

Table 2.--Ceramic Tests of Clays from Stockton and Stanley Hill Clay Deposits

Drill hole and sample data furnished
by the U. S. Bureau of Mines

Sample	Plasticity	Plasticity water (%)	Dry shrinkage (%)	Cone fusion	Cone	Fire shrinkage (%)	Total shrinkage (%)	Absorption (%)	Hardness	Color	Condition or Remarks	Description of Samples
A	Fair	31.5	7	20-23	02	3.0	10.0	22.1	Soft	L Re-Br +	Good	A. Gray, fine-grained, sandy clay. Slakes very readily. From open cut (pl. 1; coordinates 13,830Y; 5,400X). (Skeels, Sample No. 12, pp. 31-32.) B. Red and gray, fine-grained, sandy clay with visible muscovite. Slakes very readily. Sample of 6-foot face at location of sample A. (Skeels, Sample No. 13, p. 32.) C. Gray, fine-grained clay. Slakes very readily. From dump of well (pl. 1; coordinates 13,875Y; 5,090X). (Skeels, Sample No. 14, pp. 32-33.) D. Gray and light brown, fine-grained clay containing muscovite. Slakes readily. From dump of well (pl. 1; coordinates 13,875Y; 5,120X). 30 feet east of sample C. (Skeels, Sample No. 15, p. 33.) E. Tan and gray, slick, waxy clay with yellow stain spots and a few small concretions of limonite. Good dry strength. From drill hole No. 98 (pl. 1; coordinates 14,600Y; 5,800X), 3 feet below lower contact of upper basalt flow. (Scheid, Sample St. 3, 1944.) F. White, massive, fine-grained clay. Slakes readily. From 4-foot face of hole (pl. 1; coordinates 13,570Y; 3,360X). (Skeels, Sample No. 19, pp. 35-36.) G. Light gray and tan, fine-grained clay containing fine silt and muscovite. Very good dry strength. From pits (pl. 1; coordinates 13,570Y; 3,360X). (Scheid, Sample St. 2, 1943.) H. Gray, silty, and muscovitic clay containing small fragments of plant remains. Good dry strength. From road cut (pl. 1; coordinates 9,200Y; 2,950X). (Scheid, Sample St. 5, 1944.) I. Pink, tan, and white granitic residual clay containing some muscovite and abundant large grains of quartz. Slakes readily. Kaolinite is soft and powdery. From road cut (pl. 1; coordinates 9,980Y; 2,500X). (Scheid, sample 50, 1938.) The modulus of rupture for the fired test bricks at both cones 1 and 4 is 206 pounds. J. Tan, pink, and white granitic residual clay. Weak dry strength. From same road cut as sample I. (Scheid, Sample St. 4, 1944.) K. Gray-white, coarse-grained clay. Slakes quickly. From dump of well behind house, Stanley Hill. Half a mile east of sample L. (Skeels, Sample No. 17, pp. 34-35.) L. Yellowish gray, medium-grained, sandy clay containing minor amount of small muscovite flakes. Slakes readily. From well and dump, 200 yards north of residence of A. C. Power ranch, Stanley Hill. (Skeels, Sample No. 16, pp. 33-34.) M. Yellowish gray, fine-grained clay. Slakes slowly. One-fourth mile west of sample L; from dump of caved well east of house, Stanley Hill. (Skeels, Sample No. 18, p. 35.)
					14	3.0	10.0	---	Soft	L Re-Br +	Good	
					3	4.0	11.0	20.9	Hard	Re-Br	Good	
					6	4.0	11.0	19.0	Hard	Re-Br	Good	
					9+	6.0	13.0	17.0	Hard	Sp/Gr	Good	
B	Fair	34.6	8	---	15	7.3	14.3	1.2	Steel hard	D Br	Slight deformation; dark interior.	
					01	4.0	12.0	19.2	Med. hard	Bu-Re	Good	
					3	4.5	12.5	17.7	Med. hard	Re-Br	Good	
					6	3.5	11.5	15.1	Med. hard	Re-Br	Good	
					9	5.5	13.5	12.7	Hard	Br-Re	Good	
C	Fine	28.3	12	---	010	3.0	15.0	18.9	Hard	M Bu	Good	
					06	3.0	15.0	16.5	Steel hard	M Bu	Good	
					02	9.0	21.0	4.9	Steel hard	De Bu	Cracked	
					3	10.0	22.0	2.4	Steel hard	De Bu	Cracked	
					6	10.0	22.0	2.3	Steel hard	De Bu	Cracked	
D	Fair	25.7	5	---	15	9.0	21.0	1.5	Steel hard	Br	Few cracks	
					01	6.0	11.0	12.9	Steel hard	Bri Br-Re	Black spots	
					3	6.5	11.5	10.6	Steel hard	Bri Br-Re	Black spots	
					6	10.0	15.0	6.6	Steel hard	Br Re	Good	
					9+	10.0	15.0	3.5	Steel hard	Sp D Gr	Good	
E	High	---	11.5	26 -	5	---	16.7	---	---	Li Br	---	
F	Fine	30.3	8	30	01	6.0	14.0	16.7	Steel hard	L Bu	Good	
					3	6.5	14.5	10.5	Steel hard	M Bu	Good	
					6	7.0	15.0	9.1	Steel hard	M Bu	Good	
					9+	9.0	17.0	5.3	Steel hard	Gr-Bu	Good	
					15	9.0	17.0	1.0	Steel hard	L Br	Vitreous; some warpage; blue-gray interior	
G	High	---	7.3	30	5	---	15.6	---	---	Ri Bu	---	
H	High	---	7.3	29 +	5	---	14.6	---	---	Bu	---	
I	Weak	23.2	3.3		1	0.8	4.1	19.2	Soft	Wh	Good; crumbles on edges.	
J	Weak	---	3.1	32	5	---	3.6	---	---	Wh	Good; crumbles on edges.	
K	Good	33.5	4	20 -	01	---	4.0	31.3	Med. hard	De Bu	Small body cracks.	
					3	---	4.0	28.9	Med. hard	De Bu	Small body cracks.	
					6	---	4.0	27.0	Med. hard	De Bu	Small body cracks.	
					9+	---	4.0	20.8	Hard	Bu	Good	
					15	---	2.5	33.0	Soft	Br-Gr	Punky	
L	Fair	31	7	---	010	0.0	7.0	23.7	Soft	Bu-Br	Good	
					06	1.0	8.0	22.7	Soft	Bu-Br	Good	
					02	4.0	11.0	18.4	Med. hard	Bu-Br	Good	
					1+	4.0	11.0	17.3	Med. hard	Bu-Br	Good	
					6	4.0	11.0	11.8	Med. hard	Bu-Br	Good	
M	Good	40.3	7	---	15	7.5	14.5	9.4	Steel hard	D Br-Bi	Glazed surface	
					01	11.0	18.0	13.7	Steel hard	Gr-Wh	Badly cracked with yellow scum	
					3	13.0	20.0	8.5	Steel hard	Gr-Wh	Badly cracked with yellow scum	
					6	15.0	22.0	6.3	Steel hard	Gr-Wh	Badly cracked with yellow scum	
					15	---	---	---	Steel hard	Li Bu-Br	Badly cracked with yellow scum	

This map or illustration is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

Abbreviations: Color of Fired Test Bricks

Abbreviation	Meaning	Abbreviation	Meaning
L	Light	Wh	White
M	Medium	Bu	Buff
De	Deep	Br	Brown
Bri	Bright	Gr	Gray
D	Dark	Re	Red
Sp	Spotted	Bi	Black
Ri	Rich		

a/ As given by Skeels; very likely a typographical error and possibly should be 34.6.