

SHEET 2 OF 3: Copper, lead, and zinc in stream-sediment samples,
De Long Mountains A-2 and B-2 quadrangles, Alaska

On this map (sheet 2), many samples are close to areas with known lead-zinc-silver deposits such as Red Dog (Tailleur, 1970) or the Walk ("Lix") deposit (Wall Street Journal, 1977). These samples are usually relatively enriched in lead and zinc, and, close to the deposits, are above average in copper abundance also. The host rock to the known deposits is Mississippian to Pennsylvanian carbonaceous shale and chert. The three groups of very large anomalies are located close to the Red Dog, Lix, and "Hot Dog" prospects, where sulfides are visible at the surface.

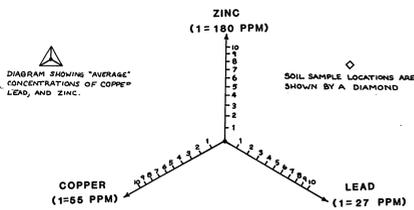
Another trend of stream-sediment samples with anomalous concentrations of copper and zinc, rather than lead and zinc, extends southward from Chevron Hill (lat. 66° 25' N). These samples also are from streams draining Mississippian to Pennsylvanian black shale and chert.

REFERENCES

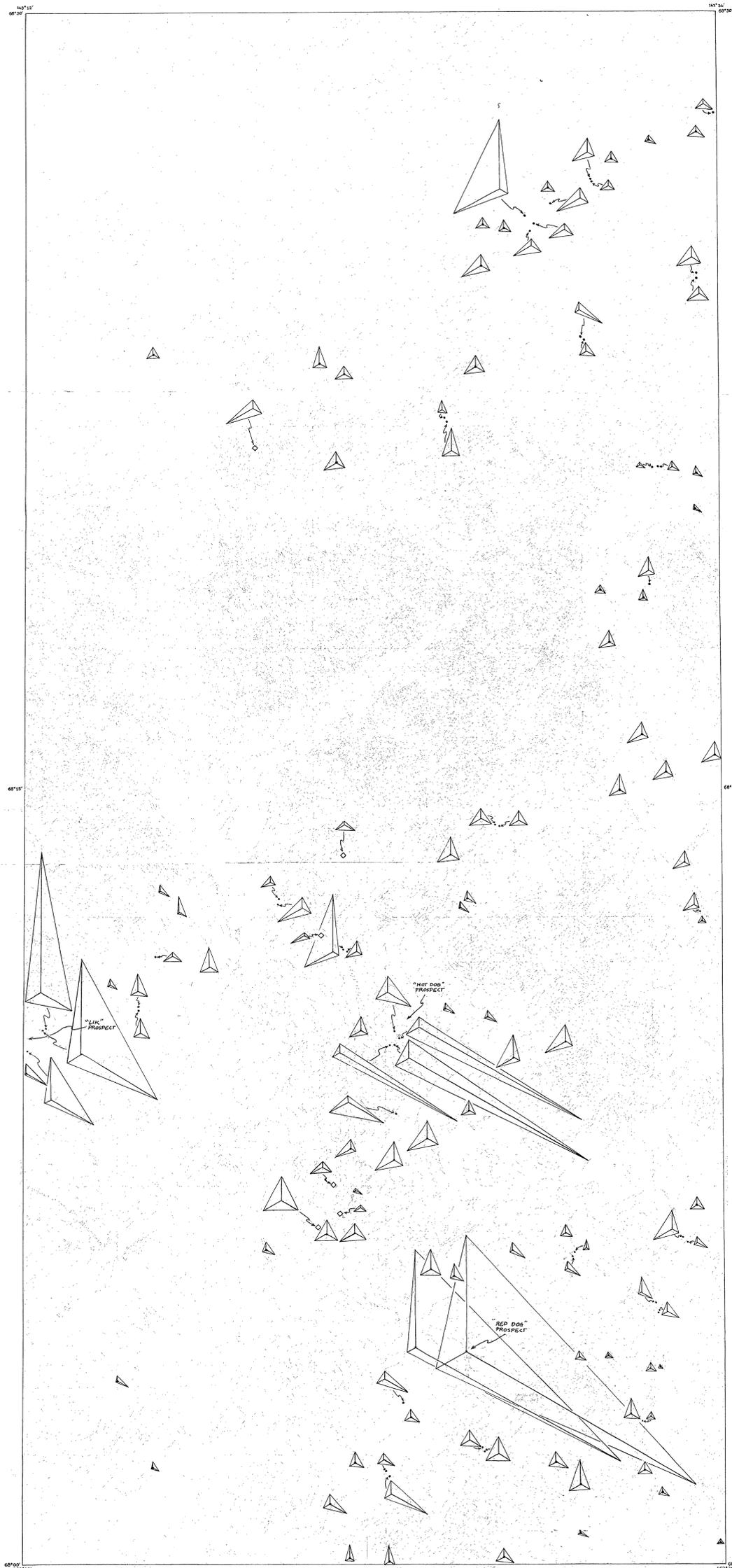
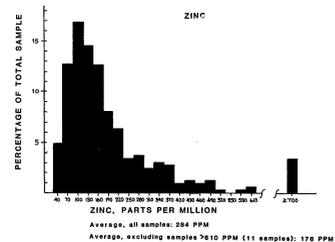
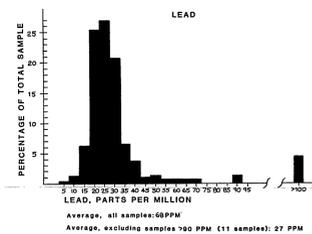
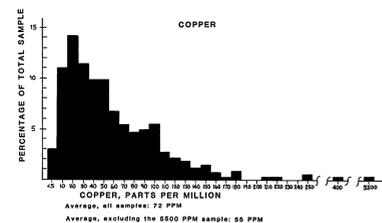
Tailleur, Irvin L., 1970, Lead-, zinc-, and barite-bearing samples from the western Brooks Range, Alaska: U. S. Geological Survey open-file report 445, 16p.

Wall Street Journal, 1977, Houston Oil, partner, has significant finds of minerals in Alaska: Sept. 13 (final *** eastern edition), p. 15.

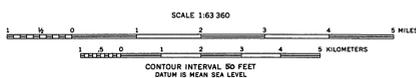
KEY TO ABUNDANCE DIAGRAMS



The length of the radial bars on element abundance diagrams is proportional to the logarithm of a multiple of the "average" value (excluding a few strongly anomalous samples) for each element. The higher the concentration, the longer the bar.



BASE BY U. S. GEOLOGICAL SURVEY, 1955
Composite of De Long Mountains A-2
and B-2 quadrangles



This report is preliminary and has
not been edited or reviewed for
conformity with Geological Survey
standards and nomenclature.

SHEET 2 OF 3: A-2 AND B-2 QUADRANGLES

COPPER, LEAD, AND ZINC IN STREAM-SEDIMENT SAMPLES
FROM THE DE LONG MOUNTAINS QUADRANGLE, ALASKA

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