

Armstrong 1 (15-077-00084) T: 33S R: 5W S: 14

Latitude: 37.1750222 Longitude: -97.8307198 Elevation (KB): 1300.0 Depth: 4966.0

Depth	Stratigraphic Units		Rock Color	Lithology		Fossils	Porosity	Porosity Type	Remarks	Primary Rock Lithology
	Members	Formations		Rock Column	Sedimentary Structures					
235		Mnnescah Shale							235 Mnnescah Shale	Shale Sand, Sandstone Limestone Dolomite Anhydrite Salt, Halite, haliferous Secondary Rock Lithology Shaly, shale Silty, Silt Micaceous Sandy, sand Cherty, chert oolitic fossiliferous Calcareous Dolomitic Anhydritic, anhydrite Fossils Fresh Water Brackish Water Marine Few Many Broken Macrofossils 0 - Larger Foraminifera, or fusulinids W - Pollen and (or) spores Sedimentary Structure Symbols Deformational Structures Lead casts Porosity Type
									293 298 anhydrite	
335									338 342 anhydrite	
		Wellington							360 Wellington	
435										
535										
635		Wellington							680 Wellington Salt	
735										
835										
935										
1035									950 Base Salt 958 962 red & gray sh 967 973 red & gray sh 980 983 red & gray sh 990 993 red & gray sh 1000 1005 red & gray sh 1023 1028 red & gray sh 1032 1038 red & gray sh 1041 1045 red & gray sh 1050 1054 red & gray sh 1060 1065 red & gray sh 1070 1075 red & gray sh 1080 1085 red & gray sh 1090 1095 red & gray sh 1100 1105 red & gray sh 1110 1115 red & gray sh 1121 1127 red & gray sh 1132 1137 red & gray sh 1140 1145 red & gray sh 1150 1152 red & gray sh 1160 1164 white & gray 1169 1175 white & gray	
1135									1207 1227 gray buff sucrosic cherty shaly dolomite 1227 1250 varicolored anhydritic shale 1250 1280 gray-buff sucrosic to fine mln, sh, porous (good porosity), fossiliferous slightly cherty dolomite 1st 1280 1318 varicolored anhydritic shale	
1335	Fort Riley Limestone								1318 Fort Riley Limestone	
1435	Florence Limestone								1408 1420 gray-buff sucrosic 1420 Florence Limestone	
									1450 1453 gray sh 1463 1498 varicolored limey sh	
1535	Winford Limestone								1498 1508 gray-buff dense-fine 1508 1512 varicolored limey sh 1527 1535 varicolored sh 1542 1550 varicolored sh 1550 1574 cream-gray dense-fine mln fossiliferous 1st 1574 1595 varicolored sh 1595 1608 white to gray 1608 1613 varicolored sh 1632 1638 varicolored sh 1650 1665 varicolored sh 1665 1680 white to gray dense-fine mln fossiliferous 1680 1691 varicolored sh	
1635									1710 1720 varicolored sh 1720 1728 white to gray 1728 1740 varicolored sh 1740 1757 light gray to buff sucrosic to fine mln 1757 1762 varicolored sh 1770 1778 varicolored sh 1778 1790 light gray to buff 1790 1800 reddish brown sh 1800 Neva Limestone	
1735									1825 1835 dark gray sh 1842 1850 dark gray sh 1850 1858 gray-buff fine mln 1858 1860 gray sh	
1835	Neva Limestone								1900 1913 varicolored limey sh 1920 1925 gray sh 1938 1942 gray sh 1958 1963 gray sh 1985 2020 varicolored sandy limey sh	
1935									2020 2040 gray dense-fine mln fossiliferous 1st faintly 2040 2083 varicolored sandy micaceous sh	
2035									2083 2098 light gray to buff dense-fine mln 1st 2098 2102 gray sh 2110 2115 gray sh 2120 2125 gray sh 2137 2171 varicolored sandy micaceous sh	
2135									2171 2186 cream-gray dense-fine mln 1st 2186 2207 varicolored sh 2207 2213 cream-buff 2218 2222 cream-buff 2230 2235 cream-buff 2240 2245 cream-buff 2250 2255 cream-buff	
2235									2300 2340 gray dense-fine mln 1st	
2335									2340 2375 varicolored limey slightly silty micaceous sh 2375 2385 gray-buff dense-fine 2385 2420 skip	
2435									2420 2435 light gray to buff dense-fine mln fossiliferous 2435 2455 varicolored slightly sandy micaceous sh 2455 2463 light gray 2463 2505 varicolored sandy micaceous sh	
2535									2505 2515 cream-gray buff 2515 2520 varicolored sh 2538 2547 varicolored sh 2547 2555 cream-gray buff 2555 2565 varicolored sh 2565 2567 cream-gray buff 2575 2590 cream-gray buff dense-fine mln fossiliferous 2590 2703 varicolored sandy micaceous sh	
2635										
2735									2710 2725 varicolored sh 2725 2730 gray dense-fine mln 2735 2780 gray-buff dense-fine mln 1st 2780 2798 varicolored silty micaceous sh 2798 2800 1st 2817 2820 dark gray sh 2840 2843 dark gray sh 2852 2890 varicolored sh	
2835									2897 3055 varicolored sandy micaceous sh	
2935										
3035									3055 3071 buff to brown 3072 3081 buff to brown 3081 3086 black sh 3094 Heebner Shale	
3135	Heebner Shale								3128 Toronto Limestone	
3235	Toronto Limestone								3151 3165 varicolored sandy 3165 3173 gray dense-fine mln 3173 3183 varicolored sandy 3183 3212 gray fine mln sandy shaly 1st 3212 3270 varicolored sandy micaceous sh	
3335									3270 3280 varicolored sandy 3280 3424 varicolored sandy micaceous sh	
3435									3424 3442 buff to brown dense-fine mln fossiliferous 3442 3468 varicolored sandy micaceous sh 3468 Stalnaker Sandstone 3480 3498 gray fine grain sub-angular micaceous tight to 3498 3500 gray fine grain	
3535	Stalnaker Sandstone								3557 3715 varicolored sandy micaceous sh	
3635										
3735									3715 3724 dark gray sh 3724 Kansas City 3740 3755 cream-gray dense-fine mln 1st oolitic and 3755 3805 light gray to buff dense-fine mln 1st	
3835									3805 3807 gray sh	
3935									3897 3900 dark gray sh 3919 3945 gray dense fine mln shaly 1st 3945 3950 black sh 3980 Base KC	
4035									4015 4025 gray dense-fine mln 4025 4059 gray silty micaceous sh 4059 Hammaton 4077 4090 cream-gray 4090 4092 dark gray sh	
4135									4123 4129 gray sh 4140 4145 black sh 4145 4161 gray-buff dense-fine 4161 4165 dark gray sh 4183 4195 dark gray to black 4202 4206 black sh 4220 4222 gray sh 4238 4240 gray sh	
4235										
4335									4350 4405 varicolored sandy micaceous sh 4405 4409 varicolored sandy	
4435									4442 Mississippian	
4535									4490 4560 buff to brown sucrosic to fine mln cherty dolomitic 1st w/ gray & brown opaque to sub-opaque chert	
4635									4560 4815 gray buff & brown sucrosic to fine granular silty impure shaly cherty dolomitic 1st	
4735										
4835									4815 4825 gray-buff dense 1st 4825 Kinderhookian 4855 4895 green & greenish gray silty silty micaceous spore bearing sh 4895 Chattanooga Shale	
4935	Chattanooga Shale								4919 4966 white fine to coarse & frosted tight to friable partly unaltered sst	