

Water Well Log

Strata Geological Services, Inc.

Tarpley, Texas

830-562-3680



Well **Headwaters Monitor Well # 2**
 Location **Kerr County, Texas**
 Geologist **Wm Feathergill Wilson, PG # 21**
 Driller **Armadigger, Mike**
 Rig Type **Air Rotary, Reich Hdrill T-650-WII**
 Total Depth **610'**

Depth	Lithology	Description	Effective Porosity		Well Construction	Micro-graphs	Comments
			0	10 20			
0 -2		0, -25 GRAVEL: It tan well rounded Holocene-Pleistocene gravel					In Holocene-Pleistocene alluvial gravel @surface 10,000 years BP
-2 -24							"10" PVC to 35' 8 3/4" hole from 35' to 610'; pea gravel packed around perforated 2" PVC from 400 to TD; 2" PVC sealed from 400' to surface
-24 -26		-25, -65 MARL & LIMESTONE: It gray foraminiferal marl interbedded with It gray mega-fossil phosphatic biomicrite; top of Upper Glen Rose Member					Top of Upper Glen Rose Member, Glen Rose Formation @ 25', 99 million year hiatus
-26 -66							Elevation: 1750' GPS Location: N 29 58' 11.1" W 99 12' 45.2"
-66 -70		-65, -70 SABKHA: It gray-white anhydrite interbedded with It gray microdolomite, Sabkha evaporite beds					Anhydrite
-70 -76		-70, -75 MARL: It gray foraminiferal marl					Top of Lower Glen Rose Member, Glen Rose Formation
-76 -82		-75, -100 MICRODOLOMITE: It gray Milliolid bearing sandy microdolomite; top of Lower Glen Rose Member					
-82 -100		-100, -120 LIMESTONE: It gray sandy phosphate fragment biomicrite; Corbula bed @ 110'					Corbula bed
-100 -120		-120, -140 MICRODOLOMITE: It gray Milliolid bearing phosphatic silty microdolomite; Orbitolina texana					Orbitolina texana Milloid foraminifera
-120 -140		-140, -200 LIMESTONE: It gray-It tan mega-fossil phosphatic bearing intramicrite, biomicrite and biosparite					
-140 -200							Orbitolina texana
-200 -230		-200, -233 MARL & LIMESTONE: It gray foraminiferal marl interbedded with It gray-It tan biosparite and mega-fossil biomicrite; Orbitolina texana @ 210'					Orbitolina texana
-230 -233		-233, -247 SABKHA: It gray-white anhydrite interbedded with It gray microdolomite; Sabkha evaporite beds					Anhydrite
-233 -247		-247, -270 MARL & LIMESTONE: It gray-It tan silty fossil fragment dolomitic biomicrite					
-247 -270		-270, -300 MARL & LIMESTONE: It gray foraminiferal marl interbedded with It gray mega-fossil biomicrite, intramicrite and biosparite					
-300 -310		-300, -310 MICRODOLOMITE: It gray slightly porous microdolomite					Static water table, 300.5'; 01-21-03 Albian/Aptian boundary, 112 million years BP
-310 -355		-310, -355 SANDY SILT: It gray sandy dolomitic slightly porous sandy siltstone, top of Hensel Member, Pearsall Formation					Top of Hensel Sand Member, Pearsall Formation @ 310'
-355 -360		-355, -360 CLAY: It gray marly oyster bearing clay; top of Bearx Mbr					Top of Bearx Shale Member, Pearsall Formation @ 355'
-360 -390		-360, -390 SANDY SILT: It gray sandy siltstone; top of Cow Creek Member, Pearsall Formation (time equivalent)					Top of Cow Creek Member (time equivalent), Pearsall Formation @ 360'
-390 -395		-390, -395 CLAY: It gray oyster bearing sticky silty clay; top of Hammett Mbr					Top of Hammett Shale Member, Pearsall Formation @ 390'
-395 -480		-395, -480 SAND: It orange-white med-very coarse grained loose saturated well sorted sand; top of Houston Formation					Top of Houston Formation @ 395' Aptian-Neocomian boundary @ 395', 121 million years BP
-480 -508		-480, -508 SANDY SILT: It orange-It gray sandy silt and siltstone					Pea gravel pack 400-610'
-508 -540		-508, -540 SAND: It orange-white very coarse grained semi-consolidated sand and pebbles					Very strong aquifer
-540 -567		-540, -567 SANDY SILT: It tan-It gray sandy silt and siltstone					
-567 -585		-567, -585 SAND & GRAVEL: It orange-white-It tan MRP, chert and quartz gravel					Paleosol beds
-585 -590		-585, -590 PALEOSOL: It red paleosol siltstone					Paleosol 144 million years BP
-590 -610		-590, -610 SHALE: It gray or ganic silty shale; top of Pennsylvanian shale					Top of Lower Pennsylvanian Period @ 590', Tesnus Formation (?), 320 million years BP, 176 million year hiatus at unconformity