

PRODUCT  
PRODUIT RARE EARTHS

PROVINCE OR  
TERRITORY PROVINCE OU  
TERRITOIRE

British Columbia

N.T.S. AREA 94 L/12  
RÉGION DU S.N.R.C.

REF. Ree 1  
RÉF.

NAME OF PROPERTY  
NOM DE LA PROPRIÉTÉ KECHIKA (REE) (RAR)

OBJECT LOCATED  
OBJET LOCALISÉ centre of property

UNCERTAINTY 1000 m  
FACTEUR D'INCERTITUDE Lat. 58°43' Long. 127°32'  
Lat. Long.

Mining Division  
Division minière Liard

District  
District

County  
Comté

Township or Parish  
Canton ou paroisse

Lot  
Lot

Concession or Range  
Concession ou rang

Sec.  
Sect.

Tp.  
Ct.

R.  
R.

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

A suite of alkaline igneous rocks consisting of syenites, possible syenitic tuffs, carbonatites and a diatreme breccia and related dykes and tuff breccias are intermittently exposed in a northwest-trending zone some 20 km in length. These alkaline rocks are hosted by middle Palaeozoic carbonate strata. Preliminary studies indicate that the igneous rocks, in particular apatite-rich syenitic tuff layers, are extremely enriched in yttrium, containing up to 0.90 per cent  $Y_2O_3$ , and heavy rare earths. Rare earth metal values occur in shears, fluorite stringer zones and stockworks, and disseminated as accessory minerals in the carbonatite; the rare earths include cerium, europium, terbium, and thulium.

Associated minerals or products  
Minéraux ou produits associés

Yttrium, fluorspar

HISTORY OF EXPLORATION AND DEVELOPMENT  
HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

The property is located between elevations of 1,180 and 2,370 metres in the Kechika Ranges some 150 km east-northeast of Dease Lake.

Fluorite occurrences in this area were noted by H. Gabrielse while mapping (map 42-1962) for the Geological Survey of Canada in about 1960. Golden Rule Resources Ltd. in 1985 began a reconnaissance prospecting program to investigate the rare earth potential of the area. Additional work in selected areas in 1986 included reconnaissance geo-mapping and sampling (125 rock and 122 silt samples). Based on the results of this work ground was acquired in 1985-87 to include the Ree 1-8, Reo 1-2, and Rar 1-9 claims (331 units), staked along a 20 km northwesterly trend within NTS blocks 94 L/11, 12, 13; the Rar group (BCI 94 L-9) is at Lat: 58°40'36", Long: 127°25'30", in 94 L/11 (Ref. Exploration in BC, 1987, p. C346). The claims were owned by prospectors Andrew Harmon and Garth Johnson, and Golden Rule Resources.

Can America Precious Metals Inc. in March 1987 entered a 50% joint venture option agreement with Golden Rule Resources; no work was reported under the agreement.

Formosa Resources Corporation in November 1988 optioned a 60% interest in the property from owners Harmon, Johnson, and Golden Rule Resources. Regional prospecting, detailed mapping and bulk sampling were reported.

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HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

REFERENCES/BIBLIOGRAPHIE

Exploration in British Columbia; EMPR: 1987, p. C346.

Pell, Jennifer; Culbert, Richard; Fox, Michael; The Kechika Yttrium and Rare Earth Prospect (94 L/11, 12, 13); Geological Fieldwork 1988, pp. 417-421, EMPR, B.C.

Mineral Policy Sector; Corporation Files: "Golden Rule Resources Ltd."; "Can America Precious Metals Inc."

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 42-1962, Kechika, (Geol.), Sc. 1": 4 miles, Geol. Surv. of Canada.

#Geology of the Kechika Yttrium and Rare earth prospect, 0.9 cm: 1 km, Fig 2-8-1, Geological Fieldwork, 1986, p. 418.

\*Map 94 L, Kechika, (Topo.), Sc. 1: 250 000.

Map 94 L/12, Sharktooth Mountain, (Topo.), Sc. 1: 50 000

Map 94 L/11, Denetiāh Creek, (Topo.), Sc. 1: 50 000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR						
Date Date	04-89						

BCI 94 L-8,9