

PROPERTY / PROJECT**AUTHOR**

Name: HEARNE HILL
NTS: 93M
Claims: Hearne 1, Hearne 2
Acreage: 750 Ha.
Commodities: Cu, Au, Ag.

Peter L. Ogryzlo

HISTORY:

Past Exploration Techniques	By Whom	Amount	Type
1967	Tro-Buttle, Texas Gulf		Geochemistry
	Tro-Buttle (Peter Bland)	100 meters	Bulldozer trenching
	Texas Gulf	12 holes 1942 meters	Diamond drilling
1989-1990	Noranda	11 holes 1324 meters	Diamond drilling
1991	Chapman	7 holes 1 hole assayed	Diamond drilling

GEOLOGY:

Regional: Tertiary (50 Ma) biotite feldspar porphyry plugs and stocks of the Babine Igneous Suite were emplaced along major faults in a transtensional continental magmatic arc. Two orebodies (Bell and Granisle) and numerous subeconomic deposits (Morrison and Hearne among others) occur as porphyry copper deposits temporally and spatially associated with the Babine Igneous Suite intrusions. The Babine Igneous suite is a high-K calc-alkaline suite, but has an alkaline trace element signature.

Local: The Hearne Hill deposit is exposed along the scarp of the Morrison fault. The Morrison fault is a major discontinuity separating older Hazelton Group marine volcanics in the uplands from younger Bowser Group sediments in the lowlands. Dikes of Eocene biotite feldspar porphyry (BFP) intrude Hazelton Group volcanics and sediments.

Alteration / Ore Forming Minerals

1. **Stockwork:** Chalcopyrite, pyrite, and molybdenite occur as fracture fillings, disseminations, and in stockwork quartz veins in Eocene biotite feldspar porphyry and in Hazelton volcanics. Host rocks exhibit hydrothermal biotite and quartz - sericite alteration.

2. **Collapse breccia:** Chalcopyrite, pyrite, and dolomite partially plug porosity between angular clasts in a collapse breccia.

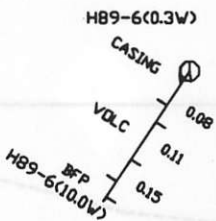
LEGEND

EDCENE: Babine Igneous Suite

- QBFP Biotite Feldspar Porphyry with intense sericite pyrite alteration. White, massive.
- Bx Collapse Breccia. Angular clasts cemented with chalcopryite, pyrite and dolomite.
- BBFP Biotite Feldspar Porphyry, biotite alteration.
- BFP Biotite Feldspar Porphyry, undivided.

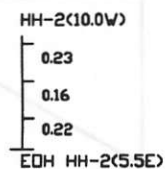
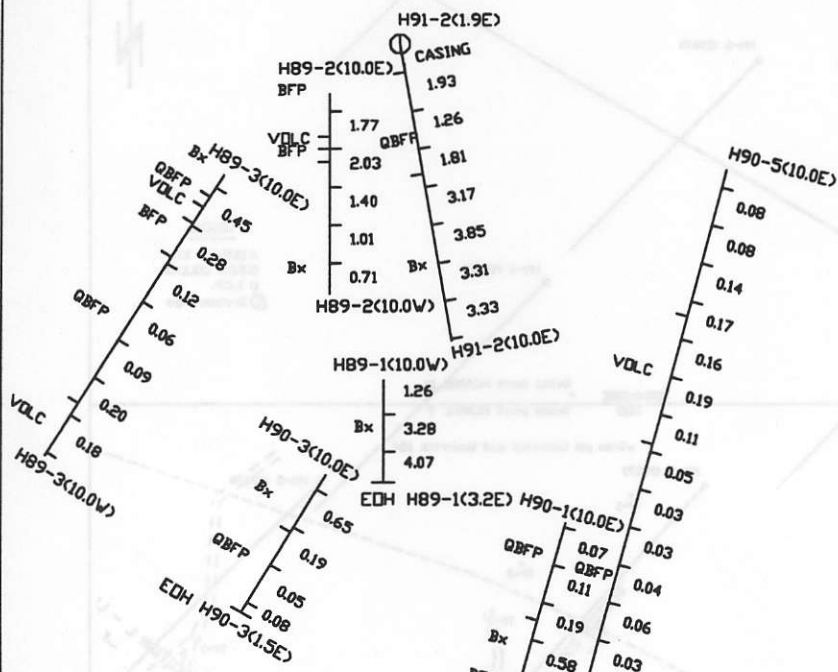
JURASSIC: Telkwa Formation, Kotsine Facies (Sinemurian)

- VLDC Marine volcanics, grey andesite, grey andesite breccia, lapilli tuff, buff felsic tuff, possibly some diorite.
- SEDS Greywacke, grit, siltstone, shale.



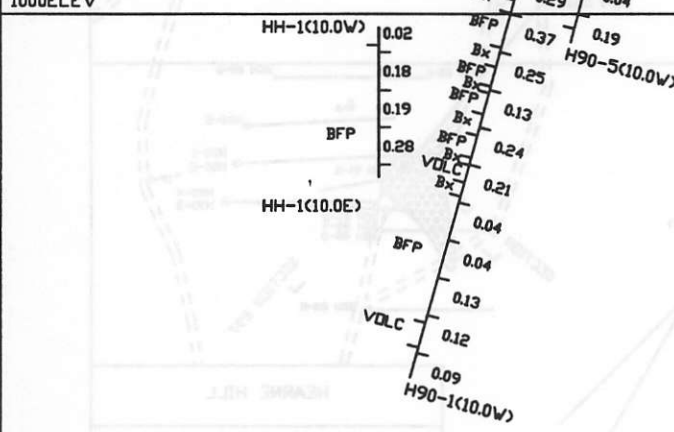
1100ELEV

1100ELEV



1000ELEV

1000ELEV



9000 M North

900ELEV

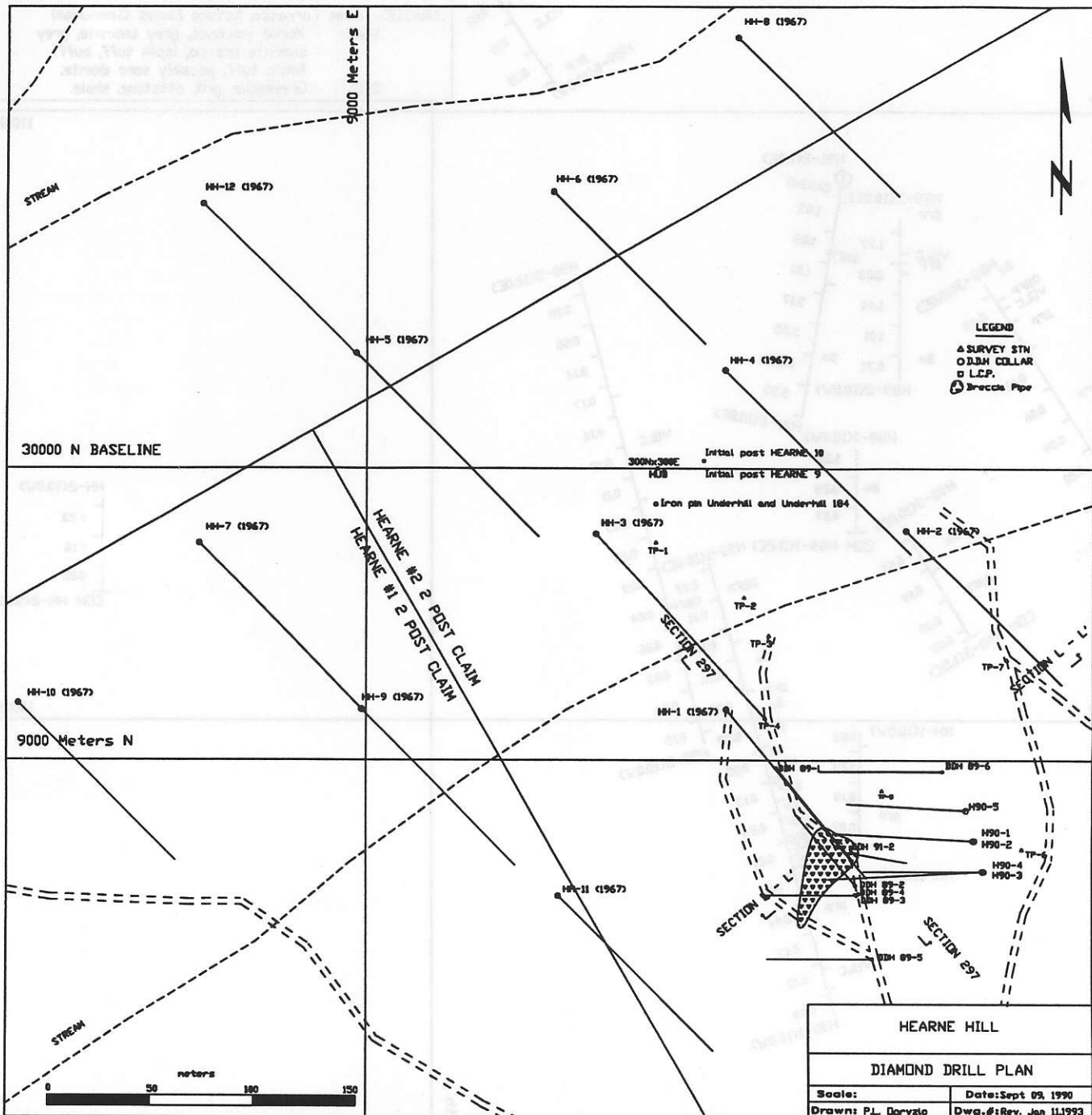
900ELEV

HEARNE HILL
 LONGITUDINAL SECTION L - L'
 SECTION LOOKING N 40 W
 COPPER COMPOSITES OVER 5 METERS

SCALE: 1:1000M
 13 JAN 1993

P.L. Dgryzto

Scale 1cm = 10m



HEARNE HILL	
DIAMOND DRILL PLAN	
Scale:	Date: Sept 09, 1990
Drawn: P.L. Doryzto	Dwg.#: Rev. Jan 11, 1993

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