



EXPLANATION

Qa
FLOOD-PLAIN ALLUVIUM
 (Gravel, sand, silt, and clay underlying present flood plains. Yields hard water to a few domestic and stock wells.)

Qt
YOUNGER TERRACE DEPOSITS
 (Gravel, sand, silt, and clay underlying intermediate stream terraces. Yields moderate amounts of hard water to municipal, domestic, and stock wells.)

Qo
OLDER TERRACE DEPOSITS
 (Gravel, sand, silt, and clay underlying higher stream terraces along sides of valley. Yields moderate amounts of hard water to public-supply, domestic, and stock wells.)

Pcc
CLOUD CHIEF FORMATION
 (Mostly gypsum, dolomitic at base in some places with interbedded red clay shales at many places. Yields no water to wells.)

Ds
RUSH SPRINGS SANDSTONE
 (Fine-grained cross-bedded sandstone, with prying silty lenses. Yields moderate supplies of water to wells in most of the area, suitable for most industrial and municipal use.)

Dm
MARLOW FORMATION
 (Even-bedded sandy or silty shale, and bands of sandy gypsum. Varies sandstone member near middle. (Pm), Relay Creek dolomitic beds at top. Yields small quantities of highly mineralized water.)

Pdb
DOG CREEK SHALE AND BLAINE FORMATION (UNDIFFERENTIATED)
 (Mostly dark red even-bedded shales interbedded with fine-grained gypsiferous sandstones which locally grade into gypsum. Yields very little water to wells. The water is very hard and contains large quantities of calcium sulfate.)

Dc
CHICKASHA FORMATION
 (A heterogeneous mixture of sandstones, shales, silts, and silty sandstones. Yields small to moderate quantities of water to wells over much of Grady County and northern Stephens County. Water generally potable although locally too mineralized even for stock use.)

Pd
DUNCAN SANDSTONE
 (Mostly sandstone, with minor amounts of interbedded shales and interstratified silty sandstones. Yields water to wells throughout Grady County and northern Stephens County. The water is hard and in some localities is too highly mineralized even for stock use.)

○ 10
 Well tapping water in alluvium or terrace deposits.

● 10
 Well tapping water in Rush Springs sandstone.

○ 11
 Well tapping water in the Chickasha formation or Duncan sandstone.

Number below the line is depth of well; number above the line is depth to water below land surface. F, well flowing.

U.S. highway
State highway
Rural road
Railroad
Perennial stream
Intermittent stream
Drainage ditch
Gravel pit

Scale of miles