

- 13.—Clay from a deposit occurring on section 1 or 12 or both, of tp. 24, range I, west of the fifth initial meridian, Alta.

A brownish-grey, somewhat strongly calcareous, slightly magnesian, and slightly ferruginous, rather readily fusible, strongly plastic clay, holding numerous rounded pebbles of quartz, sandstone, and limestone, and also containing a very large quantity of fine siliceous grit. After separation of the pebbles in question, the clay itself was found to contain, approximately, calcium carbonate 13.46, magnesian carbonate 3.38, and intermixed fine siliceous sand 42.00 per cent. It afforded a strong brick of a reddish-brown colour.

- 14.—Clay occurring on the homestead of Mr. A. M. Kay, section 34, tp. 32, range I, west of the fifth initial meridian, Alta., about one mile and a half east of the town of Olds, Calgary div., Alta.

A greenish-grey, somewhat highly calcareous, slightly magnesian, slightly ferruginous, rather feebly plastic clay, which burns reddish-white, is somewhat difficultly fusible at an elevated temperature, and affords a strong brick. It might be employed for the manufacture of ordinary building brick, drain tiles, and similar ware.

- 15.—Clay from a deposit on the west-half of section 19, tp. 7, range III, west of the fifth initial meridian, Alta.

A light greenish-grey, slightly calcareous, very slightly magnesian, slightly ferruginous, feebly plastic, readily fusible clay, containing a small quantity—approximately 13 per cent, of fine grit composed, essentially, of quartz and feldspar. When burnt it assumes a dull reddish-brown colour. It affords but a weak brick.

- 16.—Clay from the same locality as the preceding specimen.

A bluish-grey, somewhat highly calcareous, slightly magnesian, and slightly ferruginous, feebly plastic, readily fusible clay, containing a somewhat large quantity—approximately 27 per cent, of fine grit composed, chiefly, of quartz and feldspar. It affords a fairly strong brick of a reddish-brown colour.

- 17.—Clay from the same locality as the two preceding specimens.

A light greenish-grey, slightly calcareous, non-magnesian, slightly ferruginous, readily fusible, rather strongly plastic