

LITHOLOGIC LOG

log # 28724
basin # 36Project: TuscaroraHole: 66-5Elevation: 5900'Date Drilled: Spud in Feb. 16, 1980Location: NW-1/4, SE-1/4 Sec. 5
41N 52EMethod: rotary/mud & water
rotary airGeologist: Pilkington/Sarber

Gamma: _____

Depth (m)(ft)	Description
0 - 1000	Volcanoclastic sediments, sandstones, brown siltstones, brown oil shale. Tertiary
1000-1660	Crystal-lithic tuff, likely pipe feature. Lithic fragments black siltstone. Some celadinite alteration, pyrite and quartz fracture fillings. Lithics bedrock (paleozoic)?
1660-1810	Dark gray/black siltstone and fine sandstone. Some gray cherty layers. At 1700' rocks similar to those from 860-24 drilled in schoonover formation.
1810-2000	Crystal lithic tuff, altered, silicified, pyritized as above
2000-2150	Interbedded dark gray siltstone, sandstone. Fracture fillings quartz, disseminated pyrite.
2150-2240	Crystal lithic tuff as above
2240-2400	Interbedded gray/black siltstone, very fine sandstone, black shaly siltstone. At 2290 1st appearance of foliated texture related to hornfelsing.
2400-2530	Tuff pipe and sediments as above
2530-2570	Siltstone, sandstone, shale, hornfelsed, phyllitic sheen
2570-2940	Med. to course grained orthoquartzite some recrystallization of silica cement
2940-3070	Interbedded sandstone, siltstone & shale more evidence of thermal metamorphism phyllitic sheen, green cast (chlorite development)
3070-3420	mostly quartzite, some foliated layers of chlorite schist
3420-3520	Quartz-feldspar dike, white sugary texture, embayed qtz crystals

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3520-3660	hornfels
3660-3820	mostly quartzite
3820-3850	calc-silicates, first appearance of talc and first impure limestone
3850-4470	interbedded hornfels and quartzite.
4470-4500	calc-silicates, talc, tremolite
4500-4610	interbedded siliceous rocks
4610-5160	carbonates, tremolite, chlorite, talc, pyrite
5160-5270	(no returns)
5270-5330	massive translucent quartz
5330-5443	argillite, silty, abundant quartz veins formation highly fractured and silicified. veins micro sized and larger filled with translucent quartz very hard drilling
5443-5456 TD	soft; cuttings a slurry red/orange clay, sticky and striated color patterns in larger pieces argillite that disintegrates under bit 30% red orange clay possible fault zone