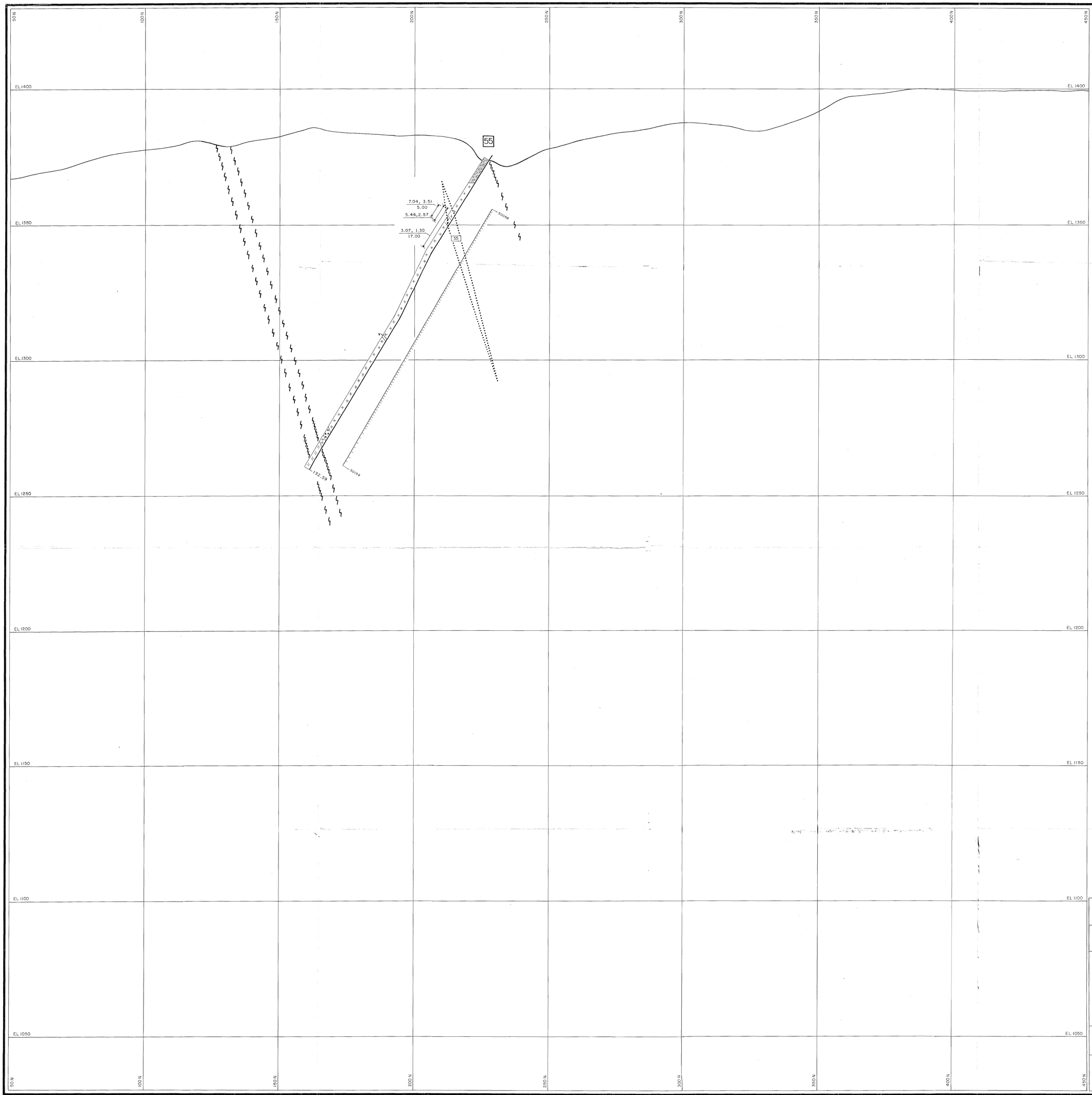

LITHOLOGY

OVERBURDEN

GRANODIORITE

- medium to coarse-grained, light gray, quartz-plagioclase-muscovite bearing equigranular to pegmatitic granodiorite.
- medium to coarse-grained, light grey, quartz-plagioclase-muscovite-sericite-clay bearing equigranular to pegmatitic granodiorite; moderate sericite-clay alteration; locally crosscut by quartz or quartz-sulfide veins; occasionally intensely silicified; may grade into breccia.
- light grey, quartz-sericite-clay bearing granodiorite; very strong, pervasive clay and sericite alteration.

FOLIATED GRANODIORITE

- moderately foliated medium-grained green-grey, muscovite-sericite-quartz-feldspar-chlorite bearing granodiorite; occasionally grades into a muscovite, quartz chlorite schist.

FELDSPAR-QUARTZ PORPHYRY

- feldspar-quartz porphyry; up to 25% feldspar-quartz phenocrysts set in a light green-grey aphanitic groundmass.

FELSITE DIKES

- fine-grained, medium grey-green, occasionally porphyritic, felsite dike; locally crosscut by quartz or quartz sulfide veinlets; may grade into breccia.
- pale green-grey, felsite dike with moderate to strong silicification and clay-sericite alteration.

SCHIST

- medium-grained, medium brown-grey, quartz-biotite-chlorite-muscovite schist; occurs as xenoliths within intrusive rocks.

BRECCIAS

- mainly sulfide bearing breccia; clay-sericite altered, angular to sub-angular granodiorite, felsite or sulfide clasts; quartz and/or sulfide cement; moderately silicified.
- diatreme (?) breccia; cream coloured, highly siliceous matrix, well rounded quartz, sulfide(sphalerite) or country rock clasts.

ANKERITE VEINS

- Cream coloured commonly sulfide bearing (sphalerite, pyrite, arsenopyrite, pyrrhotite, chalcopyrite, tetrahedrite), ankerite (and/or dolomite ?) veins; occasionally may contain minor quartz.

QUARTZ VEINS

- clear to medium grey, commonly sulfide bearing (sphalerite, pyrite, arsenopyrite, pyrrhotite, chalcopyrite, tetrahedrite), quartz veins.

SULFIDE VEINS

- >90% sulfides, veins and masses; primarily sphalerite with lesser pyrite, arsenopyrite, pyrrhotite, chalcopyrite and tetrahedrite.

SYMBOLS

- LITHOLOGICAL CONTACT — Known, Assumed
- FAULT — Known, Assumed
- PLOT OF DIAMOND DRILL HOLE — Hole Depth in Metres (100.0)
- SAMPLING — Showing Sample Interval and Number (50159, 50158)
- ASSAY AVERAGES — 5.00, 1.00 / 75.0 — % Zinc, oz/ton Silver / Interval in Metres
- 55 — MINERAL INVENTORY BLOCK WITH REFERENCE NUMBER

FAIRFIELD MINERALS LTD.
TOTAL ENERGOLD CORPORATION

LOGAN PROJECT

WATSON LAKE MINING DISTRICT, YUKON TERRITORY

MAIN ZONE

DIAMOND DRILL SECTION 630 E

DDH 87-L-55

LOOKING GRID WEST (234.41°)

Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

OCTOBER 1988

U20089

PLATE 45