Lithologic Log of Well PB-1552

Lat 26°54′43", long 80°15′20" Sec. 16, T. 41 S., R. 41 E.

Description	Thick- ness (feet)	Depth, feet below land surface
Road fill.	3	0 - 3
Sand, dusky-brown (5 YR 2/2); quartzose, medium to very fine, moderately sorted, subangular to subrounded; about 1 percent carbonates; 20 to 25 percent organic mud, clay and silt size.	2	3 - 5
Sand, dark-yellowish-brown (10 YR 4/2); quartzose as above; 20 to 25 percent micritic mud; about 3 to 5 percent organic fragments; 5 to 10 percent detrital carbonates and shell fragments; Chione, Tellina.	5	5 - 10
Sand, dark-yellowish-brown (10 YR 4/2); quartzose, medium to very fine, moderately sorted, subrounded to rounded; about 1 percent heavy minerals, fine to very fine, subrounded to rounded; about 1 percent detrital carbonates; about 5 to 10 percent mud, clay and silt size.	4	10 - 14
Sand as in 10 to 14 feet.	3	14 - 17
Sand as in 10 to 14 feet.	3	17 - 20
Sand as in 10 to 14 feet.	4	20 - 24
Sand, light-olive-gray (5 Y 5/2); as above; 1 to 3 percent mud, clay and silt size.	3	24 - 27
Sand as in 24 to 27 feet.		27 - 30
Sand, light-gray (N 7) to yellowish-gray (5 Y 7/2); quartzose, medium to very fine, moderately sorted, subangular to subrounded; 1 to 3 percent heavy minerals, fine to very fine, moderately sorted, subangular to rounded; 3 to 5 percent detrital carbonates and shell fragments, Chione, Cardita, other bivavlves.	4	30 - 34
Sand, light-gray (N 7) to yellowish-gray (5 Y 8/1); quartzose, medium to very fine, moderately sorted, angular to subrounded; 1 to 3 percent heavy minerals as above; 30 to 35 percent detrital carbonates and shell fragments, Chione, Ostrea, Cardita, Limopsis, Donat, Cerithium, Crepidula, Prunum, Olivella, Philippia, Chlamys.	3	34 - 37

Description	Thick- ness (feet)	Depth, fee below land surface
Sand, olive-gray (5 Y 4/1); detrital carbonates and shell fragments; 25 to 30 percent quartzose, very fine, well sorted, angular to subrounded 5 to 10 percent heavy minerals and phosphates, fine to very fine, well sorted, subangular to rounded; about 5 percent micrite.	3	77 - 80
Sand, light-olive-gray (5 Y 6/1); as above.	4	80 - 84
Sand, light-olive-gray (5 Y 6/1); quartzose, fine to very fine, well sorted, angular to subrounded; 5 to 10 percent heavy minerals and phosphate as above; 35 to 40 percent detrital carbonates and shell fragments, Terebra .	3	84 - 87
Sand as in 84 to 87 feet.	3	87 - 90
Sand, olive-gray (5 Y 4/1); quartzose, fine to very fine, angular to subrounded, well sorted; 5 to 10 percent heavy minerals and phosphates, fine to very fine, moderately sorted, subrounded to rounded; 35 to 40 percent detrital carbonates and shell fragments.	4	90 - 94
Sand as in 90 to 94 feet.	3	94 - 97
Sand, olive-gray (5 Y 4/1) to medium-dark-gray (N 4); quartzose, medium to very fine, moderately sorted, angular to subrounded; 3 to 5 percent heavy minerals, fine to very fine, well sorted, subrounded to rounded; 20 to 25 percent detrital carbonates and phosphates, very coarse to very fine; 20 to 25 percent shells and shell fragments, Turritella , Chione , echinoid plates, Crucibulum , Tellina , Anadora .		97 - 100
Sand, olive-gray (5 Y 4/1); as above; interbedded with about 20 percent fossiliferous limestone, light-olive gray (5 Y 6/1), packed biosparite, bivalves; 15 to 20 percent quartz, medium to very fine, subangular to subrounded; poorly cemented; very porous.	4	100 - 104
Sand, light-olive-gray (5 Y 6/1); quartzose, medium to very fine, moderately sorted, subangular to subrounded; 5 to 10 percent heavy minerals and phosphates, medium to very fine, moderately sorted, subrounded to rounded; 35 to 40 percent detrital carbonates and shell fragments; interbedded with about 10 percent limestone, packed biosparite; 20 percent quartz, medium to very fine, subangular to subrounded; 3 to 5 percent heavy minerals and phosphates, fine to very fine, subrounded to rounded; poorly cemented; very porous.	3 .	104 - 107

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, interbedded with about 10 percent limestone as above.	3	107 - 110
Sand, light-olive-gray (5 Y 6/1); quartzose, fine to very fine, well sorted, subangular to subrounded; 5 to 10 percent heavy minerals and phosphates, fine to very fine, well sorted, subrounded to rounded; 30 to 35 percent detrital carbonates and shell fragments; lost circulation at 113 feet.		110 - 114
Marl, yellowish-gray (5 Y 8/1); clay and micrite; impermeable.	3	114 - 117
Sand, light-olive-gray (5 Y 6/1); quartzose, medium to very fine, moderately sorted, angular to subrounded; 3 to 5 percent heavy minerals and phosphates, fine to very fine, well sorted, subangular to subrounded; 25 to 30 percent detrital carbonates and shell fragments, abundant bivalve fragments; interbedded with about 20 percent marl as above.	3	117 - 120
Sand, yellowish-gray (5 Y 8/1); detrital carbonates and shell fragments, bivalve fragments; 35 to 40 percent quartzose, fine to very fine, well sorted, angular to subrounded; 3 to 5 percent heavy minerals and phosphates, fine to very fine, well sorted, subrounded to rounded; interbedded with about 10 percent limestone, packed biosparite; 10 percent quartz, fine to very fine, subangular to subrounded; 3 to 5 percent heavy minerals and phosphates, fine to very fine, subrounded to rounded; poorly cemented; very porous, moldic.	4	120 - 124
Sand; as above; quartzose, medium to very fine, moderately sorted, angular to subrounded; interbedded with 20 percent limestone, light-olive-gray (5 Y 6/1); sandy, sparse biosparite; 20 to 25 percent quartz, medium to very fine, subangular to subrounded; 3 to 5 percent heavy minerals and phosphates, fine to very fine, subrounded to rounded; poorly cemented; very porous, moldic.	3	124 - 127
Sand, very light gray (N 8) to yellowish-gray (5 Y 8/1); quartzose, medium to silt size, moderately sorted, angular to subrounded; 3 to 5 percent heavy minerals and phosphates, fine to very fine, well sorted, subrounded to rounded; 15 to 20 percent detrital carbonates and shell fragments.	3	127 - 130
Sand as in 127 to 130 feet.	4	130 - 134

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, very light gray (N 8) to yellowish-gray (5 Y 8/1); quartzose, fine to very fine, well sorted, subangular to subrounded; 1 to 3 percent detrital carbonates, coarse to very fine; 1 to 3 percent heavy minerals and phosphates, fine to very fine, well sorted, subrounded to rounded; 5 to 10 percent sandstone nodules, micritic matrix; very poorly cemented.	3	134 - 137
Sand as in 134 to 137 feet.	3	137 - 140
Sand as in 134 to 137 feet; quartzose, medium to very fine.	4	140 - 144
Clayey sand, light-olive-gray (5 Y 5/2); quartzose, fine to very fine, well sorted, subangular to subrounded; 3 to 5 percent heavy minerals and phosphates as above; 1 to 3 percent detrital carbonates; 15 to 20 percent marl, micrite, clay and silt.	` 3	144 - 147
Clayey sand as in 144 to 147 feet.	3	147 - 150
Clayey sand as in 144 to 147 feet; 20 to 25 percent clay and silt.	4	150 - 154
Clayey sand, light-olive-gray (5 Y 5/2); quartzose, fine to very fine, well sorted, angular to subrounded; 3 to 5 percent heavy minerals and phosphates, fine to very fine, well sorted, subrounded to rounded; 1 to 3 percent detrital carbonates; 25 to 30 percent clay and silt.	3	154 - 157
Sandy clay, grayish-olive (10 Y 4/2); clay and silt; 35 to 40 percent quartzose as above; 3 to 5 percent heavy minerals and phosphates as above; 1 to 3 percent detrital carbonates.	3	157 - 160
Sandy clay, pale-olive (10 Y 6/2) to light-olive-gray (5 Y 5/2); clay and silt; 30 to 35 percent quartzose as above; 5 to 10 percent heavy minerals and phosphates as above; 3 to 5 percent detrital carbonates.	4	160 - 164
Sandy clay, light-olive-gray (5 Y 5/2); as above.	3	164 - 167
Sandy clay as above.	3	167 - 170

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-olive-gray (5 Y 6/1) to yellowish-gray (5 Y 8/1); as above; 3 to 5 percent heavy minerals.		37 - 40
Sand; as above; about 1 to 3 percent rock fragments.	4	40 - 44
Sand; as above; 35 to 40 percent detrital carbonates and shell fragments, <u>Busycon</u> .	3	44 - 47
Sand, olive-gray (5 Y 4/1); quartzose, medium to very fine, moderately sorted, angular to subrounded; 5 to 10 percent heavy minerals and phosphates, fine to very fine, moderately sorted, subangular to rounded; 30 to	3	47 - 50
35 percent detrital carbonates and shell fragments.		
Sand as in 47 to 50 feet.	4	50 - 54
Sand, olive-gray (5 Y 4/1); quartzose, fine to very fine, well sorted, subangular to subrounded; 5 to 10 percent heavy minerals and phosphates, fine to very fine, well sorted, subangular to rounded; 35 to 40 percent detrital carbonates and shell fragments.	3	54 - 57
Sand; as above; interbedded with 10 percent limestone and claystone, light-olive-gray (5 Y 5/2); micrite and clay.	3	57 - 60
Sand, olive-gray (5 Y 4/1); quartzose, fine to very fine, well sorted, angular to subrounded; 3 to 5 percent heavy minerals and phosphates, fine to very fine, well sorted, subangular to rounded; 35 to 40 percent detrital carbonates and shell fragments.	4	60 - 64
Sand, light-olive-gray (5 Y 5/2); as above.	3	64 - 67
Sand as in 64 to 67 feet.	3	67 - 70
Sand, light-olive-gray (5 Y 6/1); as above; quartzose, medium to very fine, angular to subrounded.	4	70 - 74
Sand, light-olive-gray (5 Y 6/1); quartzose, fine to very fine, well sorted, angular to subrounded; 5 to 10 percent heavy minerals and phosphates, fine to very fine, well sorted, subangular to rounded; 1 to 3 percent micrite; 35 to 40 percent detrital carbonates and shell fragments.	3	74 - 77

15-1552

90-100 SITE NO. 265443 0801520.02

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER SITE INVENTORY
SITE SCHEDULE

Date 2-18-86

GENERAL SITE DATA (0) Check One English Metric Units
Site Ident No. 5 15-4-4-30-8-0-1/5-20-02 RG Number R = 0 * Transaction T = A D M V * add, delete, modify, verified
Site-Type 2 = C D H I M P T W * Reliability 3 = C U L M * Reporting Agency 4 = W SC *
Project S 4598-44200 * District 6= 12 * State 7= 12 * County Polin Boach 8= 1099 *
Latitude 9 = 216.57.44.3 * Longitude 10 = 0.50 / 5.20 * Lat-Long 11 = 6 F T M * Accuracy 11 = 6 F T M *
Local Number 12 = PB/5352 1 1 1 1 1 1 1 1 1
Map 14 W 1/10 1 M 16 BOUCH 21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Altitude 16 a 1 2 10 * Measurement 17 = A L M * Accuracy 18 = Tope *
Topo Setting 19 D C E H K L Ø P S T U V W * Hydrologic Unit (OWDC) 20 = 0.309020 2*
Date of First Construction 2 1 0 7 17 1986 * Of 23 = A D E G H @ M P R S T U W X Z * Completion day year Site anode, drain, geo-seismic, hear, observ mine, offer, recharge, repress, test, unused, with - waste, destroyed the receiver at the reservation.
Use of 24 * A B C D E F H I M N P R S T U Y Z * Water au cond. bottling. commercial, dewater, power, fire, domestic, irrigation, seathernal, industrial, public, recreation, stock, institution, unused, desal, other
Secondary Use 25 = * Tertiary Use 26 = * Depth of 27 = 11/120 * 1 * Depth of 28 = 11/100 * 1 * Depth of 29 = 6 *
Water Level 30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 Source 31 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Method of Measurement 34 ° A C E G H L M R S T V Z * arrline, calibrated, estimated, pressure, calibrated, geophysical, manometer, reported, steel, electric, calibrated, other
Site Status 37 = D F G H Ø P R S T V X Z * dry. flowing, nearby, flowing flow
Source of 1 36 * * Pump Used 35 * * Measuring 266 * Measuring 267 * Point Date 267 * * Point Date 267 * *
OWNER IDENTIFICATION (1) R = 158 * T = (A) D M * Date of Ownership 159 # 0.7/1.7/1.286 *
Name: Last 161 = 162 1 1 1 1 1 1 1 1 1
OTHER SITE IDENTIFICATION NUMBERS (1)
R = 189 * T = A D M * Ident 190 #
SITE VISIT DATA (1)
R = 186 * T = A D M * Date of Visit
FIELD WATER QUALITY MEASUREMENTS (1) R = 192 * T = A D M * Date
Degrees C
Conductance 196 # 0 0 0 9 5 * 4 Mhos 197 - * Swite # Same Parameter Value 197 - *
Other (STORET)
Parameter 196 #
① Source of Data Codes:
S D Ø A R L G Z reporting driller, owner, other gov't, other logs, geologist, other agency reported.





