

Operator: J W Miloncus
Farm: Browning Wynn
Well No. : 1
Location: Lee County
 3300' N of 36°42'30" approx
 1800' E of 83°05'
Elevation: 1975' (reported altimeter elevation)
Total Depth: 2000' (Trenton Limestone)
Drilling Commenced: July 6, 1964
Well Completed:
Result: Dry hole

Formation Tops

(Reported from sample examination by R. L. Miller, U. S. G. S.)

Clinton	0 - 399'
Clinch Sandstone	399 - 674'
Hagan Shale	674 - 744'
Sequatchie	744 - 1110'
Reedsville	1110 - 1685'
Trenton	1685 - T. D.

Remarks: No shows were reported.

Contractor: Vernon D. Jarvis, Decatur, Illinois

426'-466' 40' Sandstone and shale; sandstone is predominantly white, fine-grained, sub-angular to sub-rounded, hard, slightly calcareous, with minor magnetite and possible specular hemanite; shale is gray to pink-gray, moderately hard, tough, and slightly dolomitic, with mica; sandstone sample 436'-446' contains pyrite and calcite as accessory; sandstone sample 446'-456' contains white dolomite as accessory; sandstone sample 456'-466' contains no pink-gray shale.

466'-510' 44' Shale and sandstone, shale is light-to medium-gray, soft, poorly fissile, slightly dolomitic, calcareous, with mica; sandstone is greenish-white, fine-grained, sub-angular, hard, slightly calcareous, with specular hemanite; shale sample 474'-484' contains fragments of red-gray shale; shale sample 494'-503' contains fragments of light-brown sandstone.

510'-674' 164' Sandstone and shale; sandstone is clear to white, fine-to medium-grained, well sorted, sub-angular to sub-rounded, hard, slightly calcareous, with magnetite and specular hemanite (?); shale is gray, moderately hard, brittle, has fair fissility, slightly dolomitic, with mica and pyrite; sandstone samples 516'-601' contain a few fragments of pink-gray shale; sandstone samples 516'-521' and 534'-565' contain a few fragments of ferruginous sandstone; sandstone samples 521'-527', 540'-555', and 581'-585' contain no pyrite; sandstone sample 521'-527' contains pyrite in both rock types; sandstone samples 617'-674' contain fragments of medium-gray siltstone.

Clinch Formation Hagen Member
(Silurian)

674'-743' 69' Shale, siltstone, and sandstone; shale and siltstone are gray, moderately hard to hard, brittle, siliceous, slightly dolomitic, with mica; sandstone is light-green to white, fine-grained, well sorted, sub-angular, slightly calcareous, with specular hemanite; shale samples 689'-724' contain no sandstone; shale samples 724'-743' contain fragments of dark purple-gray shale and pyrite; shale sample 735'-743' contains white-to light orange-pink dolomite in fracture fillings.

Sequatchie Formation
(Ordovician)

743'-810	67'	Siltstone, maroon, moderately hard, tough, slightly calcareous, with mica, and calcite in fracture filling; siltstone samples 743'-755' contain fragments of pinkish-gray shale; siltstone samples 760'-810' contain pyrite.
810'-906'	96'	Shale, gray, hard, brittle, calcareous, fossiliferous, with mica, and calcite in fracture fillings; shale sample 810'-818' contains fragments of dolomitic shale; shale sample 854'-863' is silty and darker.
906'-1038'	132'	Siltstone, maroon, light gray-green, hard, tough, calcareous, fossiliferous, with mica, and calcite in fracture fillings; siltstone sample 937'-944' contains fragments of quartz and pinkish-gray shale; siltstone samples 944'-975' contain no quartz or fossils; siltstone samples 975'-1038' contain fragments of sandstone; siltstone samples 1005'-1023' contain no fossils.
1038'-1110'	72'	Limestone and shale; limestone is gray-to light gray-green, moderately hard, fossiliferous, microcrystalline; shale is gray, hard, tough, calcareous, with mica and calcite; limestone samples 1056'-1086' contain a slight oolitic structure in some fragments; limestone samples 1086'-1110' contain no fossils; limestone sample 1096'-1110' has a light-red tint on many fragments.

Reedville Shale
(Ordovician)

1110'-1680'	570'	Shale and limestone; shale is light-to medium-gray, hard, tough, calcareous, with mica; limestone is very light-gray to medium-gray, light gray-green, moderately hard, fossiliferous, fine-to medium-crystalline, with calcite veins; shale samples 1131'-1155' contain fragments of light-tan limestone and white sandstone; shale samples 1297'-1453' are siliceous; shale samples 1453'-1540' contain fragments of fine-grained sandstone or siltstone; shale sample 1461'-1469' contains pyrite.
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Trenton Limestone
(Ordovician)

1680'-2000'

320'

Limestone, light-to medium-gray, mottled with gray-brown tint, moderately hard, fine-to medium-crystalline, fossiliferous, with calcite veins and fragments of interbedded shale that are medium-gray, moderately hard, calcareous, with mica; limestone samples 1810'-1861' are dark-gray; limestone samples 1861'-1984' are moderately soft, fine-to coarsely-crystalline, and contain greater percentages of calcite; limestone samples 1907'-1955' contain light-tan dolomite.