

OWNER: Costendenos N. Katsorelos
DRILLER: Sydnor Pump & Well Co., Inc.
COUNTY: Rockingham (Dayton)

VDMR: 1544
WWCR: 551
TOTAL DEPTH: 260'

GEOLOGIC LOG

Depth in feet

WEATHERED CLAYS (0-41')

- 0-31 Clay - medium-reddish-brown, few dark-red to black pisolites, some gray chert, gray limestone
- 31-41 " with white chert

LINCOLNSHIRE FORMATION (41-125')

- 41-65 Limestone - light-gray-blue, medium crystalline, fractured, thread thin calcite veins; some gray, finely crystalline limestone with few calcite veins and some reddish-brown stains on bedding planes
- 65-80 Limestone - gray, dark-blue tints, finely crystalline, some silicification, hard, few calcite veins, silty
- 80-95 Limestone - medium gray-blue to light-gray-blue, whitish, some coarse and some finely crystalline, friable, some light brown chert, reddish-brown stains on planes and calcite crystals, some calcite veins
- 95-110 Limestone - gray, blue and reddish-brown tints, dolomitic, minutely fractured with thin calcite veins having reddish-brown and tan stains
- 110-125 Limestone - light-gray, gray-blue, finely crystalline to finely granular, slightly silty, considerable black chert, some tan chert, reddish-brown stains on planes

NEW MARKET LIMESTONE (125-185')

- 125-140 Limestone - light-tan, yellowish tan, finely crystalline, yellow to reddish-brown stains; some light-blue-gray, calcarenite limestone
- 140-155 Limestone - blue-gray, calcarenite, minutely fractured, thin reddish-brown calcite veins, reddish-brown stains on planes, slightly argillaceous
- 155-170 Limestone - gray to dark-gray, finely crystalline, some fracturing, some calcite veins, slightly argillaceous; some leached, tan to yellow-tan, finely crystalline limestone; some porosity, vugs, and small channels lined with travertine

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170-185 Limestone - gray-blue to light gray-blue, finely crystalline,
some black shale inclusions, calcite crystals

EDINBURG ? FORMATION (185-260)

185-200 Shale - dark-gray, black, thin bedded, waxy, very calcareous,
few calcite veins

200-215 " with some white clay stained light-brown
and a few pieces of light gray, very porous,
leached limestone

215-230 Shale - dark-gray, black, thin bedded, waxy, very calcareous

230-245 " with light-tan to whitish clay having
reddish-orange stains

245-260 Limestone - dark-gray, black, very argillaceous, some white
and light-brown clay, and calcite boxwork

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-41	Weathered Clays	
41-125	Lincolnshire Formation	Ordovician
125-185	New Market Limestone	Ordovician
185-260	Edinburg ? Formation	Ordovician

Note: Water reported at 160-163[±]. The water is associated with fracturing, calcite veins, vugs and small channels lined with travertine. The well is located in a faulted zone.

Virginia Division of Mineral Resources
Warren J. Souder, Geologist
July 1966