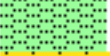


Magnolia 'A' 1 (15-081-21431) T: 27S R: 34W S: 31
Latitude: 37.6583 Longitude: -101.0777 Elevation (GL): 3047.0 Depth: 1781.0

Depth	Stratigraphic Units		Rock Color	Lithology Rock Column	Grainsize Macro Fine Very Fine Clay	Sedimentary Structures	Fossils	Porosity Type	Porosity	Remarks
	Members	Formations								
3900										3900 3928 ls light brown micro xln poor scattered pinpoint porosity NO Shows 3928 3930 sh dark gray tcc 3942 3948 sh dark gray tcc 3950 3962 ls brown very fine 3962 3968 ls brown very fine 3980 3983 sh dark gray
4000										3996 4004 ls brown medium xln 4004 4019 ls brown medium xln 4019 Heebner Shale 4033 Toronto Limestone 4048 4052 ls light brown & 4058 4059 ls light brown & 4064 4080 ls light brown micro-very fine xln 4080 4095 ls white-light brown micro-very fine xln scattered 4095 4100 sh gray 4104 4108 ls white-light brown
4100	Heebner Shale									4128 4130 sh gray 4140 4142 sh gray 4160 4178 ls light brown medium-micro xln chalky in 4178 4180 ls light brown 4186 4190 sh gray
4200										4212 4214 sh gray 4232 4255 ls white-light brown micro xln dense no visible porosity no show 4255 4261 ls medium gray / 4264 4270 sh calc laminated 4281 4283 shaly ls light brown 4292 4294 sh gray
4300										4319 4345 ls white-light brown micro xln fossil fragments chalky no visible porosity no 4345 4347 sh medium green-dark 4364 4386 ls white-light brown micro xln chalky no visible porosity no show 4386 4397 ls light brown 4397 4400 sh green calc 4405 4408 sh green calc 4415 4420 sh green calc
4400										4440 4444 sh medium green-dark 4454 4462 ls gray-brown micro 4462 4483 ls dolomitic light brown very fine-fine xln 4483 4486 sh gray
4500										4500 4516 ls light brown micro xln chalky-dense no visible 4516 4537 ls medium brown-dark brown micro xln dense no 4537 Stark Shale 4556 4580 ls medium brown very fine xln fair-good oomoldic porosity no show 4580 4588 ls light 4588 4610 ls light brown-medium brown micro xln dense no visible porosity no 4610 Rushpuckney Shale
4600										4632 4640 ls light gray & 4640 4643 ls light gray & 4654 4665 ls dark brown micro 4665 4670 sh dark gray / brown
4700										4690 4695 sh dark gray calc 4704 4715 sh dark gray calc 4715 4720 siltstone calcitic 4725 Hammaton 4744 4758 ls medium brown 4758 4764 ls light brown 4768 4770 sh dark gray some 4776 4781 ls gray-brown micro 4786 4788 ls gray-brown micro 4793 4795 sh dark gray some
4800										4812 4818 ls gray-brown micro 4823 4828 sh black gassy 4836 4840 sh dark gray 4845 4847 sh dark gray 4856 4862 ls light brown 4864 4865 sh dark gray dark 4872 4880 ls dark brown micro 4880 Cherokee
4900										4900 4904 sh dark gray 4908 4913 ls light brown micro 4918 4924 ls medium grayish 4930 4934 ls medium brown 4938 4950 ls light gray chalky 4950 4956 ls dolomitic medium 4958 4963 ls dolomitic medium 4969 4974 ls medium brown-dark 4984 4992 ls light grayish 4992 4994 sh dark gray 5002 5004 sh dark gray 5010 5012 sh dark gray 5021 5024 ls dark grayish 5028 5033 ls dark grayish 5040 5042 ls dark grayish 5052 5074 ls dark brown fine xln dense shaly NVO NS 5074 5080 ls light brown very 5089 5092 sh dark gray 5098 5101 ls medium gray micro 5111 5117 ls light gray-dark 5120 5124 ls light gray-dark
5000										5134 Atokan 5142 5145 sh gray fossil 5150 5154 ls medium brown 5162 5168 sh gray fossil 5174 5182 sh dark gray 5182 5186 ls gray-brown micro 5192 Lower Morrow
5100										5224 5239 ls white-light brown mottled slight glauconitic 5239 5241 sh dark gray-green 5256 5268 sh dark gray trace 5268 5280 ls light 5280 5288 ls light brown micro 5288 5292 sh dark gray 5299 5330 sh / siltstone green calc 5330 5336 ls gray / brown very 5340 5348 siltstone gray / 5348 5352 sh gray / green calc 5356 5362 ls light brown 5365 5376 ls white-dark brown 5376 5380 sh dark gray
5200										5404 5414 ss white green 5414 5418 ls gray / brown very 5426 5434 sh steel gray 5434 5460 ls steel gray shaly crypto xln dense NS 5460 5464 sh steel gray 5484 Ste. Genevieve 5498 5514 ls white speckled maroon macro-fine xln 5514 5518 ls white speckled 5524 5526 sh steel gray 5536 5539 sh steel gray
5300										5558 5570 ls white-gray trace 5570 5596 ls white-gray arenaceous (sandy) Very poor int gran porosity NS 5596 5614 ls white-brown micro xln chalky soft MVP NS 5614 5640 ls light brown micro xln matrix scattered fine-medium XTAL grains 5640 5646 ls light gray micro 5648 5662 ls brown very fine 5662 5674 ls brown very fine
5400										
5500										
5600										

Primary Rock Lithology

Shale

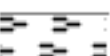
Silt, Siltstone

Sand, Sandstone

Limestone

Dolomite

Secondary Rock Lithology

Shaly, shale

Silty, Silt

Sandy, sand

Cherty, chert

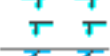
Glauconite, Glauconitic

Carbonaceous, Carbonized

Pyritic, pyrite

oolitic

fossiliferous

Calcareous

Dolomitic

Anhydritic, anhydrite

Fossils

Fresh Water

Brackish Water

Marine

Few

Many

Broken

Macrofossils

Bryozoans

Crinoids

Trace Fossils

Microfossils

Sedimentary Structure Symbols

Depositional Structures

Lamination

Parallel Laminations

Porosity Type

Intergranular

Interskeletal

Intercrystalline

Mouldic

Vuggy

Pinpoint

Oolitic