

(15/24) (17)

Royal Asiatic Soc^y, Vol. VIII. p. 248.) of
a spring or well which was made many
years ago at the inland Eastern-house,
some three quarters of a mile from the
sea shore, which is reported to have
struck the crystalline rocks or gneiss
at only 55 feet below the surface.

36. The northern and western edges
of the Ponnammallee plain are of the
'Kuddalore sandstones' of the Red Hills,
which are lying at a very low angle east-
wards, or nearly flat, though it is possible
these are ~~denuded~~ denuded very even-
ly and that they slope rapidly under
the plain. On the other hand, the greater
part of the south side of the plain and
its south-west arm are all of gneiss
which goes to form the Palaveram and
several ~~the~~ ridges which are in fact only
part of a long promontory running
~~from~~ north-eastward ~~under the alluvium~~
under the alluvium, perhaps still with
rather a ridgy and rugged contour.
It was possibly a summit of this sub-
alluvial promontory, rather than a boul-
der of gneiss, which was struck in the
well noted above.

37.— In any case, the gneiss shelves

slowly under the Adyar alluvium
creeping up in the Adyar itself; hence
it would hardly be advisable to run
down borings along a north-south line
from the Mount ridges. It is possible,
of course, that borings might here be
run down, in places, to a sufficient
depth, for there is no certainty about
the contour of the sub-alluvial ridge,
but the chances are against this. - The
Madras Government Farm, and the
Horticultural Society's gardens are
unfortunately on this line.

38. - For this basin, the most likely
sites for wells would be in the area
ranging north-south from the left
bank of the Cooum, between Govern-
ment House and the Government
Engineers' bridge, towards Perambore. The
alluvial deposits ought to be deep here,
and the axis of any basinal lie they
may have crossed there in this direction.
I can hardly take it on me to ~~point~~
to more definite than this in pointing
into the ground; but if I might sug-
gest a ^{locality for} government well, a boring in
the neighbourhood of the General

Hospital, the Peoples' Park, and the Penitentiary might ~~unprofitably~~ strike fairly good and abundant water. For such an experiment, the labor available in the Penitentiary might ^{perhaps} be very advantageously and economically utilized.

39.- The northern part of the ~~town~~ town is again situated on the southern seaward horn of the Leontinean-Narva-Narva alluvial plain; and if its water-bearing strata only trend down here, then there remains every prospect of an inexhaustible supply of water which, under the Pondicherry type conditions, should have a high hydrostatic head. The plain is of very great extent with wide arms, ~~merges~~ merges up its main river and the affluents. The Nagary river has a head of about 300 feet at its entrance on the plain, and a good head must exist at the source of the Narva-Narva river through the Nagleson hills. - The Portellian alluvium proper is much remarkable in its extent considering the present size of the river, while it actually extends right

back to, or is joined with, the al-
luvial deposits ~~westward~~ of the Palár
river at a point where the continuity
of these is broken by a ~~shallow~~ rise
of gneiss through which the larger
river continues on its course to the
sea. It seems probable, on this,
that much of the water brought down
by the Palár may have a take-off
into the Cortelleira beds at this point.

40.- The doubt in my mind is as
to whether the Cortelleira beds do trend
as far south; and again if they do
this, the far-reaching beds which
shall catch the head gash in this
area will sink, I feel sure, to ~~depth~~
except by deep borrowings. Shallow
borrowings such as those at Pondicherry
will only strike the water-bearing
shales of the ~~to~~ Ponnammallee ~~area~~
or such shales as may crop up to
the surface at a short distance in
the Cortelleira arm. — the de Clovel,
C. S. of Madras L., I think stated in
a letter to Ponnammallee that he struck

45/80

a sheet of rising water in the Napier
Iron Works at 90 feet. This had not
a fresh even surface level, but it was
a promising sign as all the Pondi-
cherry wells have shown these preliminary
rises. However, to gain a hydrostatic
level of any height is as hard as it would
seem, in an case, that the boring
must be run down for at least 300
feet for the best height attained
at Pondicherry is only 16 feet on
mean sea-level at a depth of 261
feet. -

46. It would be better that any
borings likely to be carried out in the
western part of Madras should be
to the west of the Canal and north
of the Royapuram railway station.
Though it would be almost worthless
the chance of missing any sub-allo-
d ridge of gneiss if a well were
tried for in the western half of Black
Town. -

I have the honor to be
Sir
Yours most obedient
Wm. M. M.
Left 1/2
Subscribed by M.

569/31

REVENUE DEPARTMENT.

No. 2258

Order of the Geological Survey
 Dated 31 March 1880
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Mr. C. J. (the 800)

of geological survey

231 March 1880
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Alternatives in the
 and experience
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569/31

L.O. No 569 of 20 May 1880

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3. It is understood that boring operations have also been carried out at Cuddalore and the Collector will inquire & report regarding them. The

20
1 - W. King Esq., Dr. Sup^r (Chas.) Geological Survey of India
20 the 18th of Nov.
21 - P. W. Esq. (Lingaitin. Branch)
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