

PROPERTY NAME: Astro

NTS: 82E/5

OWNER: QPX Minerals Inc.
500-164 Water St.
Vancouver, B.C.
phone: 669-2251
(under option from PetroCanada)

LAT: 49° 22'
LONG: 119° 46'

CLAIMS: Astro 1, 33, 34, 48-52, 54-56, Akira I, PDL, Ford 1-2 (120+ units)

LOCATION AND ACCESS: The Astro property is located about 15 kilometres southwest of Penticton, to the north of Yellow Lake. Access to the property is via the Green Mountain or the Sheep Creek roads, both of which head west from Highway 3A near Yellow Lake.

SUMMARY OF FIELD VISIT: The Astro claims are underlain predominantly by Tertiary volcanics of the Marron Formation. In the western portion of the property the volcanics are underlain by polymictic pebble conglomerates of the Springbrook Formation. The Triassic or older basement cherts and greenstones of the Old Tom and Shoemaker Formations unconformably underlie the Tertiary Springbrook Formation.

In the late 1970's the area was explored by PetroCanada for uranium. More recently QPX Minerals examined the claims for epithermal precious metal mineralization. Exploration included geochemistry, geophysics and minor drilling over a small portion of the claims.

The area underlain by the Astro claims was tested by the Discovery Heavy Mineral Sampling Program, as shown on the attached figure. Drainages on the north, south and east side of the property were not anomalous, however a very strong multielement (Au, As, Cu, Pb, Zn, Hg, Sb) anomaly occurred from one drainage on the west side of the property. The plotted location of the samples suggested that

the anomaly was derived from the Tertiary volcanics or sediments. A traverse was made down this creek, which in the upper stretches is a very steep gully/talus slope. The basal Tertiary contact was seen in outcrop, with lahars or volcanic conglomerates resting directly on shattered, rusty cherts of the Shoemaker Formation. Alteration of the basement rocks stops abruptly at the contact, implying that mineralization is pre-Tertiary. One heavy mineral sample site was seen in the field, and was located well below the Tertiary contact, confirming that mineralization is sourced in the basement rocks and is pre-Tertiary in age. Several showings within the basement cherts are known to occur nearby which could explain the anomaly. These showings consist of poddy skarn zones and narrow arsenopyrite stringers which contain highly anomalous gold values but are not a good exploration target because of their very limited extent. A major pre-Tertiary fault is also present but it is not known to be mineralized.

Elsewhere on the property, a narrow structurally controlled silicified and argillically altered zone occurs within the Marron volcanics. Gold values to 1350 ppb occur in outcrop at this location. The system has been only minimally explored and is probably the best known target on the claims. Outcrop is limited and overburden may be too deep to allow trenching of the system. Geophysics (mag and VLF/EM) has been very effective in tracing the structures but coverage was limited to a very short strike length. The system is open both along strike and at depth.

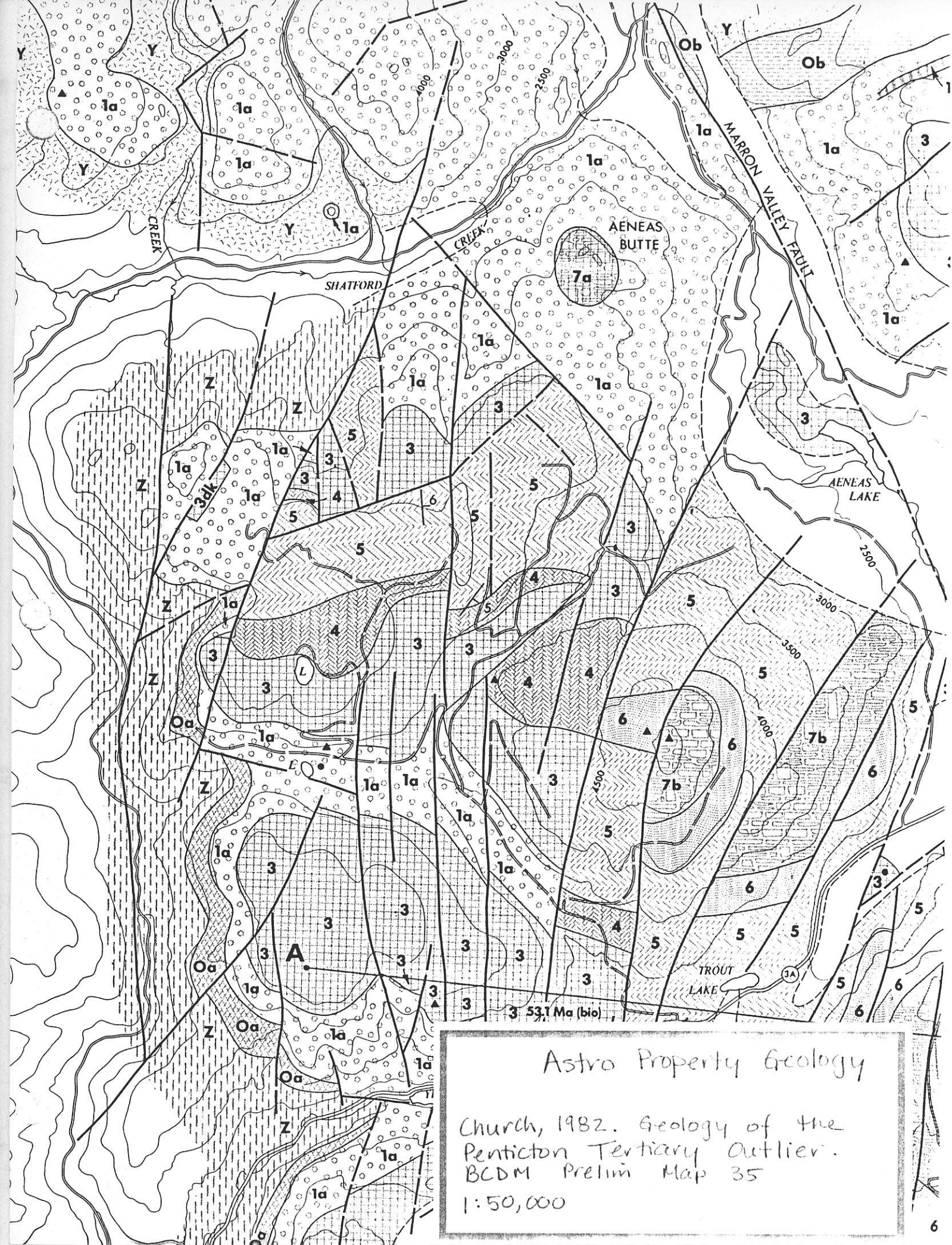
RECOMMENDATIONS: The Astro 34 epithermal system is considered to be the best exploration target on the property. Anomalous gold values occur in surface exposures of the system and very little exploration has been done. QPX Minerals has plans to continue exploration however they have no exploration funds at present and may have difficulty in acquiring any. Unfortunately, the option arrangement between PetroCanada and QPX does not stipulate a yearly work commitment or cash payment, but rather a net expenditure by

1993. As a result, the property can remain inactive for some time before coming available. QPX may be interested in optioning or joint venturing the property simply to see exploration continue. Contact could be made with the owners to propose such an arrangement however because of the early stage of the property, only a soft deal should be considered at this time. Initial testing of the system would be relatively straightforward (probably geophysics followed by diamond drilling).

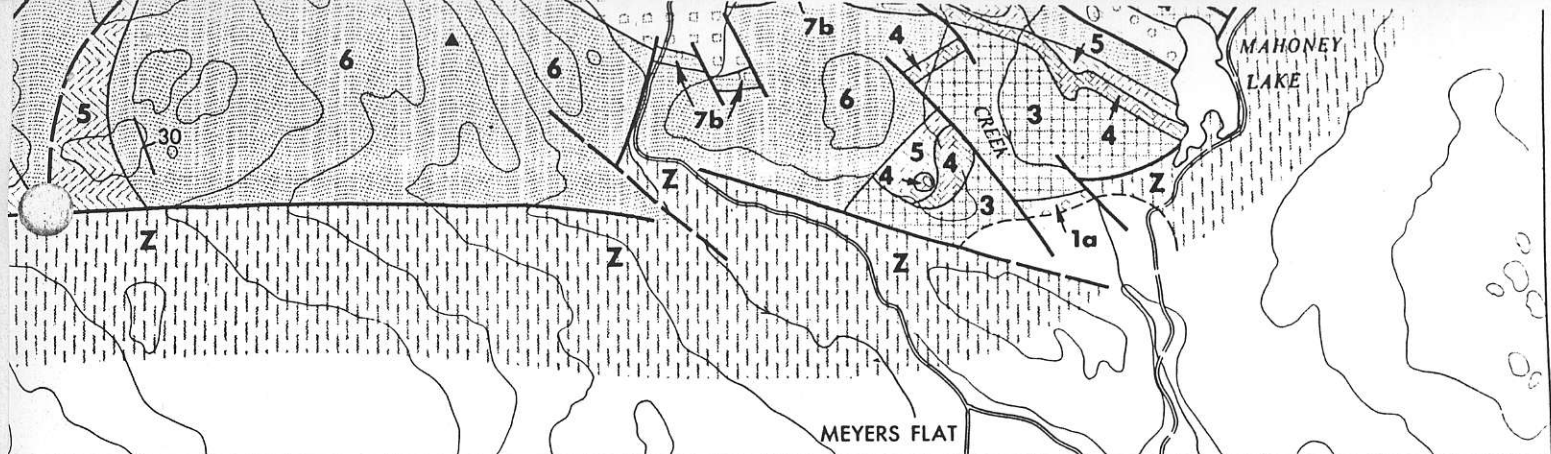
KL

L. Lee

November, 1989



Astro Property Geology
 Church, 1982. Geology of the
 Penticton Tertiary Outlier.
 BCDM Prelim Map 35
 1:50,000



MAY 1982
 REVISED PRELIMINARY MAP 35
GEOLOGY OF THE PENTICTON TERTIARY OUTLIER
 BY B. N. CHURCH

LEGEND

MIOCENE

(OLALLA RHYOLITE)

11 MOSTLY RHYOLITE BRECCIA, SOME MASSIVE OBSIDIAN, AND ASSOCIATED DYKES

EOCENE

PENTICTON GROUP

SKAHA FORMATION

10a MOSTLY CHERT AND GREENSTONE SLIDE BRECCIA AND SOME TEPHRITE LAVA OVERLAIN BY POLYMICHTIC FAN-GLOMERATE

10b CHANNEL DEPOSIT OF GRANITE BOULDER CONGLOMERATE AND BRECCIA AND ARKOSIC SANDSTONES

WHITE LAKE FORMATION

9 MOSTLY VOLCANIC BRECCIAS INCLUDING PYROCLASTIC ROCKS AND LAHARS, MINOR TRACHYTIC AND ANDESITIC LAVAS

8 VOLCANIC CONGLOMERATE, SANDSTONES, AND SHALES

MARAMA FORMATION

7a AENEAS BUTTE FELDSPATHIC DACITE

7b MASSIVE APHANITIC DACITE LAVA AND SOME BRECCIA FORMING MOSTLY REMNANTS OF VOLCANIC DOMES

7c VOLCANIC CONGLOMERATE WITH CLASTS FROM THE MARRON FORMATION

MARRON FORMATION

6 PARK RILL MEMBER: MEROCRYSTALLINE ANDESITE LAVA AND MINOR BRECCIA

5 NIMPIT LAKE MEMBER: TAN TRACHYTE AND TRACHY-ANDESITE LAVA AND MINOR BRECCIA

4 KEARNS CREEK MEMBER: VESICULAR PYROXENE-RICH BASALTIC ANDESITE LAVA

EOCENE (CONTINUED)

MARRON FORMATION (CONTINUED)

3 KITLEY LAKE MEMBER: TRACHYANDESITE LAVA WITH CONSPICUOUS GLOMEROPHENOCRYSTIC CLOTS OF FELDSPAR

2 SHATFORD CREEK MEMBER: LOCAL DEPOSIT OF BROWN ANDESITE LAVA AND BRECCIA WITH SOME QUARTZ-FILLED AMYGDALES

YELLOW LAKE MEMBER:

1a MOSTLY PYROXENE-RICH MAFIC PHONOLITE LAVA WITH LOCAL WELL-DEVELOPED PHENOCRYSTS OF RHOMB-ANORTHOCLASE AND SOME PRIMARY ANALCITE, ABUNDANT ZEOLITE FILLINGS IN CRACKS AND AMYGDALES

1b PURPLE AND GREY VOLCANIC WACKE FROM EROSION OF 1a AND PINK RADIOACTIVE FELDSPATHIC TRACHYTIC ASH FLOW, SANDSTONE, AND CONGLOMERATE

1c CLARK CREEK PORPHYRY: A SILL-LIKE BODY RELATED TO 1a WITH LARGE FELDSPAR PHENOCRYSTS

SPRINGBROOK FORMATION

0a POLYMICHTIC CONGLOMERATE AND BRECCIA WITH CLASTS DERIVED MAINLY FROM PRE-TERTIARY BEDDED ROCKS

KETTLE RIVER FORMATION

0b MAINLY GRANITE BOULDER CONGLOMERATES, ARKOSE, VOLCANIC WACKE, AND RHYOLITE BRECCIA

0c SHINGLE CREEK PORPHYRY: A COARSE SANIDINE QUARTZ PORPHYRY INTRUSION FEEDER TO THE RHYOLITE VOLCANIC ROCKS OF 0b

PRE-TERTIARY ROCKS

Y MAINLY GRANITIC INTRUSIONS

Z MAINLY CHERTS, GREENSTONES, SCHISTOSE ROCKS, AND MINOR INTRUSIONS

SYMBOLS

| | | |
|--------------------------------------------|-------|-----------|
| DRIFT-COVERED AREA | ..... |  |
| GEOLOGICAL BOUNDARY: APPROXIMATE | ..... |  |
| BEDDING: HORIZONTAL, INCLINED | ..... |  |
| FAULT: APPROXIMATE, ASSUMED | ..... |  |
| TOPOGRAPHICAL CONTOUR (INTERVAL, 500 FEET) | ..... |  |
| STRUCTURE SECTION | ..... |  |
| STREAM | ..... |  |
| MAIN ROAD | ..... |  |
| CHEMICAL ANALYSIS STATION | ..... |  |
| K/Ar SPECIMEN LOCALITY | ..... |  |
| DYKE | ..... | dk |
| DIAMOND DRILL HOLE | ..... |  |
| LAKE | ..... |  |