

P. M. Kavanagh

W. M. Sirola

RECENT STAKING - NAHANNI 1051 Y.T.

November 28, 1972

There appears to be something of a staking rush resulting from the staking this fall, by Canex, of 450 claims in the Summit Lake area at the head waters of the Pelly river.

The Canex claims are strung out in a north-westerly direction and more or less on the contact between Devonian-Mississippian black shales (unit 18B) with upper Cambrian and ?(Ordovician) sediments. This contact is probably an unconformity or a fault, but there is certainly an abrupt facies change between the two rock types. The mineralization is dominantly sphalerite with lesser galena which occurs in graptolitic shales. Normally, one would expect such a deposit to be syngenetic and strata-bound, but the staking pattern which is mostly no more than four claims wide suggests a north-westerly trending structural control. Such a control could be a fault or a sharp axial plane trending in that direction.

Unit 18B in which mineralization occurs is widespread in that part of the Yukon and is probably the same rock type which is host to the lead-zinc-silver mineralization on the Hudson Bay Mining Tom group.

We have given considerable thought to staking some ground this winter, but such a staking programme would involve staking structure which might of course be completely unmineralized and I would be reluctant to commit Kerr Addison to this type of effort. This is particularly true because we know so little about the occurrences at the present time. The papers mentioned a width of 150 feet but width is not necessarily thickness. Some of the grades (10% to 20%) combined Pb-Zn are impressive and this alone will probably occasion a great deal of blind staking in that area.

Rather than indulge in a wintertime staking programme I would prefer to joint venture with some other company such as Cyprus in an organized manner during the coming summer. My tendency would be to work along the east edge of the large basin, the axis of which is marked by the south Nahanni river. The east flank of the basin has been intruded by a series of cretaceous plutons following the 130° meridian from 62°45' north to 63°30' north. This is the region which the Hudson Bay and Mactung deposits occur and which is accessible from the Canol road. The Mactung deposit may well be one of the best tungsten deposits in the free world, and this fact alone might encourage the Federal Government to improve the Canol road.

A lead-zinc deposit in this area should be open-pittable and have a combined grade of 10% plus Pb-Zn. The high silver: lead ratios required for underground deposits would not be necessary in an open pit operation.

Some of the north-easterly lineaments which occur in the Vangorda area extend into the Nahanni sheet and these north-easterly faults off-set the earlier north-westerly fractures. Whether or not these have any control over deposits occurring within the Nahanni sheet is too early to say.

COPY

RECENT STAKING - HANANNI 1051 Y.T.

November 28, 1972

The pattern we would follow in our work next summer could be affected by extensive staking this winter, but there should be enough room in this part of the Yukon to permit carrying out any project planned at the present time. Cyprus is still interested in a joint venture and we consider this preferable to the usual four company syndicate such as proposed by Archer and Cathro.

WMS/ah

W. M. Sirola



CLAIM BLOCKS PROPOSED

ALBANY UNIT 18b and 7b

GEOLOGICAL CONTACT

SCALE 1" = 4 miles

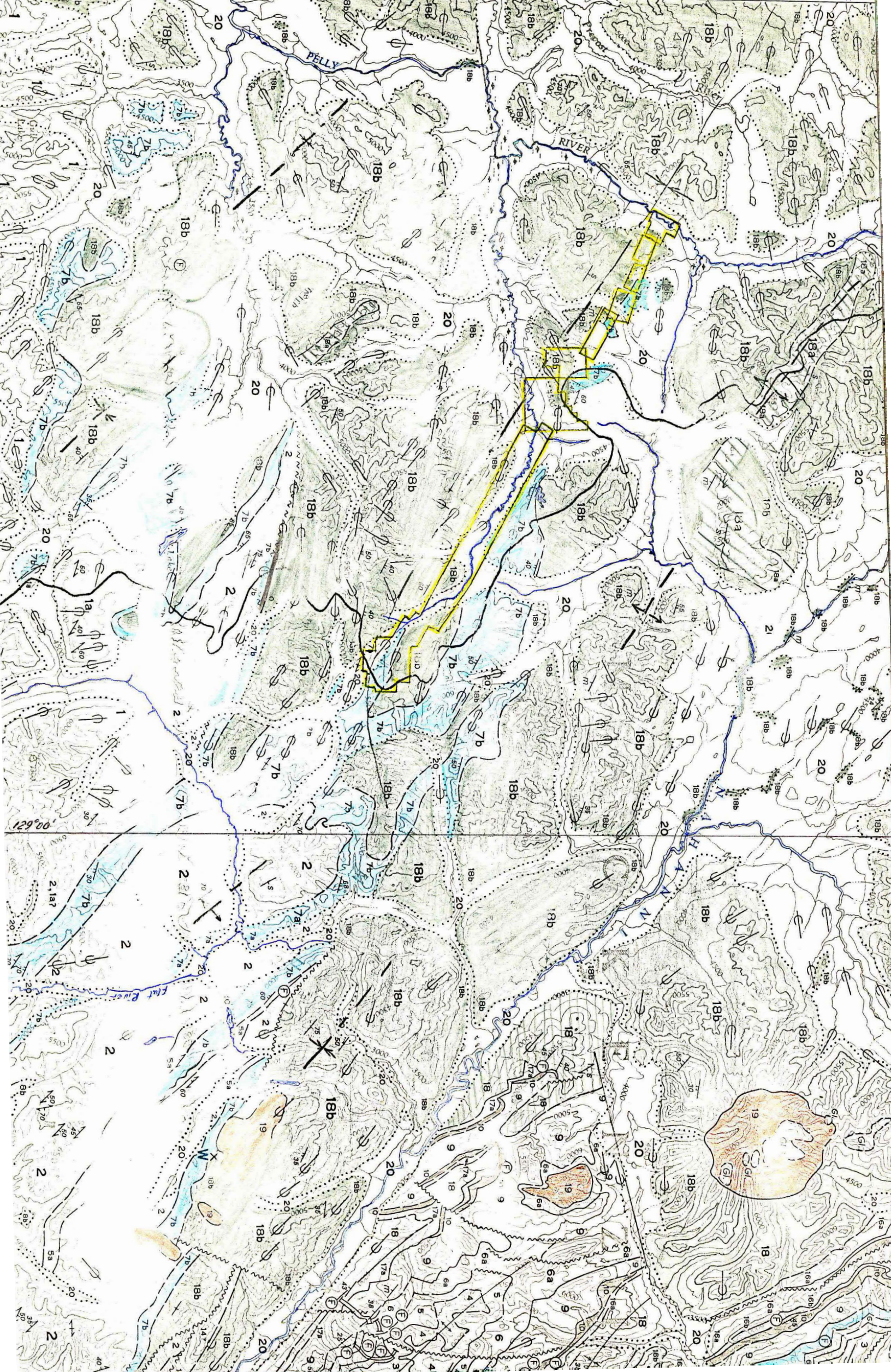
N.T.S. 105I-5 and 6

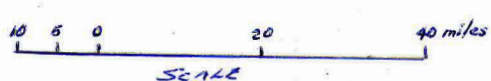
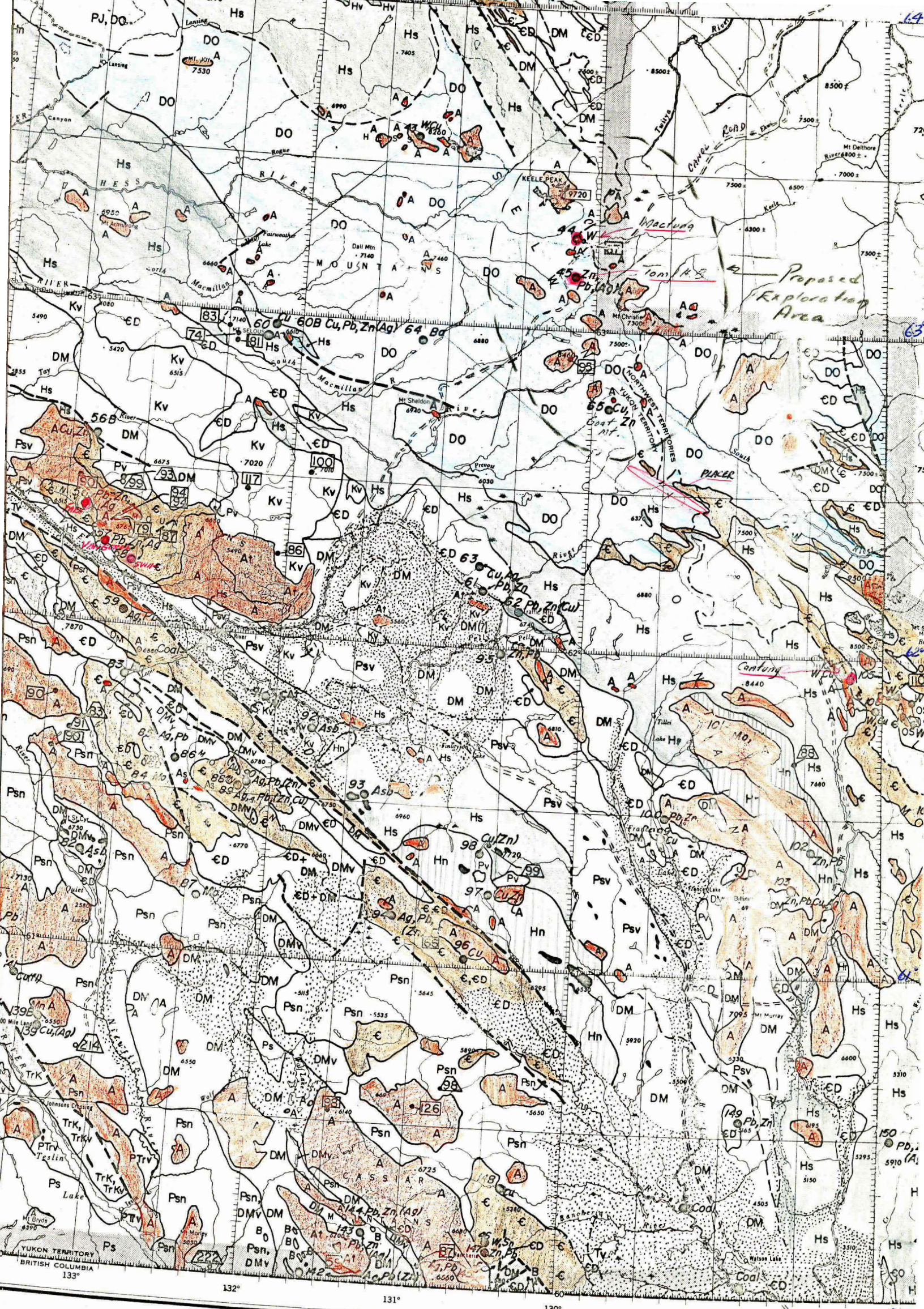
Nov. 30, 1975

J. L. Snow

9 Cambrian intruded
 18 DEVONIAN (?) MISSISSIPPIAN - black shale & argillite, minor sandstone siltstone
 18a chert pebbly conglomerate, chert sandstone & siltstone
 18b undivided 18, 18a and minor 10
 10 ORDOVICIAN & SILURIAN - black graphitic shale, arg-lms, chert
 7 UPPER CAMBRIAN and (?) ORDOVICIAN: lms, dolomitic siltstone, 7a cherty arg. & dolomite
 4 LOWER CAMBRIAN - lms, dolomite Adjoins Map 12-1961, "Sheldon Lake" sandstone, dolomite, g. l. s.

RECENT STAKING BY RACER ON PG-20 FMD
 AUG - SEPT - OCT., 1972
NANANNI MAP AREA - 105 I (1968)
 SCALE = 1" = 4 km.





*Geology & Mineral Deposits
of Yukon Territory
1972*

- A --- Intrusive, Cretaceous
- DO --- Devonian-Ordovician
- E --- Cambrian, mainly lower Cambrian
- H --- Hadrynian

21