

The licence also similar rocks to those found at the old Brilliant - Golden Ridge gold prospects which lie within the metamorphic aureole of Mid Devonian granitoids (predominantly granodiorites to adamellites with minor diorites). Gold in these deposits appears to be related directly to these intrusives and is predominantly of a stockworked/disseminated style.

Hence there are two potential styles of gold deposit within the licence:-

- structurally controlled veins
- stockwork/disseminated gold in the contact metamorphic aureole of Devonian granitoids.

#### 4.0 EXPLORATION PHILOSOPHY

Resolute Samantha Limited's target is a 200,000 ounce plus shallow deposit amenable to open cut mining. Such a deposit could consist of gold in stockwork/disseminations in the thermal aureole of a Devonian granitoid or in sheeted veins/stockwork on or near major north to north-west trending structures. Dilational north to north-east trending structures may be significant in focusing mineralising fluids. It is considered that such a deposit should be found using a combination of enhanced and interpreted aeromagnetics and stream sediment geochemistry, with follow up rock and soil geochemical sampling in anomalous areas or catchments leading to the definition of drill targets.

A secondary target is high grade gold in mesothermal quartz reefs of which the 250,000 ounce New Golden Gate mine at Mathinna is the best example.

#### 5.0 PREVIOUS EXPLORATION

There have been essentially two phases of gold exploration in the licence.

The first phase was that conducted by 'old timer' prospectors late last century - early this century. Their exploration, utilising the techniques of panning, loaming and dollying led to the discovery within the licence of the Abbotsford Creek prospect near Mangana and Butcher's Prospect and possibly Wallis' Prospect on the east side of the Tyne River valley.

The licence would also have been prospected for tin using the same techniques. Given the amount of ground covered by these old timers it is reasonable to conclude that there is a very low probability of outcropping high grade reefs remaining undiscovered.

The second phase of exploration is the modern phase and consists essentially of the work conducted by Cominex (Nolan, 1990) on their EL 55/88 "Tower Hill" (which covered the area in the north of EL 27/94) and the four stream sediment BLEG samples taken by Newcrest (Pearson, 1993) as part of their exploration of an adjacent lease.

Prior to this work modern exploration had consisted of some mapping and minor base metal stream sediment sampling in the far west of the licence in the late 1960's by the Storeys Creek Tin Mining Company over their EL 11/67. Results from this work are not considered to be significant.