

# ARCHER, CATHRO

& ASSOCIATES (1981) LIMITED

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cc. J. Beck ✓  
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Date: April 17, 1984  
To: Bob Cathro  
From: C.A. Main  
Re: Evaluation of E & B Property, Quesnel Trough

I have reviewed the submittal from E & B Explorations Inc. (see attached covering letter from L.W. Saleken dated April 13, 1984). E & B is vending nine properties, including the Cariboo-Bell, which is undoubtedly too expensive for Rockridge to consider. The following comments on each of the properties are in the order they are presented in the data. The locations are shown on the attached map.

Notes on the introductory section of the data:

Figure 1 - Horsefly Mountain (our Equus-Gibbon property) is shown as a gold-copper porphyry.

Exploration Approach (p.5):

- (a) this agrees with our approach except that we are not considering silt geochemistry as an initial step. At the spacing proposed, none of our properties would have been found;
- (b) our priorities will be somewhat different from E & B in that we will start with ground surveys, principally soil geochem and mapping to outline priority areas; we will then select areas for ground geophysical surveys (IP and mag), trenching and subsequent rotary drilling; and, we would not use aero surveys except as a late-stage evaluation or to trace trends through deeper overburden or Tertiary cover.

(cont...)

1. Bassett Creek (Budget \$152,000) (all budgets quoted include 15% E & B management).

Regional soil samples at 100 to 300 m spacing returned some gold (to 105 ppb) and arsenic values (to 100 ppm) in Upper Triassic argillites and several anomalous gold (to 880 ppb) and arsenic values (to 57 ppm) in Upper Triassic augite porphyry breccia. A gold-copper showing in quartz veins (no details) occurs to the west in Jurassic-Triassic hornblende andesite with some propylitic alteration (epidote, pyrite and minor chalcopyrite). Threshold/anomalous values are considered to be 9/49 ppb Au and 30/100 ppm As.

Comments - both "Eureka-type" stratabound deposits in the Upper Triassic argillites and the "QR-type" deposits in the younger andesites are possible. The geological potential for either is moderately good but the data is very preliminary and much work is needed to bring this property to a drill target stage.

2. Boomerang (Budget \$57,000)

There has been some prospecting on an arsenic anomaly (values not given) from the government regional silt survey. The host rocks are in the Barkerville terrane east of the Quesnel Trough.

Comments - this is a very "grass roots" target.

3. Cariboo (Budget \$259,000 including first-stage drilling)

Grid soil sampling has produced a gold anomaly (+20 ppb) over a 3.5 km length and another smaller anomaly, a further 2.0 km along strike. The anomaly seems to follow the same volcanic/sedimentary contact that seems to localize the QR deposit, although the property is "largely drift covered" and the existence of this contact may be uncertain. There appears to be evidence for a pyrite-carbonate-sericite alteration zone associated with the gold anomaly.

Comments - this target has good geological potential. It would be worthwhile to know the soil sample spacing in order to check the continuity of the anomaly, and the actual amount of mapping from which the existence of the volcanic/sedimentary contact has been interpreted.

- the area is semi-remote and requires helicopter access and, later, road building. The property requires considerable geophysics before a drill target can be localized.
- the soil values are not particularly high. The samples over the QR deposit had many values over 100 ppb and +40 ppb occur randomly around the QR property and along the whole belt of augite andesites. The continuity and orientation of the anomaly may give it more validity.
- the property may be too expensive for Rockridge but the ground position relative to the QR deposit is excellent.

(cont...)

4. China Creek (Budget \$152,000)

Gold values up to 475 ppb in soil and 870 ppb in silt and undefined arsenic anomalies are associated with Jurassic-Triassic argillites adjacent to overlying andesites. Some exposures in these argillites are carbonatized and silicified and contain up to 7% sulphides. An arsenic-gold occurrence to the northwest of the property is probably on Rockridge's Equus property.

Comments - this property is at a very grass roots stage.  
- the higher reconnaissance geochem values are interesting but most of the values are only background (10 ppb). Rockridge holds the northwest extension of these sediments where they are intruded by the Horsefly Mountain volcanic centre.

5. Christmas (Budget \$135,000)

A small unmapped Jurassic diorite stock intrudes Jurassic sediments and andesitic tuffs and flows which are analagous to the favourable Jurassic rocks in the Horsefly-Likely area. Areas of carbonate alteration with pyrite have been noted. Grid soil sampling returned values of up to 1480 ppb Au and chip sampling of pyritic hornfels assayed up to 6.3 g/t (0.18 oz/ton) Au.

Comments - this is probably the old "Canim Lake" showing drilled by Orbex JV (Peter Fox) about 1974. The geological setting is good but it would be preferable (from a QR model aspect) if mineralization was in the calcareous volcanics. This is a reasonably good target. If magnetic and IP results support the geochem anomalies or if mineralized propylitic volcanics could be found, it would be a good drill target. The property does not currently show on any compilation maps of the Horsefly area.

6. Kangaroo (Budget \$232,000)

A reconnaissance roadcut soil sampling program discovered a number of areas anomalous in Au (+50 ppb). Most of the claims are anomalous in arsenic (+50ppm). The main anomalies overlie Upper Triassic volcanics and sediments analagous to the Eureka area to the south. One anomaly at the south end is related to a zone of quartz-carbonate alteration in Jurassic-Triassic rocks.

Comments - the prospect is still rather "grass roots". The geochem anomaly has good apparent continuity although the sample spacing is unknown. The magnitude of the anomalies is unknown but the majority of values are less than 50 ppb, which is rather low.

7. Tindall (Budget \$172,000)

The property covers the southern extension of the Jurassic porphyritic augite andesite/tuff, argillite contact that extends from the QR deposit in the north through Shiko Lake, Kwun Lake and Lemon Lake. There is no known mineralization on this property although the geology and continuation of the magnetic pattern would indicate that it has potential.

(cont...)

Comments - staking of this area was considered by Archer, Cathro but was rejected due to the absence of known mineralization or alkalic volcanic centres.

8. Toehold (Budget \$195,000)

Altered Jurassic volcanics with quartz-carbonate alteration are exposed in roadcuts in an area with little exposure. These volcanics contain anomalous amounts of gold and arsenic (no values are given). Some widespread geochemical sampling gave values up to 17 ppb Au and 54 ppm Mo. A very limited IP survey indicated zones of high chargeability (no values given). The zone appears to extend to the NW where it would pass to the west of the ACBC property.

Comments - the data is inconclusive and while the geological possibilities for a Cariboo-Bell, a QR or an epithermal vein system are all quite good, there is no exploration target outlined as yet.

In order of preference and ignoring cost, I would rate the properties in this order:

1. Cariboo
2. Christmas
3. Kangaroo
4. Toehold
5. Bassett Creek
6. China Creek
7. Tindall
8. Boomerang

However, the properties are all at a very preliminary stage (except for Christmas) and quite similar to the type of land holdings Rockridge already holds in the camp. Therefore, no action is recommended.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

  
C.A. Main

/mc

cc: R.R. Brown  
J.S. Brock ✓

