



EXPLANATION

- Catohoula tuff**
(Gray to white tuff and sandstone. Only basal beds of sandstone, tuffaceous, and highly micaceous throughout. Not water-bearing.)
- Jackson formation**
(Varicolored sand, sandstone, quartzite, volcanic ash, and clay, concretion and shelled wood concretion. Lower sandstone and shelled wood concretion. Middle sandstone and shelled wood concretion. Upper sandstone and shelled wood concretion. Not water-bearing.)
- Yegua formation**
(Gray to yellowish-brown clay, slightly sandy clay, lignite, gypsum, and calcareous sandstone. (The lower part of the formation is highly micaceous.)
- Cook Mountain formation**
(Clay, sandstone, greenstone, lenses of limestone, lignite, and gypsum. Porphyry considerable water. (The lower part of the formation is highly micaceous.)
- Mount Selman formation**
(Sandstone, quartzite, shale, limestone, concretion, and lignite. The sandstone and shale are highly micaceous. The limestone is highly micaceous. The concretion is highly micaceous. The lignite is highly micaceous. (The lower part of the formation is highly micaceous.)
- Carrizo sand**
(Mainly coarse cross-bedded sand with very small amounts of clay and shale. Only slightly micaceous. (The lower part of the formation is highly micaceous.)
- Indio formation**
(Thin-bedded sandstone and carbonaceous clay with sand of lignite, gypsum common. Porphyry small amounts of water, much of which is highly micaceous.)
- Boundary of area in which artesian flow can be obtained from Mount Selman formation (1930)**
- Boundary of area in which artesian flow can be obtained from Carrizo sand (1930)**
- Boundary of area in which artesian flow were formerly obtained from the Carrizo sand**
- Lands irrigated by water from Cook Mountain formation**
- Lands irrigated by water from Mount Selman formation**
- Lands irrigated by water from Carrizo sand**
- Nonflowing well with pumping plant**
- Flowing well with pumping plant**
- Flowing well without pumping plant**
- Nonflowing well equipped with windmill**
- Abandoned oil test well**
- Numbers on the map are the serial numbers given to the wells in the table of well records.**

GEOLOGIC MAP OF ATASCOSA AND FRIO COUNTIES, TEXAS, SHOWING LIMITS OF THE AREAS OF ARTESIAN FLOW, IRRIGATED LANDS, AND LOCATION OF RECORD WELLS