

HISTORY EXPL + DEV

013156

ELIZABETH GROUP / YALAKOM GP

R. Galen

Crown granted claims

1940 - showings discovered and the Elizabeth 1-4 claims (Lots 7400-7403) were staked

1941 - Bralorne Mines Ltd optioned the claims and staked adjacent ground to a total of 53 claims, including the Churn 1-4 (Lots 7404-7407), Yalakom 1-8 (Lots 7408-11; 7416-19), and Plateau 1-8. Work done consisted of 5 ddh (760' total) and 1750' of stripping on four veins

1946 →

1947 - An adit was started on the Churn No 1 and was driven nearly due west toward the Elizabeth #1 claim to test the downward extension of the Elizabeth veins 750' below the outcrop of the No. 1 or "High Grade" vein. Elevation of the camp is 6550 feet, the portal is 6640'. The crosscut was advanced to 1250' by the end of 1947

1948 - The main crosscut was extended 954' - to a total length of 2204'. Qtz veins intersected:

"B" vein intersected at 1,611' from the portal

"C" vein intersected at 2103' from the portal

• on the "B" vein 146' was driven to the north and 132' to the south

• on the "C" vein 544' was driven to the north and 460' to the south

A total of 871 feet of drilling was completed

1949

(RMM 49)

A raise was driven from a pt in the "B" vein drift ~ 60' south of the main crosscut - the raise was driven to a point 271 feet above the level - here the vein is 4' wide, but little Au. A raise was driven up 76 feet from a point in the drift on "C" vein ~ 100 feet N of the main crosscut, - no encouraging results.

P146 - Examination by JW McCammon (August 1946)

RMM

• 2 main rock types

- ① quartz diorite forms a mass approx $\frac{1}{2}$ mile long and $\frac{1}{4}$ mile wide on the south slope of a steep ridge, the rock is slightly porphyritic, - qtz - grey feldspar - \pm bio + hbl

- exposures of granitic rock of similar mineral composition but variable texture within 100 yds of the main mass are prob part of the diorite - (more like diorite than qtz diorite) (poss. small unroofed areas of the main mass or offshoots)

- ② serpentinite containing green xls of bastite (serp derived from opx.) - serpsid hornblende

• about $\frac{1}{2}$ mile along the ridge to the west of the main qtz diorite there occurs a prominent rusty-coloured reef, - contains carbonate, feldspar, serpentinite and qtz \rightarrow poss. a contact phase between qtz diorite and serpsid hornblende rock

4 main qtz veins are exposed by open cuts and trenching

#1 Vein (high grade) - occurs highest on the hill, \sim 600' long east-west, considerable visible native gold, sulphides scarce, ribboned veins, wall rock alteration is slight, thickness a few inches to 46 inches at the SW end orientation: 020° to 040° / vertical, vein is only within qtz diorite

#2 Vein - 250' lower down slope from #1 \sim 210' - two exposures separated by \sim 110' heavy talus. No sulphides, ribboned qtz - fractured - slightly rusty, wall rock alteration is slight, thickness averages 24" orientation: 008° / 68° W to 038° / 70° NW, vein in diorite

#3 Vein - exposed on small bench below the #2 Vein, ~100' long
Very little sulphides (metallies), qtz is fractured but not
as ribbed as #1 or #2, thickness 37 to 42"
orientation $070^\circ / 79 S$. Vein is in fractured qtz dics (seems to
be in situ)

#4 Vein - exposed in a dry wash ~700' west of #3 vein, much
cross-faulting but not much shearing parallel to the vein
Little metallic min, thickness 25" at lower part of the
exposure to 3" wide at the highest part.
orientation $150^\circ / 65^\circ NE$. Vein is in quartz diorite

Numerous small veinlets and aplite dikes occur in assn with
veins #1, 2, 4, they strike at a large angle ($\sim 90^\circ$) to the main vein

Sampling by McCammon: samples taken of each vein were
found to be barren of gold, except near the NE end of
the exposure of the No. 1 vein (Gold 0.08 oz/t; silver nil)
(\rightarrow VG seen in this vein)

1949 cont'd On the Yalatom #2 claim (7409), workings exposed a vein orientation: strike N / 70 W, 2-3' wide (thick) - 200' long - known as the #9 vein

1951
(RMM) The drift on the No. 9 vein was extended 338' to a total length of 363'

1952
(RMM) The drift on the No. 9 vein was extended 450' to a total length of 807' - occasional assays were large, although vein widths were too narrow to constitute ore. Surface trending exposed this vein in two cuts, 400' and 600' north of and below the portal

0.51 oz/t: 20' x 2' }
0.45 oz/t: 65' x 2.5' }

The 'B' south drift, off the main crosscut was extended 86 feet to a total length of 180 feet - vein had good width but low gold content
An exploratory ddh from the west end of the main crosscut was extended 271' to a length of 594'

1953 The company gave up the option in 1953 and subsequently abandoned the adjacent claims it owned.

Owners: TW Illidge, EU White

Under the supervision of TW Illidge (part-owner)

1956

Rmm

A crosscut adit collared on the Elizabeth claim at 7230' was driven 466' @ 110° to explore two quartz veins exposed on surface. Both veins, the Main Vein (#2 vein) and the West Vein (#1 vein), were intersected by the crosscut at 110' and 455' from the collar respectively. Also 24' dia on West Vein.

1957

Rmm

The West Vein was followed an additional 320' under the supervision of TW Illidge. A geological study of surface + underground was carried out under the direction of R. Thompson.

1958

Rmm

9 tons of ore was shipped to the smelter at Trail
- The ore was from the upper workings
- from this, 5 oz Au, 5 oz Ag, 53 lbs Pb, 18 lbs Zn was recovered.

1978

JK Newton acquired the Yalatom 1-3 reverted Crown grants for Southern Lights Resources Ltd. The Blue claim (20 units) was staked adjacent.

1982

The #9 vein adit was partially re-opened and sampled.

1983

An option to earn a 40% interest was given to Cal-Denver Res. Ltd.

MS HEDLEY Report Aug 22/1941
(Bralorne Gold Mine)

1934 Venus first staked. No work done at this time

1940 Venus "re-discovered" by Wm. White and Thomas Illidge and staked two claims (prob 7400 and 7401).

1941 Illidge returned in 1941 and staked 2 more claims (prob 7402 and 7403) } total (4) claims

in the area: Ben Cromer of Lisa Lake staked (3) claims

Sid Wilson (8) claims

John Soppit (8) claims

Bralorne official (8) claims

(Bralorne Au have acquired by option the original holdings + staked an additional 130-140 claims)

By August 20th systematic stripping of the Venus was started - Illidge in charge for Bralorne Mines

Sparse mineralization in crystalline, & in part vuggy, quartz
includes: py, apy, gal, sph, cpy, tetr, ferriferous, Au.

(Leach 1953)

Intro

Expl. + Dev History

Geological Setting

Mineralization: - Metal Distr., vein size, orientation, alteration

The Cordilleran Region of Western Canada, by A.H. Long CIM (1948)

a) Gold Quartz Veins - An. free, visible, commonly as tellurides, w. sulphides

b) Relation to Regional Pre-Mineral Faults and Shear Zones - Zone of faulting or shearing has led to the assumption that these zones acted as frank channels for the passage of mineralizing fluids, possibly also zones of weakness for the emplacement of intrusive apophyses from which these fluids emanated

Bralorne and Pioneer Mines - Related to Cadwallader "breach"

c) Relation to Minor Fractures, Faults, Shear Zones, Etc.

Bralorne and Pioneer Mines - Veins in reverse faults and tension structures

d) Relation to Favourable and Unfavourable Rocks

- attributed to their physical qualities, either because they: became fractured or sheared more readily than adjacent rocks so that veins were concentrated in them, or because they permitted the fm of large fissures, whereas in unfav. rocks there were many small fissures - striae or stringers.

Bralorne + Pioneer Mines - Favourable rocks are
diabase and massive greenstone

Unfav. rocks are schistose gneiss, serpentinite and fissile argillite

e) Relation to Dykes and Sills

Bralorne + Pioneer Mines - Many veins are parallel to albite dykes

f) Relation to Structural Barriers

At some mines, relatively impervious strata may have acted as barriers that impeded mineralizing fluids sufficiently to cause them to deposit metals beneath or against these shields

Bralorne + Pioneer - Impounding of mineralizing fluids believed to have been caused by serpentine and gneiss

↳ An near Serp. boundaries
Kedley 1941 Paper

Joubin CIM (1948) p 168

Probable Structural Controls to gold distribution

- a) Serpentine contact - "damming" or "capping" effect by impervious and incompetent Serpentine
→ favoured envts for bonanza pockets
- b) Contacts between rocks of different competency - where vein structure passes from a competent to a less competent rock - vein structures persist but ore (metals) is limited to the more competent side of the contact
- c) Branching or intersecting structures

1958 - ore shipped to Trail

1959 - 1978 ?

1978 - Property acquired for Southern Lights Res. Ltd and the Blue claim (20 units) was stacked adjacent.

An option to earn a 40% interest was given to Cal-Denver Res Ltd.

The # 9 vein drift adit was re-habilitated by Southern Lights Res. Ltd and sampled: This sampling suggests 3 mineralized "shoots"

1983

Sources

N. Mini Handbook

1986-87

Geo Cross #158 (1984)

Aug 16/84

Zone #	Length	Au oz/t (uncut)	Pickens, (diluted)
1	160'	1.294	1.40'
2	50'	0.741	2.03'
3	35'	0.601	1.43'

Reserves on these blocks are considered to be 4,248 tons, averaging 1.199 oz/t Au

Zone	Distance from Portal	Length ft.	Pickens ft.	Grade / Pickens oz/ton ft.
1	105 - 265	160	0.89	1.294 / 1.403
2	365 - 415	50	1.53	1.741 / 2.030
3	600 - 635	35	0.93	0.601 / 1.430

Zone 1: Largest conc's 46.70 oz/ton Au, 4.752, 3.144, 2.122, and 2.055 oz/ton Au
Zone 2: Largest conc's 15.48, 4.624 oz/ton Au
further milling

1987

Southern Lights Resources Ltd has been re-named
Balsam Resources Inc. March 1987

Geo Cross }
April 16 }
(#75)

April

Drilling planned to evaluate the extent to which
the gold-bearing quartz veins continue down ^{along} dip

September

A total of 1968' was drilled in four holes
In all, 4 holes were drilled with a total of 1968
feet of core. The best assay results are
0.144, 0.122 and 0.104 oz/ton Au. Assays
throughout the length of the holes are consistent
with gold concentrations encountered, found, present,
in the north-most part of the old workings,
and establish that gold concentrations are present
to at least 460' below the elevation of the adit
(mine level).

Check sampling of ^{parts} portions of zones 1 and 2
(as delineated in 1983) in 1987 yielded up to
4.242 oz/ton Au. Recent dump sampling
yielded up to 0.715 oz/ton

A full-scale underground program is expected
to commence in mid-September 1987

Vancouver
Stockwatch
Sept 9/87

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- ✓ (1956) Patterson
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Do not put
in ref list!

National Mineral Inventory
920/2 - AUZ

✓ Hedley (1941)

✓ Leech (1948) - Map

✓ McCammon (1946b) - Maps

Maps ✓ Bralorne Mines (1953) - maps

✓ Thompson (1957a) - maps

✓ Thompson (1957b) - map

✓ Culbert + Leighton (1986)

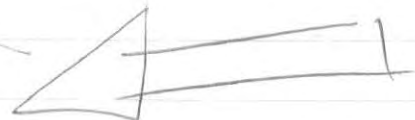
Table ✓ Geo Cross (1984) - zones + Au assays
drilling results

~~Wan state (1987) - info only~~

Table ✓ Van state (1987a)

Wan state (1987b) - ~~info only?~~

DC Fed Min Card?



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