

BEECH - SALVAGE YARD CORE - SE NE SE - 9-27S-2E' elev. 1367, 71  
3600 feet S. of 21st. St. & 50 feet W. of Greenwich Rd.  
Sedgwick Co.

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0-5'            Top 6 inches dark brown deteriorated claystone, high in  
Box 1&2        organic(plant) content. From 6 to 12 inches becomes  
                 darker brown, silty, contains plant fragments.  
                 Increasingly silty in upper 1 to 1.5 feet. At about 3.5  
                 feet, begins 18 inches of featureless tan "buff" colored  
                 claystone. The bottom foot (from 4 to 5 feet below  
                 surface) contains a lot of limonitic and some hematitic  
                 staining in claystone.

5-15'           From 5 to 7 feet, tan silty claystone with some yellow  
Box 3&4        mottling. Contains very fine crystals resembling mica  
                 but probably are gypsum. From 7 to 15 feet, becomes  
                 yellow claystone/mudstone mottled with light-gray,  
                 containing a few vugs, 2 to 3 mm diam., filled with  
                 selenite. Toward bottom, is less vuggy & selenite  
                 occurs in veinlets.

15-20'          Top 6 inches (15-15.5 feet) is non laminated red with  
Box 5           some yellow mudstone containing no visible fossils.  
                 Iron stain lessens from about 17 ft. where the mudstone  
                 is tan to orangish. The bottom 6-8 inches(19.4 to 20.0  
                 ft) is light-gray chalky mudstone containing a little,  
                 est <1%, gypsum filled vugs.

20-23'          17 inches gray to pinkish-colored mudstone. The upper  
Box 6           3-4 in contain dark-red blebs to 0.5 in. in diam.  
                 Contains minute micaeous crystals, probably of selenite.  
                 No fossils. At 21.66 feet is a 2 to 4 mm thick dark-  
                 colored zone which may be manganese stain (compacted  
                 clay left by core drill shows dendrites which may be  
                 Mn). At 22 feet is a 3 inch-thick, poorly laminated,  
                 gray-rust red-tan mudstone which phases in to light-

gray, tan mottled mudstone to 23 feet.

- 23-30'  
Box 7&8 From 23 to 24.5 feet, gray to tan featureless mudstone, somewhat mottled, which contains a few small blebs of selenite and a discontinuous, 2-3 mm thick, horizontal, red-brown zone at about 23.5 feet. From about 24.5 to 26.5 feet is light-gray mudstone. From about 26.5 to 30 feet, brown to tan, gray-mottled mudstone. The bottom 2.5 inches is gray mottled with tan. At about 26.25 feet is 2 inch zone of patternless, anastomosing iron oxide stains. Minute crystals, probably gypsum, no visible pyrite.
- 30-35'  
Box 9 (box contains only four feet of core) Light-tan to brown, silty, non-laminated claystone mottled with light-gray. Contains a few minute crystals, probably gypsum and possible gypsum efflorescence on dried core exterior.
- 35-44'  
Box 10 (Box contains only 5 feet of core) Upper portion of this section is gray, slightly gypsy claystone containing small iron oxide blebs. The bottom 6 to 8 inches is gray to tan claystone to siltstone laminated with silty red layers ranging from 2 mm to 8 mm in thickness. They contain hematitic lenses about 1 in diameter. Most of the Fe oxide layers are horizontal, a few vertical. No pattern discernable in vertical, i.e., no root casts, burrows, etc. The lower part is slightly gypsy. The center portion of this core is pinkish-tan claystone.
- 44-45'  
Box 11 12 inches chalky gypsum, disintegrated to mostly earthy form. Contains a few claystone "strings" at 45 feet.
- 45-55'  
Box 12&13 (Approx. 4 feet of disintegrating core in box.) From 45 to 46.5 feet is xline to nodular gypsum. Nodular

piece at 45 feet contains iron oxide "strings"-probably oxidized pyrite. Near the top is a 31 mm thick layer of banded dark and white colored gypsum. The bands average 2 to 2.5 mm thick and the dark bands contain minute pyrite crystals. Overlies dark, xline anhydrite which contains scattered secondary satin-spar veinlets, 1 to 2 mm thick, which may be filled fractures or desiccation cracks. Pink gypsum at 52 feet darkening to brown at 54 feet, in layers to 10mm thick, alternating with dark to medium-gray claystone.

55-67'  
Box 14 (Approximately 6 feet of core recovered and in boxes). From 55 to 56.5 feet, dark-gray claystone drying light-gray, thinly laminated, containing occasional discontinuous layers of gypsum to 1 mm in thickness. Minute gypsum crystals give silty appearance in sun. Max. gypsum concentration is about 5% of core in nodular patches about 3 feet from bottom of core. No fossils. No noticeable cyclicity to layers.

67-68'  
Box 15 12 inches of dark to light-gray "silty" laminated claystone containing anastomosing gypsum layers and 1 inch thick solid gypsum band at 67' 2". Patchy xline gypsum throughout.

68-77'  
Box 16 14 inches of gray, silty, claystone with anastomosing gyp layers over 18 inches of crumbly chalky gyp containing perhaps 10% claystone over 14 inches dark-gray claystone. Contains gyp laminae < 1 mm thick and some nodules.

77-87'  
Box 18&19 4 to 6 inch "rubble zone" from about 77'2" to 77'6"which may be a paleosol profile containing angular gyp fragments or may be core drill debris. Overlies 17 inches of gyp material consisting of a one inch mixture of gypsum/anhydrite atop 6 inches of laminated

gyp and claystone, perhaps 50% to 60% gyp which overlies 10 inches laminated, very silty gypsum with perhaps 60% claystone. The laminae are irregular and range in thickness from 2 to 4 mm forming alternate dark and light zones approximately 12 mm thick. (There seems to be about an 18 inch gap in core at about the 79 to 80½ foot zone). At about 80½ feet is 6 inches of gray, silty claystone over 12 inches of light-gray silty claystone which contains patchy nodular anhydrite (nodules to about 12 mm diameter). Beginning about 83 feet is 26 inches of gray, massive, xline gypsum containing patches/nodules of anhydrite. This overlies 6 inches of thin alternating gyp/shale layers, consisting of about 50% gyp; the shale being slightly silty, medium-gray, laminated. From 85.5 to 87 feet is about same consisting of possible 30% gyp with a 1.5 inch thick layer of gypsum at 86 feet.

87-95' (7 measured feet of core... 1 foot missing). At 87 feet, 1 inch of gyppy, laminated gray shale with iron oxide particles on exterior (may be drill bit debris). Overlays 9 inches of massive white gypsum which is above 4 inches of gray shale mixed about 40-50% gyp consisting of satinspar "strings" and selenite. At 88'2" is 35 inches of gray shale mixed with some gypsum at base of which (at about 91'1") is 1.5 inch layer of brown xline anhydrite. Below this is 33 inches of gray mudstone which fries light gray and carries thin gypsum "strings" with one inch layer of satin spar just below middle.

95-107' (about 2' of core is missing-9.9 feet measured). At 95 feet is 12 inches of white, massive, gypsum containing thin selenite seams. The upper 2 to 3 inches is darker colored, massive to xline, probably anhydrite. Overlays 90.5 inches of dark gray, non-calcareous, mudstone which dries to a lighter shade of gray. The uppermost 2.5

inches is darker gray and contains perhaps 2 to 3 % gypsum crystals. The next 62 inches has slight gypsum efflorescence; the upper 28 inches is more indurated than the lower 34 inches. The lower 36 inches has no visible gypsum. The bottom 16.5 inches (105.5 to 107 feet) is very dark, almost black, mudstone. Non-calc., no fossils, plastic when wet, dries to light gray, contains about 5% gypsum examples. The gypsum is more conc. in the bottom 1 or 2 inches.