

LITHOLOGIC WELL LOG PRINTOUT

SOURCE - SFWM

WELL NUMBER: W-16029

COUNTY - HENDRY

TOTAL DEPTH: 00500 FT.

LOCATION: T.45S R.30E

S.12 BA

72 SAMPLES FROM 0 TO 500 FT.

LAT = 26D 35M

13S

LON = 81D 17M

07S

COMPLETION DATE: 09/06/87

ELEVATION: 30 FT

OTHER TYPES OF LOGS AVAILABLE - GEOLOGIST, CALIPER, ELECTRIC, GAMMA,
NEUTRON

OWNER/DRILLER:SFWMD-ALICO PROPERTY (SITE A); DRILLER: TONY LUBRANO

WORKED BY:SMITH AND ADAMS, SAMPLE QUALITY GOOD; SFWMD 051-27; W-125
HYDROGEOLOGIC UNITS

0 185 SURFICIAL AQUIFER SYSTEM

0 7 WATER TABLE AQUIFER

7 20 TAMIAMI CONFINING ZONE

20 185 LOWER TAMIAMI AQUIFER

185 202 UPPER HAWTHORN CONFINING ZONE

202 222 CLASTIC ZONE - SANDSTONE AQUIFER(LOW YIELD)

222 500 MID HAWTHORN CONFINING ZONE

0.	-	20.	090UDSC	UNDIFFERENTIATED SAND AND CLAY
20.	-	25.	122TMIM	TAMIAMI FM.
25.	-	500.	122HTRN	HAWTHORN GROUP

0	-	5	SAND; GRAYISH BROWN TO DARK YELLOWISH BROWN 25% POROSITY: INTERGRANULAR GRAIN SIZE: MEDIUM; RANGE: MEDIUM TO COARSE ROUNDNESS: ROUNDED TO SUB-ANGULAR; MEDIUM SPHERICITY UNCONSOLIDATED ACCESSORY MINERALS: PEAT-03%, HEAVY MINERALS-01% PLANT REMAINS-01% OTHER FEATURES: FROSTED
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5	-	7	SAND; YELLOWISH GRAY 30% POROSITY: INTERGRANULAR GRAIN SIZE: MEDIUM; RANGE: MEDIUM TO COARSE MEDIUM SPHERICITY; UNCONSOLIDATED OTHER FEATURES: FROSTED
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7	-	15	SAND; LIGHT OLIVE GRAY TO GRAYISH ORANGE 20% POROSITY: INTERGRANULAR, LOW PERMEABILITY GRAIN SIZE: FINE; RANGE: FINE TO MEDIUM ROUNDNESS: SUB-ANGULAR TO ANGULAR; MEDIUM SPHERICITY POOR INDURATION CEMENT TYPE(S): CLAY MATRIX ACCESSORY MINERALS: SILT-05%, IRON STAIN- %
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15	-	19	SAND; LIGHT OLIVE GRAY 25% POROSITY: INTERGRANULAR, LOW PERMEABILITY
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GRAIN SIZE: COARSE; RANGE: FINE TO COARSE
ROUNDNESS: SUB-ANGULAR TO ROUNDED; LOW SPHERICITY
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CALCILUTITE-02%
OTHER FEATURES: FROSTED

19 - 20 SAND; YELLOWISH GRAY
15% POROSITY: INTERGRANULAR, LOW PERMEABILITY
GRAIN SIZE: COARSE; RANGE: MICROCRYSTALLINE TO COARSE
ROUNDNESS: ROUNDED TO SUB-ANGULAR; LOW SPHERICITY
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: CALCILUTITE-05%, CALCITE-02%, SPAR-
01%

20 - 25 LIMESTONE; LIGHT OLIVE GRAY
12% POROSITY: MOLDIC, PIN POINT VUGS
POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CRYSTALS, INTRACLASTS, BIOGENIC
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MICROCRYSTALLINE
RANGE: MICROCRYSTALLINE TO COARSE; MODERATE INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT
ACCESSORY MINERALS: QUARTZ SAND-15%
OTHER FEATURES: SUCROSIC
FOSSILS: BARNACLES

25 - 33 SANDSTONE; LIGHT OLIVE GRAY
15% POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: MEDIUM TO COARSE
ROUNDNESS: SUB-ROUNDED TO ROUNDED; MEDIUM SPHERICITY
GOOD INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC GRAVEL-01%, CALCILUTITE-
01%
OTHER FEATURES: FROSTED
FOSSILS: BARNACLES

33 - 37 AS ABOVE

37 - 42 SANDSTONE; LIGHT OLIVE GRAY
20% POROSITY: INTERGRANULAR, VUGULAR
POSSIBLY HIGH PERMEABILITY
GRAIN SIZE: COARSE; RANGE: MEDIUM TO COARSE
ROUNDNESS: SUB-ROUNDED TO ROUNDED; MEDIUM SPHERICITY
MODERATE INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT
FOSSILS: BARNACLES

42 - 55 SANDSTONE; LIGHT OLIVE GRAY TO GRAYISH ORANGE PINK
01% POROSITY: POSSIBLY HIGH PERMEABILITY
GRAIN SIZE: COARSE; RANGE: COARSE TO COARSE
ROUNDNESS: ROUNDED TO SUB-ANGULAR; MEDIUM SPHERICITY

POOR INDURATION
 CEMENT TYPE(S): SPARRY CALCITE CEMENT
 ACCESSORY MINERALS: SPAR-02%, PHOSPHATIC GRAVEL-01%
 OTHER FEATURES: SUCROSIC

55 - 60 SANDSTONE; YELLOWISH GRAY
 20% POROSITY: INTERGRANULAR, POSSIBLY HIGH PERMEABILITY
 GRAIN SIZE: COARSE; RANGE: MEDIUM TO COARSE
 ROUNDNESS: ROUNDED TO SUB-ANGULAR; MEDIUM SPHERICITY
 POOR INDURATION
 CEMENT TYPE(S): SPARRY CALCITE CEMENT
 ACCESSORY MINERALS: SPAR-01%, PHOSPHATIC SAND-01%
 OTHER FEATURES: FROSTED

60 - 65 AS ABOVE

65 - 70 SANDSTONE; LIGHT OLIVE GRAY
 20% POROSITY: INTERGRANULAR
 GRAIN SIZE: COARSE; RANGE: MEDIUM TO COARSE
 ROUNDNESS: ROUNDED TO SUB-ANGULAR; MEDIUM SPHERICITY
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 ACCESSORY MINERALS: PHOSPHATIC SAND-01%, CALCILUTITE-01%

70 - 75 SANDSTONE; LIGHT OLIVE GRAY
 15% POROSITY: INTERGRANULAR
 GRAIN SIZE: MEDIUM; RANGE: FINE TO COARSE
 ROUNDNESS: SUB-ANGULAR TO ROUNDED; MEDIUM SPHERICITY
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 ACCESSORY MINERALS: CALCILUTITE-05%, CLAY-01%, SPAR-01%

75 - 80 AS ABOVE

80 - 82 SANDSTONE; LIGHT OLIVE GRAY
 20% POROSITY: INTERGRANULAR
 GRAIN SIZE: COARSE; RANGE: COARSE TO COARSE
 ROUNDNESS: ROUNDED TO SUB-ROUNDED; HIGH SPHERICITY
 POOR INDURATION
 CEMENT TYPE(S): SPARRY CALCITE CEMENT
 ACCESSORY MINERALS: SPAR-05%
 OTHER FEATURES: SUCROSIC

82 - 90 SANDSTONE; LIGHT OLIVE GRAY
 20% POROSITY: INTERGRANULAR, POSSIBLY HIGH PERMEABILITY
 GRAIN SIZE: COARSE; RANGE: MEDIUM TO COARSE
 ROUNDNESS: ROUNDED TO SUB-ANGULAR; MEDIUM SPHERICITY
 POOR INDURATION
 CEMENT TYPE(S): SPARRY CALCITE CEMENT
 ACCESSORY MINERALS: SPAR-05%
 OTHER FEATURES: SUCROSIC
 FOSSILS: FOSSIL FRAGMENTS

90 - 95 AS ABOVE

95 - 100 AS ABOVE

100 - 102 SANDSTONE; LIGHT OLIVE GRAY
15% POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: MEDIUM TO COARSE
ROUNDNESS: SUB-ROUNDED TO ROUNDED; HIGH SPHERICITY
GOOD INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT
FOSSILS: FOSSIL FRAGMENTS
CONSTANT CHATTER WHEN DRILLING

102 - 105 SANDSTONE; LIGHT OLIVE GRAY
20% POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: MEDIUM TO VERY COARSE
ROUNDNESS: SUB-ANGULAR TO ROUNDED; MEDIUM SPHERICITY
POOR INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, DOLOMITE CEMENT
ACCESSORY MINERALS: SPAR-07%, PHOSPHATIC GRAVEL-01%
OTHER FEATURES: SUCROSIC
FOSSILS: FOSSIL FRAGMENTS

105 - 110 SANDSTONE; LIGHT OLIVE GRAY
15% POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: MEDIUM TO COARSE
ROUNDNESS: ROUNDED TO SUB-ROUNDED; MEDIUM SPHERICITY
MODERATE INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SPAR-10%
OTHER FEATURES: SUCROSIC
FOSSILS: FOSSIL FRAGMENTS

110 - 115 SANDSTONE; LIGHT OLIVE GRAY
10% POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: MEDIUM TO COARSE
ROUNDNESS: ROUNDED TO SUB-ROUNDED; MEDIUM SPHERICITY
POOR INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SPAR-05%
OTHER FEATURES: SUCROSIC
FOSSILS: FOSSIL FRAGMENTS

115 - 122 SANDSTONE; LIGHT OLIVE GRAY
25% POROSITY: INTERGRANULAR, POSSIBLY HIGH PERMEABILITY
GRAIN SIZE: COARSE; RANGE: MEDIUM TO VERY COARSE
ROUNDNESS: ROUNDED TO SUB-ROUNDED; MEDIUM SPHERICITY
POOR INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT
OTHER FEATURES: SUCROSIC
FOSSILS: FOSSIL FRAGMENTS
CONSTANT CHATTER WHEN DRILLING

122 - 132 SAND; LIGHT GRAY TO LIGHT OLIVE GRAY
25% POROSITY: INTERGRANULAR, POSSIBLY HIGH PERMEABILITY

GRAIN SIZE: VERY COARSE; RANGE: COARSE TO VERY COARSE
ROUNDNESS: ROUNDED TO SUB-ROUNDED; MEDIUM SPHERICITY
POOR INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT
OTHER FEATURES: SUCROSIC
FOSSILS: FOSSIL FRAGMENTS
SOME CALCITE CEMENTED SANDSTONE (10%)

132 - 142 AS ABOVE

142 - 150 SAND; LIGHT GRAY TO LIGHT OLIVE GRAY
25% POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: MEDIUM TO COARSE
ROUNDNESS: ROUNDED TO SUB-ROUNDED; MEDIUM SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: SPAR-05%, PHOSPHATIC GRAVEL-01%
OTHER FEATURES: SUCROSIC
FOSSILS: FOSSIL FRAGMENTS
WITH 10% CALCITE CEMENTED SANDSTONE

150 - 162 AS ABOVE

162 - 170 SAND; LIGHT GRAY TO LIGHT OLIVE GRAY
25% POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: MEDIUM TO COARSE
MEDIUM SPHERICITY; UNCONSOLIDATED
ACCESSORY MINERALS: SPAR-02%, PHOSPHATIC GRAVEL-01%
OTHER FEATURES: FROSTED
FOSSILS: FOSSIL FRAGMENTS
BIT JETTED DOWN WITHOUT DRILLING FROM 162' TO 185'

170 - 182 AS ABOVE

182 - 185 AS ABOVE

185 - 187 GRAVEL; OLIVE GRAY
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
GRAIN SIZE: GRANULE; RANGE: VERY FINE TO GRAVEL
ROUNDNESS: ANGULAR TO ROUNDED; MEDIUM SPHERICITY
POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
ACCESSORY MINERALS: SILT-10%, PHOSPHATIC GRAVEL-02%

187 - 197 SAND; GRAYISH OLIVE TO OLIVE GRAY
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
ROUNDNESS: ANGULAR TO SUB-ANGULAR; MEDIUM SPHERICITY
POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
ACCESSORY MINERALS: SILT-20%

197 - 202 SAND; LIGHT OLIVE GRAY
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
GRAIN SIZE: FINE; RANGE: VERY FINE TO COARSE

HIGH SPHERICITY; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
ACCESSORY MINERALS: SILT-15%, CALCILUTITE-10%
PHOSPHATIC SAND-01%
FOSSILS: FOSSIL FRAGMENTS

- 202 - 205 SAND; YELLOWISH GRAY TO LIGHT OLIVE GRAY
15% POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: FINE TO COARSE
ROUNDNESS: SUB-ROUNDED TO ROUNDED; MEDIUM SPHERICITY
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: SILT-05%, CALCILUTITE-05%
PHOSPHATIC GRAVEL-01%
OTHER FEATURES: FROSTED
- 205 - 215 AS ABOVE
- 215 - 222 SAND; LIGHT OLIVE GRAY
10% POROSITY: INTERGRANULAR
GRAIN SIZE: VERY COARSE; RANGE: COARSE TO GRAVEL
MEDIUM SPHERICITY; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CALCILUTITE-05%, PHOSPHATIC GRAVEL-
01%
OTHER FEATURES: FROSTED
- 222 - 235 SAND; LIGHT OLIVE GRAY
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
GRAIN SIZE: COARSE; RANGE: MEDIUM TO COARSE
ROUNDNESS: SUB-ROUNDED TO ROUNDED; MEDIUM SPHERICITY
POOR INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: SILT-15%, PHOSPHATIC SAND-01%
OTHER FEATURES: FROSTED
- 235 - 240 SILT-SIZE DOLOMITE; LIGHT OLIVE GRAY
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
POOR INDURATION
ACCESSORY MINERALS: QUARTZ SAND-50%
- 240 - 250 AS ABOVE
- 250 - 260 SILT-SIZE DOLOMITE; OLIVE GRAY
07% POROSITY: INTERGRANULAR, LOW PERMEABILITY
POOR INDURATION
ACCESSORY MINERALS: QUARTZ SAND-45%, PHOSPHATIC SAND-02%
- 260 - 270 AS ABOVE
- 270 - 280 SILT-SIZE DOLOMITE; OLIVE GRAY
07% POROSITY: INTERGRANULAR, LOW PERMEABILITY
POOR INDURATION
ACCESSORY MINERALS: QUARTZ SAND-50%, PHOSPHATIC SAND-02%

280 - 290 SILT-SIZE DOLOMITE; LIGHT OLIVE GRAY
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
ACCESSORY MINERALS: QUARTZ SAND-45%, CALCILUTITE-10%
PHOSPHATIC SAND-01%
FOSSILS: FOSSIL FRAGMENTS

290 - 294 CALCILUTITE; LIGHT OLIVE GRAY TO OLIVE GRAY
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, INTRACLASTS
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: MICROCRYSTALLINE TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-02%, QUARTZ SAND-50%
SILT-10%

294 - 300 AS ABOVE

300 - 310 SILT; GRAYISH OLIVE
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-50%, PHOSPHATIC SAND-04%

310 - 315 SILT-SIZE DOLOMITE; YELLOWISH GRAY TO LIGHT OLIVE GRAY
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-50%, CALCILUTITE-10%
PHOSPHATIC SAND-04%

315 - 320 SILT-SIZE DOLOMITE; YELLOWISH GRAY TO LIGHT OLIVE GRAY
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-50%, CALCILUTITE-10%
CLAY-10%, PHOSPHATIC SAND-04%

320 - 330 AS ABOVE

330 - 340 SILT-SIZE DOLOMITE; LIGHT OLIVE GRAY
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-10%, QUARTZ SAND-50%
PHOSPHATIC SAND-04%, CALCILUTITE-10%
OTHER FEATURES: FROSTED

340 - 345 SILT-SIZE DOLOMITE; LIGHT OLIVE GRAY
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
POOR INDURATION

CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-10%, QUARTZ SAND-50%
PHOSPHATIC SAND-04%, CALCILUTITE-20%
OTHER FEATURES: FROSTED

- 345 - 350 CALCILUTITE; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, INTRACLASTS
45% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO COARSE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-40%, PHOSPHATIC SAND-05%
OTHER FEATURES: FROSTED
- 350 - 355 SHELL BED; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
POOR INDURATION
ACCESSORY MINERALS: QUARTZ SAND-40%, PHOSPHATIC SAND-05%
CALCILUTITE-10%
FOSSILS: FOSSIL FRAGMENTS
- 355 - 360 AS ABOVE
- 360 - 370 SHELL BED; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
POOR INDURATION
ACCESSORY MINERALS: QUARTZ SAND-40%, PHOSPHATIC SAND-08%
CALCILUTITE-10%
FOSSILS: FOSSIL FRAGMENTS
- 370 - 380 AS ABOVE
- 380 - 390 AS ABOVE
- 390 - 397 CALCILUTITE; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, INTRACLASTS
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: MICROCRYSTALLINE TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-25%, PHOSPHATIC SAND-05%
FOSSILS: FOSSIL FRAGMENTS
- 397 - 405 AS ABOVE
- 405 - 410 AS ABOVE
- 410 - 419 SILT-SIZE DOLOMITE; YELLOWISH GRAY TO LIGHT OLIVE
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: CALCILUTITE-15%, CLAY-10%

QUARTZ SAND-30%, PHOSPHATIC SAND-03%

419 - 422 SILT-SIZE DOLOMITE; YELLOWISH GRAY TO LIGHT OLIVE
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: CALCILUTITE-15%, CLAY-10%
QUARTZ SAND-30%, PHOSPHATIC SAND-03%
WITH FOSSIL SHELL FRAGMENTS

422 - 425 AS ABOVE

425 - 432 CLAY; YELLOWISH GRAY TO LIGHT OLIVE GRAY
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX, DOLOMITE CEMENT
ACCESSORY MINERALS: QUARTZ SAND-20%, PHOSPHATIC SAND-10%
CALCILUTITE-10%

432 - 442 CLAY; YELLOWISH GRAY TO LIGHT OLIVE GRAY
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX, DOLOMITE CEMENT
ACCESSORY MINERALS: QUARTZ SAND-20%, PHOSPHATIC SAND-10%
CALCILUTITE-20%

442 - 450 CALCILUTITE; YELLOWISH GRAY TO LIGHT OLIVE
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, INTRACLASTS
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: MICROCRYSTALLINE TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
ACCESSORY MINERALS: QUARTZ SAND-20%, PHOSPHATIC SAND-15%

450 - 460 CALCILUTITE; YELLOWISH GRAY TO LIGHT OLIVE
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, INTRACLASTS
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: MICROCRYSTALLINE TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
ACCESSORY MINERALS: QUARTZ SAND-20%, PHOSPHATIC SAND-20%

460 - 475 CALCILUTITE; YELLOWISH GRAY TO LIGHT OLIVE
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, INTRACLASTS
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: MICROCRYSTALLINE TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
ACCESSORY MINERALS: QUARTZ SAND-20%, PHOSPHATIC SAND-20%
WITH LIMESTONE PIECES

475 - 480 AS ABOVE

480 - 490 CALCILUTITE; YELLOWISH GRAY TO DARK YELLOWISH ORANGE
10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, INTRACLASTS
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: MICROCRYSTALLINE TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
ACCESSORY MINERALS: QUARTZ SAND-20%, PHOSPHATIC SAND-05%
LIMESTONE- %

490 - 500 AS ABOVE

500 TOTAL DEPTH