OPEN FILE
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### List of Maps

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TANGANYIKA HOLDINGS LIMITED

REPORT

AUTHORITY TO PROSPECT NO. 3169.

MARCH, APRIL, MAY, JUNE, 1972.

Condition (3) Mt. Treachery, N.T.

Further to our report of January, and February, 1972, we attach:

Stage 1.

1. The relevant portion of the Napperby sheet 1:250,000 enlarged to 1" = 1.58 miles and showing the following additional information.

   (a) the magnetic and radiometric anomalies as shown on the Mr. Hardy Area No. G 304 - 7, 1" = 4 mile, Geophysical Map. 1960.

   (b) the flight line information completed by South Bank Aviation.

   (c) the location of mineral occurrences from the Alice Springs Mines Department Geological reports

   (d) the boundaries of A to P's.

2. A base plan compiled as an uncontrolled mosaic of coloured photos at a scale of 1" = 2,000'.

   (a) coloured photo numbers, and the interpreted structural and anomalous colour details.

   (b) location of the significant points of interest as listed in (3) below.

   (c) grids off the Napperby sheet.

3. List of interesting points by run, photo, and order of significance.

Stage 2.

We intend proceeding with the geological inspection of selected points of interest immediately before proceeding to the next stages.

Expenditure

To date - $2055.00

Period - $5.00

F.G. WELLS.
ANNEX 1 - LEGEND

1 - Reddish-brown soil with abundant, low, wind-controlled (in places) vegetation. Type: run 1, photo 028.
2 - Reddish-brown soil with scarce, low vegetation. Type: 1/028.
3 - Greenish-gray soil with scarce, low vegetation. Type: 1/028.
4 - River alluvium; yellow or green-gray, with low vegetation and some trees. Type: 1/026.
5 - Convex surface and tone change show presence of rock near the surface. Type: 1/026.
6 - Dark to medium toned; low relief; round shape; fairly abundant, low vegetation; thick weathered mantle in places. Type: 1/024.
7 - Slopes around outcrops, with brown, green and gray colours; scarce vegetation. Probably: scree. Type: 1/024.
8 - Dark toned, massive; no lineation; some joints; fairly abundant, low vegetation; small areas without vegetation show smooth, reddish-brown surface. Type: 1/024.
9 - Light toned; hard; vegetationless or with scarce vegetation; inclusions in other rock types or isolated outcrops. Probably: quartz dykes or remnants of them. Type: 1/024.
10 - Dark to light brown and greenish brown; some vegetation; lineations and/or thin bedding; some fractures; smooth, soft appearance except for harder horizons. Type: 1/022.
11 - Light brown to yellow; scarce vegetation; very low relief; lineations in places. Probably: rock covered by thin soil or weathering mantle. Type: 1/018.
12 - Light brown with greenish areas; rough surface; scarce vegetation; no lineation; some reddish-brown, smooth patches with no vegetation; fractured. Type: 1/010.
12a - Variety of unit 12 with parallel lineation. Type: 3/084.
13 - Dark brown; some vegetation; medium relief, abrupt in places; rare joints; dykes; lineation scarcely visible. Type: 2/041.

--- boundary of photogeological unit
--- fault
--- lineament
--- set of joints; fracture trace
--- dyke

\begin{align*}
\text{low} & \quad \text{medium} & \quad \text{steep} & \quad \text{vertical} \\
\text{dip of lineation or bedding} & \\
\text{number of photogeological unit (see Annex 1)} & \\
\text{number of point of interest (see Annex 2)} & \\
\text{colour or vegetation anomaly} & \\
\text{area of general interest (see letter)} & \\
\end{align*}
ANNEX 2 - LIST OF INTERESTING POINTS

Run 1

Photo 024 - 1: colour and vegetation anomaly
2: fracture traces with associated colour anomaly
022 - 1, 2, 3, 4: quartz? dykes
5: colour and vegetation anomaly
020 - 1: colour anomaly
2: quartz? dyke
018 - 1, 2, 3: quartz? dykes
014 - 1: quartz? dyke
012 - 1: colour anomaly
2, 3: quartz? dykes
010 - 1: quartz? dyke

Run 2

Photo 035 - 1: colour and texture anomaly
2: colour anomaly
037 - 1: quartz? dyke
2, 3: colour anomaly
041 - 1, 2, 3: colour and vegetation anomaly
4, 5: dykes
6: colour anomaly along two intersecting linear features
7, 8: dykes with associated colour anomaly
9: colour and vegetation anomaly
043 - 1, 2, 3, 4, 5: dykes with associated colour anomalies
045 - 1: colour and vegetation anomaly
2: dykes, some with associated colour anomaly
047 - 1: dykes, some with associated colour anomaly
053 - 1: dyke
055 - 1: colour and vegetation anomaly at intersection between lineaments

Run 3

Photo 050 - 1: dykes with associated colour anomalies
088 - 1: colour anomaly
2, 3: dyke with associated colour anomaly
084 - 1: colour and texture anomaly associated with fracture
2: colour and vegetation anomaly associated with fracture
3, 4: dykes and colour anomaly
5: intersecting dykes and strong colour anomaly
092 - 1, 2: dykes and colour anomaly
3: intersecting dykes and strong colour anomaly
080 - 1: dykes and strong colour anomaly
   2: dykes and colour anomalies

078 - 1: dyke and colour anomaly
   2, 3: dykes
   4: intersecting dykes
   5: dyke and strong colour anomaly

076 - 1, 2, 3: dykes and colour anomalies

074 - 1: dyke and strong vegetation and colour anomaly

070 - 1: intersecting dykes and colour anomaly
   2: lineaments and colour anomaly

068 - 1: lineament and colour anomaly

Run 4
Photos 213 to 217: long lineament could be major fault

Photo 217 - 1, 2: dykes
   221 - 1, 2, 3: dykes and associated colour anomalies

223 - 1: dyke and colour anomaly
   2: colour anomaly
   3: plug and colour anomaly
   4: possible colour anomaly partly concealed by shadow of steep hill

227 - 1, 2, 3, 4, 5: dykes and colour anomalies

229 - 1, 2: dykes
   3: major dyke
   4: quartz? dyke.

!! = very interesting point
Denison run 5

Photo 00 - 1, 2: quartz? dykes
   98 - 1: colour and vegetation anomaly
          2: quartz? dyke
          3: dyke and colour anomaly
   96 - 1: quartz? dyke
          2: large colour anomaly and texture anomaly (could be a gossan)
94 - 1: same feature as 96.2
       2: major dyke
   92 - 1: major dyke associated with colour anomaly
          2: colour anomaly along fracture
       3, 4: dykes associated with colour anomalies
90 - 1: dykes associated with colour anomalies; isolated colour and vegetation anomalies
   2: intrusive plugs?
86 - 1: intrusive plugs?
       2: dyke and associated colour anomaly
84 - 1, 2, 3: dykes
   82 - 1: large colour anomaly in Quaternary deposits; is a terrace-like feature, approximately 5 to 10 m high
   2: intrusive plug?
   3: dyke and strong colour anomaly
80 - 1: dyke and associated colour anomaly
       2: colour anomaly at intersection of fractures
78 - 1: quartz? dyke associated with large colour and vegetation anomalies
76 - 1, 2: quartz? dykes
          3: syncline in sandstone - siltstone formation
          4: dyke
74 - 1: syncline as in 76 - 3.
ANNEX
Points of interest — Denison, runs 6, 7, 8, 9, 10, 13

Run 6
Photo 68 - 2: Qtz? dykes
66 - 1: Qtz? dyke
64 - 1: Colour anomalies
   2: Qtz? dyke
60 - 1: Colour anomalies
   2: Strong colour anomalies associated with fractures
   3: Major dyke
   4: Small colour anomalies associated with fractures
   5: Colour anomalies associated with fractures
   6: Colour anomalies
58 - 1: Minor
   2, 3: Colour anomalies along major dyke
   4, 5: Dykes
   6: Colour anomalies along fracture
56 - 1: Colour anomaly
   2, 3, 4, 5: Colour anomalies, possibly associated with set of parallel dykes
54 - 1: Dyke
52 - 1, 2, 3: Colour anomalies, associated with set of sub-parallel fractures
50 - 1, 3: Dykes?
   2: Colour anomaly
48 - 1: Fan formed by vegetation lineaments: buried dykes?
   2: Dyke
46 - 1, 2: Dykes
44 - 1: Long lineament, probably buried dyke
42 - 1: Colour anomaly
   2, 3: dykes
40 - 1, 2: Lineaments, probably buried dykes
   3: Lineament, probably buried dyke, associated with circular trend
   4: Dyke

Run 7
Photo 11 - 1: Colour anomalies associated with fractures
   2: Quartz? dyke
13 - 1: Colour anomaly associated with fracture
   2, 3: Dykes
15 - 1: Dyke?
17 - 1: Colour anomalies
19 - 1, 2: Dykes
21 - 1: Quartz? dyke
23 - 1, 2: Dykes
25 - 1: Dykes
   2: Travertine outcrops?
27 - 1: Large colour and vegetation anomaly
Run 7
Photo 27 - 2: Intersecting dykes associated with anticline
29 - 1: Colour anomalies
2: Lineaments, probably buried dykes
33 - 1, 2: Travertine outcrops?
35 - 1: Qtz? dyke

Run 8
Photo 24 - 1: Dyke?
90 - 1, 2, 3, 4, 5: Dykes
86 - 1: Strong colour and texture anomaly associated with fault
84 - 1: Colour anomaly along fracture
2: Dykes
82 - 1, 2, 3: Strong, large colour anomalies along fractures
80 - 1: Dykes
78 - 1: Long lineament = buried dyke
2: Dyke
3: Circular drainage trend
76 - 1, 2, 3: Possible travertine outcrops
74 - 1, 2, 3: Dykes
68 - 1: Dyke

Run 9
Photo 35 - 1: Intersecting dykes
37 - 1, 2: Dykes
47 - 1: Dykes
2: Intersecting dykes
3: Faulted dykes
49 - 1: Colour anomaly along fracture
2, 3, 4: Intersecting dykes
5: Qtz? dyke
51 - 1, 2: Possible travertine outcrops
53 - 1, 2, 3, 4: Possible travertine outcrops
5, 6: Lineaments, probably buried dykes
7, 8, 9: Dykes
59 - 1: Dyke
2, 3: Lineaments, probably buried dyke

Run 10
Photo 28 - 1, 2, 3: Dykes
26 - 1: Dyke
20 - 1: Intersecting dykes
18 - 1: Dyke
16 - 1 to 7: Dykes
14 - 1, 2, 3: Dykes
4: Intersecting dykes
12 - 1, 2: Dykes
Run 10

Photo 12 - 3: Intersecting dykes
  02 - 1: Dyke

Run 13

Photo 85 - 1: Colour anomalies associated with narrow fold
  2, 3: Colour anomalies associated with fractures
  87 - 1: Rounded hill, anomalous in colour and vegetation.

I = Important
II = Very important