine grained, poorly sorted, rounded to well rounded; about 25 to 30 percent clayey micrite, not cemented.	3	136 - 139
Silt, yellowish-gray (5 Y 7/2); interbedded with about 30 percent sand; quartzose, medium to very fine grained, moderately (fine) to poorly sorted; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to rounded.	4	139 - 143
Shell fragments as in 136 to 139 feet; lacking clayey micrite; about 25 to 30 percent silt; calcareous.	3	143 - 146
Silt, yellowish-gray (5 Y 7/2); quartzose; about 10 to 15 percent micrite, not cemented; about 25 percent quartz, medium to very fine grained, poorly sorted, subrounded; about 5 to 10 percent phosphorite, fine grained, subangular to well rounded; about 10 to 25 percent shell fragments.	10	146 - 156
Sand, light-olive-gray (5 Y 5/2); quartzose, fine grained to silt, moderately sorted (fine), angular to subangular; about 15 to 25 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; slightly calcareous; about 5 percent clay size particles; planktonic foraminifers were noted.	23	156 - 179
Silt, pale-olive (10 Y 6/2); about 30 percent quartz, very fine grained, subangular; about 15 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 10 percent micrite, not cemented.	10	179 - 189
Sand, light-olive-gray (5 Y 5/2); quartzose, very fine grained, subangular; about 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; about 30 percent silt; about 3 percent shell fragments; about 5 to 10 percent micrite, not cemented.	10	189 - 199
Silt as in 179 to 189 feet; about 5 to 10 percent micrite, not cemented.	4	199 - 203
Sand as in 189 to 199 feet; about 10 to 15 percent clay size particles, calcareous.	6	203 - 209

Lithologic Log of Well G-2342

Lat 26°13'48", long 80°12'20"  
Sec. 36, T. 48 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, dark-yellowish-brown (10 YR 4/2); quartzose, medium to fine grained, well sorted (fine), subangular to subrounded; coated with soil; interbedded with about 30 to 40 percent limestone, grayish-orange (10 YR 7/4); sandy, sparse bio-micrite, mollusks; about 30 to 45 percent quartz, coarse to fine grained, moderately sorted (fine), subangular to rounded; about 1 to 3 percent phosphorite, very fine grained, rounded to well rounded; well cemented.	3	0 - 3
Limestone as above, very pale orange (10 YR 8/2) and moderate-yellowish-brown (10 YR 4/2), mottled; about 25 to 35 percent quartz; interbedded with about 40 percent sand as above.	6	3 - 9
Limestone, very pale orange (10 YR 8/2), dark-yellowish-orange (10 YR 6/6), and medium-light-gray (N 6), mottled; sandy, sparse biosparite, mollusks; neomorphic calcite is present in tests; about 35 to 40 percent quartz, coarse to fine grained, moderately sorted (fine), subrounded to rounded; about 1 to 3 percent phosphorite, very fine grained, rounded; well cemented; interbedded with about 30 to 40 percent sandy micrite, not cemented; about 30 percent quartz, coarse to fine grained, well sorted (fine), subangular to rounded; about 1 to 3 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; about 1 percent shell fragments.	4	9 - 13
Sand, yellowish-gray (5 Y 7/2); quartzose, coarse to very fine grained, moderately to well sorted (very fine), angular to rounded; about 1 to 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 5 to 10 percent shell fragments, mollusks; about 10 to 30 percent micrite, not cemented; interbedded with about 40 to 45 percent limestone as above; about 35 to 45 percent quartz.	16	13 - 29
Sand as in 13 to 29 feet; about 15 to 20 percent shell fragments, mollusks, including <u>Chione</u> sp.; lacks micrite; interbedded with about 10 to 20 percent sandstone, medium-light-gray (N 6); quartzose, medium to very fine grained, well sorted (very fine), angular to subrounded; about 20 to 25 percent sparite matrix; about 10 to 15 percent shell fragments; rod-shape; grading into a sandy biosparite in places, about 80 to 90 percent shell fragments; well cemented.	7	29 - 36
Sand, pale-yellowish-brown (10 YR 6/2); quartzose, very coarse to fine grained, moderately sorted (fine), angular to rounded; about 1 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to rounded; about 10 to 30 percent silt, calcareous; about 0 to 3 percent shell fragments.	20	36 - 56
Sand as above; about 10 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (very fine), rounded to well rounded.	3	56 - 59

Lithologic Log of Well G-2342--Continued

Lat 26°13'48", long 80°12'20"  
Sec. 36, T. 48 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, pale-yellowish-brown (10 YR 6/2); quartzose, coarse to very fine grained, well sorted (medium) to moderately sorted (very fine) at 62 to 78 feet, subrounded to well rounded; about 5 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subrounded to well rounded; about 5 percent silt; cemented in places.	19	59 - 78
Sand as above; interbedded with limestone at 79.5 to 80 feet, yellowish-gray (5 Y 7/2); sandy, fossiliferous micrite, mollusks; neomorphic calcite is present in matrix; about 20 to 25 percent quartz, coarse and very fine grained, well sorted (very fine), angular to rounded; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented.	2	78 - 80
Limestone, yellowish-gray (5 Y 8/1) to medium-light-gray (N 6); sandy, sparse dismicrite, gastropods and burrow casts; about 20 percent quartz, coarse to very fine grained, moderately sorted (fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, coarse and fine grained to very fine grained, well sorted (fine), subrounded to well rounded; well cemented.	3	80 - 83
Limestone, yellowish-gray (5 Y 8/1); sandy, packed dismicrite, mollusks; about 25 to 30 percent quartz, coarse to very fine grained, poorly sorted, angular to rounded; about 10 percent phosphorite and heavy minerals, coarse and fine grained to very fine grained, well sorted (fine), subrounded to well rounded; interbedded with about 30 to 40 percent sand, detrital carbonate and shell fragments, coarse to very fine grained, well sorted (very fine), subangular to rounded; about 30 percent quartz, coarse to very fine grained, moderately sorted (fine), angular to rounded; about 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded.	3	83 - 86
Sand as above; interbedded with about 40 to 50 percent limestone as above.	3	86 - 89
Sand, medium-gray (N 5); quartzose, coarse to very fine grained, well sorted (very fine), angular to rounded; about 15 to 20 percent phosphorite and heavy minerals, fine to very fine grained well sorted (very fine), subrounded to well rounded; about 15 to 20 percent detrital carbonate and shell fragments, very fine grained, subangular.	4	89 - 93
Sandstone, medium-light-gray (N 6) to medium-gray (N 5); quartzose, very fine grained, angular to subangular; about 10 to 15 percent phosphorite and heavy minerals, very fine grained, angular to well rounded; about 15 to 20 percent detrital carbonate, very fine grained, subangular; about 30 to 40 percent sparite matrix; well cemented.	3	93 - 96

Lithologic Log of Well G-2342--Continued

Lat 26°13'48", long 80°12'20"  
Sec. 36, T. 48 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 8/1); sandy, poorly washed intrasparite; about 20 to 25 percent quartz, coarse to very fine grained, moderately sorted (fine), subangular to rounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, subangular to well rounded; well cemented.	7	96 - 103
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); sandy, sparse intrasparite, mollusks; about 25 to 30 percent quartz, coarse to fine grained, moderately sorted (fine), angular to rounded; about 5 percent phosphorite, medium to very fine grained, moderately sorted (fine), subangular to well rounded; moderately to well cemented; interbedded with about 30 to 40 percent sand, detrital carbonate; about 30 to 35 percent quartz, coarse to fine grained, moderately sorted (fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), subangular to well rounded.	3	103 - 106
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); sandy, sparse intrasparite, mollusks; about 25 to 30 percent quartz, very coarse to fine grained, poorly sorted, angular to rounded; about 3 to 10 percent phosphorite and heavy minerals, coarse to fine grained, moderately sorted (fine), subangular to well rounded; moderately to well cemented; interbedded with about 30 percent sand as above.	20	106 - 126
Limestone as in 80 to 83 feet; well cemented; interbedded with about 30 to 40 percent sand as above.	3	126 - 129
Limestone as in 106 to 126 feet; interbedded with about 40 percent sand as above.	4	129 - 133
Limestone, light-olive-gray (5 Y 6/1); sandy, fossiliferous, poorly washed intrasparite; about 25 to 30 percent quartz, coarse to very fine grained, well sorted (very fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded; moderately to well cemented.	3	133 - 136
Limestone, light-olive-gray (5 Y 6/1) to medium-gray (N 5); sandy, sparse intrasparite, mollusks; about 30 to 35 percent quartz, coarse to very fine grained, moderately sorted (medium), subrounded to rounded; about 5 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (very fine), subrounded to well rounded; well cemented.	3	136 - 139
Limestone, light-olive-gray (5 Y 6/1) to medium-gray (N 5); sandy, packed intrasparite, mollusks; about 20 to 30 percent quartz, coarse to very fine grained, moderately sorted (fine), angular to rounded; about 3 to 5 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subrounded to well rounded; moderately to well cemented.	10	139 - 149

Lithologic Log of Well G-2342--Continued

Lat 26°13'48", long 80°12'20"  
Sec. 36, T. 48 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 8/1); sandy, sparse intramicrite, mollusks, including <u>Pecten</u> sp., and serpulids; about 15 to 20 percent quartz, coarse to very fine grained, poorly sorted, subangular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded; moderately to well cemented.	7	149 - 156
Limestone, yellowish-gray (5 Y 8/1) to medium-light-gray (N 6); sandy, fossiliferous intrasparite, mollusks; about 20 to 25 percent quartz, coarse to very fine grained, moderately sorted (very fine), angular to rounded; about 15 percent phosphorite and heavy minerals, coarse to very fine grained, well sorted (very fine), subrounded to well rounded; moderately to well cemented.	3	156 - 159
Limestone, yellowish-gray (5 Y 8/1) to medium-light-gray (N 6); sandy, sparse intrasparite, mollusks; about 20 to 30 percent quartz, coarse to very fine grained, moderately to well sorted (very fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subrounded to well rounded; moderately to well cemented.	17	159 - 176
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse intramicrite, mollusks, including <u>Turritella</u> sp.; about 25 to 30 percent quartz, coarse to very fine grained, moderately sorted (fine to very fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subrounded to well rounded; loosely to moderately cemented.	23	176 - 199
Limestone as above; grading into a silty, sandy, sparse intramicrite, echinoid fragments; about 35 to 40 percent quartz at 209 to 213 feet.	17	199 - 216
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to very fine grained, moderately sorted (fine), angular to rounded; about 5 percent phosphorite and heavy minerals, very coarse to very fine grained, moderately to well sorted (very fine), subrounded; about 20 to 35 percent shell fragments and detrital carbonate, very coarse to very fine grained, moderately to well sorted (very fine), subangular to rounded, echinoid spines and fragments, and barnacles; interbedded with about 5 percent limestone as above.	10	216 - 226
Limestone, pale-olive (10 Y 6/2); sandy, silty intramicrite; about 20 to 25 percent quartz, coarse to very fine grained, moderately sorted (fine), subangular to subrounded; about 5 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subrounded to well rounded; loosely cemented.	10	226 - 236

Lithologic Log of Well G-2342--Continued

Lat 26°13'48", long 80°12'20"  
Sec. 36, T. 48 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to very fine grained, moderately sorted (fine), angular to rounded; about 3 to 10 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (very fine), subrounded to well rounded; about 25 to 35 percent shell fragments and detrital carbonate, coarse to very fine grained, moderately sorted (medium), subangular to rounded; interbedded with about 5 percent limestone, sandy, intraclastic, silty micrite, not cemented, at 240 feet.	23	236 - 259
Sand, light-olive-gray (5 Y 6/1) to dusky-yellow (5 Y 6/4); quartzose, coarse to very fine grained, well sorted (very fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; about 25 to 30 percent detrital carbonate, medium to very fine grained, moderately sorted (very fine), subrounded to rounded; interbedded with about 5 percent limestone, sandy, intraclastic, silty micrite, not cemented.	10	259 - 269
Sand as in 236 to 259 feet.	4	269 - 273
Sand, light-olive-gray (5 Y 6/1) to grayish-olive (10 Y 4/2); quartzose, medium to silt (calcareous), moderately sorted (very fine), angular to subangular; about 10 percent phosphorite and heavy minerals, fine grained, subrounded to rounded; about 20 to 35 percent shell fragments and detrital carbonate, fine to very fine grained, well sorted (fine), rounded to well rounded; at 276 to 279 feet, coarse to fine grained, moderately sorted (coarse), subangular; mollusks and bryozoans.	6	273 - 279
Sand, light-olive-gray (5 Y 5/2); quartzose, coarse to very fine grained, moderately sorted (fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, coarse to very fine grained, well sorted (fine to very fine), subangular to well rounded; about 20 to 25 percent shell fragments and detrital carbonate, coarse to very fine grained, moderately sorted (fine), subangular to rounded; echinoid spines and foraminifers.	7	279 - 286

Lithologic Log of Well G-2342--Continued

Lat 26°13'48", long 80°12'20"  
 Sec. 36, T. 48 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-olive-gray (5 Y 5/2); quartzose, coarse to very fine grained, well sorted (very fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to well rounded; about 20 to 25 percent shell fragments and detrital carbonate, coarse to very fine grained, moderately sorted (fine), subangular to rounded; about 5 percent RF, sandy intrasparite.	3	286 - 289
Sand, grayish-olive (10 Y 4/2); quartzose, coarse to silt (calcareous), moderately sorted (very fine), angular to rounded; about 10 to 20 percent shell fragments and detrital carbonate, coarse to very fine grained, poorly sorted, subrounded; mollusks.	7	289 - 296
Silt, dusky-yellow-green (5 GY 5/2); about 25 to 30 percent quartz, very fine grained, angular to subangular; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 10 to 15 percent micrite, not cemented; clayey at 299 to 306 feet.	10	296 - 306
No recovery.	3	306 - 309

Lithologic Log of Well G-2344

Lat 26°14'23", long 80°07'15"  
Sec. 35, T. 48 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, very pale orange (10 YR 8/2), pale-yellowish-brown (10 YR 6/2), dark-yellowish-orange (10 YR 6/6), and grayish-orange (10 YR 7/4); quartzose, coarse to fine grained, moderately sorted (fine), subangular to subrounded; about 1 percent heavy minerals, fine grained, subrounded.	13	0 - 13
Sand as above; interbedded with limestone, very pale orange (10 YR 8/2); sandy, intraclastic, sparse biomicrite, mollusks and benthic foraminifers; about 20 percent quartz, coarse to very fine grained, moderately sorted (very fine), angular to subrounded; about 1 percent phosphorite and heavy minerals, very fine grained, subrounded; well cemented.	3	13 - 16
Limestone, very pale orange (10 YR 8/2) and dark-yellowish-orange (10 YR 6/1); sandy, fossiliferous micrite grading into a sandy, sparse dismicrite in places, mollusks; about 25 to 30 percent quartz, medium to very fine grained, well sorted (very fine), subangular to rounded; about 1 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 20 to 35 percent porosity, interparticle, well cemented; interbedded with about 30 percent sand as above.	3	16 - 19
Sand as in 0 to 13 feet; interbedded with limestone; sandy, sparse dismicrite as above, at 19 feet.	4	19 - 23
Sand, grayish-yellow (5 Y 8/4); quartzose, medium to very fine grained, well sorted (fine), angular to subrounded; about 1 percent phosphorite and heavy minerals, very fine grained, subangular to rounded.	3	23 - 26
Sand as in 0 to 13 feet; about 5 percent micrite, not cemented; about 3 percent phosphorite, very fine grained, subangular to rounded; about 20 to 35 percent silt at 33 to 49 feet.	23	26 - 49
Limestone, very pale orange (10 YR 8/2) to grayish-orange (10 YR 7/4); sandy, intraclastic, poorly washed biosparite, mollusks; about 30 to 35 percent quartz, very fine grained, subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented; interbedded with sand at 52.5 to 53 feet; quartzose, coarse and very fine grained, well sorted (very fine), subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 25 percent shell fragments and detrital carbonate, medium to fine grained (medium), rounded.	9	49 - 58
Limestone, very pale orange (10 YR 8/2), dusky-yellow (5 Y 6/4), and grayish-orange (10 YR 7/4); sandy, fossiliferous sparite, mollusks; about 30 to 40 percent quartz, coarse to fine grained, poorly sorted, angular to rounded; about 3 to 5 percent heavy minerals, very fine grained, subangular to rounded; well cemented.	1	58 - 59

Lithologic Log of Well G-2344--Continued

Lat 26°14'23", long 80°07'15"  
Sec. 35, T. 48 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 7/2) and dark-yellowish-orange (10 YR 6/6); sandy intrasparite; about 35 percent quartz, coarse to very fine grained, well sorted (very fine), angular to subangular and rounded; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented; interbedded with sand at 59 to 59.5 feet; quartzose, very fine grained, angular; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; about 5 percent detrital carbonate, very fine grained, subrounded.	4	59 - 63
Limestone, yellowish-gray (5 Y 7/2), very pale orange (10 YR 8/2), and dark-yellowish-orange (10 YR 6/6), mottled; sandy, sparse biosparite, mollusks and benthic foraminifers; about 35 percent quartz, coarse to very fine grained, moderately sorted (very fine), angular to rounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to rounded; grading into a sandstone; quartzose, coarse to very fine grained, poorly sorted, angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (very fine), subrounded to well rounded; about 20 percent shell fragments, mollusks; sparite matrix; loosely to well cemented.	3	63 - 69
Limestone, yellowish-gray (5 Y 8/1); sandy intramicrite; about 25 to 30 percent quartz, medium to very fine grained, well sorted (medium), angular to rounded; about 5 percent phosphorite and heavy minerals, medium to fine grained, well sorted (medium), subangular to rounded; moderately to well cemented; interbedded with sand at 70 to 73 feet; quartzose, coarse to fine grained, moderately sorted (medium), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine grained, subangular to well rounded; about 10 percent detrital carbonate and shell fragments, coarse and fine grained, well sorted (fine), rounded.	14	69 - 83
Limestone, yellowish-gray (5 Y 7/2); sandy intrasparite; about 25 to 30 percent quartz, medium to very fine grained, well sorted (medium), angular to rounded; about 5 percent phosphorite and heavy minerals, medium to fine grained, well sorted (medium), subangular to rounded; moderately to well cemented.	3	83 - 86
Limestone, yellowish-gray (5 Y 7/2); sandy intramicrite; about 20 to 30 percent quartz, medium to very fine grained, moderately sorted (very fine), angular to rounded; about 5 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; well cemented.	7	86 - 93

Lithologic Log of Well G-2344--Continued

Lat 26°14'23", long 80°07'15"  
Sec. 35, T. 48 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 7/2) to grayish-orange (10 YR 7/4); sandy, fossiliferous intrasparite, mollusks and coral at 103 to 106 feet; about 30 percent quartz, coarse to very fine grained, poorly sorted to well sorted (very fine) at 99 to 109 feet, angular to rounded; about 3 to 10 percent phosphorite and heavy minerals, coarse to very fine grained, moderately to well sorted (fine); well cemented.	16	93 - 109
Limestone, very pale orange (10 YR 8/2); intraclastic, sparse biosprite, abundant in coral; about 15 to 20 percent quartz, coarse to very fine grained, moderately sorted (very fine), subangular to rounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented.	4	109 - 113
Limestone, very pale orange (10 YR 8/2); sandy, packed intrasparite, abundant in coral and bryozoan; about 25 percent quartz, coarse to medium grained, well sorted (medium), rounded; about 5 to 10 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, rounded to well rounded; well cemented.	3	113 - 116
Limestone, very pale orange (10 YR 8/2) to light-olive-gray (5 Y 5/2); sandy, fossiliferous intrasparite; about 25 percent quartz, coarse to fine grained, well sorted (medium), rounded; about 5 to 10 percent phosphorite, coarse to very fine grained, moderately sorted (medium), rounded to well rounded; well cemented.	7	116 - 123
Limestone as above; grading into a sandy sparite in places; about 30 to 35 percent quartz, very fine grained, subangular to subrounded; about 10 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (medium), subangular to rounded; well cemented.	6	123 - 129
Sandstone, light-olive-gray (5 Y 5/2); quartzose, fine to very fine grained, well sorted (very fine), subangular to rounded; about 10 to 15 percent phosphorite and heavy minerals, subangular to rounded; about 20 percent shell fragments and detrital carbonate, coarse to very fine grained, moderately sorted (very fine), subrounded; about 15 to 20 percent sparite matrix, nodular; well cemented; interbedded with sand; quartzose, very fine grained, angular to subangular; about 10 to 20 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; about 10 to 15 percent shell fragments and detrital carbonate, very fine grained, subrounded.	17	129 - 146
Sandstone, yellowish-gray (5 Y 7/2) to light-olive-gray (5 Y 5/2); quartzose, coarse to very fine grained, well sorted (very fine), angular to rounded; about 10 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (very fine), subrounded to rounded; about 20 percent shells and shell fragments; well cemented.	3	146 - 149

Lithologic Log of Well G-2344--Continued

Lat 26°14'23", long 80°07'15"  
Sec. 35, T. 48 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 7/2) to light-olive-gray (5 Y 5/2) and light-olive-brown (5 Y 5/6); sandy intrasparite; about 30 to 35 percent quartz, coarse to very fine grained, well sorted (very fine), angular to rounded; about 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subrounded to well rounded; well cemented.	4	149 - 153
Limestone, yellowish-gray (5 Y 7/2) to dusky-yellow (5 Y 6/4); sandy, sparse intrasparite, mollusks; about 25 to 30 percent quartz, coarse to fine grained, moderately sorted (fine), rounded; about 10 percent phosphorite and heavy minerals, coarse to very fine grained, well sorted (very fine), subrounded to well rounded; well cemented.	3	153 - 156
Limestone as above; grading into a sandy sparite, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); about 25 to 30 percent quartz, very fine grained, angular to subangular; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, angular to rounded; well cemented.	3	156 - 158
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to very fine grained, moderately sorted (fine), angular to rounded; about 10 to 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded; about 20 percent detrital carbonate, coarse to fine grained, moderately sorted (fine), subangular to subrounded.	1	158 - 159
Limestone as in 156 to 158 feet; displaying banding, concentration of heavy minerals and phosphorite; grading into a limestone as in 153 to 156 feet.	4	159 - 163
Limestone, light-olive-gray (5 Y 6/1) to medium-gray (N 5); sandy, fossiliferous intrasparite; about 25 to 30 percent quartz, very coarse to very fine grained, moderately sorted (very fine), angular to rounded; about 15 percent phosphorite and heavy minerals, coarse to very fine grained, well sorted (very fine), subangular to rounded; well cemented; interbedded with sand at 164.5 to 165.5 feet; quartzose, very fine grained, angular; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; about 5 percent detrital carbonate, very fine grained, subrounded.	3	163 - 166
Sand as above; interbedded with limestone, sandy sparite at 166 to 167 feet and 170 to 172.5 feet; about 35 to 40 percent quartz, very fine grained, angular to subangular; about 10 percent quartz, very fine grained, angular to subangular; about 10 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; well cemented.	7	166 - 173

Lithologic Log of Well G-2344--Continued

Lat 26°14'23", long 80°07'15"  
Sec. 35, T. 48 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); quartzose, very fine grained, angular to subangular; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; about 10 to 15 percent detrital carbonate and shell fragments, very fine grained, subrounded; about 15 to 20 percent sparite matrix; well cemented; interbedded with sand as above.	3	173 - 176
Limestone interbedded with sand, both as in 166 to 173 feet.	10	176 - 186
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); sandy, intraclastic, sparse biosparite, mollusks; about 25 percent quartz, very coarse to very fine grained, poorly sorted, angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, very coarse to very fine grained, poorly sorted, rounded to well rounded; well cemented; is a contact with a sandy, sparse biomicrite, yellowish-gray (5 Y 8/1), mollusks; about 15 percent quartz, medium to very fine grained, moderately sorted (fine), subrounded to rounded; about 5 percent phosphorite, medium to very fine grained, well sorted (very fine), rounded to well rounded; well cemented.	3	186 - 189
Limestone, yellowish-gray (5 Y 8/1); sandy, sparse biomicrite, mollusks; about 20 percent quartz, coarse to very fine grained, poorly sorted, subrounded to rounded; about 5 to 10 percent phosphorite, coarse to very fine grained, moderately sorted (fine), rounded to well rounded; well cemented.	4	189 - 193
Limestone, light-olive-gray (5 Y 6/1); sandy intrasparite; about 25 to 35 percent quartz, coarse to very fine grained, poorly sorted to well sorted (fine) at 196 to 203 feet; about 5 to 15 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted to well sorted at 196 to 203 feet, subrounded to well rounded; well cemented.	10	193 - 203
Limestone as above; grading into a sandy, fossiliferous intrasparite, mollusks, including gastropods.	10	203 - 213
Limestone as in 193 to 203 feet; is a contact with a sandy micrite; about 30 to 35 percent quartz, very fine grained, angular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented.	3	213 - 216
Sandstone, light-gray (N 7) to medium-gray (N 5); quartzose, very fine grained, angular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; about 5 to 10 percent detrital carbonate, fine to very fine grained, well sorted (fine), subangular to subrounded; about 20 percent sparite matrix; well cemented.	3	216 - 219

Lithologic Log of Well G-2344--Continued

Lat 26°14'23", long 80°07'15"  
Sec. 35, T. 48 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-gray (N 7) to medium-gray (N 5); quartzose, very fine grained, angular; about 15 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; interbedded with about 40 percent sandstone as above.	4	219 - 223
Limestone as in 203 to 213 feet, sandy, fossiliferous intra-sparite; well cemented; interbedded with about 20 to 30 percent sand as above; about 10 to 15 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (very fine), subangular to well rounded; about 5 percent detrital carbonate, medium grained, subrounded.	3	223 - 226
Sandstone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); quartzose, medium to fine grained, well sorted (fine), subangular to rounded; about 10 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (very fine), subrounded to well rounded; about 40 percent shells and shell fragments, mollusks; about 5 to 25 percent sparite matrix; well cemented; interbedded with about 20 percent sand as above at 226 to 229 feet.	7	226 - 233
Sandstone as in 216 to 219 feet; interbedded with sand as above at 233.5 to 235 feet and at 238 to 238.5 feet.	6	233 - 239
Sandstone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); quartzose, coarse to very fine grained, well sorted (very fine), angular to rounded; about 10 percent phosphorite and heavy minerals, including iron-rich minerals, medium to very fine grained, well sorted (very fine), subrounded to well rounded; about 10 to 15 percent detrital carbonate, medium to very fine grained, well sorted (very fine), subrounded to rounded; about 20 to 30 percent sparite matrix; well cemented; interbedded with sand at 245.5 feet; quartzose, coarse to very fine grained, moderately sorted (fine), angular to rounded; about 5 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), subrounded to well rounded; about 3 to 5 percent detrital carbonate, medium to very fine grained, well sorted (very fine), subrounded to rounded.	7	239 - 246
Sand, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); quartzose, medium to very fine grained, well sorted (very fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subangular to rounded; about 3 percent detrital carbonate, very fine grained, rounded; hard layer at 248.5 feet, no recovery.	3	246 - 249
Missing.	4	249 - 253

Lithologic Log of Well G-2344--Continued

Lat 26°14'23", long 80°07'15"  
Sec. 35, T. 48 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone as in 216 to 219 feet; about 10 percent shell fragments, mollusks, at 266 to 276 feet; about 10 percent micritic matrix in places; well cemented; interbedded with about 20 to 40 percent sand as in 219 to 223 feet.	23	253 - 276
Sandstone as above; about 40 percent shell fragments, <u>Ostrea</u> sp.; interbedded with about 10 to 20 percent sand as above.	7	276 - 283
Sandstone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); quartzose, medium to very fine grained, well sorted (fine), angular to rounded; about 5 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subrounded to well rounded; about 3 to 5 percent detrital carbonate, fine grained, subrounded; about 15 to 25 percent shell fragments, mollusks; about 5 to 25 percent sparite matrix; well cemented.	6	283 - 289
Sandstone, light-gray (N 7) to medium-light-gray (N 6); quartzose, very fine grained, angular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 5 to 20 percent shell fragments; about 10 to 15 percent detrital carbonate, very fine grained, angular to subangular; about 5 to 10 percent sparite matrix; well cemented; interbedded with sand at 298.5 to 299 feet; quartzose, very fine grained, angular; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; about 5 to 10 percent detrital carbonate, very fine grained, subangular.	10	289 - 299
Sandstone, light-olive-gray (5 Y 6/1); quartzose, very fine grained, angular to subangular; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 3 to 5 percent shell fragments; about 20 to 30 percent sparite matrix; well cemented; interbedded with about 20 to 40 percent sand as above; about 15 to 20 percent detrital carbonate at 306 to 309 feet, medium to very fine grained, well sorted (medium), rounded.	10	299 - 309
Limestone, yellowish-gray (5 Y 8/1); sandy, sparse intrasparite, mollusks; about 15 percent quartz, medium to very fine grained, moderately sorted (fine), subrounded to rounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; well cemented; interbedded with about 10 percent limestone at 313 to 316 feet, pale-olive (10 Y 6/2); sandy, fossiliferous intramicrite; about 20 percent quartz, coarse and very fine grained, moderately sorted (very fine), angular to rounded; about 3 to 5 percent phosphorite, fine grained, subrounded to well rounded; well cemented.	7	309 - 316

Lithologic Log of Well G-2344--Continued

Lat 26°14'23", long 80°07'15"  
Sec. 35, T. 48 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 5/) and medium-light-gray (N 6); sandy, sparse intramicrite and sandy, sparse intrasparite at 319 feet; intraclasts are black in color and contain pyrite; mollusks, barnacles, and echinoid spines; about 25 to 35 percent quartz, very coarse to very fine grained, poorly sorted, angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), subrounded to well rounded; well cemented.	3	316 - 319
Limestone as in 309 to 316 feet; interbedded with limestone as above; sandy, sparse intramicrite.	4	319 - 323
Sand, medium-light-gray (N 6); quartzose, very coarse to very fine grained, poorly sorted, angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), subrounded to well rounded; about 20 percent shell fragments, mollusks, echinoid spines, and foraminifers; interbedded with limestone as above.	3	323 - 326
Limestone, light-olive-gray (5 Y 5/2); sandy, fossiliferous micrite, mollusks; about 25 to 30 percent quartz, medium to very fine grained, well sorted (fine), angular to rounded; about 5 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), subrounded to well rounded; well cemented.	3	326 - 329
Limestone, yellowish-gray (5 Y 7/2) to light-olive-gray (5 Y 5/2); sandy micrite; about 30 to 35 percent quartz, medium to very fine grained, well sorted (very fine), subangular to rounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, rounded; moderately to well cemented.	4	329 - 333
Sandstone, yellowish-gray (5 Y 7/2); quartzose, medium to very fine grained, well sorted (very fine), angular to rounded; about 5 percent phosphorite and heavy minerals, very fine grained, rounded; about 25 percent detrital carbonate, very fine grained, subangular; about 5 to 20 percent sparite matrix; well cemented; interbedded with about 50 percent sand at 339 to 343 feet; quartzose, very fine grained, angular; about 10 percent phosphorite and dark minerals, very fine grained, subrounded to well rounded; about 3 to 10 percent detrital carbonate, very fine grained, subrounded.	13	333 - 346
Sandstone as above, pale-olive (10 Y 6/2); about 30 to 50 percent dismicrite to sparite matrix; interbedded with about 30 to 50 percent sand as above, echinoid spines and shark teeth.	17	346 - 363

Lithologic Log of Well G-2344--Continued

Lat 26°14'23", long 80°07'15"  
Sec. 35, T. 48 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand as above; interbedded with about 40 percent sandstone as above; about 5 percent shell fragments, mollusks; grading into a limestone, pale-olive (10 Y 6/2); intraclastic, fossiliferous micrite, mollusks; about 15 percent quartz, coarse to very fine grained, moderately sorted (very fine), angular to rounded; about 3 to 5 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), rounded to well rounded; well cemented.	3	363 - 366
Sand, light-gray (N 7); quartzose, very coarse to coarse and very fine grained, well sorted (very fine), angular to rounded; about 15 percent phosphorite and heavy minerals, coarse to very fine grained, well sorted (very fine), subangular to well rounded; about 10 percent detrital carbonate, granules to very fine grained, poorly sorted, subangular to subrounded; foraminifers were noted; interbedded with limestone as above at 367.5 to 369 feet and 371 feet and about 10 percent at 376 to 379 feet.	20	366 - 386
Sand, light-gray (N 7); quartzose, very fine grained, angular; about 15 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; about 30 percent detrital carbonate, very fine grained, subangular to subrounded; cemented in places into a friable limestone, sandy micrite.	3	386 - 389
Limestone, pale-olive (10 Y 6/2) to dusky-yellow-green (5 GY 5/2); sandy micrite; about 25 percent quartz, medium to very fine grained, well sorted (very fine), angular to rounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; moderately cemented.	4	389 - 393
Limestone, pale-olive (10 Y 6/2); sandy intramicrite; about 20 to 30 percent quartz, very fine grained, angular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; moderately to well cemented.	23	393 - 416
Limestone, light-olive-gray (5 Y 5/2); sandy intrasparite; about 35 to 40 percent quartz, coarse to very fine grained, well sorted (very fine), angular to rounded; about 5 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; well cemented.	3	416 - 419

Lithologic Log of Well G-2344--Continued

Lat 26°14'23", long 80°07'15"  
 Sec. 35, T. 48 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1); sandy, sparse intrasparite, mollusks; about 35 to 40 percent quartz, coarse to very fine grained, well sorted (very fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; well cemented.	7	419 - 426
Limestone as in 393 to 416 feet.	3	426 - 429
Limestone, pale-olive (10 Y 6/2); sandy, sparse intramicrite, mollusks; about 20 percent quartz, very fine grained, angular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; moderately to well cemented.	4	429 - 433
Limestone as in 393 to 416 feet.	6	433 - 439
Limestone as in 419 to 426 feet; moderately to well cemented.	7	439 - 446
Limestone as in 393 to 416 feet.	13	446 - 459
Limestone as in 429 to 433 feet.	4	459 - 463
Limestone as in 393 to 416 feet.	3	463 - 466
Limestone as in 429 to 433 feet.	3	466 - 469
Limestone as in 393 to 416 feet.	7	469 - 476

Lithologic Log of Well G-2345

Lat 26°06'41", long 80°12'35"  
Sec. 12, T. 50 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, pale-yellowish-brown (10 YR 6/2), dark-yellowish-brown (10 YR 4/2), moderate-brown (5 YR 3/4), and grayish-brown (5 Y 3/2); quartzose, medium to fine grained, well sorted (fine), angular to subrounded; about 1 to 3 percent phosphorite, fine grained, subrounded to rounded.	13	0 - 13
Sand as above; interbedded with about 20 percent sandstone, quartzose, medium to very fine grained, well sorted (fine), angular to rounded; about 20 percent micrite matrix; about 5 to 10 percent shells, pelecypods; about 3 to 5 percent phosphorite, very fine grained, rounded.	3	13 - 16
Sand as in 0 to 3 feet; about 5 to 10 percent silty micrite, not cemented; about 3 to 5 percent detrital carbonate.	3	16 - 19
Limemud, pale-yellowish-brown (10 YR 6/2); silty micrite, not cemented; about 40 percent quartz, medium to very fine grained, moderately sorted (very fine), subangular to rounded; about 1 to 3 percent phosphorite, very fine grained, rounded.	4	19 - 23
Sand, pale-yellowish-brown (10 YR 6/2); quartzose, medium to very fine grained, well sorted (fine), angular to rounded; about 1 to 3 percent phosphorite, very fine grained, rounded.	3	23 - 26
Limemud, pale-yellowish-brown (10 YR 6/2); about 40 percent quartz, fine to very fine grained, well sorted (very fine), subangular to rounded; about 1 to 3 percent phosphorite, very fine grained, rounded.	3	26 - 29
Sand, pale-yellowish-brown (10 YR 6/2); quartzose, medium to very fine grained, moderately sorted, (fine), angular to rounded; about 30 percent silty micrite, not cemented.	4	29 - 33
Sand, very pale orange (10 YR 8/2) and yellowish-gray (5 Y 8/1); quartzose, fine to very fine grained, well sorted (fine), angular to subangular; about 5 to 10 percent silty micrite, not cemented.	6	33 - 39
Sand, yellowish-gray (5 Y 7/2); quartzose, medium to very fine grained, well sorted (fine), angular to rounded; about 3 to 10 percent silty micrite, not cemented; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to subrounded.	7	39 - 46
Sand, very pale orange (10 YR 8/2); quartzose, medium to fine grained, well sorted (fine), angular to rounded; about 5 percent phosphorite, medium to very fine grained, well sorted (very fine), angular to well rounded.	3	46 - 49

Lithologic Log of Well G-2345--Continued

Lat 26°06'41", long 80°12'35"  
Sec. 12, T. 50 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, yellowish-gray (5 Y 7/2); quartzose, coarse to fine grained, well sorted (fine), subrounded to rounded; about 5 to 10 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (fine), very angular to rounded; about 1 to 3 percent silty micrite; interbedded with about 10 to 15 percent sandy siltstone, yellowish-gray (5 Y 7/2) and grayish-black (N 2); about 35 to 40 percent quartz, medium to very fine grained, poorly sorted, angular to rounded; about 50 to 55 percent calcareous matrix consisting of a black and yellow mineral; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subangular to well rounded; well cemented.	4	49 - 53
Sand, yellowish-gray (5 Y 7/2); quartzose, medium to very fine grained, moderately sorted (fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), angular to well rounded; about 5 to 10 percent calcareous silt, quartzose.	3	53 - 56
Sand as above; about 20 percent phosphorite and heavy minerals, coarse to very fine grained, well sorted (fine), subangular to well rounded; about 3 to 5 percent calcareous silt.	2.5	56 - 58.5
Limestone, very pale orange (10 YR 8/2); sandy micrite; about 20 to 25 percent quartz, coarse to very fine grained, moderately sorted (fine), angular to rounded; about 15 to 20 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subangular to well rounded; interbedded with fossiliferous micrite to sandy, fossiliferous micrite; about 5 to 10 percent quartz, very fine grained, subangular, coated with red silt; well cemented.	.5	58.5 - 59
Limestone, very pale orange (10 YR 8/2) and grayish-orange (10 YR 7/4); mixture: sandy, fossiliferous intramicrite, sandy dismicrite, and a sandy micrite grading into a sandstone in places; neomorphic calcite and subaerial features evident; serpulids and pellets; about 20 to 40 percent quartz, fine to very fine grained, well sorted (fine), angular to rounded; about 10 to 15 percent phosphorite, fine to very fine grained, well sorted (fine), subangular to well rounded; moderately to well cemented.	4	59 - 63
Limestone, yellowish-gray (5 Y 7/2); sandy, fossiliferous micrite, gastropods and pelecypods; about 20 to 30 percent quartz, fine to very fine grained, subangular to rounded; about 5 to 10 percent phosphorite, medium to very fine grained, moderately sorted (fine), subrounded to rounded; loosely to well cemented; interbedded with about 30 percent sand as in 56 to 58.5 feet.	6	63 - 69

Lithologic Log of Well G-2345--Continued

Lat 26°06'41", long 80°12'35"  
Sec. 12, T. 50 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 7/2); sandy, packed intrasparite; about 15 to 20 percent quartz, coarse to very fine grained, poorly sorted, angular to rounded; about 5 to 10 percent phosphorite, coarse to very fine grained, moderately sorted (fine), subangular to well rounded; calcite cavity-filling cement is present at 76 to 79 feet; loosely to well cemented.	10	69 - 79
Limestone as above; about 5 to 10 percent quartz; interbedded with sandy, pellettiferous intramicrite; calcite cavity-filling cement is present; about 30 percent quartz, very fine grained, angular; about 5 to 10 percent phosphorite, very fine grained, well rounded; well cemented.	4	79 - 83
Sandstone, light-gray (N 7) to very light-gray (N 8); nodular; quartzose, very fine grained, angular to subangular; about 20 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 10 percent sparite matrix; well cemented.	3	83 - 86
Limestone, yellowish-gray (5 Y 7/2); sandy intrasparite; about 20 to 30 percent quartz, very coarse to fine grained, moderately sorted (fine), subangular to rounded; about 10 to 15 percent phosphorite, very coarse to very fine grained, poorly sorted, subangular to well rounded; loosely to well cemented; grading into a very sandy sparite to a sandstone in places; about 40 to 55 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; well cemented.	3	86 - 89
Limestone, yellowish-gray (5 Y 7/2); sandy, pellettiferous intrasparite; about 20 to 25 percent quartz, fine to very fine grained, angular to subangular; about 20 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; loosely to well cemented.	4	89 - 93
Limestone, yellowish-gray (5 Y 7/2); sandy intrasparite; about 30 percent quartz, medium to fine grained, moderately sorted (fine), subangular to rounded; about 10 to 15 percent phosphorite and heavy minerals, including iron-rich minerals, fine grained, subrounded to well rounded; loosely to well cemented.	3	93 - 96
Limestone, light-olive-gray (5 Y 6/1); sandy, intraclastic pel-sparite; intraclastics exhibit parallel orientation resulting in faint banding; about 20 to 25 percent quartz, fine to very fine grained, well sorted (fine), angular to subrounded; about 10 percent phosphorite and heavy minerals, very fine grained, angular to well rounded; moderately to well cemented.	7	96 - 103

Lithologic Log of Well G-2345--Continued

Lat 26°06'41", long 80°12'35"  
Sec. 12, T. 50 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1); sandy, intrasparite, benthic foraminifers; about 30 percent quartz, very fine grained, angular to subrounded; about 10 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; loosely to well cemented.	3	103 - 106
Limestone, light-olive-gray (5 Y 6/1); sandy, unsorted biosparite, gastropods, encrusting bryozoans, algae, pelecypods (about 4 inches in length), serpulids, and benthic foraminifers; about 15 to 40 percent quartz, fine to very fine grained, well sorted (fine), angular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; loosely to well cemented.	3	106 - 109
Limestone, light-olive-gray (5 Y 6/1); sandy, fossiliferous intrasparite grading to a sandstone in places, mollusks, algae, and serpulids; about 30 to 40 percent quartz, fine to very fine grained, well sorted (fine), angular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; loosely to well cemented.	4	109 - 113
Limestone, yellowish-gray (5 Y 7/2); sandy intrasparite; about 30 to 35 percent quartz, fine to very fine grained, well sorted (fine), angular to subrounded; about 15 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; loosely to moderately cemented.	3	113 - 116
Limestone, yellowish-gray (5 Y 7/2); sandy, pelletiferous intrasparite; about 30 to 40 percent quartz, fine to very fine grained, well sorted (fine), angular to subrounded; about 10 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; loosely to well cemented; interbedded with about 50 percent detrital carbonate sand; about 30 to 35 percent quartz, fine to very fine grained, well sorted (fine), angular to rounded; about 20 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded.	3	116 - 119
Limestone, yellowish-gray (5 Y 6/1); sandy, intraclastic, unsorted biosparite, mollusks, including <i>Ostrea</i> sp., pelecypods, and echinoid spines; cavity-filling calcite is present; about 20 percent quartz, fine grained, angular to subrounded; about 20 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), rounded to well rounded; well cemented.	4	119 - 123
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse intrasparite, mollusks and benthic foraminifers; about 20 percent quartz, fine grained, angular to subrounded; about 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), rounded to well rounded; moderately to well cemented.	3	123 - 126

Lithologic Log of Well G-2345--Continued

Lat 26°06'41", long 80°12'35"  
Sec. 12, T. 50 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 6/1); sandy, fossiliferous intrasparite; about 15 to 20 percent quartz, fine to very fine grained, well sorted (fine), subangular to rounded; about 15 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), rounded to well rounded; intraclastics exhibit parallel orientation; well cemented.	3	126 - 129
Sand as in 116 to 119 feet; about 10 to 15 percent quartz, medium to very fine grained, moderately sorted (fine), angular to rounded; about 10 to 15 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (fine), subrounded to well rounded; loosely to well cemented in places.	4	129 - 133
Limestone, yellowish-gray (5 Y 6/1); sandy intrasparite; about 20 percent quartz, fine grained, subangular to rounded; about 25 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), rounded to well rounded; moderately to well cemented.	3	133 - 136
Limestone as in 126 to 129 feet; about 20 percent quartz and about 25 to 30 percent phosphorite and heavy minerals.	3	136 - 139
Limestone as in 133 to 136 feet; about 15 percent quartz and about 20 percent phosphorite.	4	139 - 143
Limestone, yellowish-gray (5 Y 8/1) and light-olive-gray (5 Y 6/1); sandy, intraclastic, packed biomicrite grading into a sandy dismicrite, mollusks and barnacles; about 15 to 20 percent quartz, medium to very fine grained, moderately sorted (fine), angular to subrounded; about 10 percent phosphorite, fine to very fine grained, well sorted (fine), rounded to well rounded; moderately to well cemented.	3	143 - 146
Limestone, light-olive-gray (5 Y 6/1); sandy intrasparite; about 20 percent quartz, medium to fine grained, well sorted (fine), subangular to rounded; about 10 to 15 percent phosphorite, fine to very fine grained, well sorted (fine), well rounded; loosely to moderately cemented.	3	146 - 149
Limestone, light-olive-gray (5 Y 6/1); sandy, sparse biomicrite, mollusks, and benthic foraminifers; about 20 to 25 percent quartz, medium to very fine grained, well sorted (fine), subangular to subrounded; about 15 to 20 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to well rounded; interbedded with about 40 percent sandy, fossiliferous intrasparite, coral (allochthonous); about 15 percent quartz and about 10 to 15 percent phosphorite and heavy minerals; framework porosity; well cemented.	4	149 - 153

Lithologic Log of Well G-2345--Continued

Lat 26°06'41", long 80°12'35"  
Sec. 12, T. 50 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1); sandy, sparse biomicrite; interbedded with a sandy, intraclastic, sparse biomicrite, mollusks, including <u>Ostrea</u> sp., <u>Chione</u> sp., and gastropods; about 25 to 30 percent quartz, medium to fine grained, well sorted (fine), subangular to subrounded; about 15 percent phosphorite, medium to fine grained, well sorted (fine), rounded to well rounded; moderately to well cemented.	3	153 - 156
Limestone, light-olive-gray (5 Y 6/1); sandy, fossiliferous intrasparite; about 15 to 20 percent quartz, medium to fine grained, well sorted (fine), subangular to subrounded; about 10 percent phosphorite, medium to fine grained, well sorted (fine), rounded to well rounded; loosely to moderately cemented.	7	156 - 163
Limestone, light-olive-gray (5 Y 6/1); sandy, intraclastic, sparse biomicrite grading into a sandy, sparse intramicrite, mollusks; about 20 percent quartz, medium to fine grained, well sorted (fine); about 3 to 5 percent phosphorite, very fine grained, rounded to well rounded; loosely to moderately cemented.	3	163 - 166
Limestone, light-olive-gray (5 Y 6/1); sandy intramicrite; about 10 percent quartz, medium to fine grained, well sorted (fine), subangular to subrounded; about 3 percent phosphorite, medium to fine grained, well sorted (fine), rounded to well rounded; loosely to moderately cemented.	3	166 - 169
Sand, light-olive-gray (5 Y 6/1); detrital carbonate and shell fragments, medium to very fine grained, poorly sorted, subrounded to well rounded; about 20 percent quartz, medium to very fine grained, poorly sorted, subangular to subrounded; about 3 to 5 percent phosphorite, fine to very fine grained, rounded to well rounded; interbedded with intramicrite at 172.5 feet and interbedded with about 15 to 20 percent limestone at 173 to 176 feet; intraclastic biomicrite; loosely to moderately cemented.	7	169 - 176
Limestone as in 173 to 176 feet; loosely to moderately cemented.	3	176 - 179
Sand as in 169 to 176 feet; interbedded with limestone at 182 feet as in 173 to 176 feet.	4	179 - 183
Limestone as in 173 to 176 feet; loosely to moderately cemented.	6	183 - 189
Sand, yellowish-gray (5 Y 7/2); detrital carbonate and shell fragments, very coarse to very fine grained, poorly sorted, subangular to rounded; about 20 to 40 percent quartz, coarse to very fine grained, moderately sorted (fine), angular to subrounded; about 5 to 10 percent phosphorite, medium to very fine grained, well sorted (fine), subrounded to well rounded; interbedded with a sandy, fossiliferous intramicrite at 189 to 193 feet; about 20 percent quartz and about 15 percent phosphorite as above.	10	189 - 199

Lithologic Log of Well G-2345--Continued

Lat 26°06'41", long 80°12'35"  
Sec. 12, T. 50 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, yellowish-gray (5 Y 7/2); quartzose, medium to fine grained, well sorted (fine), angular to rounded; about 20 to 30 percent detrital carbonate, very coarse to very fine grained, poorly sorted, subangular to rounded; about 5 to 15 percent phosphorite, medium to very fine grained, moderately to well sorted, subrounded to well rounded; about 3 to 5 percent shell fragments, mollusks; about 5 percent silty micrite, not cemented, at 206 to 209 feet.	10	199 - 209
Sand as above; quartz is coarse to fine grained; about 25 to 35 percent detrital carbonate; about 5 to 15 percent phosphorite, coarse to very fine grained, moderately sorted (fine), rounded to well rounded; about 5 percent limestone, mixture: sandy, silty micrite, sandy micrite, and sandy, fossiliferous micrite.	24	209 - 233
Sand as above; about 35 to 40 percent detrital carbonate; interbedded with about 5 to 10 percent limestone, sandy, intra-clastic micrite; about 25 percent quartz and about 10 percent phosphorite; well cemented.	6	233 - 239
Sand, light-olive-gray (5 Y 6/1); detrital carbonate; about 35 percent quartz, coarse to fine grained, moderately sorted (fine), angular to rounded; about 15 percent phosphorite, coarse to very fine grained, moderately sorted (fine), rounded to well rounded; about 10 percent limestone as above; about 15 percent limestone, sandy, silty micrite; about 20 to 25 percent phosphorite, fine to very fine grained, rounded to well rounded; about 15 percent quartz, medium to very fine grained, poorly sorted, subrounded to rounded; loosely cemented.	14	239 - 253
Sand, light-olive-gray (5 Y 5/2); quartzose, medium to very fine grained, well sorted (fine), subangular to rounded; about 35 to 40 percent detrital carbonate, medium to very fine grained, poorly sorted, subrounded to well rounded; about 10 to 15 percent phosphorite, medium to very fine grained, moderately sorted (fine), rounded to well rounded.	3	253 - 256
Sand, light-olive-gray (5 Y 5/2); detrital carbonate, fine to very fine grained, well sorted (fine), very angular to subangular; about 15 to 20 percent phosphorite, fine to very fine grained, well sorted (fine), rounded to well rounded.	3	256 - 259
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to fine grained, moderately sorted (fine), angular to rounded; about 20 to 35 percent detrital carbonate; about 5 to 10 percent phosphorite, medium to very fine grained, well sorted (fine), rounded to well rounded; about 10 percent shell fragments; about 15 percent limestone as in 239 to 253 feet, sandy, silty micrite.	14	259 - 273

Lithologic Log of Well G-2345--Continued

Lat 26°06'41", long 80°12'35"  
Sec. 12, T. 50 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-olive-gray (5 Y 6/1); detrital carbonate, medium to very fine grained, moderately sorted (fine), subrounded; about 40 percent quartz, medium to very fine grained, well sorted (fine), angular to rounded; about 10 percent phosphorite, fine to very fine grained, well sorted (fine), rounded to well rounded.	6	273 - 279
Sand, light-olive-gray (5 Y 6/1); quartzose, medium to very fine grained, moderately sorted (fine), subangular to rounded; about 20 to 30 percent detrital carbonate, medium to very fine grained, moderately sorted (fine), subrounded; about 10 to 15 percent phosphorite, fine to very fine grained, well sorted (fine), rounded to well rounded; about 3 to 5 percent shell fragments.	7	279 - 286
Sand, light-olive-gray (5 Y 5/2); quartzose, medium to very fine grained, moderately sorted (fine), very angular to rounded; about 20 to 30 percent detrital carbonate, medium to very fine grained, moderately sorted (fine), subrounded; about 10 to 20 percent phosphorite, medium to very fine grained, well sorted (fine), rounded to well rounded; about 10 to 15 percent limestone, silty micrite, at 289 to 296 feet; about 5 to 30 percent silty micrite, not cemented; about 10 percent shell fragments at 293 to 296 feet; fauna, echinoid spines and <u>Pecten</u> sp.	10	286 - 296
Sand, light-olive-gray (5 Y 5/2); detrital carbonate, medium to very fine grained, moderately sorted (fine), subangular to rounded; about 30 to 35 percent quartz, medium to very fine grained, well sorted (fine), angular to rounded; about 10 to 15 percent phosphorite, medium to very fine grained, well sorted (fine), rounded to well rounded; about 15 percent limestone, silty micrite; about 5 percent shell fragments; interbedded with about 30 percent silty, clayey micrite, not cemented.	7	296 - 303
Sand, light-olive-gray (5 Y 5/2); quartzose, fine to very fine grained, well sorted (fine), angular to subrounded; about 15 percent phosphorite, fine to very fine grained, well sorted (fine), rounded to well rounded; about 5 to 10 percent shell fragments; about 30 percent clayey, silty micrite, not cemented; cemented in places.	3	303 - 306
Silt, light-olive-gray (5 Y 5/2); about 30 percent quartz, very fine grained, subangular; about 20 percent phosphorite, very fine grained, rounded; about 30 to 40 percent clayey, silty micrite, not cemented.	11	306 - 317
Limemud, light-olive-gray (5 Y 5/2); silty, clayey micrite; about 25 percent quartz, very fine grained, subangular; about 20 percent phosphorite, very fine grained, rounded.	2	317 - 319
Clay, light-olive-gray (5 Y 5/2); silty, calcareous; about 35 to 40 percent quartz, very fine grained, angular to subangular; about 10 percent phosphorite, very fine grained, rounded to well rounded.	10	319 - 329

Lithologic Log of Well G-2346

Lat 25°59'58", long 80°52'22"

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, dusky-yellowish-brown (10 YR 2/2); quartz, medium to silt, poorly sorted, angular to rounded; about 25 to 30 percent micrite, not cemented; about 20 percent organic material and peat; about 20 percent limestone rock fragments.	2	0 - 2
Limestone, very pale orange (10 YR 8/2); sandy micrite; about 20 to 25 percent quartz, medium to very fine grained, poorly sorted, subangular to rounded; loosely to moderately cemented.	2	2 - 4
Limestone, dusky-yellowish-brown (10 YR 2/2); sandy, fossiliferous micrite, mollusks; about 30 to 35 percent quartz, medium to very fine grained, poorly sorted, subangular to rounded; loosely to moderately cemented.	3	4 - 7
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse biomicrite, mollusks; about 30 percent quartz, coarse to very fine grained, poorly sorted, subrounded to rounded; about 3 to 5 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted, subrounded to well rounded; moderately to well cemented.	3	7 - 10
Limestone, yellowish-gray (5 Y 7/2); sandy, packed biomicrite grading to a sandy, intraclastic, packed biomicrite, mollusks and bryozoans; about 30 to 35 percent quartz, medium to fine grained, well sorted (fine), subangular to rounded; about 10 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), angular to well rounded; loosely to well cemented.	2	10 - 12
Limestone, yellowish-gray (5 Y 7/2); sandy, packed intramicrite, mollusks and fecal pellets; about 35 to 40 percent quartz, medium to fine grained, well sorted (fine), subangular to rounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), angular to well rounded; loosely to well cemented.	2	12 - 14
Limestone, yellowish-gray (5 Y 8/1); sandy, packed biomicrite, mollusks, bryozoans, barnacles, fecal pellets, and burrows; about 30 to 35 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; about 3 to 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to well rounded; moderately to well cemented.	6	14 - 20
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse intramicrite, mollusks, including <i>Ostrea</i> sp.; about 30 to 35 percent quartz, very coarse to very fine grained, moderately sorted (fine), subrounded to rounded; about 5 percent phosphorite and heavy minerals, medium to fine grained, well sorted (fine), rounded to well rounded; about 15 to 20 percent clay size particles; loosely to moderately cemented; interbedded with micrite, not cemented, at 24 to 27 feet, light olive-gray (5 Y 6/1); with about 30 to 35 percent clay.	7	20 - 27

Lithologic Log of Well G-2346--Continued

Lat 25°59'58", long 80°52'22"

Description	Thick- ness (feet)	Depth, feet below land surface
Limemud, yellowish-gray (5 Y 8/1); sandy micrite; about 15 to 30 percent clay size particles; about 10 to 30 percent quartz, very fine grained, subangular to rounded; about 10 to 30 percent shell fragments, mollusks, including <u>Ostrea</u> sp., large; about 5 to 10 percent heavy minerals and organic matter, very fine grained.	30	27 - 57
Shell fragments, mollusks; about 40 percent clayey micrite, not cemented.	3	57 - 60
Limestone, light-olive-gray (5 Y 6/1); packed intramicrite to sandy, packed intramicrite, mollusks, including <u>Ostrea</u> sp., bryozoans, fecal pellets, echinoid fragments, and barnacles (pink); about 5 to 10 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 3 to 5 percent quartz, fine to very fine grained, well sorted (very fine), angular to subangular; loosely to moderately cemented.	24	60 - 84
Limestone as above; about 10 to 25 percent quartz, medium to very fine grained, well sorted (very fine), subangular to rounded.	6	84 - 90
Limestone as in 60 to 84 feet; about 20 percent quartz, very coarse to very fine grained, poorly sorted, subrounded to rounded.	4	90 - 94
Limestone, yellowish-gray (5 Y 7/2); sandy, intraclastic, packed biomicrite, mollusks, including <u>Pecten</u> sp. and <u>Ostrea</u> sp., and barnacles; about 20 to 25 percent quartz, coarse to fine grained, moderately sorted (fine), rounded; about 3 to 5 percent phosphorite and heavy minerals, fine grained, subrounded to well rounded; loosely to moderately cemented.	3	94 - 97
Limestone, light-olive-gray (5 Y 6/1) and yellowish-gray (5 Y 7/2), mottled; sandy, packed biomicrite, gastropods and pelecypods; about 30 percent quartz to about 5 percent in places, fine to very fine grained, well sorted (fine), subangular to subrounded; about 5 percent phosphorite, very fine grained, rounded to well rounded; loosely to well cemented.	7	97 - 104
Limestone, medium-light-gray (N 6) and yellowish-gray (5 Y 7/2), mottled; sandy, packed biomicrite, grading to a calcareous, sandstone in places, mollusks, barnacles, and echinoid fragments; about 35 to 65 percent quartz, medium to fine grained, well sorted (fine), subrounded to well rounded; about 5 percent phosphorite, medium grained, rounded to well rounded; loosely to moderately cemented.	3	104 - 107

Lithologic Log of Well G-2346--Continued

Lat 25°59'58", long 80°52'22"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, medium-light-gray (N 6) and yellowish-gray (5 Y 7/2), mottled; sandy, packed intramicrite, mollusks, barnacles, and echinoid fragments; about 35 percent quartz, medium to fine grained, well sorted (fine), subrounded to well rounded; about 5 to 10 percent phosphorite and heavy minerals, medium and fine grained at 114 to 117 feet, subrounded to well rounded; loosely to moderately cemented.	10	107 - 117
Limestone, yellowish-gray (5 Y 7/2); sandy, packed biomicrite, pelecypods, gastropods, and barnacle plates; about 20 to 50 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; about 5 to 10 percent phosphorite, fine to very fine grained, well sorted (fine), rounded to well rounded; moderately to well cemented.	13	117 - 130
Sand, light-olive-gray (5 Y 6/1); quartzose, coarse to fine grained, moderately sorted (fine), subrounded to rounded; about 15 percent phosphorite and heavy minerals, very coarse to fine grained, moderately sorted (fine grained), subangular to well rounded; about 30 to 35 percent shells, mollusks, and limestone rock fragments.	7	130 - 137
Sand, light-olive-gray (5 Y 6/1); quartzose, very coarse to fine grained, well sorted (fine), subrounded to rounded; about 15 percent phosphorite and heavy minerals, very coarse to very fine grained, well sorted (fine), subrounded to well rounded; about 30 percent shell fragments, echinoids, barnacles, bryozoans, and mollusks (large), including <u>Pecten</u> sp.	17	137 - 154
Silt, light-olive-gray (5 Y 5/2); calcareous; about 30 percent quartz, coarse and very fine grained, well sorted (very fine), angular to rounded; about 15 percent phosphorite and heavy minerals, very fine grained, rounded; about 15 percent shells, <u>Pecten</u> sp. and other mollusks.	6	154 - 160
Clay, grayish-olive (10 Y 4/2); silt and calcareous; about 5 to 10 percent phosphorite, pebbles to coarse grained, moderately sorted (coarse), rounded to well rounded; about 5 to 10 percent shell fragments.	7	160 - 167
Clay as above, lacks pebbles; about 5 percent phosphorite, very fine grained, rounded.	3	167 - 170

Lithologic Log of Well G-2347

Lat 26°05'07", long 80°08'56"  
Sec. 22, T. 50 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Fill.	4	0 - 4
Limemud, olive-gray (5 Y 4/1); sandy micrite; about 20 percent quartz, medium to fine grained, well sorted (fine), sub-rounded to rounded; interbedded with about 40 percent limestone mixture, yellowish-gray (5 Y 8/1); unsorted biosparite, mollusks and abundant bryozoans; neomorphic and cavity-filling calcite are present in matrix; well cemented; and sandy, fossiliferous oomicrite, mollusks; about 20 percent quartz, fine grained, subangular to subrounded; moderately cemented, friable.	3	4 - 7
Limestone, very pale orange (10 YR 8/2); sandy, sparse oomicrite, pelecypods; about 20 to 25 percent quartz, medium to fine grained, well sorted (fine), subrounded; moderately cemented, friable.	7	7 - 14
Limestone, very pale orange (10 YR 8/2); fossiliferous oomicrite grading into a sandy, fossiliferous oomicrite, pelecypods (smooth white tests); about 30 to 35 percent quartz as above; and an oosparite, cavity-filling calcite cement is present; moderately (friable) to well cemented.	3	14 - 17
Sand, very pale orange (10 YR 8/2) to pale-yellowish-brown (10 YR 6/2); quartzose, coarse to very fine grained, well sorted (fine), angular to subrounded; about 3 to 10 percent ooids, medium to fine grained, well sorted (medium), well rounded; about 3 to 10 percent clayey micrite, not cemented.	7	17 - 24
Sand as above, dark-yellowish-brown (10 YR 4/2); about 5 to 10 percent silty, calcareous clay; about 3 percent ooids.	3	24 - 27
Sand as above, dark-yellowish-brown (10 YR 4/2) to grayish-orange (10 YR 7/4) to very pale orange (10 YR 8/2); about 3 to 5 percent phosphorite and heavy minerals, fine grained, subangular to well rounded; about 3 to 5 percent silty, calcareous clay; about 1 to 5 percent silty clay.	10	27 - 37
Limestone, yellowish-gray (5 Y 8/1); biolithite, <u>Monastrea</u> sp.; neomorphic calcite present; about 5 to 10 percent quartz, fine grained, subangular to subrounded; grading into an intramicrite; about 5 percent clay; well cemented.	10	37 - 47
Limestone as above, grading into sandy intramicrite; about 25 to 30 percent quartz, medium to fine grained, moderately sorted (fine), subangular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subangular to well rounded.	3	47 - 50

Lithologic Log of Well G-2347--Continued

Lat 26°05'07", long 80°08'56"  
Sec. 22, T. 50 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 8/1); sandy intrasparite; about 15 to 20 percent quartz, coarse to fine grained, moderately sorted (fine), subangular to rounded; about 5 percent phosphorite, very coarse to very fine grained; well cemented; interbedded with about 30 percent sandstone; quartzose, fine to very fine grained, well sorted (fine), subangular to rounded; about 20 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; about 40 to 45 percent micritic matrix; rod-shaped with center composed of a neomorphic calcite matrix; moderately to well cemented.	4	50 - 54
Sand, yellowish-gray (5 Y 8/1); quartzose, fine to very fine grained, well sorted (fine), angular to subrounded; about 20 percent phosphorite and heavy minerals, very fine grained, subangular to rounded; interbedded with about 30 to 40 percent sandstone as above, nodular.	6	54 - 60
Sand, yellowish-gray (5 Y 8/1); quartzose, coarse to fine grained, well sorted (fine), angular to rounded; about 20 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), subrounded to well rounded; interbedded with about 30 to 35 percent limestone mixture: sandy, intraclastic, sparse biomicrite, mollusks including gastropods and pelecypods; about 20 to 25 percent quartz, fine to very fine grained, well sorted (fine), angular to subrounded; about 15 percent phosphorite and heavy minerals, fine to very fine grained, subrounded to rounded; and a sandy intrasparite; calcite cavity-filling cement is present; about 25 to 30 percent quartz, medium to fine grained, moderately sorted (fine), angular to rounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted; fossiliferous micrite, very pale orange (10 YR 8/2); gastropods and pelecypods; about 5 percent quartz, very fine grained, angular to subangular; well cemented.	4	60 - 64
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse intramicrite, gastropods and pelecypods; about 20 to 25 percent quartz, medium to very fine grained, well sorted (fine), subangular to rounded; is a contact with a sandy intramicrite; about 25 to 30 percent quartz, medium to fine grained, well sorted (fine), subrounded to rounded; about 3 to 5 percent phosphorite and green mineral, medium to very fine grained, moderately sorted (very fine), angular to well rounded; moderately to well cemented.	3	64 - 67
Limestone, yellowish-gray (5 Y 7/2); sandy, fossiliferous intramicrite; about 20 to 25 percent quartz, medium to fine grained, moderately sorted (fine), subangular to subrounded; about 5 to 10 percent phosphorite, very coarse to very fine grained, poorly sorted, subangular to well rounded; well cemented; interbedded with about 20 percent sand; quartzose, very angular to angular; about 15 to 20 percent phosphorite, fine to very fine grained, rounded to well rounded.	13	67 - 80

Lithologic Log of Well G-2347--Continued

Lat 26°05'07", long 80°08'56"  
Sec. 22, T. 50 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 7/2); sandy, intrasparite; about 20 percent quartz, medium to very fine grained, poorly sorted, angular to rounded; about 5 percent phosphorite, medium to very fine grained, poorly sorted, subangular to well rounded; is a contact with a micrite, weathered, pitted texture; cavity-filling calcite cement is present.	4	80 - 84
Limestone, yellowish-gray (5 Y 8/1) to very pale orange (10 YR 8/2); pelletiferous, sparse intramicrite, framework organism, gastropods, pelecypods, coral including <u>Monastrea</u> sp., burrows, and pellets; neomorphic calcite present at 87 to 90 feet; about 10 percent quartz, very fine grained, angular to subangular; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, subangular to well rounded; moderately to well cemented.	10	84 - 94
Limestone, yellowish-gray (5 Y 8/1 and 5 Y 7/2); intraclastic, sparse pelmicrite, pelecypods, halimeda, and abundant coral; neomorphic and cavity-filling calcite are present in matrix; moderately to well cemented.	10	94 - 104
Limestone, yellowish-gray (5 Y 7/2 and 5 Y 8/1); fossiliferous pelintraclastic, echinoid spines and fragments, and mollusks including pelecypods and <u>Pecten</u> sp.; well cemented.	3	104 - 107
Limestone, yellowish-gray (5 Y 8/1); sandy intramicrite, grading into a sandy intrasparite in places; about 20 to 30 percent quartz, medium to very fine grained, moderately sorted (fine), subangular to rounded; about 5 to 10 percent phosphorite and heavy minerals, coarse to very fine grained, poorly sorted, subangular to well rounded; well cemented.	3	107 - 110
Limestone, yellowish-gray (5 Y 7/2); sandy intrasparite; about 30 to 35 percent quartz, fine to very fine grained well sorted (fine), subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), subangular to well rounded; nodular; well cemented; interbedded with about 15 percent sand; quartzose, medium to very fine grained, well sorted (fine), subangular to rounded; about 10 percent detrital carbonate; about 5 to 10 percent phosphorite, medium to very fine grained, poorly sorted, subrounded to rounded.	4	110 - 114
Sandstone, yellowish-gray (5 Y 7/2); quartzose, medium to fine grained, well sorted (fine), subangular to subrounded; about 5 percent phosphorite, very coarse to very fine grained, poorly sorted, rounded to well rounded; about 25 percent detrital carbonate coarse to fine grained, moderately sorted (medium), angular to rounded; about 10 to 15 percent sparite matrix; grading into an intraclastic, unsorted biosparite; about 10 to 15 percent quartz and about 3 to 5 percent phosphorite as in sandstone; moderately to well cemented.	3	114 - 117

Lithologic Log of Well G-2347--Continued

Lat 26°05'07", long 80°08'56"  
Sec. 22, T. 50 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone as above, grading into a limestone, yellowish-gray (5 Y 7/2); sandy intrasparite; about 30 percent quartz, medium to fine grained, well sorted (fine), subangular to subrounded; about 5 percent phosphorite, medium to very fine grained, moderately sorted, subrounded to well rounded; well cemented; interbedded with about 30 to 40 percent sand, quartzose, fine to very fine grained, well sorted (fine), very angular to subangular; about 10 percent phosphorite and heavy minerals, fine to very fine grained, subangular to well rounded.	5	117 - 122
Sandstone, yellowish-gray (5 Y 7/2); quartzose, medium to fine grained, moderately sorted (fine), subangular to rounded; about 20 to 25 percent detrital carbonate, coarse to fine grained, subangular to rounded; about 15 to 20 percent sparite matrix; grading into a sandy, fossiliferous intrasparite; moderately to well cemented.	2	122 - 124
Sandstone and limestone as above, grading into a shelly sandstone; about 20 to 25 percent shell fragments.	3	124 - 127
Limestone as above; grading into a sandstone; quartzose, fine to very fine grained, well sorted (fine), angular to subrounded; about 5 percent phosphorite and heavy minerals, very fine grained, angular to well rounded; well cemented.	3	127 - 130
Limestone, yellowish-gray (5 Y 8/1); intraclastic biomicrite, echinoid spines and mollusks; neomorphic calcite present; about 10 to 15 percent quartz, medium to very fine grained, moderately sorted (very fine), angular to subrounded; about 5 percent heavy minerals, very fine grained, subangular; well cemented; interbedded with about 20 percent sandstone; quartzose, fine to very fine grained, well sorted, angular to subangular; about 10 percent heavy minerals, as in limestone.	4	130 - 134
Limestone, yellowish-gray (5 Y 8/1); sandy, fossiliferous intrasparite; about 20 percent quartz, very fine grained, angular to subrounded; is in contact with a sandstone as above; cavity-filling calcite cement present; well cemented.	3	134 - 137
Limestone, yellowish-gray (5 Y 8/1); sandy, intraclastic, sparse biomicrite, mollusks including gastropods; about 10 percent quartz, medium to very fine grained, moderately sorted (fine), very angular to rounded; about 15 to 20 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (very fine), angular to well rounded; interbedded with about 15 percent sandstone as above.	3	137 - 140

Lithologic Log of Well G-2347--Continued

Lat 26°05'07", long 80°08'56"  
Sec. 22, T. 50 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 8/1); sandy, intraclastic, sparse biomicrite grading into a sparse biomicrite, barnacles, mollusks including gastropods, and serpulids; neomorphic calcite is present; about 5 to 10 percent quartz, medium to very fine grained, moderately sorted (fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded; well cemented.	4	140 - 144
Limestone, yellowish-gray (5 Y 8/1); sandy, intraclastic, poorly washed biosparite, mollusks; about 20 percent quartz, medium to fine grained, moderately sorted (fine), subangular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), angular to well rounded; grading into a sandy, intraclastic sparite and sandstone, quartzose, medium to very fine grained, moderately sorted (fine), angular to rounded; about 20 percent phosphorite, coarse to fine grained, moderately sorted (fine), angular to well rounded; well cemented.	3	144 - 147
Sandstone, light-olive-gray (5 Y 5/2); quartzose, fine to very fine grained, well sorted (fine), angular to subrounded; about 20 to 30 percent detrital carbonate and shell fragments, medium to fine grained, well sorted (medium), angular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), angular to well rounded; about 5 percent shell fragments; about 10 to 20 percent sparite matrix; nodular; well cemented; interbedded with about 40 percent sand at 150 to 154 feet; quartzose, medium to very fine grained, moderately sorted (fine), very angular to subrounded; about 20 to 25 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (fine), rounded to well rounded; about 15 percent detrital carbonate and shell fragments.	7	147 - 154
Sand as above; about 10 to 15 percent detrital carbonate; interbedded with sandstone, medium to very fine grained moderately sorted (fine), angular to rounded; about 25 percent detrital carbonate, medium to fine grained, well sorted (medium), subrounded to rounded; about 20 to 25 percent phosphorite, very coarse to very fine grained, moderately sorted (fine), subangular to well rounded; moderately to well cemented.	6	154 - 160
Sand, medium-gray (N 5) to olive-gray (5 Y 4/1); quartzose, medium to fine grained, well sorted (fine), angular to rounded; about 20 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), subangular to well rounded.	2	160 - 162

Lithologic Log of Well G-2347--Continued

Lat 26°05'07", long 80°08'56"  
Sec. 22, T. 50 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone, medium-gray (N 5) to olive-gray (5 Y 4/1); quartzose, fine to very fine grained, well sorted (fine), angular to subangular; about 15 to 20 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 5 to 15 percent sparite matrix; nodular and "rod-shaped"; well cemented; interbedded with about 20 percent sand as above.	28	162 - 190
Sand as in 160 to 162 feet; interbedded with about 30 to 40 percent sandstone, medium-gray (N 5) to olive-gray (5 Y 4/1); quartzose, medium to very fine grained, moderately sorted (fine), angular to rounded; about 20 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (very fine), subangular to well rounded; about 30 percent shell fragments, mollusks including <u>Pecten</u> sp.	7	190 - 197
Sand as above; interbedded with sandstone at 197.5 to 198 feet, as in 162 to 190 feet.	1	197 - 198
Sandstone, medium-gray (N 5) to olive-gray (5 Y 4/1); medium to very fine grained, moderately sorted (fine), angular to rounded; about 25 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subangular to well rounded; about 20 percent detrital carbonate, medium to fine grained, moderately sorted (medium), angular to rounded; well cemented.	1	198 - 199
Sandstone, light-olive-gray (5 Y 6/1); quartzose, medium to very fine grained, moderately sorted (fine), angular to subrounded; about 35 to 50 percent porosity, sparite matrix; about 10 to 15 percent sparite and heavy minerals, medium to very fine grained, moderately sorted (fine), subangular to well rounded; about 10 percent shell fragments; well cemented.	1	199 - 200
Sandstone and sand as in 190 to 197 feet.	6	200 - 206
Limestone, medium-light-gray (N 6); sandy intrasparite; about 35 percent quartz, medium to fine grained, moderately sorted (fine), subangular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subangular to rounded; well cemented.	3	206 - 209
Sandstone, medium-light-gray (N 6); quartzose, medium to fine grained, moderately sorted (fine), subangular to rounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to rounded; about 20 percent sparite matrix; about 5 to 10 percent detrital carbonate, medium to fine grained, well sorted (fine), subrounded to rounded; well cemented.	5	209 - 214

Lithologic Log of Well G-2347--Continued

Lat 26°05'07", long 80°08'56"  
Sec. 22, T. 50 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, medium-light-gray (N 6); sandy, fossiliferous intra-sparite, benthic foraminifers; about 30 to 35 percent quartz, coarse to fine grained, moderately sorted (fine), subangular to rounded; about 10 to 15 percent phosphorite and heavy minerals, coarse to very fine grained, well sorted (fine), subangular to well rounded; grading into a sandstone as above; well cemented; interbedded with about 50 percent sand, quartzose, medium to very fine grained, well sorted (fine), angular to rounded; about 10 to 15 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), subrounded to well rounded; about 5 to 10 percent detrital carbonate, coarse to very fine grained, well sorted (medium), subrounded to rounded.	2	214 - 216
Sand as above; abundant in benthic foraminifera; about 20 percent phosphorite and heavy minerals; interbedded with about 30 percent limestone, light-gray (N 7) and yellowish-gray (5 Y 7/2); sandy, intraclastic biosparite, benthic foraminifers, and large pelecypods and gastropods; neomorphic calcite present in test; about 30 to 35 percent quartz, medium to very fine grained, moderately sorted (fine), subrounded to rounded; about 10 to 20 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), rounded to well rounded; well cemented.	4	216 - 220
Limestone, light-gray (N 7) to medium-gray (N 5); sandy intra-sparite grading into a sandstone in places; about 20 to 40 percent quartz, medium to very fine grained, moderately to well sorted (fine), subrounded to rounded; about 5 to 15 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), subangular to well rounded; well cemented; interbedded with about 30 to 40 percent sand as above.	13	220 - 233
Sandstone, light-gray (N 7) to medium-gray (N 5); quartzose, medium to very fine grained, well sorted (fine), subangular to rounded; about 20 percent detrital carbonate, medium to very fine grained, well sorted (fine), subangular to well rounded; about 20 percent sparite matrix; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subangular to well rounded; well cemented; interbedded with about 30 to 35 percent sand as above.	3	233 - 236
Sand, light-gray (N 7) to medium-gray (N 5); quartzose, fine to very fine grained, well sorted (fine), angular to subangular; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), angular to well rounded; about 5 to 10 percent detrital carbonate, medium to very fine grained, moderately sorted (fine), subangular to rounded; interbedded with sandstone as above at 238.5 to 239 feet.	3	236 - 239

Lithologic Log of Well G-2347--Continued

Lat 26°05'07", long 80°08'56"  
Sec. 22, T. 50 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone, light-gray (N 7) to medium-light-gray (N 6); quartzose, fine to very fine grained, well sorted (fine), subangular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded; about 20 to 30 percent detrital carbonate and shell fragments, medium to very fine grained, moderately sorted (fine), subangular to rounded; barnacles; moderately to well cemented.	7	239 - 246
Limestone, light-gray (N 7); sandy intrasparite; about 20 percent quartz, fine to very fine grained, well sorted (fine), angular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), rounded to well rounded; loosely to moderately cemented.	3	246 - 249
Limestone, yellowish-gray (5 Y 8/1) to light-gray (N 7); sandy, intraclastic, fossiliferous micrite; about 10 percent quartz, fine to very fine grained, well sorted (fine), subrounded to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), rounded to well rounded; loosely to moderately cemented.	4	249 - 253
Sandstone, medium-light-gray (N 6); quartzose, medium to very fine grained, well sorted (fine), angular to rounded; about 25 percent detrital carbonate, fine to very fine grained, well sorted (fine), subrounded to well rounded; about 20 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), rounded to well rounded; moderately to well cemented; interbedded with about 30 percent sand; quartzose, coarse to very fine grained, poorly sorted, angular to subrounded; about 15 to 20 percent phosphorite and heavy minerals, medium to very fine grained, moderately sorted (fine), subangular to well rounded; about 30 percent detrital carbonate and shell fragments, fine to very fine grained, well sorted (fine), subrounded to well rounded.	6	253 - 259
Limestone, light-gray (N 7) to medium-light-gray (N 6); sandy intrasparite; about 25 to 30 percent quartz, fine to very fine grained, well sorted (fine), angular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; grading into an intraclastic dismicrite at 275 feet; moderately to well cemented; interbedded with about 20 percent silty clay, dark-yellowish-brown (10 YR 4/2) and about 30 to 50 percent sand as in 253 to 259 feet at 266 to 275 feet.	17	259 - 276
Sand as in 253 to 259 feet; interbedded with about 20 percent limestone as above.	3	276 - 279

Lithologic Log of Well G-2347--Continued

Lat 26°05'07", long 80°08'56"  
Sec. 22, T. 50 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone as above grading into a sandy, fossiliferous intrasparite to a sandy intrasparite in places; about 20 to 30 percent quartz; loosely to well cemented.	14	279 - 293
Sand, light-olive-gray (5 Y 6/1); quartzose, medium to very fine grained, well sorted (fine), angular to subangular; about 15 to 20 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), subrounded to well rounded; about 20 percent detrital carbonate and shell fragments, coarse to very fine grained, moderately sorted (medium), subangular to rounded; <u>Pecten</u> sp., echinoid spines, and abundant in benthic foraminifers; interbedded with about 30 to 35 percent sandstone as in 253 to 259 feet.	3	293 - 296
Sandstone, light-olive-gray (5 Y 6/1); quartzose, fine to very fine grained, well sorted (fine), subangular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; about 25 to 30 percent detrital carbonate, medium to very fine grained, well sorted (fine), subrounded to rounded; about 10 percent shell fragments at 299 to 303 feet; moderately to well cemented.	7	296 - 303
Limestone, medium-light-gray (N 6) to medium-gray (N 5); sandy, fossiliferous intrasparite grading into a sandy intrasparite in places; about 20 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; moderately to well cemented; interbedded with sand as in 293 to 296 feet; about 60 percent at 306 to 309 feet and about 30 percent at 309 to 313 feet.	10	303 - 313
Sand, light-gray (N 7); quartzose, fine to very fine grained, well sorted (fine), angular to subangular; about 15 to 20 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 15 to 20 percent detrital carbonate and shell fragments, medium to very fine grained, well sorted (fine), subrounded to rounded; pink barnacles and benthic foraminifers.	5	313 - 318
Sandstone, light-olive-gray (5 Y 6/1); quartzose, medium to very fine grained, well sorted (fine), subangular to subrounded; about 20 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 10 to 15 percent detrital carbonate; medium to very fine grained, well sorted (fine), subrounded to rounded; about 5 percent shell fragments; moderately to well cemented.	7	318 - 325

Lithologic Log of Well G-2347--Continued

Lat 26°05'07", long 80°08'56"  
Sec. 22, T. 50 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-olive-gray (5 Y 6/1); sandy, fossiliferous intramicrite, benthic foraminifers and mollusks; about 20 percent quartz, fine to very fine grained, well sorted (fine), subangular to subrounded; about 10 to 15 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; loosely to well cemented.	2.5	325 - 327.5
Limestone, light-olive-gray (5 Y 5/2); sandy intramicrite; about 20 to 25 percent quartz, medium to very fine grained, moderately sorted (fine), subrounded; about 20 percent phosphorite and and heavy minerals, medium to very fine grained, well sorted (very fine), rounded to well rounded; well cemented.	1.5	327.5 - 329
Limestone, light-olive-gray (5 Y 6/1); sandy intrasparite; about 15 to 20 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; about 10 to 15 percent quartz, fine to very fine grained, well sorted (fine), angular to subangular; well cemented; interbedded with about 30 percent sandy, intraclastic, fossiliferous micrite; about 25 to 30 percent quartz, medium to very fine grained, moderately sorted (fine), subrounded; about 10 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), rounded to well rounded; moderately to well cemented.	4	329 - 333
Sand, medium-gray (N 5); quartzose, fine to very fine grained, well sorted (fine), angular to subangular; about 15 to 20 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; about 25 to 30 percent detrital carbonate and shell fragments, fine grained, subangular to rounded; about 15 percent micrite, not cemented; interbedded with about 15 percent sandy, fossiliferous intramicrite as above.	3	333 - 336
Limestone, pale-olive (10 YR 6/2); sandy, silty micrite; about 30 percent silt; about 10 percent phosphorite, very fine grained, rounded to well rounded; loosely cemented.	7	336 - 343
Limestone, pale-olive (10 YR 6/2); silty, fossiliferous micrite; about 30 percent silt; about 5 percent phosphorite, very fine grained, rounded to well rounded; loosely cemented.	3	343 - 346

Lithologic Log of Well G-2347--Continued

Lat 26°05'07", long 80°08'56"

Sec. 22, T. 50 S., R. 42 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, pale-olive (10 YR 6/2); sandy, fossiliferous micrite; about 20 to 30 percent quartz, very fine grained, angular; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; loosely cemented.	10	346 - 356
Limestone, pale-olive (10 YR 6/2); sandy, intraclastic, fossiliferous micrite, mollusks; about 25 percent quartz, medium to very fine grained, moderately to well sorted (fine), angular to subangular; about 10 to 15 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; loosely to well cemented.	10	356 - 366
Limestone, pale-olive (10 YR 6/2) to pale-greenish-yellow (10 YR 8/2); sandy, fossiliferous intramicrite, mollusks; about 20 to 25 percent quartz, fine to very fine grained, well sorted (very fine), angular to subangular; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine to very fine at 369 to 373 feet), subangular to well rounded; loosely to well cemented.	27	366 - 393
Limestone, pale-olive (10 YR 6/2); sandy, intraclastic, fossiliferous micrite; about 20 percent quartz, medium to very fine grained, moderately sorted (very fine), subrounded to rounded; about 5 to 10 percent phosphorite, fine to very fine grained, well sorted (fine), rounded to well rounded; loosely to moderately cemented.	3	393 - 396
Limestone, pale-olive (10 YR 6/2); sandy, fossiliferous intramicrite grading into a sandy intramicrite, abundant in planktonic foraminifers at 429 to 433 feet, mollusks, and claws at 449 to 453 feet; about 5 to 25 percent quartz, medium to very fine grained, well sorted (very fine), angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), rounded to well rounded; loosely to moderately cemented.	79	396 - 475

Lithologic Log of Well PB-1428

Lat 26°21'09", long 80°17'51"

Description	Thick- ness (feet)	Depth, feet below land surface
Soil and fill.	6	0 - 6
Limestone, yellowish-gray (5 Y 7/2) and moderate-yellowish-brown (10 YR 5/4); sandy, sparse dismicrite, mollusks; about 20 percent quartz, coarse to fine grained, moderately sorted (medium), subrounded to rounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to rounded; well cemented.	3	6 - 9
Limestone, yellowish-gray (5 Y 7/2), light-brown (5 YR 5/6), and olive-gray (5 Y 3/2), mottled; sandy, fossiliferous micrite, mollusks; neomorphic calcite is present; about 25 to 30 percent quartz, coarse to fine grained, well sorted (medium), subangular to rounded; about 3 to 5 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (fine), subrounded to well rounded; well cemented.	4	9 - 13
Limestone, yellowish-gray (5 Y 7/2); sandy, fossiliferous micrite grading to a sandy, fossiliferous dismicrite; about 25 percent quartz, medium to very fine grained, well sorted (fine), subrounded to rounded; about 3 to 5 percent phosphorite, fine grained, rounded to well rounded; well cemented.	3	13 - 16
Limestone, light-gray (N 7); sandy, fossiliferous sparite, mollusks; about 35 to 40 percent quartz, coarse to medium grained, well sorted (medium), subrounded to rounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), rounded to well rounded; well cemented.	3	16 - 19
Sandstone, medium-light-gray (N 6) to medium-gray (N 5); quartzose, very coarse to fine grained, moderately sorted (medium), subangular to well rounded; about 10 percent sparite matrix; about 20 percent shell fragments, <i>Chione</i> sp. and <i>Monastrea</i> sp.; grading into a sandy biosparite in places; about 35 to 40 percent quartz; about 3 to 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subangular to well rounded; well cemented; interbedded with about 40 percent sand, yellowish-gray (5 Y 7/2); quartzose, coarse to very fine grained, well sorted (fine), angular to rounded; about 5 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to well rounded; about 10 to 15 percent shell fragments.	4	19 - 23
Sandstone as above; about 40 to 50 percent shell fragments, mollusks, including large gastropods and <i>Chione</i> sp., and bryozoans; well cemented; interbedded with about 30 percent biolithite, monastrea.	3	23 - 26
Sandstone as in 19 to 23 feet; well cemented.	3	26 - 29

Lithologic Log of Well PB-1428--Continued

Lat 26°21'09", long 80°17'51"

Description	Thick- ness (feet)	Depth, feet below land surface
Sandstone as above; interbedded with about 50 percent sand, quartzose, coarse to fine grained, well sorted (fine), subangular to rounded; about 10 percent phosphorite and heavy minerals, very coarse to very fine grained, well sorted (very fine), subrounded to well rounded.	10	29 - 39
Sand as above; about 10 percent shell fragments.	4	39 - 43
Limestone, pale-yellowish-brown (10 YR 6/2); sandy, packed biomicrite, mollusks, including <u>Chione</u> sp. and large gastropods, and benthic foraminifers; about 20 to 25 percent quartz, coarse to very fine grained, well sorted (very fine), subangular to rounded; about 5 percent phosphorite, fine to very fine grained, subrounded to rounded, grading into a sandstone (as above) in places; moderately to well cemented; interbedded with about 40 percent sand as in 29 to 39 feet.	6	43 - 49
Limestone, pale-yellowish-brown (10 YR 6/2), yellowish-gray (5 Y 7/2) to dark-yellowish-brown (10 YR 4/2) and brownish-black (5 YR 2/1); sandy, sparse biomicrite, mollusks, including <u>Chione</u> sp. and <u>Turritella</u> sp.; about 30 percent quartz, coarse to fine grained, moderately sorted (fine), subangular to rounded; about 3 to 5 percent phosphorite and heavy minerals, medium to very fine grained, well sorted (very fine), subangular to rounded; well cemented.	7	49 - 56
Limestone, light-olive-gray (5 Y 6/1); sandy, sparse biomicrite, mollusks, including <u>Chione</u> sp. and <u>Turritella</u> sp.; about 25 percent quartz, coarse to very fine grained, poorly sorted, subangular to rounded; about 5 to 10 percent phosphorite, medium to very fine grained, moderately sorted (very fine), subrounded to well rounded; well cemented; interbedded with about 10 to 15 percent limestone as above; interbedded with about 30 percent sandy, sparse biomicrite, yellowish-gray (5 Y 7/2) at 63 to 66 feet, mollusks; about 30 percent quartz, medium to very fine grained, well sorted (fine), angular to subrounded; about 5 to 10 percent phosphorite, fine grained, rounded to well rounded; about 15 to 20 percent porosity, interparticle, intraparticle, and vuggy (up to 1 inch); well cemented.	10	56 - 66
Limestone, sandy, sparse biomicrite as in 63 to 66 feet.	3	66 - 69
Limestone, yellowish-gray (5 Y 7/2); sandy, packed biomicrite, mollusks and coral; about 30 percent quartz, medium to very fine grained, well sorted (fine), angular to subrounded; about 5 to 10 percent phosphorite, fine grained, rounded to well rounded; moderately cemented.	4	69 - 73
Shells and shell fragments, mollusks; about 20 percent sand, quartzose, coarse to fine grained, moderately sorted (fine), angular to subrounded; about 10 percent phosphorite, fine to very fine grained, well sorted (fine), rounded to well rounded.	3	73 - 76

Lithologic Log of Well PB-1428--Continued

Lat 26°21'09", long 80°17'51"

Description	Thick- ness (feet)	Depth, feet below land surface
Shells and shell fragments, mollusks; interbedded with micrite, not cemented; about 30 percent quartz, coarse to fine grained, well sorted (fine), subangular to rounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to rounded.	3	113 - 116
Limestone, light-olive-gray (5 Y 6/1); sandy, sparse intrasparite, mollusks; about 25 percent quartz, coarse to very fine grained, moderately sorted (very fine), subangular to rounded; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, rounded to well rounded; well cemented.	3	116 - 119
Limestone as above, grading into a sandy intramicrite; about 30 to 35 percent quartz, medium to very fine grained, well sorted (fine), angular to rounded; about 3 to 5 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; moderately to well cemented.	4	119 - 123
Limestone, light-olive-gray (5 Y 5/2); sandy, sparse biomicrite, mollusks, including <u>Ostrea</u> sp., and barnacles (pink); about 30 percent quartz, fine grained, subangular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (fine), subrounded to rounded; loosely to well cemented.	6	123 - 129
Sand, moderate-olive-brown (5 Y 4/4) and light-olive-gray (5 Y 5/2); quartzose, medium grained to silt, moderately sorted (fine), angular to rounded; about 5 percent phosphorite and heavy minerals, fine grained to silt, moderately sorted (fine), subangular to rounded; about 10 percent detrital carbonate and shell fragments; about 25 to 30 percent micrite, not cemented, at 133 to 136 feet.	7	129 - 136
Siltstone, pale-olive (10 Y 6/2); about 30 percent micritic matrix; about 20 percent quartz, very fine grained, angular to subangular; about 5 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; about 5 to 10 percent detrital carbonate and shell fragments.	1.5	136 - 137.5
Limestone, medium-dark-gray (N 4) to dark-gray (N 3); sandy, sparse biomicrite, mollusks; about 5 to 10 percent quartz, coarse to very fine grained, poorly sorted, angular to rounded; about 5 to 10 percent phosphorite and heavy minerals, medium and very fine grained, well sorted (very fine), subrounded to well rounded; well cemented.	1.5	137.5 - 139
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); sandy, intraclastic, sparse biomicrite, mollusks, and bryozoans; about 10 percent quartz, medium to very fine grained, well sorted (very fine), angular to rounded; about 5 percent phosphorite and heavy minerals, very fine grained to silt, well sorted (silt); subangular to rounded; well cemented.	7	139 - 146

Lithologic Log of Well PB-1428--Continued

Lat 26°21'09", long 80°17'51"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 7/2); sandy, packed biomicrite, <u>Pecten</u> sp., <u>Chione</u> sp., and bryozoan; about 30 to 35 percent quartz, medium to very fine grained, well sorted (fine), angular to rounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, subrounded to well rounded; well cemented; interbedded with about 20 to 25 percent biolithite.	3	76 - 79
Shells and shell fragments, mollusks, including gastropods, <u>Pecten</u> sp., and <u>Chione</u> sp.; interbedded with about 40 percent limestone as above.	4	79 - 83
Limestone, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6) and to medium-dark-gray (N 4); sandy, sparse intramicrite, mollusks, including gastropods and <u>Pecten</u> sp.; about 25 to 30 percent quartz, very coarse and medium to fine grained, well sorted (fine), subrounded to rounded; about 10 percent phosphorite and heavy minerals, fine grained, rounded to well rounded; moderately to well cemented.	6	83 - 89
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse biomicrite, <u>Pecten</u> sp., gastropods, and planktonic foraminifers; about 20 percent quartz, medium to very fine grained, well sorted (very fine), subangular to rounded; about 15 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; well cemented; interbedded with about 20 percent shells and shell fragments.	4	89 - 93
Limestone, yellowish-gray (5 Y 7/2); sandy, sparse intramicrite, mollusks, and coral; neomorphic calcite is present in places; about 25 percent quartz, medium to very fine grained, moderately sorted (very fine), subangular to rounded; about 10 percent phosphorite, fine to very fine grained, well sorted (very fine), subrounded to well rounded; well cemented.	6	93 - 99
Limestone, yellowish-gray (5 Y 7/2) to light-olive-gray (5 Y 5/2); sandy, sparse intramicrite, mollusks and benthic foraminifers; about 20 percent quartz, coarse to fine grained, poorly sorted, subangular to rounded; about 10 percent phosphorite and heavy minerals, coarse to very fine grained, moderately sorted (fine), rounded to well rounded; loosely to well cemented at 99 to 103 feet and 105 to 106 feet.	7	99 - 106
Limestone, yellowish-gray (5 Y 7/2); sandy, packed intramicrite, mollusks, including <u>Pecten</u> sp.; about 20 to 25 percent quartz, coarse to fine grained, well sorted (fine), subrounded to rounded; about 10 percent phosphorite and heavy minerals, fine to very fine grained, well sorted (very fine), subrounded to rounded; moderately to well cemented.	7	106 - 113

Lithologic Log of Well PB-1428--Continued

Lat 26°21'09", long 80°17'51"

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, light-gray (N 7) to medium-dark-gray (N 4), sandy, packed intramicrite, <u>Pecten</u> sp., <u>Ostrea</u> sp., and bryozoans; about 20 percent quartz, medium to very fine grained, well sorted (very fine), subangular to subrounded; about 10 percent phosphorite, hematite, and heavy minerals, very fine grained, subangular to rounded; moderately to well cemented.	10	146 - 156
Limestone, light-olive-gray (5 Y 6/1); sandy, sparse intramicrite grading into a sandy micrite and a sandstone in places, mollusks; about 35 to 55 percent quartz, fine to very fine grained, well sorted (very fine), angular to subrounded; about 5 to 20 percent phosphorite and heavy minerals; about 25 percent detrital carbonate in sandstone; moderately to well cemented.	7	156 - 163
Sandstone, light-olive-gray (5 Y 6/1); quartzose, fine to very fine grained, well sorted (very fine), angular to subrounded; about 5 to 10 percent phosphorite and heavy minerals, very fine grained subrounded to rounded; about 25 percent detrital carbonate; about 20 to 30 percent sparite matrix; loosely to moderately cemented.	3	163 - 166
Sand, light-olive-gray (5 Y 6/1) to medium-gray (N 5); quartzose, fine to very fine grained, well sorted (fine), angular to subangular; about 15 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 20 percent detrital carbonate and shell fragments; about 15 percent micrite, not cemented.	3	166 - 169
Sand, light-olive-gray (5 Y 5/2); quartzose, fine to very fine grained, well sorted (fine), angular to subangular; about 15 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 35 to 40 percent detrital carbonate and shell fragments.	10	169 - 179
Sand as above; about 3 to 25 percent detrital carbonate and shell fragments; about 5 to 20 percent silty micrite, not cemented.	10	179 - 189
Sand, light-olive-gray (5 Y 5/2); quartzose, fine grained to silt, moderately sorted (silt) angular to subangular; about 10 to 15 percent phosphorite and heavy minerals, very fine grained, subrounded to rounded; about 25 to 30 percent shell fragments, mollusks.	7	189 - 196
Silt, dusky-yellow-green (5 GY 5/2); about 15 to 30 percent quartz, very fine grained, angular; about 5 to 10 percent phosphorite and heavy minerals, very fine grained, subrounded to well rounded; about 5 percent shell fragments, mollusks; about 10 to 30 percent micrite, not cemented.	23	196 - 219