PRODUCT	GOLD	PROVI
PRODUIT		TERRI

PROVINCE OU British Columbia

N.T.S. AREA 104 RÉGION DU SN R C 104 G/9

REF. AU 2 RÉF.

PRODUIT	TERRITORY	TERRITOIRE	REGION DU S.N.R.C. REF.		
NAME OF PROPERTY NOM DE LA PROPRIÉTÉ RED	DOG (SPECTRUM)		HISTORY OF EXPLORATION AND DEVELOPMENT HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR		
OBJECT LOCATED - Drill hole 79-5. OBJET LOCALISÉ			The property is located at the 4,800' elevation, 2 km southwest of the southwest corner of Nuttlude Lake and some		
FACTEUR D'INCERTITUDE Lat.	Long.		50 miles south-southwest of Dease Lake. The Spectrum group of 46 claims was staked on the showing		
Mining Division Liard Division minière	District Case District	siar	in 1969 for Spartan Explorations Ltd. under a joint explora- tion program with Mitsui Mining & Smelting Co. Ltd. Work		
	o or Parish <i>u paroisse</i>		during the year included geological mapping, geochemical soil		
Lot Concession Lot Concession	or Range on ou rang		sampling, and a magnetometer survey. By an agreement of August 1971, Imperial Oil Enterprises Ltd. acquired an option		
Sec Tp. Sect. Ct.	R. <i>R.</i>		on the property. Additional staking expanded the property to		
			91 claims in the Spectrum and Owl groups. Work during 1971 and 1972 included an induced potential survey over 4.4 line-		
OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT		miles, geological mapping, rock chip geochemistry, and a ground			
			magnetometer survey over 23.5 line-miles. In 1973 Imperial carried out 1,478 feet of diamond drilling in 4 holes on		
· · · · · · · · · · · · · · · · · · ·			Spectrum 9, 11, and 13. The drilling showed only very low		
			copper values. The option was terminated in 1974.		
			Sections of the drill core were re-assayed in 1975 by the Racicot Syndicate and showed interesting gold values. The		
DESCRIPTION OF DEPOSIT/DESCRIP	TION DU GISEME	NT	ground was in part restaked for the Racicot Syndicate as the		
The property is underlain by			Red Dog #1 (2 units) in September 1975 and Red Dog #2 (15		
Triassic sedimentary and volcani		0	units) in April 1976. The Racicot Syndicate comprised Placer Development Limited, El Paso Mining and Milling Company, and		
agglomerate, greywacke, grit and andesite, dacite, and related py			Mr. Arnold Racicot.		
clastics are overlain by a thick					
flows. The volcanic rocks are i			interest in the Red Dog claims in July 1978. A geochemical		
irregular masses of andesite and	d dacite porphyr	'y .	survey, comprising 1,585 soil and 9 rock samples, was carried		
The sedimentary rocks have h			out. Work during 1979 included bulldozer trenching, a geo-		
folds which plunge northwesterly			chemical soil survey (541 samples), and 832 metres of diamond		
cleavages are north 70 degrees t			drilling in 10 holes. The best zone intersected by drilling extends N15°W for at least 60 metres with average intersection		
degrees to 40 degrees west, with The Upper Triassic strata an		* *			
dyke of Jurassic to Cretaceous a			35,000 tons at an uncut average grade of 0.598 oz/t Au (Noel.		
eastern margin of the Red Dog (2			G.A., 28/02/80 - in Consolidated Silver Ridge Ms L, Statement		
steep-walled with generally shar	rp contacts. It	shows consider-	of Material Facts, 22/07/80).		
able shearing and brecciation of		laces. The dyke	Northair Mines Ltd. in 1979 assumed management of the		
is obscured at its south end by			exploration program, and financing through a share option.		
dyke is mainly granodiorite but	•		Work during 1979-82 included geological and geochemical soil		
its in places. It is medium to	coarse grained,	-	surveys (541 samples) and 3 164 m of diamond drilling in 28 holes. Reserves were estimated Dec. 1981 by G.A.Noel & Asso		
		see Card 2	see Card 2		
Associated minerals or products – Copper, s Minéraux ou produits associés	silver, lead, zi	inc.	Mineral Policy Sector, Department of Energy, Mines and Resources Secteur de la politique minérale, ministère de l'Énergie, des Mines et des Ressources		

Mineral Policy Sector, Department of Energy, Mines and Resources, Ott. Secteur de la politique minérale, ministère de l'Énergie, des Mines et des Ressources, Ott. 504195

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Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1970, p. 57; 1971, p. 41; 1972, pp. 531-534⁺; 1973, p. 506; 1978, p. E 258⁺⁺.

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MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

- Map 11-1971, Telegraph Creek, (Geol.), Sc. 1:250,000 accomp. Paper 71-44, Geol. Surv. of Canada.
- Geology of the Spectrum Claims, Sc. approx. 1":750 ft., Fig. 66 - accomp. Geology, Exploration, and Mining, 1972, British Columbia Dept. of Mines.
- #Geology & Topography, Red Dog Property, Sc. 1:6700, Fig. 3 accomp. Report by Noel, 1980.
- *Map 104 G/9 W, Kinaskan Lake, (Topo.), Sc. 1:50,000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR	DMacR	DMacR		BCI 104 G -
Date Date	09-80	12-83	09-86		

Card 2 -GOLD PRODUCT British Columbia PROVINCE OR PROVINCE OU 104 G/9REF.AU 2 N.T.S. AREA PRODUIT TERRITORY TERRITOIRE RÉGION DU S.N.R.C. RÉF. NAME OF PROPERTY HISTORY OF EXPLORATION AND DEVELOPMENT (continued) RED DOG (SPECTRUM) NOM DE LA PROPRIÉTÉ HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT (continued) to be at least 2,400,000 tons averaging 0.037 oz/t gold (Northair Mines Ltd. 1983 Annual Report). porphyritic, grey to pink hornblende-biotite granodiorite. It is considerably altered in places, showing potassic, biotite The company name (Consolidated Silver Ridge) was changed hornfels, and propylitic alterations. in September 1981 to Northcal Resources Ltd. The property Mineralization on the Red Dog property follows four was held at that time by Northcal (60%), Northair (30%), Placer Development and El Paso Mining & Milling (a combined distinct patterns. 1. Pyrite with minor pyrrhotite as disseminations and 10%). The El Paso interest was subsequently transferred to Meridian Land and Mineral Company, the interest distribution fracture fillings in the Upper Triassic cherts, tuffs and then being Placer (4.5%), Meridian 4.5%) and A.C. Racicot flows. (1.0%). 2. Pyrite and chalcopyrite as disseminations and fracture fillings in the granodiorite dyke and adjacent wallrocks. This Cominco Ltd optioned the property in September 1983 . porphyry-type mineralization has associated sericite and Work in 1984 included a soil geochemical survey (1,260 samples) over the Spectrum and adjacent claim groups. The biotite alteration aureoles. The better intersections in the 1973 drilling averaged 0.2 to 0.3% Cu over 15 to 25 metres. company name (Northcal) was changed in September 1985 to 3. Pyrite, arsenopyrite, sphalerite, and galena in narrow Calnor Resources Ltd. quartz-carbonate veins in the sedimentary and volcanic rocks. These veins range from 1 cm to over 30 cm in width and show good gold values particularly where sphalerite and arsenopyrite are present. A 9-metre section in hole S-4 (1973) assayed 0.587 oz/t Au. Surface sampling of a number of these veins in 1978 and 1979 yielded 0.4 to 0.6 oz/t Au across 10 to 25 cm. 4. Pyrite, pyrrhotite, chalcopyrite and magnetite in small irregular pyrometasomatic replacement masses in limy sediments.