Correspondence/Notes

881404 BRETT (MI - 82L/SW/110) July 27/87
Sunny 28°C

- visit with Rick Meyers
PERSONELL: Warner Gruenwald (Huntington, consultant)
+ Ron Wells (Lacana)

ACCESS: By paved road to Whiteman Ck.
+ then gravel logging road another 19 km.
- total driving distance from Vernon ~55 km.

NTS: 82L/4E

MI - 82L/SW/110 549-5700

HISTORY: Placer Au on Whiteman Ck. since turn of century.
1939 - 2 narrow Au/Ag-bearing qtz. veins in intrusive + intermittently explored into 1970's

1983 - heavy mineral sampling of stream seds. led to staking of Brett prop. → Huntington Res (from Charlie Brett).
1984 - expl'n. over "GOSSAN ZONE" - Qtz Bx in high level 'epithermal' system (+ As/Hg).
- discovery of new Au/Ag qtz. vein in tuffs to west of original showings.
1985 - rd. access cuts revealed new qtz. veins.
"DISCOVERY ZONE" { - disc. of another new epithermal Au/Ag vein (RW)
- disc. of new MAIN SHEAR ZONE
- disc. of new TRENCH 1 ZONE

1986: 795 m (2600 ft.) of ddh on Discovery Zone (12 on RW/Main Shear zones; 4 on Trench 1 zone)
- both structures test over length of 100m+ and depth of 60 m.
- further trenching + rd. bldg. tripled strike length of zones to 350 m (1150 ft.) + still open, plus vertical range to at least 90m (300 ft.)

1987: Lacana optioned ground + conducts ~15000' of drilling on 'GOSSAN ZONE' + Main Zone.

(OVER)

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GEOLOGY (see sketch maps)

1. Granitic rocks: Jurassic or Cretaceous age
   - east of Gossan Zone (sliver of volcs. between them)

2. Volcanic rocks: Tertiary age
   > 500 m thick, relatively flat-lying.
   - series of interbedded basaltic and andesitic flows and pyroclastic rocks (tuffaceous). - At least 4 distinct pyroclastic horizons ranging from 3 m (10 ft.) to 25 m (80 ft) in thickness.
   - rx. vary from very crse. through to finer grained distinctly bedded variations.
   Note: sig. Au values near structures in "leakage of Au" → pyroclastics (i.e. good receptive host rx.)

3. N-NW trending fsp. por. dykes assoc. with Discovery and Gossan Zones considered related to syenetic intrusion to east + south of property.
   - dykes assoc. with shear zones
   - although post-date min.; close assoc. with min. zones is sig. (also - disseminated amethyst grains)

4. 'Plateau-type' basaltic flows + tuffs of Kamloops Gp. (Miocene Age) overlie in northern part of prop.

STRUCTURE: - Gravity faulting (i.e. hangingwall mineralized)
- Qtz fissure, shear zones.

MINERALIZATION: Epithermal (à la Blackdome), without the brecciation.

Types: 1) 2 qtz. veins hosted by granitic rx. (east) (<0.5 m) with low Au/Ag values.
2) Epithermal - Gossan + Discovery Zones hosted by Tertiary volc. rx. Structures strike N-NW + dip steeply to west. Assoc. N-NW trending fsp. por. dykes (post-min.).

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BRETT

(2)

A) GOSSAN ZONE – NW of original (1939) vein occurrences + NE of Discovery Zone
- "geological anomaly" – 350 m (1150 ft) in length x up to 50 m (165 ft) wide
- yellow to rusty, brecciated, silic. + pyritized volcs.
- inferred to lie along a fault contact.
- sporadic Au + Ag values in soils + rocks; also anomalous As + Hg values.

B) DISCOVERY ZONE – series of N-NW trending Au/Ag shear + vein zones in Tertiary volcs.
- 300 m (1000 ft.) E-W by at least 350 m (1150 ft.) N-S and open to N + S.
→ incl. RW vein, Main Shear Zone, Trench 1 + Qtz. Stockwk Zone.

Mineralogy: - visible gold (dissem. + fracture fillings), electrum, argentite, pyrite assoc. with limonitic fractures + cavities.

RW Vein: 0.3 m (1 ft.) wide qtz. vein
(1.4 m [4.6 ft] of vein + mineralized wallrock gave 1.84 oz Au + 3.2 oz Ag; Ag/Au = 1.43 to 1.68)
- total sulphides – very low.
→ 'splay' off Main Shear Zone to the south

Main Shear Zone: Ranges from 2 to 15 m (6'-49') wide along strike length for 350 m (1150')
- contacts with host rx. – commonly sharp, dip steeply west + sometimes display shearing
- Altn. = bleaching, limonitic, propylitization (chl., ep, carbonate ± pyrite) + silicific altn.
- pre-existing mineralized veins shattered by renewed shear
- host rx. adj. to Main Shear Zone – often mineralized (esp. andesitic + pyroclastic rx. (tuffs) eg. up to .29 oz Au)
- majority of Au found in -325 mesh fraction (i.e. fn. dissem.)

New Zone (180 m [600'] S-SE of RW Vein): 4.2 m (13.8') wide zone containing 2.4 m (7.9') assaying 2.052 Au + 1.8 Ag
- V.G. + electrum in an intricate "lacework" throughout finely shattered qtz. – very distinctive!

intestices of qtz grains (matrix)

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Trench 1 Zone: (130m [425'] E of RW vein)
= en echelon feature
- highly silic. + pyritized bx. along eastern contact of fsp. por. dyke
- widths range from 1 to 2 m (3'-6') + strike is nearly 100 m (330').
- .9m assayed .098 Au + .42 Ag.
- contains more pyrite.

GEOCHEMISTRY: Au/Ag + also As in soils.

REFERENCES:

① BCDM Prelim. Map. No. 37 - Terrace Mtn. Outlier (Church) (1980) - poor geology on property
② Jones, A.G. (1957) - GSC Mem. 296 - Vernon
③ Gruenwald, W. (1984) - BCMEMPR - A.R.
④ " (1985) - "
⑤ " (1986) - "

COMMENTS (TGS): - Could be significant new epithermal deposit with characteristics similar to Blackdome (i.e. mineralogy + style)
- 1987 drilling will answer questions.

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