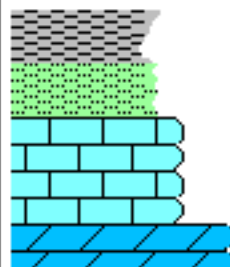


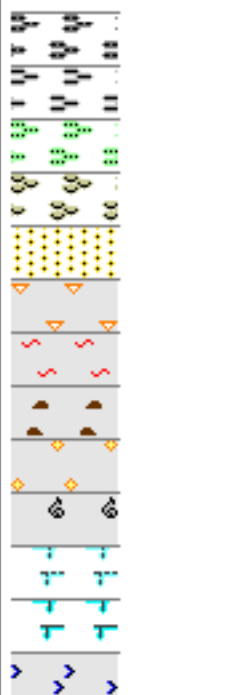
Hadley T'4 (15-051-25131) T: 11S R: 17W S: 30
Latitude: 39.0630967 Longitude: -99.24725 Elevation (GL): 2090.0 Depth: 3700.0

Depth	Stratigraphic Units							Rock Color	Lithology Rock Column	Fossils	Porosity Type	Porosity	Remarks
	Members	Formations	Subgroup	Stage	Series	Subsystem	Era						
2000													2000 2006 sh reddish -brown 2010 2022 sh reddish -brown 2029 2031 dark gray fissil sh 2044 2060 Sh very light reddish brown reddish oxagne 2060 2065 Sh reddish brown 2069 2075 Sh reddish brown
2100													2086 2100 ls gray-tan 2100 2110 sh light reddish 2110 2124 sh reddish brown 2124 2138 sh reddish brown 2138 2142 sh dark gray fissile 2150 2156 ls gray light gray 2162 2163 sh light reddish
2200													2180 2186 ls cream very finely 2190 2202 ls cream mottled w/ 2202 2206 ls gray dark gray 2218 2228 ls gray light gray 2228 2236 ls gray dark mottled 2236 2242 sh cream-tan very 2248 2253 siltstone cream very
2300													2273 2288 interbedded w/ very light reddish brown blk cream 2288 2294 sh reddish brown 2302 2308 sh reddish brown 2313 2322 ls cream mottled w/ 2322 2325 ls gray light gray 2331 2333 trace black thin 2348 2354 sh very light 2360 2362 ls white cream fxl 2368 2374 very light greenish
2400													2384 2392 ls cream very fxl 2392 2404 sh gray dark gray 2404 2409 ls cream-very light 2419 2425 ls cream very fxl 2430 2440 no samples 2440 2450 ls cream gray 2450 2454 ls cream gran trace
2500													2498 2510 ls tan cream mottled 2510 2512 ls cream mottled w/ 2520 2529 ls tan & brown 2539 2537 ls white-cream 2537 2548 sh very light gray 2548 2561 sh reddish brown 2561 2565 ls grayish brown
2600													2580 2589 ls tan mottled w/ 2589 2598 sh dark gray gray 2598 2601 sh reddish brown 2615 2624 ls cream-light gray 2624 2642 ls light gray cream trace dark gray frag-gran mott 2642 2651 ls light gray 2651 2662 sh gray fissile 2662 2678 sh gray very light gray fissile blocky gran trace 2678 2682 ls very light
2700													2695 2698 sh light gray-gray 2702 2704 ls cream fxl slight 2710 2718 sh light gray medium 2725 2729 siltstone cream very 2744 2750 sh gray dark gray 2755 2758 ls gray cream very 2765 2767 cream gran ool
2800													2794 2802 sh very light gray 2802 2805 tan & grayish brown 2824 2842 sh gray dark gray fissile slightly calc trace 2842 2850 ls cream fxl trace 2850 2853 sh dark gray fissile 2860 2863 gray fissile sh 2868 2872 sh very light gray
2900													2891 2894 ls cream 2898 2907 tan & grayish brown 2907 2912 sh medium gray- dark 2925 2934 sh medium gray light 2934 2944 ls tan occasional 2944 2949 ls gray fxl very 2962 2967 ls cream mottled 2970 2972 ls cream mottled 2979 3000 sh medium gray light gray fissile thin fissile
3000		Topoka Limestone											3000 3011 sh light gray tan 3011 3014 ls white-cream-fxl 3022 3032 sh gray light gray 3032 Topoka Limestone 3042 3050 ls cream-light gray 3057 3059 sh gray greenish 3075 3077 sh black very thin 3085 3102 ls cream-tan gran weathered chalky fossils (
3100													3102 3114 ls cream-tan 3114 3126 ls tan dark gray 3126 3136 ls cream-tan 3143 3152 sh dark gray fissil 3152 3158 ls white-cream 3162 3182 ls white-cream fine -v. fxl trace cryptoxln 3182 3188 sh grayish green 3195 3197 sh black thin 3204 3214 ls cream fine-v. fxl 3214 3224 ls cream-gray occ 3224 3228 sh grayish green
3200													3248 3264 ls cream-light gray fxl trace fossils (fusulinids 3264 Heebner Shale 3278 3284 sh very light gray 3294 3296 sh very light gray 3308 Lansing 3327 3337 sh gray dark gray 3337 3342 grainstone ls gray 3351 3356 sh gray greenish 3373 3375 sh very dark gray 3388 3400 ls cream-tan trace 3400 3425 ls cream frag ool trace rexl'd fossil remains (fusulinids) slight weathered 3425 3430 ls cream-very light 3433 3435 gray-brown mottled 3445 3460 ls cream trace tan fxl slightly weathered cons 3460 3465 sh light gray medium
3300	Heebner Shale	Toronto Limestone											3478 3480 ls white trace cream 3490 3498 ls cream tan fxl 3498 3500 very light gray *
3400													3512 3520 ls white-cream 3520 3528 ls white-cream fxl 3528 3532 sh gray dark gray 3538 3556 sh grayish green very light bluish green dark 3556 3561 ls white-cream fxl 3575 Arbuckle
3500													
3600													3600 3616 dolo cream-tan suc streaks fine & v. fxl rare rhob 3616 3640 dolo cream-tan occ pink rare reddish brown & yellow v. fine-fxl rare rhob 3640 3650 dolo cream very 3650 3668 dolo cream-very light gray fine -medium xln occ 3668 3680 dolo light gray 3680 3700 dolo tan-light brown fxl-v. fxl trace medium xln
3700													



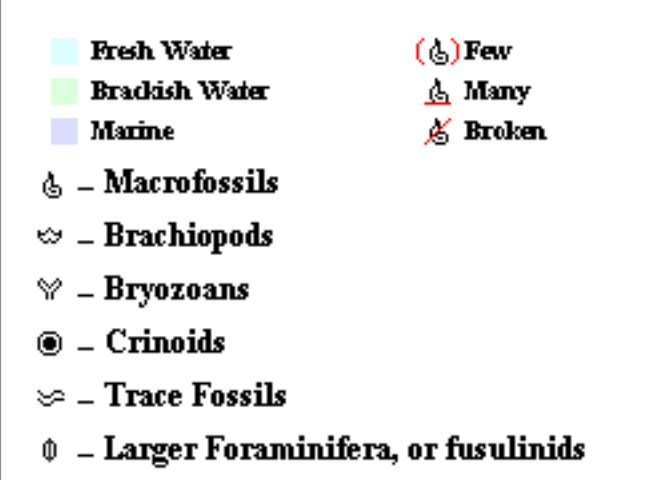
Primary Rock Lithology

- Shale
- Silt, Siltstone
- Limestone
- Grainstone
- Dolomite



Secondary Rock Lithology

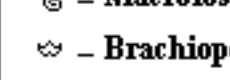
- Clayey, Argillaceous, clay
- Shaly, shale
- Silty, Silt
- Micaceous
- Sandy, sand
- Cherty, chert
- Glauconite, Glauconitic
- Carbonaceous, Carbonized
- Pyritic, pyrite
- fossiliferous
- Chalky
- Calcareous
- Gypsiferous, gypsum

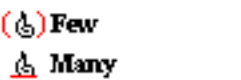


Fossils

 Fresh Water

 Brackish Water

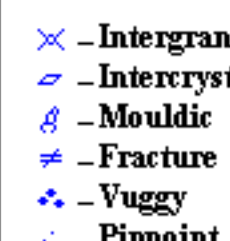
 Marine

 Few

 Many

 Broken

- Macrofossils
- Brachiopods
- Bryozoans
- Crinoids
- Trace Fossils
- Larger Foraminifera, or fusulinids



Porosity Type

- Intergranular
- Intercrystalline
- Mouldic
- Fracture
- Vuggy
- Pinpoint