

Nature of Mineral occurrences in Quiet Lake map-area

by A.E. Aho

x Minor occurrence

(x) Prospect

- x 1. "Vein" with pyrite, minor galena, reported 2-3 ft. wide.
- x 2. Quartz vein with minor sphalerite and galena
(27% Pb, 25.3oz. Ag, Tr-Au from galena)
- x 3. Area of quartz float with galena (several tons of float--but material with galena 45.5% Pb, 22.92 oz. Ag). Numerous small occurrences of galena and tetrahedrite float, low Ag.
- (x) 4. Galena (massive) up to 3.2 feet wide (50 oz. Ag, 70% Pb) in vein striking N 12-20°E dipping 85-90 NW in dolomite. No sphalerite, traces of pyrite and tetrahedrite. (Tetrahedrite in quartz vein nearby 4.5 oz. Ag). Galena vein traced 150 ft., pinches out gradually to N and rapidly to S. No mineralization in drill holes 25 ft. below showing. Exposed in 3 trenches. Several tons of massive galena uncovered.
- x 5. Massive galena float up to 8 inches across, perhaps 100 lbs. total (62.9% Pb, 31.92 oz. Ag, 0.04 oz. Au.)
- x 6. Lenses or pods of pyrite with galena up to 3 feet wide, several feet long exposed for 100 feet along quartz vein zone. Better mineralization assayed 7.9% Pb, 5.44 oz. Ag, Tr-Au. As I recall, the vein strikes NNW and dips steeply, cutting dolomite.
- x 7. Wide zone of arsenopyrite with traces of galena exposed irregularly for over 100 feet, perhaps as much as 200 ft. Strike largely covered with overburden, may be several tens of feet wide. Minor galena-bearing pods gave 3.2% Pb, 9.94 oz. Ag, 0.09 oz. Au.
- x 8. "Zone or large boulder nearby in place containing pyrite with scattered galena in creek". Also magnetite, chalcopyrite, much siderite reported nearby.
- x 9. Galena-sphalerite stringers in dolomite in small shear or breccia zones, also coarse-grained quartz-galena vein 8 inches wide with few inches of galena in altered intrusive.

Vein in dolomite (av. of picked sample) 24.4% Pb, 4.5 oz. Ag, Tr Au
" " intrusive (massive galena) 81.4% Pb, 10.8 oz. Ag, 0.01 oz. Au
- x 10. Three small occurrences of galena float in limestone
Average to low Ag content, as I recall.

- (x) 11. Large amounts of siderite float with a smaller amount (several 10's of tons) which contain specks or blobs of galena, the better parts of which average 12.8% Pb, 9.4 oz. Ag, 0.02 oz. Au. Considerable prospect pitting done but nothing found in places probably talus or slide material resting in valley bottom. One piece of tetrahedrite float found with high Ag content.
Considerable pyrite and pyrrhotite, minor chalcopyrite associated with siderite in Lower Cambrian limestone.
- (x) 12. Irregular replacement and breccia filling of pyrrhotite, pyrite and galena, at upper contact of Lower Cambrian limestone. Two sampled exposures 6.3 ft. and 13.3 feet in two trenches. Av. 11.4% Pb, 7.9 oz. Ag, 0.03 oz. Au. May be related to NW cross fault.
- x 13. Stringer and breccia zones of siderite with galena in Lower Cambrian limestone
North showing 39.1% Pb, 28.0 oz. Ag, 0.02 oz. Au.
South showing 33.8% Pb, 42.9 oz. Ag, 0.04 oz. Au.
- x 14. Breccia zone 60 feet or more wide mineralized in Lower Cambrian limestone with pyrite, siderite, minor scattered galena.
14.6% Pb, 9.9 oz. Ag, 0.02 oz. Au.
Some massive galena float 100 ft. to SE, also barren arsenopyrite.
- (x) 15. Vein 12 to 14 inches wide of siderite and quartz with boulangerite or jamesonite, some galena, and sphalerite traced 300 feet vertically, 300 feet horizontally, up dolomite cirque headwall and down into talus
20-inch channel sample and 2 grab samples averaged.
11.4% Pb, 10.3 oz. Ag, 8.4 % or less Zn, 0.02 oz. Au.
- x 17. Few inches of galena in 3-foot wide quartz vein - N 70 E at top of dolomite, overlain by shale, vein exposed for 50 ft.
Galena 68.0% Pb, 47.8 oz. Ag 3-inch quartz vein on footwall with tetrahedrite gave 131 oz. Ag and 1.4% Cu.
- x 18. Galena in brecciated dolomite, best specimens gave 26.6% Pb, 30.4 oz. Ag.
- x 20. Minor replacement of Zn and Pb with barite in limestone beds (Zn & Pb both trace). Two localities.
- (x) 21. Massive pyrrhotite with galena up to 9 feet wide 70-80 feet long in rusty silicified breccia zone in limestone.
Av. approx. 12% Pb, 10.5 oz. Ag, 0.1% Cu, 0.02 oz. Au. Some massive blobs of chalcopyrite in quartz nearby -- 6 oz. Ag. Massive pyrite showing to north 0.6 oz. Ag, trace Au.
- x 22. Float of galena in quartz.
31.9% Pb, 24.4 oz. Ag, trace Au.

- x 23. Galena float
- x 24. Galena with jamesonite haloes in quartz.

Showings 12, 14 and 21 are very similar

Locality	Ag Pb ratios	Gangue
11	0.73	siderite-pyrite
12	0.69	pyrrhotite-pyrite
Float section 12 & 13	0.76	pyrrhotite-siderite
13N	0.72	siderite-pyrite
13S	1.26	" "
2" veinlet 1/2 mi. E of 13	0.92	pyrrhotite-siderite
14	{0.63	pyrite
	{0.68	siderite-pyrite
massive galena (14)	0.75	-----
15	0.90	siderite-quartz & boulangierite
17	0.70	quartz
18	1.14	siderite
19	1.22	-----
16	0.60	pyrite
21	0.85	pyrrhotite
Float 'Sylvias' Pks 4 mi. S of 15	0.41	pyrrhotite (?)
22	0.87	quartz(?)
	0.76	?