

PRODUCT COPPER
PRODUIT

PROVINCE OR PROVINCE OU
TERRITORY TERRITOIRE

British Columbia

N.T.S. AREA 104 H/12
RÉGION DU S.N.R.C.

REF. CU 1
RÉF.

NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ RED, CHRIS, MONEY (WINDY)

OBJECT LOCATED - Area of 1973-74 drilling.
OBJET LOCALISÉ

UNCERTAINTY 300 m
FACTEUR D'INCERTITUDE

Lat. 57°42'05"

Long. 129°47'55"

Mining Division Liard
Division minière

District
District

Cassiar

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

An elongate late Triassic-early Jurassic monzonite feldspar porphyry stock, with strong to intense argillic alteration and much disseminated pyrite, intrudes upper Triassic volcanic, volcanoclastic and sedimentary rocks and is in fault contact with mid to late Jurassic sedimentary rocks of the Bowser Lake group. At surface the intrusion is up to 1,350 metres wide and has been traced along the northern side of a major east-northeasterly fault zone for more than 4 kilometres.

Pyrite is widespread in rocks north of the major fault zone whereas rocks mineralized with copper and gold are confined to a quartz stockwork and fracture system containing chalcopyrite, pyrite, and traces of bornite. The mineralized quartz stockwork is an east to east-northeasterly trending zone or series of zones at least 3.2 kilometres in length and is contained mainly within the feldspar porphyry intrusion. Mineralogical zoning is evident over the 3.2-kilometre strike length of the known mineralized zone. At the western end of the quartz stockwork system where the mineralized zone is as

see Card 2

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

The property is located at approximately the 5,000 foot elevation 2 miles northwest of Kluea Lake and 55 miles south-southeast of Dease Lake.

Conwest Exploration Company Limited held the Windy group of 30 recorded claims in this vicinity in 1956. Limited open cutting and packsack diamond drilling was reported. The claims were subsequently allowed to lapse.

Great Plains Development Company of Canada, Ltd., in 1969 staked the Money 1-72 claims on the main gossan exposure. The adjoining Chris 1-24 claims were staked by the company that same or the following year. Exploration work during 1970 included a geochemical soil survey on Chris 1, 2, 13, bull-dozer trenching on Chris 9, 11, 12, and 1,015 feet of diamond drilling in 2 holes. By 1972 the Chris group had been expanded to 42 claims. Work during that year included 3,017 feet of diamond drilling in 8 holes on Chris 1, 9, 11, 12.

Silver Standard Mines Limited in 1970 staked the Red and Sus claim groups adjacent to the Chris group. A geochemical survey was carried out over the Sus group in 1970. Ecstall Mining Limited optioned the Red group from Silver Standard in 1973. Work during the year included 4 line-miles of induced potential survey on Red 9, 10, 25, 26, and 3,012 feet of percussion drilling in 14 holes.

By a July 1, 1974 agreement with Silver Standard and Great Plains Development, Ecstall acquired an option on a 60% interest in the combined Red and Chris groups for a total of 134 claims; the remaining 40% interest was divided equally between Silver Standard and Great Plains. During 1974 Ecstall carried out an induced potential survey over 20 line-miles, a magnetometer survey over 22 line-miles, a radon survey over 7.25 line-miles, a geochemical soil survey (66 samples), 7,432 feet of diamond drilling in 16 holes on Red 10, 25, 27, and Chris 2, and 2,560 feet of percussion drilling in 10 holes on Red 10, 25, and Chris 2.

The company name (Ecstall) was changed in January 1975 to Texasgulf Canada Ltd.; the company is a subsidiary of Texasgulf Inc. Work during 1975 included magnetometer and induced potential surveys, 6,925 metres of surface diamond drilling in 33 holes, and 1,480 metres of percussion drilling in 20

see Card 2

Associated minerals or products - Gold.
Minéraux ou produits associés

- Seraphim, R.H.; Report on Red-Chris Group: in Silver Standard Mines Limited Statement of Material Facts, December 1975.
Policy
- Mineral/Sector; Corporation Files: "Silver Standard Mines Limited"; "Texasgulf Canada Ltd."; "Texasgulf Inc."; "Norcen Energy Resources Limited".
- Report of Minister of Mines, British Columbia: 1956, p. 14.
- Geological Fieldwork, British Columbia Dept. of Mines: 1976, p. 71.
- Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1969, p. 45; 1970, p. 60; 1971, p. 42; 1972, p. 535; 1973, p. 509; 1974, pp. 340-343⁺; 1975, pp. E 185, G 85⁺⁺; 1976, p. E 187; 1977, p. E 227; 1978, p. E 260.
- Geology in British Columbia; BCDM: 1976, p. 125.
- Exploration in British Columbia; BCDM: 1980, p. 478.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

#Red and Chris Claim Groups, (Geol.), Sc. 1":1,000 ft., Fig. 34 - accomp. Geology, Exploration, and Mining, 1974, British Columbia Dept. of Mines.

Map 9-1957, Stikine River Area, (Geol.), Sc. 1":2 miles.

*Map 104 H/12, Kluea Lake, (Topo.), Sc. 1:50,000.

Geological sketch of the Red-Chris deposit, Sc. 1 cm:400 m approx., Fig. 53, Geology in British Columbia, 1976, p. 126.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR	DMacR	DMacR				
Date Date	11-80	12-83	09-86				

PRODUCT COPPER
PRODUIT

PROVINCE OR PROVINCE OU British Columbia
TERRITORY TERRITOIRE

N.T.S. AREA 104 H/12
RÉGION DU S.N.R.C.

REF. CU 1
RÉF.

NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ

RED, CHRIS, MONEY (WINDY)

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

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT (continued)

much as 900 metres from the main fault zone, quartz veinlets are pyritic, weakly mineralized with chalcopyrite, and are locally cut by gypsum-bearing veinlets. In the central, main mineralized area, the mineralized stockwork lies adjacent to faulted rocks and is no more than 450 metres from the major east-northeasterly trending fault zone. At the eastern end of the known mineralized zone the quartz stockwork appears to coalesce with the major fault zone and may be terminated by it.

holes. Work during 1976 included geochemical soil and induced potential surveys and 3,045 metres of diamond drilling in 19 new holes and the extension of two holes. The deposit was then estimated to contain 45,200,000 tons averaging 0.56% copper and 0.01 ounce gold per ton to a depth of 500 feet (Texasgulf Inc., 1976 Annual Report).*

Further exploration during 1977-78 included geochemical sampling by overburden drilling (153 samples), an induced potential survey over 20 km, and 391 m of diamond drilling in 5 holes on Chris 2 and 4. Diamond drilling in 1980 was done in 2 holes (626 m) on Red 9.

Great Plains Development in 1975 became a wholly owned subsidiary of Norcen Energy Resources Limited and was subsequently dissolved. Texasgulf Canada Ltd was acquired in June 1981 as a wholly owned subsidiary by Canada Development Corporation, then owned 87.7% by the Government of Canada. The company name (Texasgulf) was changed in Nov. 1981 to Kidd Creek Mines Ltd. The property was held at that time by Kidd Creek (60%), Norcen (20%) and Silver Standard Mines (18%). The latter company changed its name in 1984 to Consolidated Silver Standard Mines Limited; the company interest in this property was transferred in December 1985 to a new wholly owned subsidiary Western Copper Holdings Limited.

* The above tonnage is drill indicated and inferred material in the Main and East Zones (Silver Standard Mines, 1977 AR).