

ARMENT 1 (15-183-20017) T: 2S R: 15W S: 36
Latitude: 39.8379627 Longitude: -98.9702817 Elevation (GL): 1879.0 Depth: 4800.0

Depth	Stratigraphic Units						Rock Color	Lithology Rock Column	Grainsize Type	Porosity Type	Porosity	Remarks
	Members	Formations	Subgroup	Stage	Subsystem	Era						
2000												2000 2024 ss gray very fine grain silty
												2024 2035 ls light gray fine
												2035 2056 ss gray silty very fine grain black inclusions
												2056 2066 ls yellow gray fine
												2066 2080 ss gray fine-medium
												2080 2094 sh brown red silty
2100												2094 2104 ls crea gray fine
												2104 2120 sh red green yellow silty slightly sandy
												2120 2148 ss red silty
												2148 2152 ls cream fine xln
												2170 2176 ls cream fine xln
2200												2194 2205 sh gray red brown
												2205 2228 ls tan grem gray fine xln slightly fossiliferous slightly chalky
												2228 2250 sh gray green silty
												2250 2272 sh brown red slightly sandy
												2272 2304 sh gray green slightly fissile
2300												2304 2328 ls gray cream fine xln slightly fossiliferous dark inclusions
												2328 2342 sh green gray brown
												2342 2372 sh red brown sandy
												2372 2390 ls cream tan fossiliferous slightly sandy
												2390 2406 sh red silty slightly sandy
												2406 2426 sh gray green red slightly sandy slightly
												2426 2438 ls cream
												2438 2444 sh gray waxy
												2458 2466 sh light gray soft
												2466 2490 ls gray fine xln slightly fossiliferous dense
												2490 2500 sh green gray
												2500 2506 ls gray fine xln
												2526 2530 ss gray very fine
												2540 2550 sh gray sandy
												2550 2570 ls cream tan slightly chalky fossiliferous
												2570 2616 sh gray green soft slightly sandy
2600												2616 2634 ls tan gray fossiliferous dark inclusions
												2634 2660 sh green gray slightly sandy
												2660 2680 sh gray waxy
												2680 2694 ls cream gray fine
												2694 2714 sh gray brown silty
2700												2714 2724 ss gray very fine
												2724 2732 ls tan gray
												2732 2744 sh gray silty
												2744 2756 ls cream gray fine
												2756 2764 sh gray green
												2764 2780 ls gray fine xln slightly fossiliferous slightly
												2780 2796 ls cream fine xln slightly fossiliferous slightly
												2796 2810 ls gray fine xln
												2810 2828 sh gray silty w/ ss gray fine grain macaceous
												2828 2840 ls cream fine xln
												2840 2844 sh gray green sandy
												2854 Topeka Limestone
												2872 2880 sh gray red silty
												2880 2894 ls cream gray fine
												2894 2910 ls dark gray fine xln dense
												2910 2920 sh light gray dark
												2920 2932 ls tan fine xln
												2932 2942 sh gray slightly
												2942 2960 ls gray fine xln slightly fossiliferous dense
												2960 2962 sh black soft carb
3000												2990 2998 sh brown soft
												2998 3016 ls gray fine xln fossiliferous gray inclusions
												3016 3022 sh gray green brown
												3030 3050 ls gray oocastic fossiliferous good vns porosity
												3050 3068 sh gray brown
												3068 3086 ls cream gray fine xln slightly fossiliferous
												3086 Heebner Shale
												3096 3106 sh light gray soft
												3106 3119 sh rust soft
												3119 Toronto Limestone
												3130 3136 sh gray green
												3142 3146 ls white chalky
												3156 3168 ls gray fine xln
												3168 3180 sh brown soft some
												3180 3190 ls tan medium xln
												3190 3196 ls cream tan
												3202 3220 ls gray fine-xln dense
												3220 3232 sh dark gray green
												3232 3242 ls tan gray fine xln
												3242 3250 sh green brown gray
												3250 3268 ls tan fine xln fossiliferous fine fossil cast
												3268 3272 sh dark gray fissile
												3282 3300 ls cream fine xln grainy w/ chert gray
												3300 3316 sh green gray brown silty
												3316 3330 ls tan cream fine
												3330 3336 sh dark gray
												3342 3352 ls tan fine xln
												3352 3358 ls gray fine xln
												3370 3380 ls gray fine xln
												3380 3393 ls gray fine xln
												3393 3396 sh dark gray carb
												3410 3422 ls gray fine xln
												3422 B-KCTY
												3438 3448 ss brown very fine
												3448 3457 sh gray green brown
												3457 3463 ls brown fine xln
												3474 3492 ls cream tan fine xln slightly fossiliferous
												3492 3498 sh green gray brown
												3504 3510 sh gray green soft
												3516 3520 sh gray brown green
												3528 3534 sh gray brown
												3546 3560 ls gray medium xln
												3560 3563 sh black carb
												3572 3582 ls cream gray fine
												3582 Cherokee
												3600 3604 sh dark gray
												3612 3620 ss gray fine grain
												3620 3630 ls gray fine-xln
												3630 3634 sh light gray soft
												3646 3652 ls gray fine xln
												3657 3666 ls cream tan fine
												3666 3674 sh yellow purple
												3674 3682 ls gray fine xln
												3682 3690 sh gray green brown
												3690 3694 ls gray fine xln
												3702 3710 sh gray yellow w/ ss
												3710 3718 ls gray fine xln
												3718 3744 sh various colors slightly sandy silty
												3744 3754 ls cream fine xln
												3754 3760 sh various colors
												3762 3764 sh various colors
												3780 Mississippian
												3794 3806 chert light gray
												3806 3822 ls tan fine xln very oolitic scattered int oolitic
												3822 3834 ls cream tan fine
												3834 3840 sh gray brown green
												3854 3868 chert white gray
												3868 3878 dolo cream tan
												3878 3900 dolo cream fine-medium xln slightly sucrosic very good vuggy
												3900 3920 dolo cream fine-medium xln sucrosic
												3920 3950 dolo tan fine-medium xln sucrosic scattered vuggy porosity NS w/ chert white gray fresh
												3950 3968 dolo tan fine xln sucrosic rare int xln porosity
												3968 3974 sh gray green brown
												3992 4016 dolo tan fine-medium xln sucrosic good int xln porosity very good vuggy
												4016 4020 dolo tan fine xln
												4024 4050 dolo cream fine xln sucrosic poor int xln porosity w/ chert white fresh to
												4050 4072 dolo tan fine xln MVP w/ chert gray white fresh w/ sh various colors
												4072 4078 dolo tan fine xln
												4086 4092 dolo gray-brown fine
												4102 4116 dolo gray
												4116 4125 dolo tan medium xln
												4132 Maquoketa (Sylvan) Shale
												4140 4164 sh blue green soft
												4164 Simpson
												4164 4172 dolo gray fine xln
												4172 4177 sh green gray
												4188 4192 sh green gray brown
												4198 4220 dolo tan pink gray fine-large coarse / xln tite to very good int xln porosity
												4220 4236 dolo tan gray fine-large (coarse / xln tite
												4236 4250 dolo tan gray medium
												4250 4258 dolo gray fine xln
												4258 4276 dolo gray large (coarse / xln fair-good int xln
												4276 4292 dolo gray large coarse / xln fair -good int xln
												4292 4300 dolo cream gray
												4300 4310 dolo tan cream

Primary Rock Lithology

Secondary Rock Lithology

Porosity Type