

PRODUCT	URANIUM	PROVINCE OR TERRITORY	British Columbia	N.T.S. AREA	82 E/10	REF. U 2
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NAME OF PROPERTY CUP LAKE (DONEN 281-320)

OBJECT LOCATED - Drilled area east of Lassie Lake.

UNCERTAINTY IN METRES 300. Lat. 49°35'45" Long. 118°53'55"

Mining Division Greenwood District

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

Mineralized deposits occur in fluvial sedimentary rocks that unconformably overlie Anarchist Group rocks, Early Tertiary volcanic and sedimentary rocks (Marron Formation or Kettle River Formation), and Nelson, Valhalla, and Coryell intrusive rocks. Strong north 20 degree east faults occur in the area of the mineral deposits but their relationship to the mineralization has not been determined.

Secondary uranium minerals occur as films on pebbles and in the matrix of unconsolidated or loosely consolidated conglomerate and carbonaceous sediments that were deposited in paleo-stream channels and preserved below a cap of Miocene plateau basalt. Autunite is the only uranium mineral that has been identified.

HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located at approximately 4,300 feet elevation $\frac{1}{2}$ mile east of Lassie Lake and 32 miles southeast of Kelowna.

Following the discovery of the Fuki showing in 1968 (Fuki and Donen, 82 E/10, U 1) additional exploration targets were located by radiometric and geochemical surveys. Water geochemistry for uranium proved to be the most useful method and provided indications of the buried deposit east of Lassie Lake.

The claims were staked in 1971 for Nissho-Iwai Canada Ltd. The operator, the Power Reactor and Nuclear Fuel Development Corporation, of Japan, carried out 3,431 feet of diamond drilling in 16 holes in 1972 and 4,240 feet of diamond drilling in 1973 on Donen 281-320. Work in 1979 included geological mapping and 3 149 m of diamond drilling in 40 holes. Preliminary estimates put the Cup Lake occurrence at greater than one million tonnes averaging approximately 0.04% U (CIM Special Volume 33, p. 319).

The British Columbia government on February 27, 1980 announced a seven-year moratorium on uranium mining and exploration in the province.

HISTORY OF PRODUCTION

REFERENCES

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1972, p. 43; 1973, p. 49; 1975, pp. G 34-G 36 + .

Exploration in British Columbia; BCDM: 1979, p. 35.

Uranium Deposits of Canada; CIM Special Volume 33, p. 319, 1986.

Geology in British Columbia; BCDM: 1977-1981, p. 12.

MAP REFERENCES

#Geology of the Fuki, Donen Property, Fig. G-19, Geology, Exploration, and Mining, 1975, p. G 35.

Map 6-1957, Kettle River (East Half), (Geol.), Sc. 1":4 miles, Geol. Surv. of Canada.

Map 8499 G, Christian Valley, (Aeromag.), Sc. 1":1 mile.

*Map 82 E/10, Christian Valley, (Topo.), Sc. 1:50,000.

REMARKS

See also: Fuki and Donen, 82 E/10, U 1.

Comp./Rev. By	DMacR	DMacR					
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