115 O ? LONE STAR

History:
Staked 1899, little done till 1909, co. formed, stamp mill erected & operated 1912, 13, 14. Amalgamation yielded $24,977 from 8435 tons, Au @ 20.67 ∴ Ave 0.143 oz/ton or $5.00/ton at present price.
one shipment reported 1680 lb concts to Selby gave net $2,079.
Idle to winter 1946-47 Y.C.G.C. 200' Xcuts. 8 dozer trenches & 6 churn drill holes (at recc. of J.H. Farrell who examined it in 1935)

Geology
Eln 3250'
KD. sch chl, serie, qtz minor FS, cut by tert. stocks & dikes.
@ Lone Star sch. Strike N30°W (distorted)/40-60 SW
Many small flts. mostly (a) NW-SE & (b) N-S — appear to be "normal", few "to few" offset.
1. Abund qtz, large pts pegmatitic qtz barren. → whitech qtz.
2. numerous seams, veinlets lenses qtz // to sch. with pyrite along edges — barren
3. qtz veins fraction inch to 2' ⊥ to schistosity. Str. N 20-30 W, dip 25-35 NE.
lenticular, do not persist far on strike or dip but not crumpled or distorted like qtz veinlets // to foliation of schists.
Fe oxides (py) visible Au in these at times seen
patches or rosettes of py & gn Au apparently assoc with these S= & not uniformly diss in qtz itself.

Dev. & Sampling
Ore from open cut 350' long 25' wide, 20' deep., younger qtz not recognized, tested the schist.
— Farrell believed stockwork younger os ∴ YCGC Xcut 196' long across zone below open cut — very discouraging.
— 8 dozer trenches full width sampled across schist.
values only where younger qtz veins cut schists
40' or max apart, sch betw ~~nearly~~ virtually barren
— 6 churn drill holes 3 holes @ 200' intervals on each of 2 lines 400' apart.
compromised # of sch & of younger qtz (if drilled to intersect os at rt ∠s would drill // to foliation of sch. \ uniformly poor results = underground.
— DD would give poor core recovery, esp 1st 100'
core ∴ poor & ~~would~~ would have to assay sludge ∴ churn drill best because larger sludge.
DHs showed younger qtz as widely spaced vertically as horizontally.

Mill tests
Mill said to recover nearly $3.00/ton when sampling showed $1.00
(check mill test of DH sludge checked with sampling)
→ due to residual surface enrichment
? Tertiary — rapid erosion & rain fall. (Now slow erosion, light rainfall. conc of Au)
1912 — $3.79/ton } suggests enrichment.
Ave $2.96
∴ 2/3 of total $2.60/tm.
Sampling in early days did not recognize younger qtz ∴ highs? cut too severely.

Source of Placer Au

Eldorado & Bonanza richest = $65,000,000, 3,250,000 oz
dist shows must have been shed by divide betw 2 creeks.
Schists incompetent, plastic, no long continuous fractures for Au° depn
∴ large No of small veins than long distances laterally & vertically
& no persistence
Several 1000' erosion in Tertiary & Quat.
1 mi square, 1000' deep 2b tons
only 650 mi tons would account for the $65,m at only 10¢/ton.
reasonable that All Au could have come from vs like Lone Star
& not necess. to assume existence of large veins.

CONCLUSIONS YCGC sampling ∠ $1.00/ton.
Nearly all Au in small flat younger qtz vs, must find these closely
enough spaced to make mine.
If Ave 6" wide & 1 oz/ton, would have to be spaced @ 2½' intervals
throughout to make Ave 0.2 oz/ton or $7.00
Y.C.G.C. work well done & ample to prove that vs spaced ≥ 40' apart
— both laterally & vertically. No evidence of area of close spacing

Ridge prospected diligently by prospectors for >50 yrs., only small
veins found.
∴ tend to verify result of pure geologic conclusions.

Slater

Mitchell Group betw Hunters & Gold Bottom Elev 4000' 3 mi by Rd.
Rotten pcg. qtz nearby, generally true throughout KD. — chl schist
Younger qtz vs. Dip 60°-70° Shaft sunk for 60'
1" on surface, proceed to ¼" at bott. shaft
py & gn with Au
Free Au° occurs with sulfides. (fairly coarse), little in the qtz itself
too widely spaced ∴ no good.

Oct 14/47
Slater.

LONE STAR

Rept by J.H. Tonrell:

Min zone 200' wide, pretty > $400/ton @ $35 oz/oz.

Str N 30W/25 E

- earlier qtz - py min in sch < 35$/ton.
- later qtz $100 - 200/ton enriched sch locally to make low grade ore. Such veins easily lost in overburden, most prospecting done on large barren peg. qtz. os - (prom. float)

Northern light & Power Co.

Annual pptn 10.75" unctarm

Sch N 30 (20-45°) W / 40-60 SW

2ndary line of cleavage trends Northerly N - N 30 W / 20-40 E.

Hy porph - ½ mi to S.

- over main ridge S of Victoria G. 50' wide 65/70 NE

GSC compiled peg qtz os in early days ∴ led to belief that Au in sch not supported by test of Au in placers or obs of details of ore occurrence as far as they are known at present.

most of white channel qtz (- oldest peg os qtz, FS, occ small Hbc. "Bull qtz" prominent ∴ object of most prospecting with discouragement.
- ½"-2" stringers qtz + py in sch 35$/ton

- Au° qtz 1-4" thick @ Lone Star.

N 20-30 W / 25° or less E.

Black stains near surface (Mn oxides), free Au in pan

occ gn & sp along with pyrite.

Au° isolated as with S=

most of work done in past on pegmatitic qtz veins

old 30 ton mill

Suffic to encourage further surface prosp.

8,435 tons mined, $24,977.55 1912-14, 75% recovery.

∴ gross value $4.00 /ton, or 0.2 oz. ($7.00 present price) a little less than $3.00

1680 lb S= → Selby $2,078.71

Evidence of large body of low grade ore here? No est. of tonnage

Eld & Bonanza prior to 1907 > $65 m Au ⅔ of prod of dist to that date.

Gay & Victoria gulches important producers.

Lone Star appears to be extreme southern end of source of Au.

only slight prospecting aside from Lone Star.

3/4 mile tramway.

Recc 1, more thorough prosp by trenches along cont. of min zone

2. general exam of ridge betw Bonanza & Eldorado.

Oct 21/35

Finenesses of Gold

Gay Gulch 773.5 –
779 –
782 –

Eldorado
711 – 760 Ave ~ 735
(770 max.)
in fine Au.
750

Stookum G. 653.5
Adams Ck. 612.5, 633.75
Other hills on Bonanza 780 – 800
Bonanza above disc 780 – 824, mainly 810-820
increasing fineness upward
Ave Bonanza 810
Victoria G. 810.5 (1960) 815.75

? this indicates zoning E to W ?