

ARCHER, CATHRO

& ASSOCIATES LIMITED

CONSULTING GEOLOGICAL ENGINEERS

VANCOUVER, B.C. (604) 688-2568

Box 4127, WHITEHORSE, Y.T. Y1A 3S9 (403) 667-4415

1016 - 510 WEST HASTINGS STREET
VANCOUVER, B.C. V6B 1L8



WERNECKE JOINT VENTURE

TRENCHING REPORT

PIKE 8-14 CLAIMS

EATON PROPERTY

NTS 106E/1

Latitude 65°00'N; Longitude 134°26'W

Work done June 7, 1980

W.D. Eaton, B.Sc.

A.R. Archer, B.A.Sc., P.Eng.

January 1981

*A 400.00 Assess
Credit*

090766

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INTRODUCTION

The Pike 1-14 claims were staked by Wernecke Joint Venture (WJV) in 1975 to cover brannerite occurrences in hydrothermally altered metasediments adjacent to a breccia body. Geochemical and radiometric surveys conducted in 1975 outlined weak to moderate uranium, copper and molybdenum soil anomalies but failed to locate significant zones of mineralization. The claims were offered to Eldorado Nuclear Ltd. in 1976 under terms of the Eldorado-WJV option agreement and were returned to WJV in 1977 without any work being done on them. The Pike 1-7 claims which were peripheral to the main area of interest were allowed to expire in 1978.

The 1980 WJV exploration program, conducted on June 7, included two mandays of trenching in areas containing brannerite float on the Pike claims. Trenching was done by C. Bishop and J. Staniforth of Archer, Cathro & Associates Limited. Following completion of the program, an additional 25 claims were staked adjacent to the original block.

PROPERTY, LOCATION AND ACCESS

The Eaton property consists of the Pike 1-32 claims as shown on Figure WJV 80-E1 following page 2. The claims are registered in the Mayo Mining District as shown below:

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date</u>
Pike 1-7	YA42090-YA42096	8 August/81
Pike 8-14	Y97523-Y97529	27 March/81
Pike 15-32	YA42097-YA42114	8 August/81

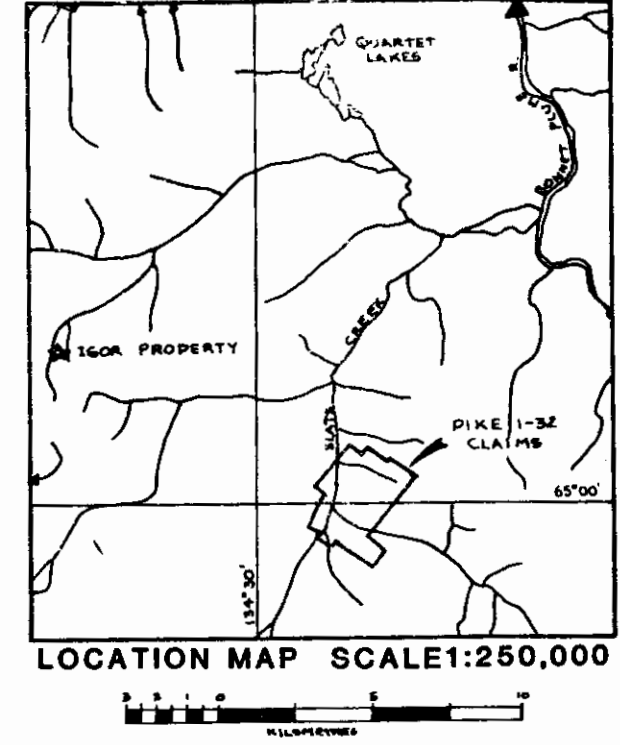
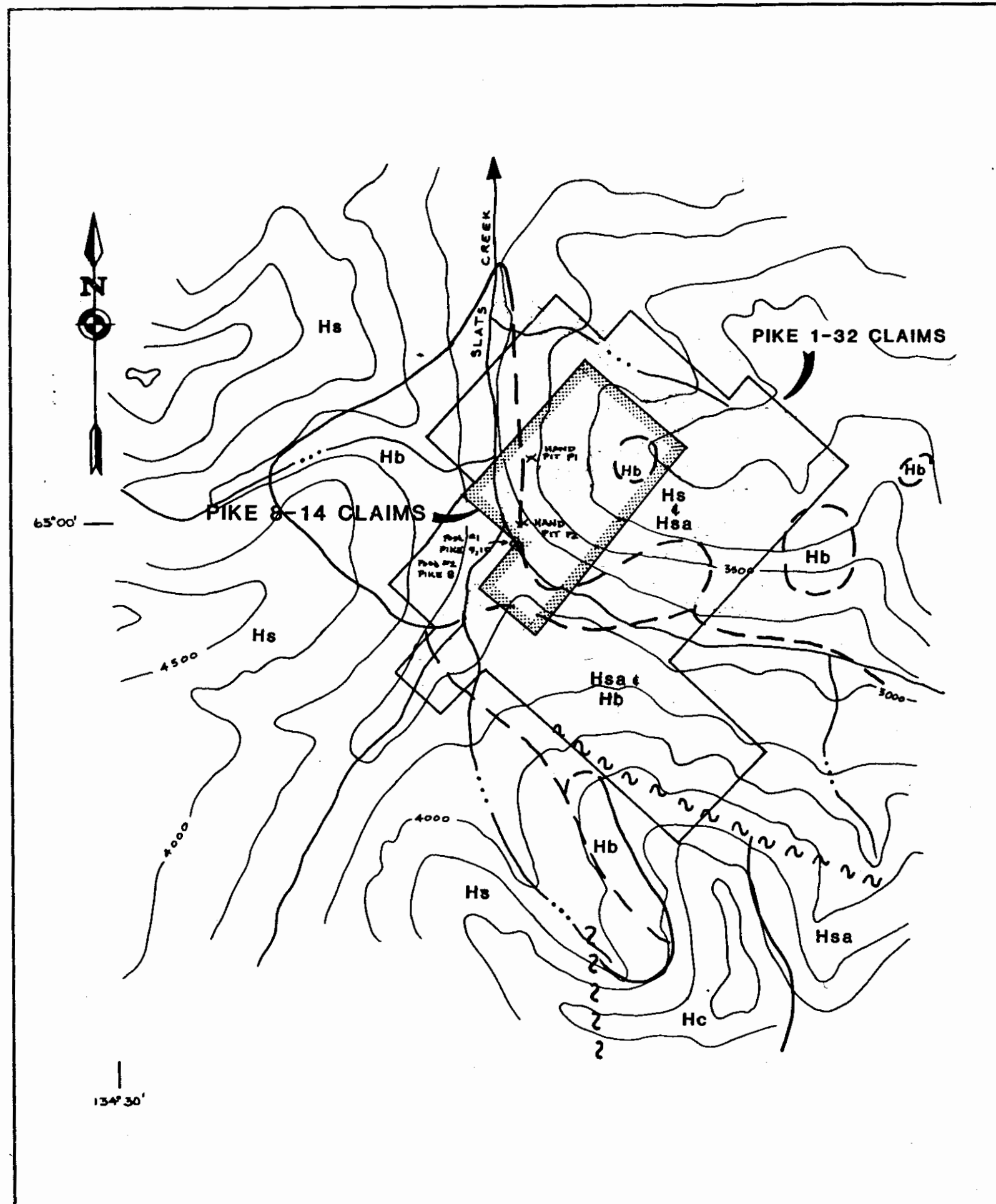
The property is located at latitude 65°00'N and longitude 134°26'W, straddling the boundary between NTS claim sheets 106D/16 and 106E/1. The closest lake suitable

for float equipped fixed wing aircraft is Kiwi Lake, 25 km to the northwest while the closest bush airstrip is at Bear River, 21 km to the southeast. Access in 1980 was by Hughes 500D helicopter leased from Trans North Turbo Air, Whitehorse, and based in the WJV camp on the Igor property 11 km to the northwest. A total of 0.4 hours of helicopter time was required for the program.

GEOLOGY

The Pike claims cover steep hillsides that often approach the angle of talus repose and exhibit local relief from 900 m in the bottom of Slats Creek, which bisects the claims, to a maximum of 1500 m along ridges. Outcrop is abundant on the ridges and upper slopes. Talus, buckbrush, scrub black spruce and moss obscure outcrops on the lower slopes below tree line, which is at approximately 1100 m.

The property geology is illustrated on Figure WJV 80-E1 following this page and consists of Helikian or older, Quartet Group, interbedded black shales, argillites and quartzites cut by an irregular, 2 km in diameter, heterolithic breccia and a number of smaller breccia bodies. The metasediments exhibit extensive hydrothermal alteration ranging from 2-10 mm hematized and albitized envelopes around open or carbonate-quartz filled fractures, through areas of pervasive pale green bleaching, to zones of intense hematization, carbonitization, silicification, albitization and sericitization around the larger breccia bodies. The metasediments also host a number of vuggy and occasionally brecciated, milky to slightly smoky quartz veins and a few tan to red barite veins. The veins are most abundant on the margins of the breccias and range from a few centimetres to 10 metres in width. Strike lengths are usually difficult to determine due to talus cover.



- LEGEND**
- Hb Metrolithic breccia
 - Hc orange-brown weathering dolomite
 - Hs interbedded black slates, argillites and quartzites with minor green slates and quartzites
 - Hsa bleached and altered equivalents of Hs
 - ~ ~ ~ fault
 - X hand pit

FIGURE WJV 80-E1
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GEOLOGY

PIKE 1-32 CLAIMS
 WERNECKE JOINT VENTURE
 SCALE 1 inch = 0.5 miles



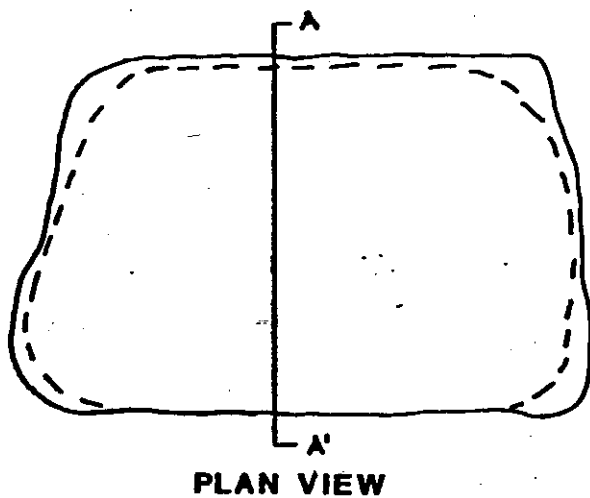
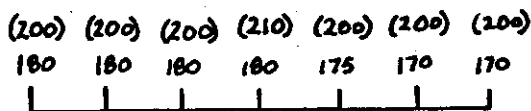
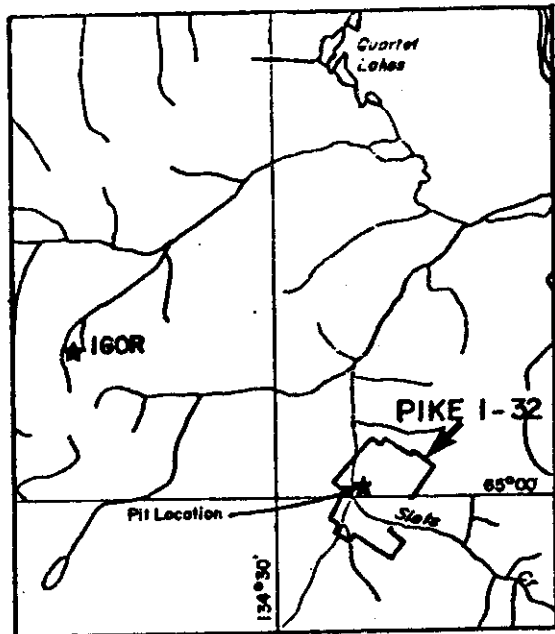
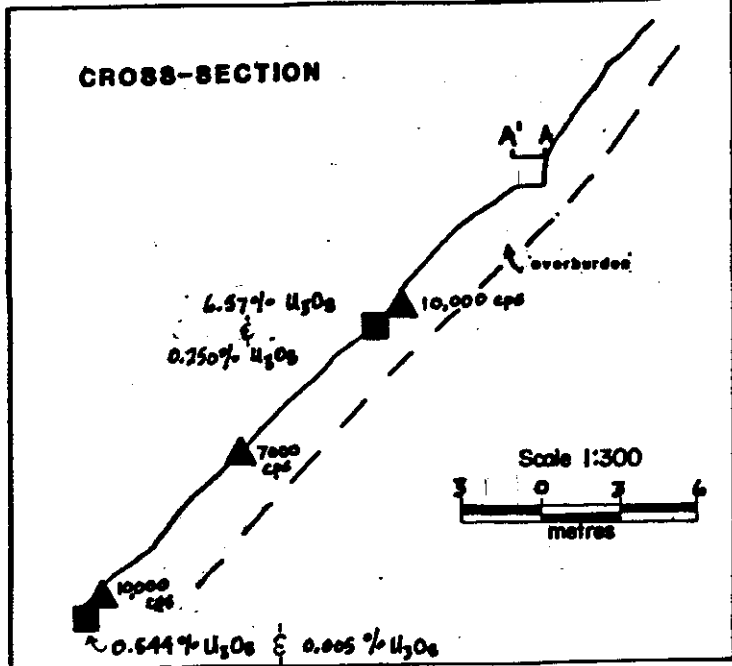
MINERALIZATION

Uranium and copper mineralization have been observed on the property, but no specific zones approaching economic dimensions have been identified. Disseminated and fracture hematite are occasionally found along margins of the breccia bodies whereas disseminated pyrite and chalcopyrite are common in weak ankerite and siderite veins and their associated alteration envelopes, and in massive hematite lenses where they comprise up to 20% of the rock. Malachite and limonite are common in weathered specimens.

In 1975, a five pound rounded boulder of redstained barite containing about 20% brannerite and minor pitchblende was found in coarse talus on the lower hillside. A portion of the boulder assayed 4.66% U_3O_8 , 0.57% ThO_2 and 0.05% rare earth elements, while six other radioactive grab samples of chloritic breccia and hematized metasediments collected in 1975 produced assays ranging from 0.022% to 0.236% U_3O_8 . In 1980 two ten pound boulders of brannerite-bearing, white quartz were found in the same area as the barite boulder. Brannerite-rich samples from these boulders returned assays of 6.57 and 0.25% U_3O_8 compared to 0.54 and 0.005% U_3O_8 from brannerite-deficient portions of the boulders.

TRENCHING

Two hand trenches were dug in areas of anomalous radioactivity. The first was located uphill from the float train of brannerite-bearing quartz, however no buried mineralization was found before the trench was halted at a depth of one metre when large boulders were encountered. Figure WJV 80-E2 following this page shows the location of the trench relative to the radioactive float, the trench outline and a radiometric survey of the trench. The second trench was dug on the



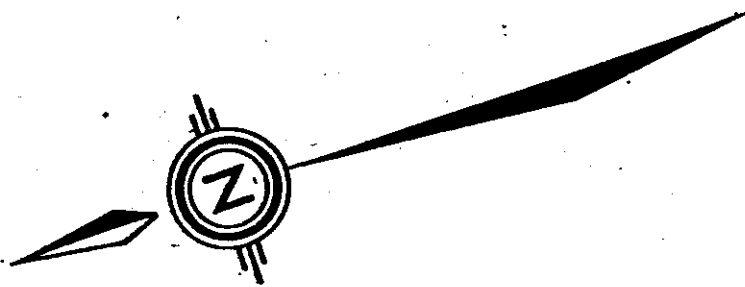
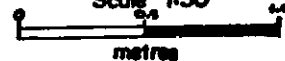
LEGEND

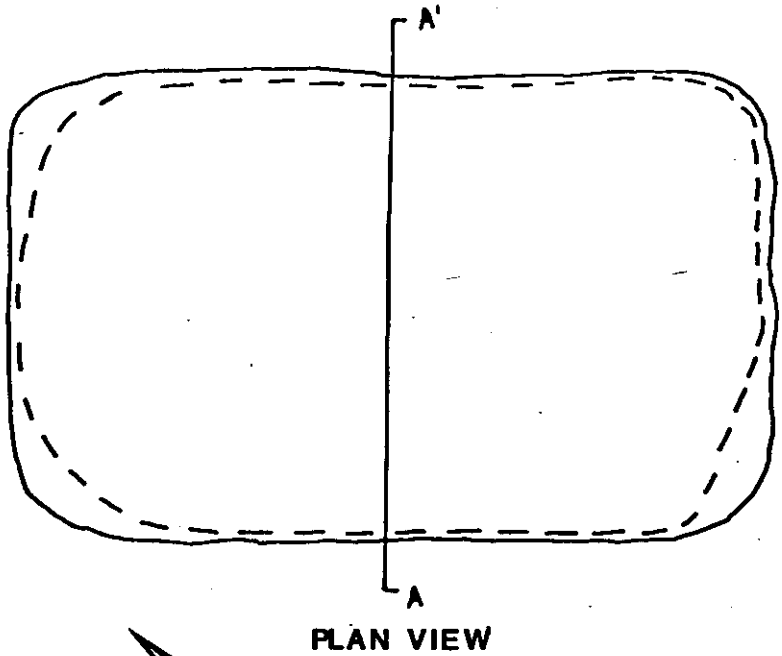
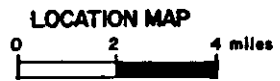
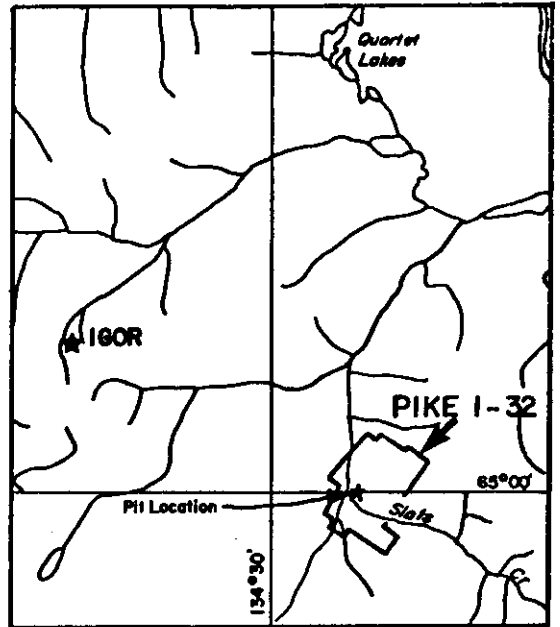
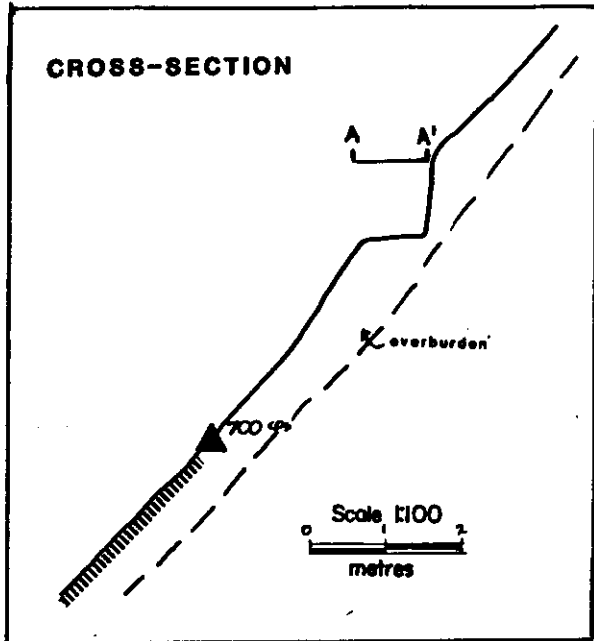
- 180(210) "counts/second with
- 175(200) "BBB-15L scintillometer,
- 170(200) "top of pit 'a' (bottom) of pit
- 170(200) "along backwall
- 180(200)
- top of pit
- - - bottom of pit
- 0.544% U_3O_8 "grab sample location with assays
- ▲ 7000 cps "radioactive boulder in 'take with reading in cps"

FIGURE WJV 80-E2
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HANDPIT PI RADIOMETRICS

PIKE I-32 CLAIMS
WERNECKE JOINT VENTURE
Scale 1:30





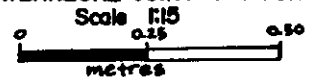
LEGEND

- 180(210)
 - 175(200)
 - 170(200)
 - 170(200)
 - 160(200)
- counts/second with
 BGS-12L scintillometer,
 top of pit (bottom) of pit
 along backwall
- top of pit
- - - bottom of pit
- ▲ 700 cps over soil
- ||||||| 200 cps average background

FIGURE WJV 80-E3
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**HANDPIT P2
 RADIOMETRICS**

PIKE I-32 CLAIMS
 WERNECKE JOINT VENTURE



east bank of Slats Creek 300 m south of the first trench in soil exhibiting 2 to 3 times background radioactivity. This trench was stopped at a depth of one metre when it became apparent that radioactivity was not increasing with depth, suggesting that the source of the radiometric material lay somewhere downhill from the trench. Figure WJV 80-E3 which follows Figure WJV 80-E2 shows the outline and a radiometric survey of this trench.

CONCLUSIONS AND RECOMMENDATIONS

Although the trenches failed to locate the source of the uranium mineralization, high uranium assays from the float and the presence of pitchblende with the brannerite are encouraging. The best uranium and copper mineralization occurs on the margins of the breccia bodies in areas of poor exposure.

Further work should consist of detailed mapping to outline the breccia bodies, prospecting and radiometric surveys on the margins of the bodies, and continued hand trenching in areas exhibiting high grade uranium float.



W.D. Eaton, B.Sc.

Respectfully submitted,
ARCHER, GATHRO & ASSOCIATES LIMITED

A.R. Archer, F.P.A.S.E., P.Eng.

