



Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

MINFILE GEOLOGICAL SURVEY BRANCH

0102

000757

MINFILE

IDENTIFICATION

MINFILE NO. 082ENW071

NATIONAL MINERAL INVENTORY NO. _____

NAMES

Riddle Creek
Agur - Ash

CLAIMS

OWNER

OPERATOR

STATUS

SHOWing PROspect DEveloped PROspect OUPRODucer OUPAsT PROducer

LOCATION

NTS 082E12W MINING DIVISION 058Y
LATITUDE 49° 32' 40" LONGITUDE 119° 52' 00" ELEVATION 1400 metres
UTM ZONE _____ NORTHING _____ EASTING _____
LOCATION CERTAINTY WITHIN 500m WITHIN 1km WITHIN 5km

COMMENT ON IDENTITY radioactive zone east of the volcanic centre (EMPR FIELDWORK 1981)

MINERAL OCCURRENCE

COMMODITIES

UR TH

listed according to economic importance

RESERVES

TYPE TONNES GRADES

OR BEST ASSAY DATA

COMMENTS

PRODUCTION

YEARS TONNES MINED

METALS RECOVERED

MINERALOGY

ECONOMIC MINERALS UNKN *****

COMMENTS

GANGUE MINERALS

COMMENTS

ALTERATION MINERALS

COMMENTS

ALTERATION TYPE

AGE OF MINERALIZATION 124

ISOTOPIC AGE

DATING METHOD

MATERIAL DATED

DEPOSIT TYPE

- VEIN STRATIFORM
STOCKWORK CONCORDANT
PORPHYRY PLACER
PIPE PRECIPITATE
IGNEOUS DISSEMINATED
SKARN MASSIVE
PEGMATITE UNKNOWN
STRATABOUND UNCLASSIFIED

GENETIC TYPE

- REPLACEMENT EPIGENETIC
MAGMATIC HYDROTHERMAL
VOLCANOGENIC RESIDUAL
SEDIMENTARY UNKNOWN (UNCLASSIFIED)
SYNGENETIC

SHAPE OF DEPOSIT REGULAR TABULAR CYLINDRICAL BLADED IRREGULAR

MODIFIER FOLDED FAULTED FRACTURED SHEARED OTHER

DIMENSION

ATTITUDE STRIKE/DIP TREND/PLUNGE

COMMENT ON STRUCTURE

HOST ROCKS

A. DOMINANT ROCK TYPE 1 SEDIMENTARY 2 VOLCANIC 3 METAPLUTONIC 4 METAMORPHIC
 2 PLUTONIC 4 METASEDIMENTARY 6 METAVOLCANIC

B. SUPERGROUP _____ GROUP _____
 FORMATION Marron III MEMBER _____
 AGE 124 ISOTOPIC AGE _____
 DATING METHOD _____ MATERIAL DATED _____
 ROCK TYPE TRCT PNLT _____
 LITHOLOGY Trachyte Phonolite _____

C. IGNEOUS/METAMORPHIC/OTHER Coryell 282
 AGE 124 ISOTOPIC AGE _____
 DATING METHOD _____ MATERIAL DATED _____
 ROCK TYPE SYNT Syenite _____
 LITHOLOGY _____

COMMENT ON HOST ROCK _____

GEOLOGICAL SETTING

TECTONIC BELT INsular OMineca TERRANE T JKT
 Coast Crystalline EAstern
 InterMontane

PHYSIOGRAPHIC AREA THPT

METAMORPHISM: TYPE 1 CONTACT RELATIONSHIP 1 PRE-MINERALIZATION
 2 REGIONAL 2 SYN-MINERALIZATION
 3 POST-MINERALIZATION

GRADE Hornfels BlueSchist AMphibolite EClogite SubBituminous
 Zeolite GreenSchist Granulite Lignite Low Vol. bituminous
 Med. Vol. bituminous Hi Vol. bituminous SemiAnthracite ANthracite

COMMENT ON GEOLOGICAL SETTING _____

CAPSULE GEOLOGY a 5 by 2 km radioactive area coincides with an Eocene volcanic centre. The principal radioactive rocks include trachytes and mafic phonolites of the Marron Formation and consanguineous syenite of the Coryell-type. North of the radioactive area, polymictic conglomerates and andesite, which overlie granitic phases of the Okarogan Batholith, occur at the base of the Tertiary section. The most radioactive rocks are thick (150 to 200 metres) trachyte lava flows. Assays obtained are up to 0.12% uranium and 0.032% thorium (ASS RPT 6250). Pervasive hydrothermal alteration of the trachyte and vent breccia has produced cream and white kaolinized rocks of variable radioactive response. The syenites, which lie to the west of the trachyte, average 0.006% uranium and 0.032% thorium. Radioactive elements are concentrated on manganese pitch and dendritic growths on numerous small cracks. Overlying the western contact of the trachyte flow with the intrusion of syenite are superficial deposits of uraniumiferous sediments. A sediment sample assayed 0.06% uranium (ASS RPT 6750).

BIBLIOGRAPHY (place 'best' or most recent source first)

- EMPR FIELDWORK 1977, pp 7-11; 1978, pp 12-24; 1981, pp 17-22
- EMPR ASS RPT 6750, 7362
- IAEA, 1985, Vol. STI/PUB/690 - Uranium in Volcanic Rocks, p. 331
- EMPR EXPL 1978 - 35-36
- GAC Field Trip No. 1, May 7-10, 1983 pp 34-39
- WJ Miner Vol 51, No 5, May 1978, pp 33-34

CODED BY LDJ initials FIELD CHECKED: YES NO DATE CODED 1987 yr 03 mo 19 day
 REVISED BY _____ initials FIELD CHECKED: YES NO DATE CODED _____ yr _____ mo _____ day