



EXPLANATION

**INTRUSIVE IGNEOUS ROCKS**  
Chiefly basalt, but at one exposure the rock is a syenite

**ESCONDIDO FORMATION**  
Hard sandstone and shaly clay

**OLMOS FORMATION**  
Friable sandstone and clay

**UNCONFORMITY**

**SAN MIGUEL FORMATION**  
Sandstone and calcareous clay

**ANACACHO LIMESTONE**  
Massive limestone and some clay

**UPSON CLAY**  
Clay, marl, and chalky limestone

**AUSTIN CHALK**  
Chalky limestone and marl

**UNCONFORMITY**

**EAGLE FORD SHALE**  
Flaggy limestone interbedded with marl and chalky marl

**UNCONFORMITY**

**BUDA LIMESTONE**  
Fine-textured brittle limestone

**GRAYSON SHALE**  
Clay and flaggy arenaceous limestone

**GEORGE TOWN AND EDWARDS LIMESTONE**  
Hard massive limestone; contains numerous chert nodules

**COMANCHE PEAK LIMESTONE**  
Massive, irregularly bedded limestone and some marl

**GLEN ROSE LIMESTONE**  
Marly limestone and marly clay

**Fault, dashed where approximately located**  
U, upthrown side; D, downthrown side

**Formation contact, dashed where approximately located**

Well with handpump, bucket or boiler

Well with windmill or small power pump

Well with pumping plant, 5-horsepower or larger

Unused well

Flowing well

Spring

Oil test

Stream-gaging station

Line above well number indicates chemical analysis shown in Table 10

(12)  
Parenthesis indicates driller's log shown in Table 8

Base compiled from aerial photographs, topographic maps, land survey maps, and field notes

Geology mapped by R.R. Bennett and A.N. Sayre in 1938-39  
Mapping is preliminary in the western part of the county

TERTIARY OR CRETACEOUS

Navarro group

Gulf series

Washita group

Comanche series

Fredericksburg group

Trinity group

CRETACEOUS

COUNTY

4 5 Miles

OF WELLS AND SPRINGS, KINNEY COUNTY, TEXAS