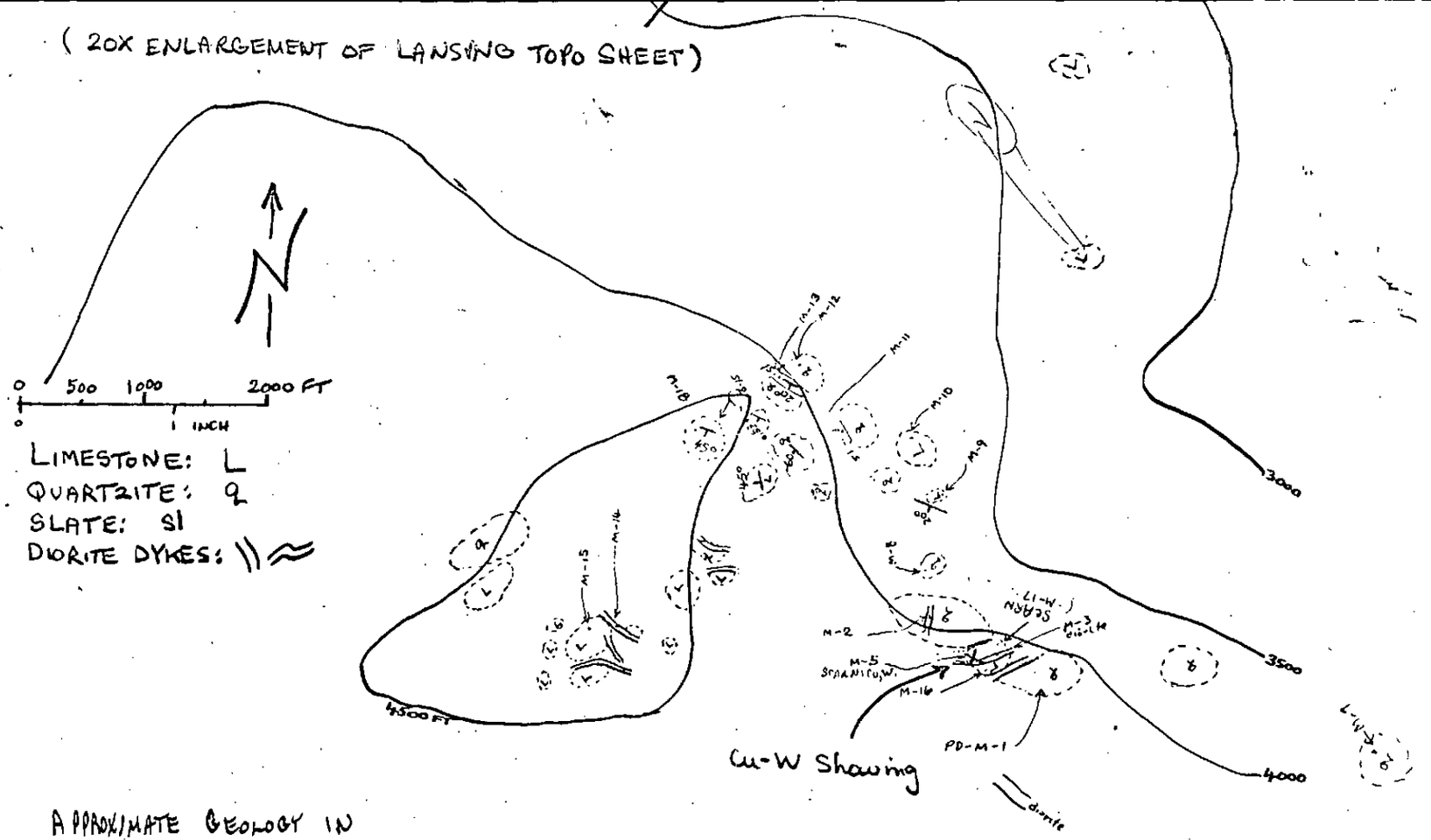
(20X ENLARGEMENT OF LANSING TOPO SHEET)



APPROXIMATE GEOLOGY IN VICINITY OF SCHEELITE-COPPER SHOWING ON "SHEEP PLATEAU" (63°18'N x 133°55'W)

P. DEAN 3 August 1968

105-N-5.

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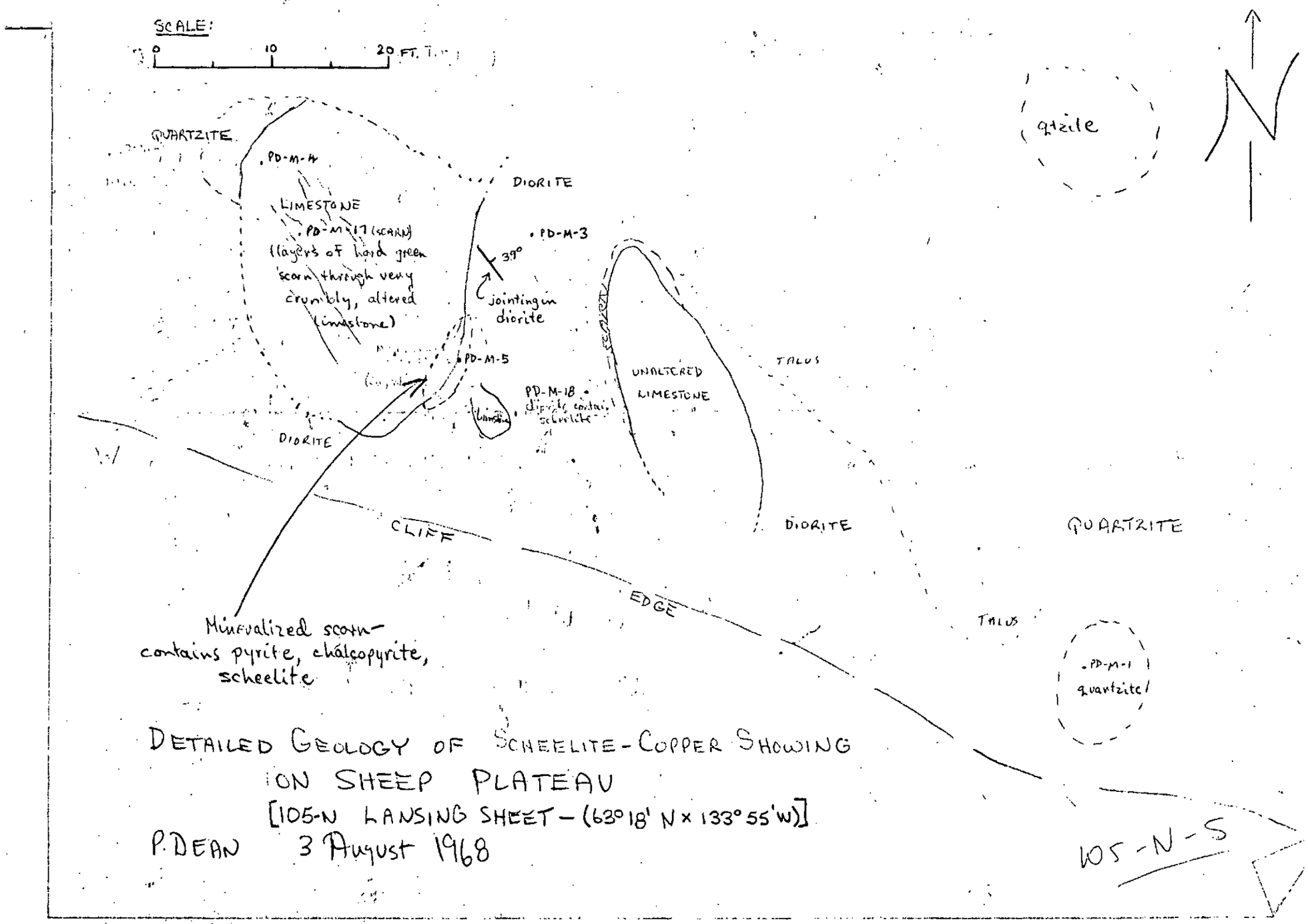

DETAILED GEOLOGY OF SCHEELITE-COPPER SHOWING ON SHEEP PLATEAU

[105-N LANSING SHEET – (63° 18' N × 133° 55' W)]

P. DEAN 3 August 1968

"SHEEP PLATEAU" – LANSING - 105M/5 (63°18'N x 133°55'W)

P. DEAN, M. LADUE 2 → 5 August 1968

Scheelite - copper Showing in Scarn:

This showing appears to be of very minor significance. The mineralization occurs in a 3 to 5 inch wide zone along the contact of a diorite dyke in limestone. The body of limestone is itself very small, outcropping for a distance of only 20 feet. It contains lenses of hard green scarn which contain an occasional speck of scheelite, but the zone of economic-grade mineralization is restricted to the immediate area of the contact, and in fact occurs at only one point on the contact. Diorite dykes varying from 1 to 5 ft in width cut the large limestone outcrop west of the showing in several places, but there is no scarn or mineralization of any sort along the contacts. The problem of why scarn & mineralization occurs at the showing locality and nowhere else may possibly be explained by the proximity of the "showing" to the quartzite - limestone contact. The diorite dyke may have left most of its mineralization at the point where it entered the limestone through the underlying quartzite. The vicinity of the quartzite - limestone contact was carefully prospected, but no other dykes or mineralization was found. The diorite itself was unmineralized, with the exception of a very small area near the showing. This small zone contained small amounts of chalcopyrite, pyrite, and scheelite.

All streams near the limestone outcrop –

OVER

were silt sampled.

There are at least two beds of limestone lower down in the sedimentary sequence, and it seems possible that they may have "filtered off" most of the mineralization from the diorite as the dykes intruded through them. At the limited points where they outcrop there is no mineralization, scarn, or diorite.