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TitleWoodchester. Progress reports and final report to licence expiry/full surrender, for the period 3/5/1977 to

2/5/1978.

Topic Geoscientific Information

Type of Resource Document

Category Type Computation Theory And Mathematics; Earth

Sciences;Engineering;Environmental
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Management;Environmental Sciences;Exploration
Geochemistry;Geochemistry;Geology;Geomatic
Engineering;Historical Geology;Information And
Computing Sciences;Mineral Exploration;Mineral
Resource Geology;Mineral Resources (Excl. Energy
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Engineering;Petrology;Physical Geography;Policy And

Administration; Resource Geology; Resources

Engineering; Sedimentology; Soil Chemistry; Soil

Science;Stratigraphy

Document TypeMineral Exploration

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Contributor

Sponsor

Abstract

As part of a regional search for possible economic Mount Torrens - type stratiform base metal

occurrences within the Kanmantoo Trough, the soil surrounding all outcropping pyritic Cambrian metasediment units within the licence area was geochemically sampled (244 soil samples taken along 19 traverses spaced 500 m apart), and old mines in the area were inspected and 9 surface rock chip grab samples were collected. The results of the regional soil sampling programme were not encouraging. A weakly anomalous pyritic phyllite/siltstone unit, having a maximum assay value of 950 ppm Pb and median values >200 ppm Pb, plus non-coincident much lesser zinc and copper anomalies, was identified over a strike length of about 2 km in the north-western corner of the EL near Gemmells, 2 km west of the historic Wheal Ellen workings. However, a field inspection and further soil sampling done at this location failed to upgrade the peak lead value. Weakly elevated tungsten (to 120 ppm W) and tin (to 40 ppm Sn) were also recorded in two randomly selected soil samples. Because a similar low tenor of base metal enrichment can be expected in most pyritic units of the target Brukunga Formation, without being associated with economic occurrences of metal mineralisation, it was decided that more exploration was not warranted. A literature review showed that the ground in the vicinity of both the Wheal Ellen and Strathalbyn mines had been fairly thoroughly explored in the past, and thus there appeared to be little scope for discovering economic

orebody extensions in those places.

Publication Date 17/03/1978

Tenement EL 320

Tenement Holder CRA Exploration Pty Ltd

Operator

Geological Province Adelaide Geosyncline; Kanmantoo Trough

Status

Maintenance and Update Frequency

Geographic Reference GDA2020 (EPSG:7844)

Bounding Box Extent in GeoJSON {"type":"Polygon","coordinates":[[[138.5,-35.5],

 $[139.5, -35.5], [139.5, -35], [138.5, -35], [138.5, -35.5]]]\}$

Purpose

Lineage

Mine Name Strathalbyn mine; Wheal Ellen mine

Stratigraphy Kanmantoo Group

Commodity lead;precious metal;pyrite;silver

Notes Geographic Locality: Southern Mount Lofty

Ranges; Woodchester; Strathalbyn Doc No: Env 03052

Language English

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- Mineral Exploration

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