CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

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Some Mining districts in NE Cal. & NW Nev.

S Mitill USGS Bull. 594, 1915

23 Late Tert. VDs - Gandmeville, Aurora & parts of Pearmine & Silver Star districts.

Early Tert - Red Canyon, Wellington, Battle Mt., Buckskin, Reese River, Washington, Kingston, Granite, Pine grove, Hawthorne, Sta. Fe & parts of Silver Star & Pearmine districts.

24. Late Tert Dips - 2 distinct yet overlapping Types

(1) Aurora & veins near Silver star in Silver Star district Simple veins with many offshoots into the highly altered CR. Gauge - very fg white qtz with adularia, a 2nd gen feldsp. ± calcite. Qtz has replaced calcite ±. Platy qtz. Except for the veins near Aurora the veins carry almost no sulfs - alt wall rock pyritized. Au free very fine. Aurora Au free, tetrahedrite, some py & cpy. Se. Gold bullion very high in As - only 58 fine Ag.

Ore in these qtz - adularia veins in shoots.

(2) East of Pearmine dist (Wedekind dist), Gandmeville & a few of the deposits at E end of Silver Star dist. No replacement of cal by qtz. Ore along zones of intense HT alt - rock soft, light-colored due to intense sericitization of feldsp & FMs. Py abundantly disseminated in these bodies of alt rock - also in stringers with pbs, zns, - cutting the mass in all directions. Au free, grade goes down with depth Little devel. however.

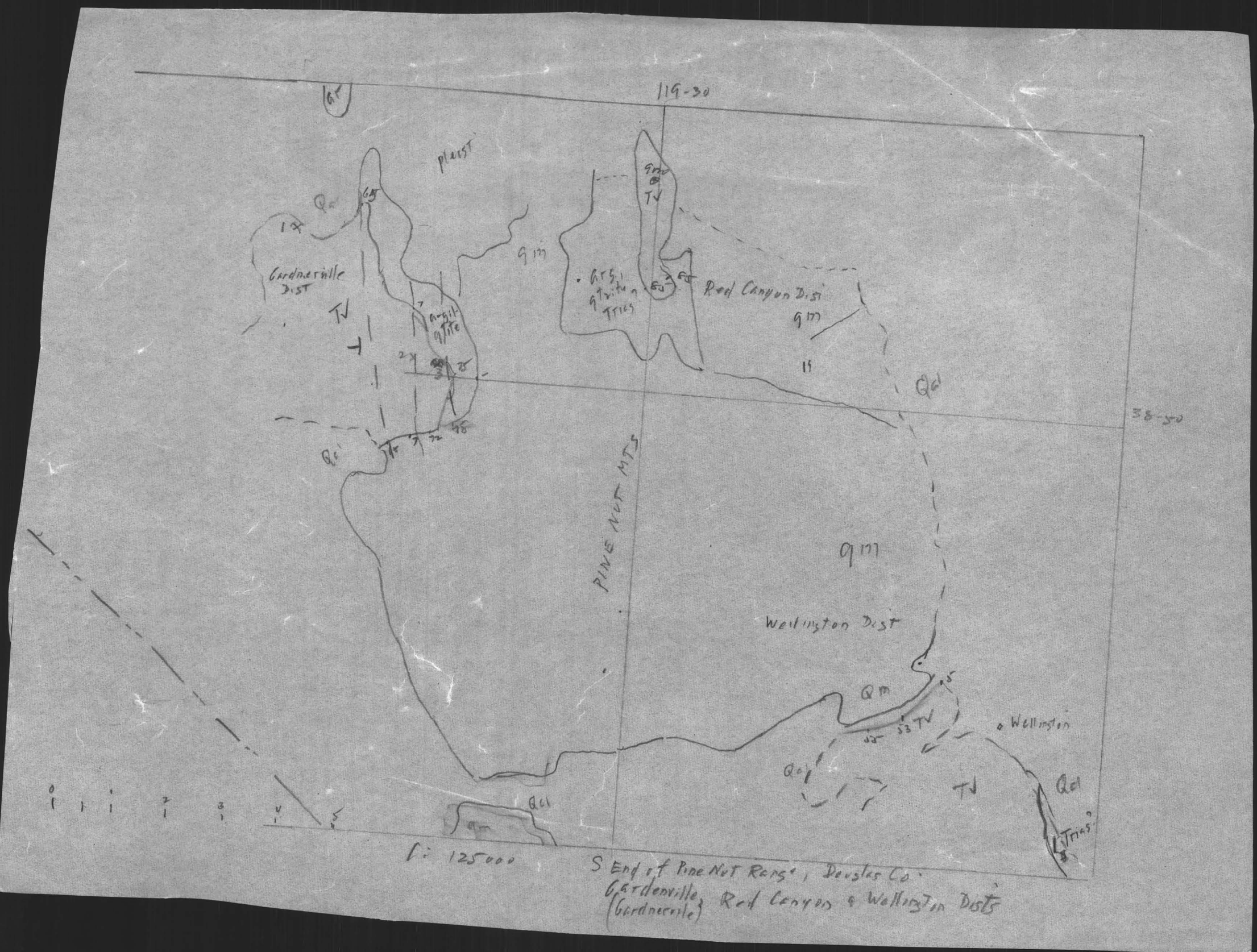
51 S End Pine Nut Mts. - Gardnerville, Red Canyon & Wellington Dists

53. Gardnerville Prod.

Tons	Au	Ag oz	Cu
407	$3430	1785	3900#

58. Main Tert. volc f.g. nearly black porph. andes
Andesine, augite, brobble mag.
Above this, 200' andesite flow breccias & cgls, dip west gently

62. UDs in supposed Tert. andesites (Trias?)
Ruby Hill Mine (#3) Older fractures N25E 45NW in zone 100-150' wide. Many small closely-spaced slips; andesite crushed & altered in this zone.
Later vert N fracture cuts off zone to W.
In the fractured alt. andesite near the N fault - small
63 lenses of oxid. Cu ores along small N vert slips
Largest OB 15-20' in X Sec. & 4-5' thick - ∥ to flat-dipping NNE set of slips Cu Carbs in crushed andesite Cuprite CCpy remnants
Ore showing Sulf. $6 Au 11 oz Ag
Alteration = Sericite & cal. Dissem py. Siliceous rubs along N fracture - from andesite
Pine Nut Consol. Claims (N01) CR augite andesite N 90° dip fractures; another set N35E, 80SE.
Ore = frags alt. rock with some qtz & cal. Au - Py -



S End of Pine Nut Range, Douglas Co.
Gardnerville, Red Canyon & Wellington Dists
(Gardnerville)