

15. Log of test hole 16 in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T. 34 S., R. 30 W.,
 Meade county, drilled by the State and Federal Geological Surveys,
 1944. Surface altitude, 2,444 feet. (Authority, samples studied
 by Oscar S. Pent and Thad G. McLaughlin.)

	Thickness, feet	Depth, feet
Silt, gray-brown, containing sand and gravel	3	3
Silt and clay; buff and greenish-gray; containing sand and gravel	2	5
Laverne formation		
Clay, light-buff and light blue-gray, containing crys- talline gypsum	5	10
Clay, light-gray to light blue-gray, containing fine to coarse sand at depth of 12 feet	2.5	12.5
Caliche, hard, light gray to greenish-gray, containing sand and clay	13.5	26
Shale, thin-bedded, dark blue-gray	21	47
Caliche, light blue-gray, containing sand, clay and gravel	19	66
Clay, silty, light blue-gray	14	80
Clay, in part silty, light-gray, containing fine to medium sand and crystals of gypsum	40	120
Clay, light-gray, partly cemented by gypsum and con- taining many crystals of gypsum	18	138
Caliche, hard, light-gray, containing fine to coarse sand and crystals of gypsum	12	150
Clay, silty, in part thin-bedded, gray, containing gypsum	50	200

Clay, in part thin-bedded, light blue-gray	12	212
Sand, fine to gravel, medium; containing yellow and white clay and limonite	25	237
Clay, light-tan, containing fine to coarse sand and a little caliche	6	243
Silt, pink-buff, containing fine to medium sand	2	245
Clay, light-tan, containing a little sand and gravel	2	247
Sand, fine, to gravel, medium	28	275
Silt, pink-buff to yellow-buff, containing sand and gravel	4	279
Gravel, fine, and sand	5	284
Silt, pink-buff, containing fine to medium sand and zones of caliche	12	296
Gravel, fine to medium, and sand; containing caliche and pink-buff silt in lower part	10	306
Permian redbeds		
Shale, brick-red	4	310

2444
346
2198