I.S.N. 134667

MAP NO. 115 G 6

ASSESSMENT REPORT
PROSPECTUS
CONFIDENTIAL
OPEN FILE

DOCUMENT NO.: 092018
MINING DISTRICT: WHITEHORSE
TYPE OF WORK: Geology, Geophysics

REPORT FILED UNDER: J. Neill

DATE PERFORMED: 1954

DATE FILED: October 5, 1954

LOCATION: LAT.: 61°07'N

LONG.: 138°54'W

AREA: Duke River

VALUE $:

CLAIM NAME & NO.: KANE 1-32

WORK DONE BY: J. Neill

WORK DONE FOR: J. Neill

DATE TO GOOD STANDING	

REMARKS: #5 DICKSON

File: Reports.Reports INSERT NEW RECORDS Resave: Review Add Change

Record 1 of .

Report #: [redacted]
Year: -1954
NTS: 115 G 6
Mining District: Whitehorse
Area: Duke River
Property Name: -Dickson
Property ID #: S
Commodity: -Cu, Ni
Claim: -KANE 1-32
Lat Long: -61 07'N, 138 54'W
Company: -
Author: J. Neill
Type of report: -Assessment, approved 21 Dec. 1954
Comments: Geol. mapping + tracing of peridotite sill with a magnetometer.

Type entry or Use Q commands SSI Avail.

092018

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KANE GROUP OF MINERAL CLAIMS

KLUANE AREA - YUKON TERRITORY

Property - The group comprises 32 claims located along a creek flowing westerly into the head waters of the Duke River.

Access - The property can be reached by horse by following along the Duke Valley from mile post 1098 on the Alaska highway. Travel time takes about 2 days.

Survey - The survey consisted of mapping the claims to a scale of 1000' to 1 inch; mapping in detail a smaller area to 200 scale, and carrying out magnetometer work along the strike of a peridotite dike. (See map accompanying this report). Work was carried out between June 11 and June 17,1954.

Geology - The claims are mainly underlain by sediments consisting of steeply dipping cherty quartzites and associated slates and shales. They strike generally in a westerly direction but local folding and contortion gives wide variation in dip and strike. Outcrops are well exposed along the creek beds and gulches.

Towards the west end of the claims a band of massive, infolded basaltic lava, with minor tuff and volcanic breccia outcrop along the creek walls.

These older rocks are intruded by a fine to medium grained diorite or gabbro with exposed widths up to 500'. Near a peridotite the intrusion weathers to a yellow green colour probably caused by serpentinization. A sill of peridotite outcrops at various points along the main creek bed. It has widths up to 150',dips steeply to the north and was traced for a length of 5000'. The rock is typical of the peridotite dikes of the area, is highly shattered and weathers to a blackish rubble.

To the north at hi her elevations a much younger series of flat dipping basaltic lavas lie on the eroded surface of the older rocks described above.

Mineralization - Local small patches of rust and occasional malachite stains occur in the cherty quartzites adjacent to the peridotite and diorite. The sulphides, mainly pyrrhotite, tend to develop along bedding planes replacing the quartzite. In one or two places replacement is complete over several inches. The largest sulphide patch has a length of 30', with widths up to 10'. A sample submitted for assay gave negligible copper - nickel values.

Mineralization in the peridotite occurs in one of the four outcrops exposed. Here it is associated with a narrow shear or mud seam within the basic rock. Where sulphides are present, the rock weathers to a rusty brown rubble with minor malachite staining. The average width of the mineralized zone is about 10' and is exposed over a length of 90'. The zone carries low values in copper and nickel.

Geophysical - Due to its high magnetic susceptibility the peridotite underlying the creek bed was traced for 2,300' with a magnetometer. To the east at the northwest corner of claim 12, it appears to narrow and lense out. To the west, the peridotite could not be definitely located. Geological mapping suggests the peridotite is displaced by a north trending fault.

JO/lf

J. O'Neill
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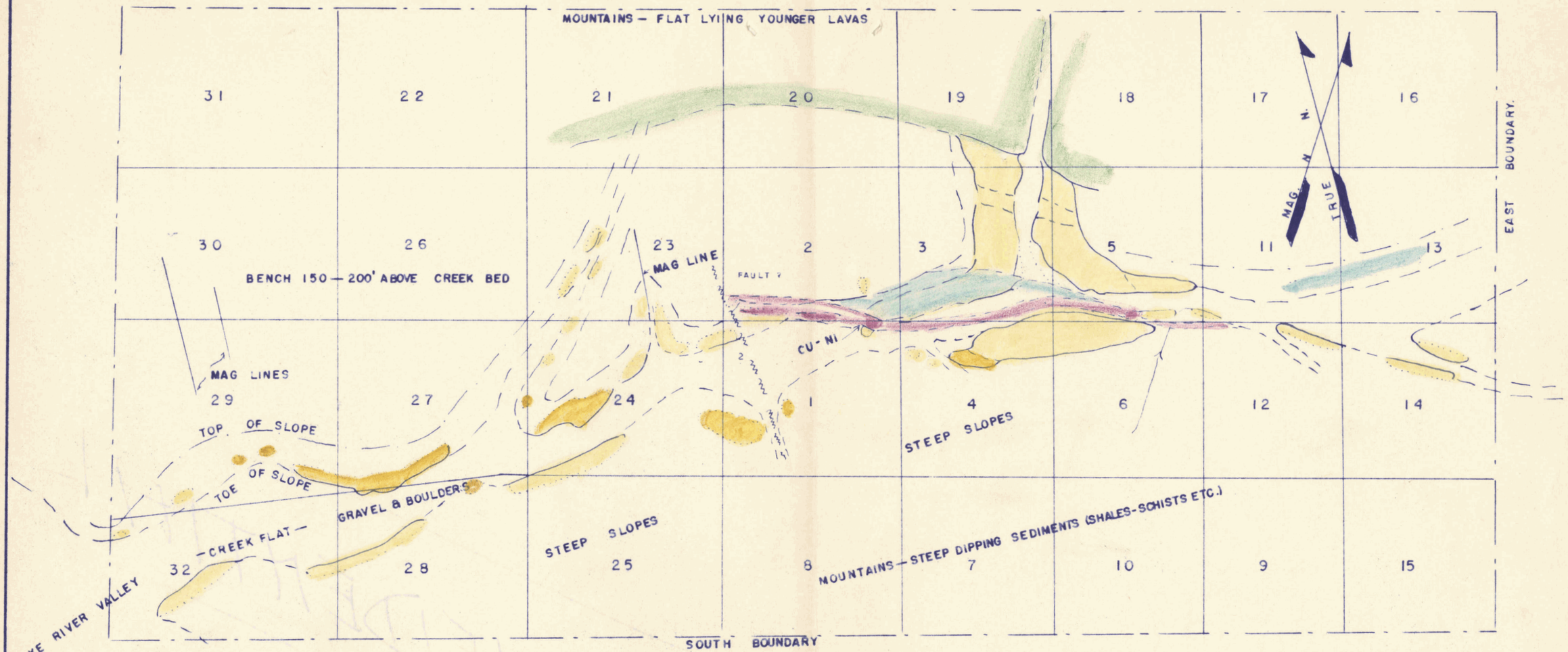

BASIC LAVAS (FLAT LYING)

PERIDOTITE

DIORITE

BASIC LAVAS — MINOR TUFFS & BRECCIAS (STEEP DIPPING)

SEDIMENTS — CHERTS — QUARTZITES — SHALES — SLATES — MINOR LIMESTONE

DICKSON NICKEL PROSPECT

KANE GROUP — KLUANE AREA

YUKON TERRITORY.

SCALE - 1" = 1000' JUNE 54.

092018