

VIRGINIA DIVISION OF MINERAL RESOURCES
 Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

C-185

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Well Repository No.: W-5511

Date rec'd: Date Processed: 09/04/79

Sample Interval: from 0 to: 660

PROPERTY: James City Service Authority

Number of samples: 132

COMPANY: Delmarva Drilling Company

Total Depth: 660'

COUNTY: James City (Toano)

Oil or Gas: Water: x Exploratory:

From-To	From-To	From-To	From-To	From-To
0-5	50-55	300-5	50-55	600-5
5-10	55-60	5-10	55-60	5-10
10-15	60-65	10-15	60-65	10-15
15-20	65-70	15-20	65-70	15-20
20-25	70-75	20-25	70-75	20-25
25-30	75-80	25-30	75-80	25-30
30-35	80-85	30-35	80-85	30-35
35-40	85-90	35-40	85-90	35-40
40-45	90-95	40-45	90-95	40-45
45-50	95-200	45-50	95-500	45-50
50-55	200-5	50-55	500-5	50-55
55-60	5-10	55-60	5-10	55-60
60-65	10-15	60-65	10-15	-
65-70	15-20	65-70	15-20	-
70-75	20-25	70-75	20-25	-
75-80	25-30	75-80	25-30	Both washed and unwashed samples
80-85	30-35	80-85	30-35	-
85-90	35-40	85-90	35-40	-
90-95	40-45	90-95	40-45	-
95-100	45-50	95-400	45-50	-
100-5	50-55	400-5	50-55	-
5-10	55-60	5-10	55-60	-
10-15	60-65	10-15	60-65	-
15-20	65-70	15-20	65-70	-
20-25	70-75	20-25	70-75	-
25-30	75-80	25-30	75-80	-
30-35	80-85	30-35	80-85	-
35-40	85-90	35-40	85-90	-
40-45	90-95	40-45	90-95	-
45-50	95-300	45-50	95-600	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Owner: James City Service Auth.
Driller: Delmarva Well Co.
County: James City (Toano)

W# 5511
C# 185
Total Depth: 660
Quad: Toano

Depth
(feet)

GEOLOGIC LOG

- 0-5 Sand - grayish orange; moderately stained; slightly clayey; minor silt; medium with some coarse grains; subangular to subrounded; well sorted; quartz; feldspar; some shell fragments; some opaques; spines.
- 5-10 Sand - grayish orange; slightly stained; slightly clayey; some clasts; minor silt; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques; few shell fragments; few weathered glauconite grains.
- 10-15 Sand - grayish orange, very light gray; moderate clay, some clasts; minor silt; medium with some fine and coarse grains; subangular to subrounded; moderately well sorted; quartz; some feldspar; 2% shell fragments; few opaques; spines; ostracods.
- 15-20 Sand - yellowish gray; abundant clay; silty; fine to coarse with some granular grains; subangular to subrounded; moderately sorted; quartz; 22% shell fragments; spines common.
- 20-25 Sand - grayish orange; moderately stained; slightly clayey; medium with some coarse grains; subangular to subrounded; well sorted; quartz; some feldspar; few shell fragments; few opaques.
- 25-30 Sand - grayish orange; slightly stained; minor clay; silty; medium with some coarse grains; subangular to subrounded; well sorted; quartz; some feldspar; some shell fragments; spines.
- 30-35 Sand - grayish orange; very light grain; moderate clay, some clasts; silty; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 2% shell fragments; spines.
- 35-40 Sand and clay - grayish orange, medium light gray; slight to pure clay; up to abundant sand; silt; medium to coarse grained; quartz; some opaques; few flakes of muscovite.

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Depth
(feet)

- 40-45 Sand and clay - (dark) grayish orange, white and light gray; minor silt; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; selenite crystals; few shell fragments; few grains of weathered glauconite; few opaques.
- 45-50 Sand and clay - dusky yellow, light gray and moderate olive brown; moderate to pure clay; fine to medium with some coarse grains; subangular; poorly sorted; quartz; selenite crystals; weathered glauconite.
- 50-55 As above except fewer coarse grains; selenite crystals abundant; spines.
- 55-60 Sand and clay - light gray, grayish orange; clay clasts; fine to medium sand; subangular; moderately well sorted; quartz; selenite crystals; some glauconite; some phosphatic material.
- 60-65 Sand - grayish orange; moderate clay includes light gray clasts; silt; fine to medium grained; subangular; well sorted; quartz; selenite crystals common; some glauconite; few flakes of muscovite; opaques.
- 65-70 Sand and clay - grayish orange, light gray clasts; fine to medium grained; subangular to subrounded; well sorted; quartz; selenite crystals common; muscovite; few spines.
- 70-75 Sand and clay - grayish orange, light gray clasts; fine to medium with some coarse grains; subangular to subrounded; moderately well sorted; quartz; selenite crystals; muscovite; spine (stained green).
- 75-80 Sand - dusky yellow; few white clay clasts; silty; fine to medium grained; subangular to subrounded; well sorted; quartz; glauconite; some selenite crystals; opaques.
- 80-85 Sand - grayish orange; light gray clay clasts common; fine to medium grained; subangular to subrounded; well sorted; quartz; selenite crystals common; glauconite common.
- 85-90 As above.
- 90-95 Sand - grayish orange; minor clay; minor silt; fine with some medium grains; subangular; well sorted; quartz; selenite crystals common; glauconite common; few flakes muscovite.

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Depth
(feet)

- 95-100 Sand - olive light gray; slightly clayey; fine grained; subangular; well sorted; quartz; 7% glauconite; selenite crystals abundant; some muscovite.
- 100-105 Sand - dusky yellow; moderate clay, light gray clay clasts common; fine grained; subangular; well sorted; quartz; 9% glauconite; 3% selenite crystals; some muscovite.
- 105-110 Sand - olive light gray; moderate clay, a few light gray clasts; fine grained; subangular; well sorted; quartz; 9% glauconite; 2% selenite crystals; some muscovite.
- 110-115 As above plus some dark yellowish orange and dark yellowish brown.
- 115-120 As 105-110 above.
- 120-125 Sand - olive light gray, moderate yellowish brown; moderate clay, few light gray clasts; fine grained, few pebbles; subangular; well sorted; quartz; 7% glauconite; abundant selenite crystals; muscovite.
- 125-130 As above except 3% selenite crystals.
- 130-135 Sand - olive light gray; moderate clay; silty; fine grained; subangular; well sorted; quartz; 7% glauconite; 2% selenite crystals; muscovite.
- 135-140 As above plus a few sandy clasts of moderate yellowish brown clay.
- 140-145 As above plus a few granules.
- 145-150 As 130-135 above except selenite crystals common.
- 150-155 As above except 2% selenite crystals.
- 155-160 As above plus a few moderate yellowish brown clay clasts; selenite crystals common.
- 160-165 As above except some selenite crystals; some weathered shell fragments.
- 165-170 Sand - olive light gray, minor moderate yellowish brown clasts; abundant clay; silty; fine grained; subangular; well sorted; quartz; 6% glauconite; some selenite crystals; some muscovite; a few weathered shell fragments; spine (stained green).

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Depth
(feet)

- 170-175 As above with some medium grains; no spine.
- 175-180 As above 2% selenite crystals; no shell fragments; fish tooth.
- 180-185 Sand - olive light gray, a few moderate yellowish brown clasts; moderate clay; silty; fine with some medium grains; subangular; well sorted; quartz; 5% glauconite; some selenite crystals; some muscovite.
- 185-190 Sand - olive light gray; abundant clay; silty; fine with some medium grains; subangular; well sorted; quartz; 4% glauconite; 2% selenite crystals; some muscovite; some phosphatic material; some muscovite; few shell fragments.
- 190-195 Sand - olive light gray; abundant clay; silt; fine with some medium grains; subangular; well sorted; quartz; 2% phosphatic material; 2% weathered shell fragments; some glauconite; few selenite crystals; few flakes of muscovite; foram.
- 195-200 Sand - olive light gray; abundant clay; silty; fine to medium grained; subangular; moderately sorted; quartz; 5% shell fragments; 2% phosphatic material; forams (inc. Norion, Cibicides, Uvigerina, and Globigerina); spines; few selenite rosettes; few sandy limestone fragments.
- 200-205 Sand - olive light gray; moderate clay; some silt; fine to medium grained; subangular; quartz; 6% glauconite; some phosphatic material; some shell fragments; some muscovite; spines; foram; fish tooth.
- 205-210 Sand - olive light gray; abundant clay; silty; fine to coarse grained; subangular; poorly sorted; quartz; 30% shell fragments; 2% phosphatic material; forams (inc. Norion, Uvigerina, Robulus and Lugena); few sandy limestone fragments; few grains of glauconite; shark's tooth fragment.
- 210-215 Sand - light olive gray; moderate clay; silty; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; 10% shell fragments; 2% phosphatic material; few grains of glauconite (black, green stained); few sandy limestone fragments; foram.
- 215-220 As above forams (inc. Norion).
- 220-225 As above plus some fine grains; forams (inc. Norion and Siphogenerinal (?)); spine.

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Depth
(feet)

- 225-230 As above except 7% shell fragments; forams (inc. Nonion).
- 230-235 As above except 5% shell fragments; forams (inc. Nonion, Bulimina, Siphogenerina and Dentalina (?)); pyrite.
- 235-240 As above except 5% sandy and drussy limestone fragments; forams (inc. Uvigerina, Siphogenerina, Bolivina and Robulus).
- 240-245 Sand and limestone - light olive gray; moderate clay; silty; medium to coarse with some fine grains; subangular to rounded; moderately sorted; quartz; 40% sandy and drussy limestone and shell fragments; 5% glauconite (black, green and brown); forams; pyrite; few phosphatic fragments.
- 245-250 Limestone - light olive gray; moderate clay; silty; abundant sand, medium to coarse grained; 70% sandy and drussy limestone and shell fragments; quartz; glauconite (black, green and brown); phosphatic material; pyrite.
- 250-255 As above.
- 255-260 Sand and limestone - light olive gray; abundant clay; fine to coarse grained; subangular to rounded; moderately sorted; 35% sandy and drussy limestone and shell fragments; 25% forams and ostracodes (inc. Nonion, Discorbis, Globigerina, Rotalia, Robulus, Bolivina, Uvigerina, Nodosaria (?), Textularia and Marginulina); 20% glauconite (black, green and brown); spines.
- 260-265 Sand - light olive gray; moderate clay; silty; medium to coarse grained; subangular to rounded; moderately sorted; quartz; 25% sandy and drussy limestone and shell fragments; 5% glauconite (black, green and brown); forams (inc. Nonion, Rotalia and Uvigerina); phosphatic material; pyrite; spines; ostracodes.
- 265-270 As above except 30% limestone and shell fragments; forams (inc. Nonion, Rotalia and Textularia).
- 270-275 As above except 15% limestone and shell fragments; 6% glauconite (black, green and brown); forams (inc. Nonion, Discorbis and Quinqueloculina); fish vertebra; no ostracode observed.
- 275-280 Sand and limestone - light olive gray; slightly clayey; silt; fine to coarse grained; subangular to rounded; poorly sorted; 40% sandy limestone and shell fragments; quartz; glauconite (black, green and brown); pyrite; spines; forams (inc. Nonion & Discorbis); ostracodes.

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Depth
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- 280-285 Limestone and sand - light olive gray; slightly clayey; fine to coarse grained; subangular to rounded; moderately sorted sand; sandy and drussy limestone and shell fragments; quartz; glauconite (black, brown and green); forams (inc. Nonion, Robulus and Marginulina); pyrite; spines and ostracodes.
- 285-290 Sand and limestone - olive light gray; moderately clayey; fine to coarse grained; angular to rounded; moderately sorted; quartz; 35% glauconite (black, green & brown); 25% sandy and drussy limestone and shell fragments; 7% forams (inc. Discorbis; Buccella; Bulimina, Globulina, Guttulina, Uvigerina, Textularia, & Globigerina); pyrite; gypsum crystals; ostracodes; spines.
- 290-295 As above except 2% forams (inc. Discorbis, Uvigerina, Globigerina, Bolivina): shark's tooth fragment.
- 295-300 As above except forams common (inc. Discorbis, Siphogenerina, Lagena, Globigerina, Cibicides, Bulimina, and Quinqueloculina); shark's tooth.
- 300-305 Sand - light olive gray; abundant clay; fine to coarse grained; angular to rounded; moderately sorted; quartz; 40% glauconite (black, green and brown); 15% sandy limestone and shell fragments; forams (inc. Discorbis, Buccella and Robulus); gypsum crystals; pyrite; ostracodes.
- 305-310 Sand - light olive gray, grayish orange pink; abundant clay; medium to coarse grained; subangular to rounded; moderately sorted; quartz; 35% glauconite; 15% sandy limestone and shell fragments; forams (inc. Uvigerina, Bolivina, & Globigerina); gypsum; ostracodes; spines.
- 310-315 Sand - light olive gray; grayish orange pink; abundant clay; fine to coarse grained; angular to rounded; moderately sorted; quartz; 30% glauconite (black, green and brown); 8% sandy limestone and shell fragments; forams (inc. Nonion, Discorbis, Bolivina & Uvigerina); gypsum crystals; pyrite; ostracodes; spines; fish vertebra.
- 315-320 Sand - light olive gray, grayish orange pink; abundant clay; fine to coarse with some very coarse grains; rounded; moderately sorted; 48% glauconite; quartz; 7% sandy and drussy limestone and shell fragments; forams (inc. Nonion, Uvigerina, Discorbis and Marginulina); gypsum; ostracodes; spines; pyrite.

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Depth
(feet)

- 320-325 As above except medium to coarse with some very coarse grains, 60% glauconite; 30% quartz; 10% sandy and drusy limestone and shell fragments; forams (inc. Robulus and Nonion); no ostracodes observed.
- 325-330 Sand - light olive gray and minor moderate orange pink; abundant clay; medium to coarse grained; rounded; moderately well sorted; 50% glauconite; quartz; 3% sandy limestone and shell fragments; gypsum crystals; forams (inc. Robulus, Bolivina and Nodosaria); spines; pyrite.
- 330-335 As above except 5% sandy limestone and shell fragments; forams (inc. Bolivina).
- 335-340 As above plus an ostracode.
- 340-345 As above except fine to coarse grained; forams (inc. Discorbis and Robulus); a few purple dolomite cemented sandstone fragments; shark's tooth.
- 345-350 As above except 60% glauconite; foram (Bolivina); no spines; no sharks tooth.
- 350-355 As above except 5% purple dolomite cemented sandstone fragments; forams (inc. Buccella, Nodosaria, & Uvigerina).
- 355-360 As above except 7% moderate orange pink clay clasts; a few purple dolomite cemented sandstone fragments; forams (inc. Globigerina); no gypsum.
- 360-365 Sand - light olive gray, olive gray & minor moderate orange pink; moderate clay; fine to coarse grained; rounded; moderately well sorted; 70% glauconite; quartz; few sandy limestone fragments; forams (inc. Marginulina and Nodosaria); sharks tooth; fish vertebra.
- 365-370 As above except slightly clayey; foram (Marginulina); no tooth; no vertebra; ostracode.
- 370-375 Sand - light olive gray, olive gray, & grayish yellow; moderate clay; medium to coarse grained; rounded; moderately well sorted; 60% glauconite; quartz; some sandy and drusy limestone fragments; few spines; few grains of pyrite; foram.
- 375-380 Sand - light olive gray, olive gray; moderate clay; fine to coarse grained; rounded; moderately well sorted; 60% glauconite; quartz; some sandy and drusy limestone fragments; spines; foram (Bolivina).

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(feet).

- 380-385 As above plus salt & pepper appearance; slightly clayey; 50% glauconite; some shell fragments; forams (inc. Nodosaria); ostracode; no spines.
- 385-390 Sand - salt and pepper (dominantly olive gray); medium to coarse grained; rounded; moderately sorted; quartz; 50% glauconite; some feldspar; few sandy limestone and shell fragments; pyrite; foram; spine.
- 390-395 Sand - salt & pepper light olive gray, olive gray; slightly clayey; fine to coarse grained; rounded; moderately sorted; quartz; 45% glauconite; few shell and sandy limestone fragments; pyrite; foram (Nodosaria).
- 395-400 As above except a few fragments of purple sandy dolomite; few feldspar grains; no foram.
- 400-405 Sand - salt and pepper light olive gray, olive green; slightly clayey; fine to very coarse grained; subangular to rounded; poorly sorted; quartz; 40% glauconite; feldspar; some shell and limestone fragments; garnet; spine; ostracode valve.
- 405-410 As above plus some muscovite; foram; no spine.
- 410-415 As above except moderately clayey, some grayish orange pink and greenish gray clasts; few grains of garnet.
- 415-420 Sand - salt and pepper; slightly clayey; fine to very coarse grained; subangular to rounded; poorly sorted; quartz; 35% glauconite; feldspar; few shell and limestone fragments; few garnets; forams; spine; shark's tooth.
- 420-425 As above except 30% glauconite; muscovite; ostracode; no spine or tooth observed.
- 425-430 As above plus a few granules; no ostracode; spine.
- 430-435 Sand - salt and pepper; slightly clayey with a few grayish orange pink clasts; fine to very coarse grained; subangular to rounded; poorly sorted; quartz; 30% glauconite; feldspar; few limestone fragments; fine flakes of muscovite; garnet.
- 435-440 As above plus some shell fragments; pyrite; few forams; spine; few grains of garnet.

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Depth
(feet)

- 440-445 Sand - salt and pepper; slightly clayey, a few grayish orange pink clasts; fine to very coarse grained; subangular to rounded; poorly sorted; quartz; 20% glauconite; feldspar; few shell and limestone fragments; few flakes of muscovite.
- 445-450 Sand - salt and pepper light olive gray; slightly clayey with a few grayish orange pink and light olive gray clasts; fine to very coarse with a few granular grains; subangular to rounded; poorly sorted; quartz; 20% glauconite; feldspar; few flakes of muscovite; garnet.
- 450-455 Sand - salt and pepper light olive gray; slightly clayey; fine to very coarse grained; subangular to rounded; poorly sorted; quartz; 25% glauconite; feldspar; few shell fragments; few flakes of muscovite; foram.
- 455-460 As above plus pyrite fragment.
- 460-465 As 450-455 plus a few pebbles; 20% glauconite; plus a few sandy limestone and dolomite fragments; (Nodosaria).
- 465-470 Sand - salt and pepper light olive gray; slightly clayey; fine to very coarse with a few pebbles; subangular to rounded; poorly sorted; quartz; 20% glauconite; feldspar; few grains of garnet; few shell fragments.
- 470-475 As above plus a few shell, sandy limestone and dolomite fragments; few flakes of muscovite.
- 475-480 As above except 15% glauconite; a few sandy limestone fragments.
- 480-485 As above.
- 485-490 Sand - salt and pepper light olive gray; slightly clayey; fine to very coarse grained; subangular to rounded; poorly sorted; quartz; 20% glauconite; feldspar; few grains of garnet; few flakes of muscovite.
- 490-495 As above plus a few pebbles; 15% glauconite; few fragments of sandy limestone.
- 495-500 As above except 8% glauconite; few shell and sandy limestone fragments; foram.
- 500-505 Sandy - salt and pepper yellowish gray; slightly clayey; fine to coarse grained; subangular to rounded; moderately sorted; quartz; 20% glauconite; feldspar; few grains of garnet; few flakes of muscovite; few shell fragments; Robulus.

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Depth.
(feet)

- 505-510 As above except no Robulus.
- 510-515 As above plus a few sandy limestone fragments; Nonion and Marginulina.
- 515-520 As above except no Nonion or Marginulina.
- 520-525 Sand - salt and pepper yellowish gray; slightly clayey; fine to medium with some coarse grains; subangular to rounded; moderately well sorted; quartz; 25% glauconite; feldspar; some muscovite; few grains of sandy limestone fragments; few spines.
- 525-530 Sand - yellowish gray; slightly clayey; fine to coarse grained; subangular to rounded; moderately well sorted; quartz; 20% glauconite; feldspar; few flakes of muscovite; few sandy limestone fragments; few grains of garnet; spines.
- 530-535 As above except moderately sorted; 25% glauconite.
- 535-540 As 525-530 except no spines observed.
- 540-545 Sand - yellowish gray; slightly clayey; medium to coarse with some fine grains; subangular to subrounded; moderately well sorted; quartz; feldspar; 3% glauconite; some muscovite.
- 545-550 As above except 5% glauconite.
- 550-555 Sand - yellowish gray; slightly clayey; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; 2% glauconite; few flakes of muscovite.
- 555-560 Sand - yellowish gray; slightly clayey; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; 3% glauconite; few flakes of muscovite.
- 560-565 Sand - yellowish gray; moderately clayey; silty; fine to very coarse grained; subangular to rounded; poorly sorted; quartz; 20% glauconite; feldspar; few flakes of muscovite; few shell and sandy limestone fragments.
- 565-570 As above except very fine to very coarse grained; 15% glauconite.
- 570-575 Sand - yellowish gray; moderate clay; silty; very fine to fine with some medium and coarse grains; subangular to rounded; moderately well sorted; quartz; 20% glauconite; some feldspar; some muscovite; foram.

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Depth
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575-580 Sand - yellowish gray; moderate clay, silty; very fine to very coarse grained; subangular to rounded; moderately sorted; quartz; 15% glauconite; feldspar; some muscovite; foram.

580-585 Sand - yellowish gray; slightly clayey; medium to coarse with some fine grains; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few flakes of muscovite; few grains of garnet.

585-590 As above except some very coarse grains.

590-595 As 580-585 except some garnet.

595-600 Sand - yellowish gray; slightly clayey; fine to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; 2% glauconite; some garnet; few flakes of muscovite.

600-605 As above except fine to very coarse grained; 7% glauconite.

605-610 As above except 2% glauconite.

610-615 Sand - light olive gray; slightly clayey; medium to very coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; some garnet; a few grains of glauconite.

615-620 Sand - olive light gray; slightly clayey; fine to very coarse grains; subangular to subrounded; poorly sorted; quartz; feldspar; some garnet; a few grains of glauconite.

620-625 Sand - yellowish gray, slightly clayey; fine to medium with some coarse and very coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; 2% glauconite; muscovite common; some garnet.

625-630 As above.

630-635 Sand - light olive gray; slightly clayey; fine to very coarse grained; moderately sorted; quartz; feldspar; muscovite common; 2% glauconite; few grains of garnet.

635-640 Sand - yellowish gray; slightly clayey; fine to medium with some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; 2% glauconite; muscovite common; few grains of garnet.

640-645 As above except fine to coarse grained; moderately sorted.

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Depth.
(feet).

645-650 As above.

650-655 As above.

655-660 As above.

Logged by David A. Hubbard
December 12, 1979

U.S.G.S. Litho Log for James City County

- 0 - 5' sand, yellow, brown, coarse
- 5 - 10' sand, fine, tan to brown, silt some clay
- 10 - 15' sand, coarse, tan to brown; some blue clay
- 15 - 20' blue clay, shells, some sand
- 20 - 25' sand, fine, tan to brown, silt & clay
- 25 - 30' sand, coarse, clay & silt
- 30 - 35' gray & blue clay, yellow brown sand, coarse silt
- 35 - 40' gray & blue clay, yellow brown sand, coarse, silt
- 40 - 45' blue, gray & brown clay, silt, fine sand, some shell
- 45 - 50' blue clay mostly, some brown, and orange clay also silt and fine sand very small amount of shell
- 50 - 55' mostly blue clay, some brown, tan and gray clay, silt
- 55 - 60' blue, brown, orange and gray clay, fine sand, silt
- 60 - 65' fine sand, silt a little blue & gray clay
- 65 - 70' fine sand, more silt than 60-65', blue, gray, orange & brown clay in slight amounts
- 70 - 75' fine sand, silt, less blue, gray, orange & brown clay
- 75 - 80' same as 70-75', except more blue clay
- 80 - 85' fine sand, silt more blue and orange clay
- 85 - 90' silt, more than 80-85', fine sand, a little blue, gray & brown clay
- 90 - 95' fine sand & silt, streaks of blue, brown and orange clay
- 95 - 100' more blue clay, fine sand & silt, slight amounts of gray, brown & orange clay
- 100 - 105' green, blue clay, some brown orange streaks, silt & fine sand
- 105 - 110' blue, green clay, some orange brown & gray silt
- 110 - 115' blue green clay, more gray clay a little orange & brown clay, silt, fine sand
- 115 - 120' blue-green clay, slight amounts of gray & orange clay, silt, fine sand
- 120 - 125' same as 115-120' except for a little brown clay
- 125 - 130' same as 120-125'
- 130 - 135' blue green clay, less of gray, orange and brown, some silt, fine sand
- 135 - 140' blue green clay, almost entirely, some fine sand
- 140 - 145' blue green clay, fine sand
- 145 - 150' same
- 150 - 155' same
- 155 - 160' same
- 160 - 165' blue green clay, silt, small amounts of shell, fine sand
- 165 - 170' same

170 - 175' blue clay & silt, fine sand
175 - 180' blue clay, silt, slight amount of shell, fine sand
180 - 185' same with very slight amount of shell, fine sand
185 - 190' same, with very slight amount of shell, fine sand
190 - 195' same as 185-190' with streaks of brown clay also
195 - 200' silt, more blue clay than 190-195', some shell
200 - 205' blue clay and silt, some shell
205 - 210' blue clay, fine to med. sand, more shell than 200-205'
210 - 215' same
215 - 220' blue clay, silt, fine sand, some shell
220 - 225' blue clay, coarse sand, good amount of shell
225 - 230' same with some brown clay
230 - 235' same, more brown clay
235 - 240' same as 230 - 235'
240 - 245' more sand, coarse blue clay, shell
245 - 250' coarse sand and shell, a little silt
250 - 255' same as 245-250'
255 - 260' blue clay, coarse sand & shell, silt
260 - 265' blue clay, shell, more silt
265 - 270' same as 260-265'
270 - 275' same
275 - 280' blue clay, more shell, silt in bigger fragments
280 - 285' blue clay in greater quantity, shell, silt
285 - 290' same as 280-285'
290 - 295' same
295 - 300' green clay, much more silt, much less shell
300 - 305' green clay in greater quantity, silt, a little shell
305 - 310' same with less shell
310 - 315' green clay, more silt, shell in fine fragments
315 - 320' green clay, very silty, very small amount of shell
320 - 325' green clay, silt, fine sand, (pepper)
325 - 330' same
330 - 335' same with small amount of shell fragments, more blue clay
335 - 340' same
345 - 350' same
350 - 355' same - more pepper sand
355 - 360' same as 350 - 355'
360 - 365' same

365 - 370'	same
370 - 375'	same
375 - 380'	same
380 - 385'	mostly pepper sand, some silt, a little gray & blue clay
385 - 390'	same, a little shell
390 - 395'	silt, clay matrix with pepper sand, very little shell
395 - 400'	same
400 - 405'	green sand w/pepper sand & minute quantity of shell, clay & silt
405 - 410'	same
415 - 420'	same
420 - 425'	blue clay, pepper sand, & little shell
430 - 435'	same, with shell
435 - 440'	blue & gray, coarse sand, pepper sand, silt (hard drilling)
440 - 445'	clay, coarse sand, pepper sand, silt (hard drilling)
445 - 450'	coarse sand, clay, silt, pepper sand (hard drilling)
450 - 455'	same
455 - 460'	same
460 - 465'	same with very small amount of shell
465 - 470'	same
470 - 475'	coarse sand, clay, silt, pepper sand, very small amount of shell
475 - 480'	same
480 - 485'	same, no shell
485 - 490'	coarse sand, clay, silt, pepper sand
490 - 495'	more clay & silt than 485-490', fine sand
495 - 500'	same
500 - 505'	clay, silt, fine sand, pepper sand
505 - 510'	clay, silt, less fine sand
510 - 515'	clay, silt, fine sand
515 - 520'	same
520 - 525'	same
525 - 530'	same
530 - 535'	silt, less fine sand than 525-530', some clay
535 - 540'	silt, more fine sand
540 - 545'	more fine sand, silt clay
545 - 550'	coarse sand, clay, silt
550 - 555'	fine sand, green gray clay, silt
555 - 560'	same

560 - 565' green-gray clay, fine sand, silt
565 - 570' silt and clay, less fine sand than 560-565'
570 - 575' clay & silt, medium to coarse sand
575 - 580' clay & silt, medium to coarse sand
580 - 585' coarse sand, clay, silt
585 - 590' same
590 - 595' more coarse sand, less clay & silt
595 - 600' same
600 - 605' same
605 - 610' lots of coarse sand (well sorted) very little clay & silt
610 - 615' lots of coarse, round, well sorted sand
615 - 620' coarse sand, more clay & silt
620 - 625' fine sand, silt, gray clay
625 - 630' fine sand, silt, gray clay
630 - 635' fine to medium sand, silt, gray clay
635 - 640' fine sand, gray clay, silt
640 - 645' fine sand, silt, gray clay
645 - 650' same
650 - 655' same
655 - 660' same

Total depth drilled = 660.0 ft.

Time 1425 Date 1/25/79

Recorded by J.M. Abe