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PRODUCT GOLD PRODUIT	PROVINCE OR PROVINCE OU TERRITORY TERRITOIRE	British Columbia	N.T.S. AREA 93 L/15 RÉGION DU S.N.R.C.	REF.AU 1 <i>RÉF.</i>
NAME OF PROPERTY SK NOM DE LA PROPRIÉTÉ	(GOLD ROCK) (FREE GOLD) (BABINE GOLD), CHANCE	HISTORY OF EXPLORATION AND DEVELOPMENT HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR		
OBJECT LOCATED - adit. OBJET LOCALISEThe property is located at the 4,100 foot elevation on the east side of Dome Mountain, 22 miles east-southeast of Smithers. The Dome Mountain property (93 L/10, AU 1) is located about one mile to the southwest. The Chance group of claims, owned in 1923 by Alex Chisholm and associates, was optioned by the Trites-Wood Syndicate and some exploration work carried out. The location of the Chance group is not known other than that it adjoined the Dome Mountain property.OWNER OR OPERATOR/PROPRIETAIRE OU EXPLOITANTR. R. Sect.The Sect of Comession our and Some exploration work carried out. The location of the Chance group is not known other than that it adjoined the Dome Mountain property. In September 1923 Chisholm discovered and staked the Free Gold showings. No further activity was reported until 1931 when Alex and Angus Chisholm, of Smithers, carried out some work on the Free Gold and Iron Mask claims. The 16 claim property was optioned to the firm of W.R. Wilson and Sons, who incorporated Babine Gold Mines, Limited, in March 1932. A program of under- ground development was begun and continued into 1935. The 				
mately parallel veins and lense striking at an average of north strippings and open-cuts. The zone are a pair from 15 to 45 f up to 3 feet but average 6 to 8 rock contains disseminated sulp foot from the veins. The more 2 vein) has been traced for 750	ke and are sheared in direc- trike. These rocks are bodies of quartz porphyry, eet wide. In general, the ear the porphyry contacts. consisting of several approxi- ts dipping steeply northeast and 45 degrees west, is exposed by most important veins in this eet apart, which vary in width binches. In places the wall- whides for distances up to 1 northerly vein of the pair (No.) feet, and the southern one or 400 feet. A small outcrop of	at Prince Rupert in 194 The claims lapsed a original owner, Alex Ch Smithers. The property 3224, 3684, 3685), incl Privateer Mine, Lim carried out further dri a length of 93 feet wit age grade of 2.2 ounces held the option until 1 Trans-American Mini property in 1947 and ca sampling. The option w Joseph T. Mandy, of 10, 1951, and by an agr interest in the propert company reopened the un	and the ground was restaked is isholm, and Arthur J. Cope, I comprised 8 claims (Record 1 uding the Joe, Sally, Gold Re- nited, optioned the property 3 fting; this work extended on h an average width of 1 foot of gold per ton (uncut). The 946. ng Corporation Limited option rried out trenching, strippin as subsequently given up. Vancouver, optioned the class eement of March 31, 1951, ass	n 1942 by the both of Nos. 3219- ock, Fur, etc. in 1943 and e oreshoot to and an aver- ne company ned the ng, and ims on March signed his ted. The ng and

sampling. Some dump ore was shipped during the year. In 1952 zone. What is called the No. 1 vein is a series of irregular the option was assigned to The Mineral Exploration Corporation north of, and parallel to, the east end of the No. 2 vein. The Limited. Geologist A.P. Beavan, in a January 1953 report for the

see Card 2

see Card 2

Associated minerals or products Silver, lead, zinc. -Minéraux ou produits associés

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lenses of quartz containing a little pyrite, lying 50 feet

Mineral Policy Sector, Department of Energy, Mines and Resources, Ottawa Secteur de la politique minérale, ministère de l'Énergie, des Mines et des Ressources, Ottawa 120070

HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION	REFERENCES/BIBLIOGRAPHIE			
From a shipment of 2.46 tons to the sampling plant at Prince Rupert in 1940, 6 ounces of gold and 7 ounces of silver were recovered.	Lang, A.H.; Houston Map-Area, British Columbia; Paper 40-18, p. 9, Geol. Surv. of Canada, 1941.			
Lake Surprise Mine Limited shipped 3 tons from an old dump in 1951. From this ore 6 ounces of gold, 12 ounces of silver, 120 pounds of lead, and 334 pounds of zinc were recovered. In 1981-82 a total of 5 261 tonnes were milled. From this	p. 113; 1931, p. 74; 1933, p. 98; 1934, p. C 11; 1938, pp. B 15-B 20; 1940, p. 55; 1951, p. 113; 1967, p. 90.			
ore 10 657 g Au, 17 678 g Ag, 1 738 kg Pb and 6 114 kg Zn were recovered.	Gdology, Exploration, and Mining; British Columbia Dept. of Mines: 1972, p. 417; 1977, p. E 196.			
	 Mineral Policy Sector; Corporation Files: "Le Prix Explorations Limited"; "New Privateer Mine Limited"; "The Mineral Exploration Corporation Limited"; "Babine International Resources Ltd."; "Panther Mines Ltd."; "Reako Explorations Ltd.". Kerr, F.A.; Preliminary Report, Mineral Resources Along the Canadian National Railway, Between Prince Rupert and Prince George, British Columbia; Paper 36-20, pp. 112- 115, Geol. Surv. of Canada, 1936. 			
	Lode-gold Developments in British Columbia during 1932; Bulletin No. 3, 1932, p. 16, British Columbia Dept. of Mines, compiled by John D. Galloway.			
MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES Map of Workings, Babine Gold Mines Ltd., Sc. 1":135 ft., Report of Minister of Mines, British Columbia, 1938, p. B 18.	Mines Branch, Ottawa; Investigations in Ore Dressing and Metallurgy, Sept. 1938, unpublished; reproduced in Report of Minister of Mines, British Columbia, 1938, p. B 16.			
Map 69-1, Smithers, Hazelton, and Terrace Areas, (Geological compilation), Sc. 1":4 miles, British Columbia Dept. of Mines.	Price, Barry; Geological Report, Dome Mountain claims, 25/02/80, in Panther Mines Ltd., Statement of Material Facts, 03/10/80.			
#Map 671 A, Houston, (Geol.), Sc. 1":4 miles (1942).	George Cross News Letters, August 13, 1982, No. 155, p. 4;			
Map 5318 G, Driftwood Creek, (Aeromag.), Sc. 1":1 mile.	1982, No. 185; 1986, No. 70. Schroeter, T.G.; West-Central and Northwest British			
*Map 93 L/15, Driftwood Creek, (Topo.), Sc. 1:50,000. Preliminary geology of the Dome Mountain gold camp, Fig. 65, and Detailed Geology of the Free Gold vein, Fig. 70,	Columbia, Lucky Gold (93 L/10 E) in Geological Field Work 1979, British Columbia Paper 1980-1, pp. 125-126,			
Geological Fieldwork, 1985, p. 194.	Geological Fieldwork; British Columbia Dept. of Mines:			
REMARKS/ <i>REMARQUES</i>	1984, p. 207+.			
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PRODUCTCOLD TROVINCE ON TERNITORYDiffish ColumbiaN.T.S.AREA93 L/13REF. AU 1RAME OF PROPERTY MOM DE LA PROPRIFIESK (COLD BOCK) (FREE GOLD) (BATTER GOLD), CRANCEDiffish ColumbiaN.T.S.AREA93 L/13REF. AU 1NAME OF PROPERTY MOM DE LA PROPRIFIESK (COLD BOCK) (FREE GOLD) (BATTER GOLD), CRANCEDiffish ColumbiaN.T.S.AREA93 L/13REF. AU 1NOM DE LA PROPRIFIESK (COLD BOCK) (FREE GOLD) (BATTER GOLD), CRANCEDiffish ColumbiaN.T.S.AREA93 L/13REF. AU 1NO. 4 vein is about 80 feet could of the collapse could be accompany scene privic. Several full to constant 1,670 conses old A. N. 160Statistical Scene could be accompany to contain 1,670 conse sold at 1,670 conse out 4,160 conses and stringers of quarts complete the some as exposed at the surface. An adi the bacing south 40 degrees weet has been diven of 90 feet. Several full veins, lenses, and stringer that may be related to the No. 1 surface exposure were intersected in this difty- but the continuations of the No. 2 and No. 3 veins were not found in this part of the workings. Two steep veins that are probably the continuation of the No. 3 and A surface exposure several to contain to the orthoast for 75 feet, at which point it inter- several a cloal scolar contain to a back and partify in fractured relation to the Not and partify in fractured relation to the surface serves and the several scolar dift and the several contain the several for 75 feet, at which point it inter- several full in a thregulation of the No. 3 vein, as a 70Followed b diffish in an thregulation of the No. 3 vein serveral full in a thregulation of the No. 3 vein, as a 70Followed b diffish in an thregulation of the No. 3 vein,						Card 2 -		~
 An object of property in the set of the se					RÉGION DU S.N.R.C	С.	RÉF.	AU 1
 No. 4 vein is about 80 feet south of, and parallel to, the easiling in 30 sources altery 1.55 foot with, some prite. S verail is up to 8 inches wide, is exposed at far along to 100 sources sold. 1.50 ounces altery. 0.32 lead, and 1.567 zinc (TSE Prosp Oct/55, Mineral Expl Corp L, Beavan, A.P., 24/01/35). Interstanding the source acyosure verse intersection this driver of the workings. Two steeps veins that may be related to this part of the workings. Two steeps veins that way be rolably the continuations of the 0.2 and 0.3 veins were not found in this part of the workings. Two steeps veins that way be rolably the continuations of the 3.4 and 4 surface exposure verse struck 320 feet from the portal; these intersections and of the source and party in an irregular northweaterly direction. The steep veins to the mortheast for 75 feet, at which point it interstation of the odiagness in the steep veins contain up to 8 lonkes wide that was affered volcanic rock and partly in firstured rhyolite. This shipment consisted of 680 powers with the surface waysed: gold 1.50 works and the Surface waysed with a test shipment to the Bureau of Mines, Ottawa, is reported to indicate that the gold occurs as grains in galemand chalcopyrite that occur as minute weinlets in the fractured row in system which has been traced by transfiring along vein 3 to how with the workings below shift 2. Approximately 45 to make of 680 powers 0.15 per cent; subput 10.39 per cent, subput 0.13 per cent, sassays to 15 per cent; subput 0.13 per cent, sassays to the solor differed workings below shift a long by transfirmed or base and shift is reported to make although fair gold assays had been obtnined in the steep weins and the export of the work in the steep veins on the steep weins, and the is steep related to indicate that the gold occurs as grains in galemand chalcopyrite that occur as minute weinlests in the fractured to indicate that the gold occurs as grains in galemand chalcopyrite that occur as minute weinlests in the fractur			-					1
see reverse Card 2 see reverse Card 2	DESCRIPTION OF DEPOSIT/DESCRI No. 4 vein is about 80 feet s end of the No. 3 vein; it is for a length of about 200 fee some pyrite. Several smaller complete the zone as exposed An adit bearing south 40 343 feet, crosscutting the zo Several flat veins, lenses, a to the No. 1 surface exposure but the continuations of the found in this part of the wor probably the continuations of were struck 320 feet from the part of a zone of quartz lens followed by drifting in an ir for about 280 feet. At the f driven to the northeast for 7 sected a quartz vein up to 28 altered volcanic rock and par vein appears to be the contin foot raise inclined 80 degree exposure of the No. 3 vein. The steep veins contain u the form of fine dissemination mineral are minor quantities rite, and chalcopyrite. A mi with a test shipment to the B reported to indicate that the and chalcopyrite that occur a pyrite. This shipment consis underground exposure of the N have assayed: gold 1.78 ounce lead 1.54 per cent; zinc 5.87 arsenic 0.02 per cent; sulphu 8.3 ounces a ton of gold have The flat veins encountere wide and dip less than 20 deg They contain less sulphides ti	PTION DU GISEMENT south of, and parall up to 8 inches wide et, and consists of lenses and stringe at the surface. degrees west has be one at depths up to and stringers that n were intersected No. 2 and No. 3 ver kings. Two steep the 3 A and 4 surf portal; these inter ses up to 10 inches regular northwester ace of the drift a 5 feet, at which po inches wide occurr thy in fractured rh uation of the No. 3 s north connects wi p to about 20 per of ns and banded masse of sphalerite, gale croscopic study mad ureau of Mines, Ott gold occurs as gra s minute veinlets i ted of 680 pounds t is a ton; silver 2.1 per cent; copper (r 10.38 per cent. been reported from d in the adit are u rees, except where han the steep veins	lel to, the east e, is exposed quartz with ers of quartz een dirven for 90 feet. may be related in this drive, ins were not veins that are face exposures ersections form wide that was rly direction crosscut was oint it inter- ring partly in hyolite. This 3 vein, as a 70- ith the surface cent pyrite in es. With this ena, tetrahed- de in connection tawa, is ains in galena in the fractured taken from the is reported to 18 ounces a ton; 0.15 per cent; Assays of up to n dump samples. up to 30 inches rolls occur. s, and the owner obtained in	company, estimated the level (90 ft.), to con grading 1.05 ounces go l.56% zine (TSE Prosp A.P., 24/01/53). Dome Babine Gold M and changed to Dome Ba 64 claims in the SK gr bulldozer trenching, a outside of the main ver reverted to owners A. Amoco Canada Petro 1972 as the E 1-32 and year included geologic survey over 13 line-mi 12.7 line-miles, and a rock survey (370 sampl The showings were Mona claim (20 units); Around 1979, Kryco Gold) property and com Fulton Lake main loggin rehabilitated. The con hookup with the workin tonnes of ore mined in portal (main dump) and stockpiled (new dump) mately 55 metres south are in a number of sma the vein system which over a length of 180 m Kryco Mines restak Repeater 1 & 2 claims and Reako Explorations Trail 325 tons of vein Au/ton and 2.5 ozs Ag/ of dump material at th are 11,600 tons gradi 0.39% Pb and 0.99% Zn Ltd., SMF 162/81). At	No. 3 vein oresho tain 1,670 tons, o 1d, 1.50 ounces si Oct/55, Mineral Ex ines Ltd., incorpo bine Mines Ltd. on oup. Work include nd exploration dia in systems; the c1 Cole and M. Mesich leum Company Ltd. Gold Rock 1-6 cla al mapping, an ind les, a ground magn geochemical silt, es) covering all c held in 1976-77 by trenching was rep Mines Ltd. acquir structed a 2.5 km ng road and the ol mpany continued dr gs below shaft 2. the 1930's are st another 45 tonnes from a surface exp of the portal. A 11 dumps along the has been traced by etres. ed the Lucky Gold and were optioned Ltd. In 1980, th material reported ton. There are an e portal of the Fr ng 0.62 ozs Au/ton in the No. 3 & 4 v this time the mai d. During 1981 Pa	ot, above t ver a 1.55 lver, 0.8% pl Corp L, orated July July 20, 1 d a geochem mond drilli aims subseq held the pr ims. Work uced polari etometer su soil, wate laims. Paul Plick orted. ed the Luck access road d workings fifting alon Approximat ockpiled ou broken in osure locat nother 45 t surface ex trenches a l-6 claims by Panther ere were sh ly averagin estimated ce Gold adi a, 0.78 ozs reins. (Pan n quartz ve	he drift foot wid lead, an Beavan, 7, 1967 967 opt: ical sum ng, main uently operty i during i zation rvey over r, and a as the g vein i ely 45 tside th 1979? we ed appro- o 91 tor pression nd shaft in the Mines La ipped to g 1.02 to t. The Ag/ton, ther Min	dth, nd ioned rvey, nly in the er e (Free he 3 to he ere oxi- nnes n of ts td. o ozs ons re nes e

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT (continued)

places, the average was low. These veins show only a slight tendency to penetrate the porphyry, suggesting that they were formed before the porphyry was fractured; some may even antedate the intrusion of the porphyry.

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

drilled 7 holes totalling 3,025 feet and a 50 ton per day portable concentrator was operating intermittently; In a period in October 1981, it was processing 70 tons per day. Panther and Reako purchased Kryco Mines in 1981 or 1982. In the milling operations the flotation concentrate averaged 4.5 ozs Au/ton, 9.5 ozs Ag/ton, 0.44% Cu, 2.95% Pb and 10.24% Zn while the jig concentrate of about $\frac{1}{4}$ ton average, 117.7 ozs Au, 23 ozs Ag, 0.16% Cu, 6.5% Pb and 3.48% Zn. In August 1982, open cut mining of a zone 10 feet wide, 25 feet deep and 250 feet long was being done with values ranging between 0.10 to 7.20 ozs Au/ton, 0.20 to 17.32 ozs Ag/ton.

Panther Mines Ltd optioned the property from Lorne Warren in 1980 and subsequently entered into a 50-50 joint venture with Reako Explorations Ltd. Work in 1981 included 3,250' of diamond drilling in 7 holes, 5,625' of percussion drilling in 225 holes, a survey of 1,200' of underground workings, and trenching; some 12,000 tons were mined from one of the trenches. A 100 tons per day portable mill was installed some 10 km northwest of the property and operated in the fall of 1981 and in July-October 1982, milling approximately 8,000 tons.

Noranda Exploration Company, Limited optioned the property from Panther and Reako in April 1986.