

Wet - 539
Essie Bartrug #1
Church District, Wetzel Co.

By WRC Jr.

Samples start at top of Salt sand

- 1795-1802 Shale, dark gray, silty, micaceous, carbonaceous.
- 1802-1813 Sandstone, white, angular, medium (0.3-0.5 mm) quartz grains, aggregates of fairly well cemented grains, some crystal faces, slightly micaceous, slightly shaly, slightly calcareous, traces of altered feldspar and olivine or chlorite. Sand is fairly well sorted and contains fine and very fine grains.
- 1813-1819 Sandstone as above, contains streaks of coal or coaly material, appear to carry a little more mica than sample above. Small tier of hydrocarbons under ultra violet light.
- 1819-1826 Shale, dark gray and coal
- 1826-1832 Sandstone, gray, medium grained, poorly sorted, contains calcareous shale and considerable detrital mica.
- 1832-1842 Sandstone, white, medium grained, aggregate, slightly shaly, very micaceous.
- 1842-1850 Shale and siltstone, gray, micaceous.
- 1850-1860 Sandstone, fine to medium white quartz grains, considerable amounts of silt size fines, micaceous, pyritic, poorly sorted, tightly cemented.
- 1860-1876 Sandstone, as above, with occasional shale and siltstone stringers.
- 1876-1888 Sandstone, grading into gray shale after 85-88.
- 1888-1900 Sandstone, white, fine, angular quartz grains, mostly aggregates, micaceous, slightly shaly.
- 1900-1911 Sandstone, white medium to coarse grains, angular, micaceous, slightly shaly, poorly sorted, aggregates.
- 1911-1930 Siltstone, gray, shaly, finely micaceous
- 1930-1938 Sandstone, light gray, fine to medium grained, angular, poorly sorted, aggregates, micaceous, glauconitic, slightly shaly, contains small pellets of sphalerite (0.5 mm) slightly calcareous.
- 1938-1946 Shale, gray
- 1946-1956 Siltstone, white and gray, shaly, finely micaceous

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- 1956-1965 Sandstone, white to light gray, fine to medium grained aggregates, micaceous, shaly, calcareous, contain small grains of sphalerite (0.1 mm) scattered throughout.
- 1965-1972 Sandstone, as above, except containing shaly and coaly streaks. Biotite mica plates prominent.
- 1972-1979 Sandstone, white to light brown, fine to medium grains, micaceous.
- 1979-1988 Sandstone, white shaly, medium grained, and shale medium brown and gray.
- 1988-1998 Sandstone, white to light greenish gray, fine grained, angular, aggregates, micaceous, glauconitic, contains some brown chert, with vein calcite attached.
- 1998-2000 Sandstone as above and shale, gray
- 2000-2012 Shale, light brown, soft, carbonaceous in zones,
- 2012-2025 Shale, light greenish gray, and dark reddish brown
- 2025-2036 Shale, red and green, slightly silty
- 2036-2067 Shale, reddish brown and green, slightly silty and micaceous
- 2067-2077 Shale as above
- 2077-2087 Shale red and green
- 2087-2098 Shale, red and green
- 2098-2105 Shale, light green, silty, sandy, micaceous, somewhat carbonaceous
- 2105-2122 Sandstone, light green, fine grained, angular, quartz, aggregates, shaly, micaceous
- 2122-2128 Shale, light green and gray, silty
- 2128-2136 Sandstone, white, fine grained, angular, aggregates, fairly well sorted, silty, slightly calcareous, slightly shaly
- 2136-2149 Sandstone, gray, fine to medium grained, aggregates, poorly sorted, very micaceous (white), silty, shaly, carbonaceous
- 2149-2158 Sandstone, white, medium (0.3-0.5 mm) glassy to white, angular quartz grains, some aggregates, some rose and yellow quartz, traces of partially altered feldspar, hornblende, and mica; occasional shale streaks, weak hydrocarbon fluorescence by ultra violet light.

- Bartrug #1
- 2158-2160 Shale, gray, carbonaceous
- 2160-2170 Sandstone, white, medium, angular, glassy, clean well sorted quartz grains, some altered feldspar ^{or} spherule present, sand is oil stained and shows strong hydrocarbon fluorescence under ultra violet light.
- 2170-2182 Sandstone, white, fine to medium, angular, glassy quartz grains, not quite as well sorted as above, apparently shaly in thin streaks, oil stained, showing hydrocarbon fluorescence.
- 2182-2190 Sandstone as above, but in aggregates, strong hydrocarbon fluorescence, oil stain.
- 2190-2199 Sandstone, white, medium, angular, glassy quartz grains, oil stained slight hydrocarbon fluorescence, slightly calcareous.
- 2199-2210 Limestone, light brown, mechanical, oolitic, sandy, silty, fossiliferous, slightly dolomitic
- 2210-2220 Limestone, brown, slightly oolitic, slightly sandy and silty.