Page 1

21-35-27caa (Well No.) Sample log of test hole augered drilled
by Kansas Geol. Survey for U.S. Geol. Survey
in NE NE SW sec. 27, T. 21 S., R. 35 W., 0.24 east and 0.24 north of SW cor sec 27 (Location)
10/30/63 (Date); depth to water, about 105' feet;
altitude of land surface 3095 feet.

	Thickness, feet	Depth, feet
Neogene		
Undifferentiated Pleistocene and Pliocene (Ogallala Fm.)		
Top soil, dark brown	3	3
Silt, sandy, clayey, gray to buff tan (buff tan)	9	12
Silt, sandy, clayey; contains tan white caliche streaks	18	30
Silt, sandy, clayey; interbedded with fine to coarse subangular to rounded sand and tan white caliche streaks	30	60
Sand, very fine to very coarse, subangular to rounded and very fine gravel; interbedded with tan buff limy silt and clay streaks	47	107
Sand, fine to very coarse, subangular to rounded, and fine to medium, subangular to well rounded, gravel; contains hard, tan-white caliche cemented sand and gravel streaks and tan buff silty clay streaks	30	137
Caliche, hard, sandy, yellow tan white	5	142
Cretaceous (2958)		
Upper Cretaceous		
Niobrara Chalk		

Page 2

21-35-27caa Sample log of test hole augered drilled
(Well No.)

in
(Location)

; depth to water, feet;
(Date)

altitude of land surface feet.

	Thickness, feet	Depth, feet
limestone hard white with a few soft yellow chalk layers	15	157
chalk soft white	2	159
chalk (?) hard fractures	0.5	159.5
Chalk soft white porous fractures when drilled some washed up when developing observation well. Drilled to 160 piezo tube sank to 166' and pulled back to 163'	6.5	166