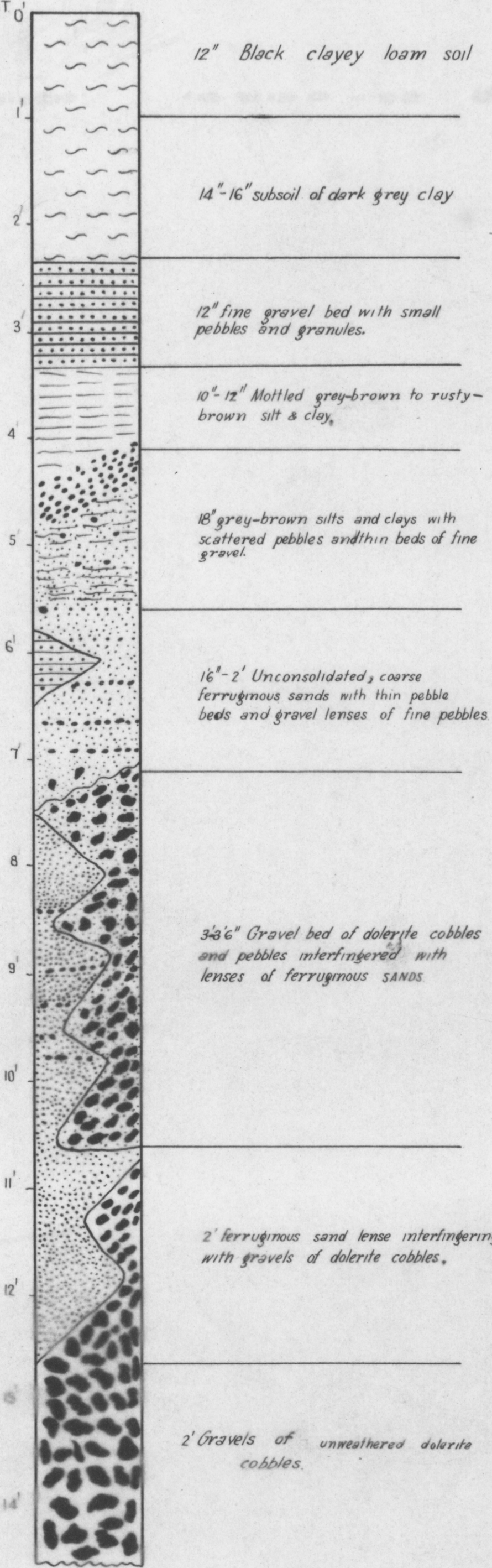


5 cm

DEPTH
IN
FEET

MAJOR BEDS OR HORIZONS

LITHOLOGY



Dark-grey clayey loam with occasional pebbles.

Gravel bed contains pebbles of less than $\frac{1}{4}$ " diameter, but pebbles occasionally $\frac{1}{2}$ " size present. Pebbles in a matrix of dark grey-silty clay with a high % of organic material.

Transitional bed of dark grey-rusty brown mottled clayey siltstone with a high % of organic material.

Clay silts & fine sands with scattered pebbles and $\frac{1}{2}$ " pebble bed at the base of the bed & a $\frac{1}{4}$ " pebble bed at the top of the horizon. The pebbles in the beds & scattered in the silts & sands, are small $< \frac{1}{4}$ " in size.

Massive soft dark-brown sands derived from dolerite. In the sands thin gravel bands of $> \frac{1}{2}$ " thickness occur at several levels. The sands lense out in the North of the trench to be replaced by a 12" gravel bed of small pebbles and granules of $\frac{1}{2}$ " average size. The matrix of this gravel bed is a clay and clayey silts with abundant organic material. One discontinuous layer of organic material 1" thick occurs in the gravels & sand at 6'0" depth.

CONTACT BETWEEN THE GRAVEL BEDS AND OVERLYING SANDS IRREGULAR BUT SHARP WITH A DEFINITE SLOPE TO SOUTH.

Gravels composed of cobbles and pebbles of dolerite with rare Permian siltstone pebbles present. Gravels are poorly sorted with larger cobbles tending toward the bottom of the bed. Cobble size averages 2"-4". Matrix of the gravels is sand & small pebbles. Water slowly leaking from the gravels at all levels in this bed. In the north of the trench the gravels are replaced by massive ferruginous sands derived from dolerite & grey brown mottled sandy silts. In these sands & silts are thin gravel beds which are of 1"- $\frac{1}{2}$ " thick. Pebbles in thin gravel beds are small, less than $\frac{1}{2}$ " in diameter & well rounded. Organic material present in both sands & gravels.

CONTACT BETWEEN OVERLYING GRAVELS BEDS & UNDERLYING GRAVELS AND SANDS INDEFINITE & TRANSITIONAL WITH NO SHARP BREAK PRESENT.

Coarse dolerite derived sands interfingering with the gravels on the northside of the trench. The sands, massive, unconsolidated, typical of dolerite derived sands. Occasional grey sandy silts mottled and rusty are present in this horizon. On the south side of the trench are gravels which are similar to those of the underlying horizon.

CONTACT APPROX. & TRANSITIONAL. (PRESENT ON THE NORTH SIDE OF THE TRENCH ONLY)

3' bed of river gravel with only slightly weathered dolerite cobbles of an average size of 4". Pebbles are very abundant & boulders are also present in this area. The matrix of these gravels is coarse sand & granules. All cobbles & boulders are well rounded & spherical in shape.

SOUTHERN OUTLET ROAD.

EXPLORATORY TRENCH N° 3

Located in the front lawn of N° 16 Lynton Ave.

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|------------------------|------------------------|----------|--|
| DEPARTMENT OF MINES | | TASMANIA | |
| DATE Oct 1964 | Scale 1" = 10 FEET | | |
| GEOLOGIST W R MOORE | SURVEYOR | | |
| DRAUGHTSMAN J S PEPPER | MAP SHEET N° HOBART 82 | | |
| REVISIONS | FILE N° 2480 | | |