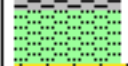


MOSQUITO CREEK 1-20 (15-131-20113) T: 5S R: 14E S: 20
Latitude: 39.6086987 Longitude: -95.881588 Elevation (GL): 1240.0 Depth: 3935.0

Depth	Stratigraphic Units		Rock Color	Lithology Rock Column	Grainsize Very Fine Fine Medium Coarse Very Coarse Flagstone Congl.	Sedimentary Structures Ext. Features Key Features Fossils	Porosity Type	Porosity	Remarks
	Members	Formations							
1800									1800 1806 LS white light brown 1814 1823 siltstone light 1823 1828 ls white light brown 1832 1862 dolo light brown light gray gen mottled hard tite sl-mod argil MFOSC 1862 Cherokee 1882 1910 sh medium gray - dark gray very soft slightly dolomitic trace medium 1910 1941 sh medium gray-dark gray soft blocky sl-mod dolomitic medium green soft sub fissile 1941 1949 ss clear w/ white 1949 1973 sh pred medium gray-dark gray trace dark brown gen sub fissile 1973 1978 ss pred light
1900									1996 2000 ss clear white gen 2011 2040 sh medium grayish green-dark grayish green brown redish brown grayish brown film sub fissile sl calc 2040 2062 sh multi-colored gray brown green some w/ angular ss fine grains 2062 2070 siltstone white 2070 2074 ls light brown
2000									2094 2098 ss clear white 2141 2150 sh light gray-dark 2150 2158 dolomite light brown 2158 2180 sh pred very dark gray mod calc sub fissile soft w/ calc lam 2180 2202 sh pred light gray trace-occ medium gray-dark gray abundant grayish green light 2202 2208 ss clear
2100									2234 2237 dolo light 2241 2246 siltstone grayish 2291 2309 sh light gray-dark gray trace black light 2309 2314 dolo light 2320 2329 siltstone brown film 2329 2332 ss clear gen well 2336 2344 siltstone light 2344 2353 sh light gray-dark 2353 2356 siltstone light
2200									2380 2383 ss clear fine-medium 2394 2398 ss clear white 2408 2410 siltstone light 2436 2449 sh black blocky film 2449 2462 siltstone white pred 2462 2490 sh light gray-dark gray occ light brown-dark brown trace grayish green soft hard 2490 2500 siltstone white 2500 2506 sh black film mod 2510 2523 sh light gray-dark 2523 2526 siltstone light gray 2537 2552 siltstone white light brown light gray-medium 2552 2565 sh pred dark gray 2565 2602 siltstone white hard very sandy very fine grain very slightly argil trace-occ black ddo stn thinly stratified siltstone-sh 2602 2607 sh dark gray trace
2300									2632 2653 siltstone pred white light brown some light gray w/ 2653 Mississippian 2678 2684 dolomite light 2707 2732 LS light brown occ medium brown-dark brown hard tite trace poor sucrosic 2732 Kinderhookian 2754 2800 sh light green-medium green gen very soft blocky some sub fissile slight calc waxy
2400									2800 2850 sh light green soft blocky some sub fissile sli calc completely disseminates in dol trace dark gray soft-film sub fissile 2850 2878 SH light green soft blocky trace sub fissile sli calc in gen occ medium 2878 2900 sh light green soft waxy non-sli calc blocky trace sub fissile occ dark gray 2900 2950 sh pred light green gen very soft waxy sli calc Blocky subfissile occ dark gray-black soft-film fissile siltstone-sh 2950 2974 sh pred dark grayish brown film some hard blocky-sub blocky trace light green 2974 2991 sh multi-colored brown gray lavender soft film 2991 Hunton
2500									3022 3060 dolomite light brown trace medium brown hard tr-occ fair int min porosity some sucrosic MFOSC abundant chert white w/ black inclusions 3060 3100 dolomite pred light brown occ light gray trace light grayish brown occ fair-good int gran porosity trace-poor pinpoint porosity 3100 3150 dolomite light brown tr-occ light gray trace light grayish brown hard tr-occ fair-good int gran porosity 3150 3200 dolomite pred light brown tr-occ light gray-medium gray & grayish brown occ light brown-medium brown hard gen tite trace fair-good int min porosity MFOSC 3200 3250 dolomite pred light brown trace light gray grayish brown hard fair-good vuggy porosity fair-good int min porosity micro fractures MFOSC trace chalk 3250 3300 dolomite light brown-medium brown light gray light grayish brown trace white hard fair-good int gran porosity fair-good vuggy porosity tr-occ spotty pyrite in dol MFOSC 3300 3350 dolomite light gray occ light brown & light grayish brown occ white hard good vuggy porosity good int gran porosity appears brittle occ black ddo stn MFOSC 3350 3400 dolomite pred light gray abundant light brown hard occ white fair-good vuggy porosity fair-good int gran porosity occ black ddo stn MFOSC 3400 3450 dolomite abundant white light gray & light brown occ light grayish brown some medium brown hard good very good vuggy porosity good-very good int gran porosity trace black ddo stn MFOSC 3450 3500 dolomite white light brown light gray light grayish brown had non-sli argil some w/ glauca abnt chalcopyrite some sucrosic gen poor int gran porosity some w/ botrydial texture trace black ddo stn 3500 3520 dolomite pred light brown white light gray occ 3520 Maquoketa (Sylvan) Shale 3550 3588 sh medium grayish green-dark grayish green medium gray-dark gray trace rust red hard blocky dolomitic 3588 Viola Limestone
2600									3616 3652 dolomite medium brown-dark brown hard tite sucrosic non-very sli argil MFOSC 3652 3666 ls pred white light 3666 3681 dolomite light brown medium brown-dark brown some 3681 3694 LS light brown light 3694 3702 dolomite light 3702 3713 ls light brown light 3713 Simpson 3732 3745 ls medium brown-pred 3745 3755 sh dark brown medium 3755 3760 ls dark brown very 3767 3773 dolo medium 3779 3804 dolomite medium brown-dark brown mottled hard tite non-sli argil trace w/ 3804 Lower St. Peter SS 3822 3838 sh medium gray-dark gray grayish green trace light 3838 Arbuckle 3860 3890 dolomite light brown light grayish brown light gray light pink rust occ glauc hard tite trace fair int gran 3890 3918 dolomite pred light brown light green lavender rust light pink yellow trace-occ 3918 3928 Hamrick monsonite clear light pink hard some w/
2700									
2800									
2900									
3000									
3100									
3200									
3300									
3400									
3500		Maquoketa (Sylvan) Shale							
3600		Viola Limestone							
3700									
3800		St. Peter Sandstone							
3900									

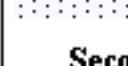
**Shale**

**Silt, Siltstone**

**Sand, Sandstone**

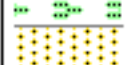
**Limestone**

**Dolomite**

**Quartz**

**Clayey, Argillaceous, clay**

**Shaly, shale**

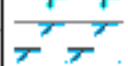
**Silty, Silt**

**Sandy, sand**

**Cherty, chert**

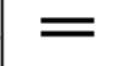
**Glauconite, Glauconitic**

**Pyritic, pyrite**

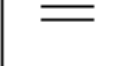
**Chalky**

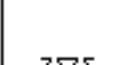
**Calcareous**

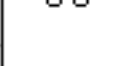
**Dolomitic**

**- Lamination**

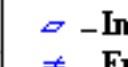
**Parallel Laminations**

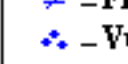
**- Stratification**

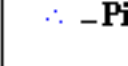
**Horizontal bedding**

**Deformational Structures**

**Load casts**

**- Intergranular**

**- Intercrystalline**

**- Fracture**

**- Vuggy**

**- Pinpoint**