



**EXPLANATION**

**SEDIMENTARY ROCKS**

	Coastal deposits (Mud, silt, sand, shells, and fragments of shells)
	Wind-blown sand and beach deposits (Sand dunes and wind-drifted sandy shales)
	Fluvial deposits (Clayey silt, highly subsurface and somewhat sandy, of gray, blue, red, and brown colors, streaked by siltstone, with various carbonates, gray sandstone, and gravel, and some pebbles)
	Basement clay (Clayey blue and red calcareous clay, weathering yellow, with some lenses of sand and a few scattered limestone concretions)
	Terrace deposits (Light gray and buff silt with some sand and fine gravel, deposited on level surfaces, probably contemporaneous with or slightly later than the terrace above)
	Liasic gravel (Clayey gravel, mostly unconsolidated, with beds of sand and thin beds of limestone)
	Reynosa formation (Disconformity of gravel overlain by fine sandstone, unconsolidated gravel, limestone with concretion, and a small amount of clay, all interstratified)
	Oakville sandstone (Sandstone and clay, in some unconsolidated rounded pebbles of fine sand)
	Frio clay (Varicolored clay with a few masses of gray sandstone, the clay is sandy and contains scattered pebbles in this place, some of the clay are pebbly, some beds of yellowish sand and many small subsurface nodules are present)
	Fayette sandstone (Olive, yellow, and coarse grained sandstone of white, gray, greenish-gray, and buff colors, with thin beds and lenses of greenish-gray, black, and red sandstone, and a few beds of yellowish sandstone)
	Cookfield formation (Chiefly siliceous and calcareous clay of various colors, but predominantly dark gray, with thin beds and lenses of sand and sandstone, irregularly rounded pebbles of quartzite)
	Cook Mountain formation (Varicolored sandstone, ferruginous, micaceous, and siliceous, many of the beds are micaceous and ripple marked, interbedded with sandstone and lenses of unconsolidated sandstone and thin layers of gray limestone)
	Mount Selman formation (Chiefly clay of gray, black, greenish, and buff colors, with some layers and beds of sandstone and limestone, several beds of lignite and brownish sandstone, and some layers of sandstone)
	Bigford formation (Chiefly clay of various colors, with subordinate amounts of green, gray, and brown sandstone and many beds of lignite, largely contemporaneous with Carrizo sandstone but in part younger)
	Carrizo sandstone (Chiefly cross-bedded sand and sandstone, some of the sandstone is micaceous and crystalline, and some is highly ferruginous, thin beds and lenses of brownish colored clay and limestone)
	Indio formation (Thin-bedded and laminated argillaceous sand and sandstone shales, with some layers of coarse clay and lenses and layers of sandstone)
	Midway formation (Shale with some interbedded lenses and layers of sandstone and limestone and, in places, conglomeratic beds at base)

**UNCONFORMITY**

**FAULT**

**Strike and dip**

**Oil pool and wells**

**Well drilled for oil**

**Gas well**

**Clay, sand, and gravel pit**

**Salt dome**

**Mine**

GEOLOGIC MAP OF THE LOWER RIO GRANDE REGION, TEXAS

Scale 500000

Base from U. S. Geological Survey map of Texas

WILLIAMS & HEINTZ CO. WASH., D. C.

Geology by A. C. Trowbridge assisted by A. G. Madden, W. S. Glock, and Lloyd North