

Water Well Log

Strata Geological Services, Inc.
Tarryton, Texas
830-562-3680



Well ID: HWGWCD # 5
Location: Kerr County W/LMA TP&W
Geologist: William Feathergill Wilson, PG # 21
Driller: Aramadigger, Mike
Rig Type: Air Rotary
Total Depth: 890'

Depth	Lithology	Description	Effective	Well	Micro-graphs	Comments
			Porosity			
			0 10 20			
0 - 30	Limestone with fossils	0 - 30 LIMESTONE: cream porous mega-fossil with trace of chert biomicrite, top of Edwards Group				Edwards @ surface Elev = 2,067' N 30 06' 25.5" W 99 29' 38.6" 8" hole 0 - 890' Set 4.5" PVC to 870' Screen 870-610'
30 - 37	Marl	-30, -37 MARL: cream marl				Lithologic log based upon gamma log, cuttings, drilling characteristics, downhole pressures; lost circulation zones = 120-140, 380-620, 630-680
37 - 60	Limestone	-37, -60 LIMESTONE: It tan mega-fossil biomicrite, as above				99 million years BP
60 - 145	Dolomite	-60, -145 DOLOMITE: It tan porous dolomite				
145 - 150	Limestone	-145 - 150 LIMESTONE: It tan-cream biomicrite, as above				
150 - 180	Dolomite	-150 - 180 DOLOMITE: It tan porous dolomite				
180 - 210	Limestone	-180 - 210 LIMESTONE: It tan-It gray mega-fossil biomicrite with layers of chert 190-210'				Chert
210 - 220	Dolomite	-210 - 220 DOLOMITE: It tan chert bearing porous dolomite				Chert
220 - 297	Marl	-220 - 297 MARL: It gray foraminiferal marl alternating with thin beds of biosparite and biomicrite, top of Upper Glen Rose				Top of Upper Glen Rose Member @ 220'
297 - 417	Sabkha	-297, -417 SABKHA: It gray-It orange anhydrite and microdolomite				Sabkha evaporite zone
417 - 494	Marl & Limestone	-417, -494 MARL & LIMESTONE: It gray foraminiferal marl alternating with thin beds of biosparite and biomicrite				
494 - 610	Sandy Silt	-494 - 610 Sandy Silt: It gray sandy med grained clay				Top of Hensel marine member @ 494', Ferasall Formation Water level @ 496'
610 - 618	Gravel pack					Gravel pack 610-880'
618 - 622	Sand	-622 - 632 Sand: It orange-white loose very porous saturated coarse grained sand and gravel, top of correlative Hensel channels and beach deposits				Top of Hensel continental member @ 620', Ferasall Formation
632 - 645	Palaeosol	-632, -645 PALAEOSOL: It orange-It red silty sandy paleosol				
645 - 674	Sand & Gravel	-645, -674 SAND & GRAVEL: It orange-white loose very porous saturated coarse grained sand and gravel, top of correlative Hensel channels and beach deposits				10 HP pump set at 651' Aquifer
674 - 690	Palaeosol	-674 - 690 PALAEOSOL: It orange-It red silty sandy paleosol				
690 - 830	Sand & Gravel	-690 - 830 SAND & GRAVEL: It orange-white loose very porous saturated coarse grained sand and gravel, top of correlative Hensel channels and beach deposits				Aquifer
830 - 840	Palaeosol	-830 - 840 PALAEOSOL: It orange-It red silty sandy paleosol				144 million years BP
840 - 890	Clay	-840 - 890 CLAY: It gray Pennsylvanian clay				Top of Paleozoic surface, Pennsylvanian System, 320 million years BP, major unconformity