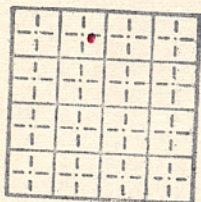


Cheyenne Co.

9 July 57

Sec. 29, T. 3 S., R. 40 W.



NE NW; Exposure along east-facing, curved bare bank directly west of US 36 and K 27 intersection.

Sand - light brown, limy, contains chunks of clay, volcanic ash, and gravel. Shows definite Ogallala characteristics. Thickness varies, but about 6 ft. exposed.

Clay shale - medium brown, dry surface cracks in the "crackle" pattern characteristic of bentonite but the shale does not appear bentonitic. Estimated thickness about 15 ft. Grab sample taken (757-29340).

Unit described above grades into or is the upper part of the unit below.

Clay shale - resembles unit above except predominantly dark gray with a little brown; does not show the bentonite "crackle" pattern as well as the unit above.

estimated thickness exposed 6 ft.

Sec. 24, T. 3 S., R. 41 W.

Bentonite reported in the NE quarter of this section, but was not able to find an outcrop.