s / i	091757	April 4 4/72
2 year	021/07	FOR DEPARTMENTAL USE ONLY
		Prop. No. 200 on Fig. 4 G
MINERALOGICAL BRANCH, DEPARTMENT VICTORIA, BRIT	OF MINES AND	PETROLEUM RESOURCES
SUMMARY OF EXPLORATION PERFORME NON-PRODUCI	I AND DEVELO D IN 1971 NG PROPERTIES	PMENT WORK
This return is designed to provide data for long-term compilations department. Confidential information is not solicited.	of the mineral industry	, and will be on permanent file with the
Please complete as soon as possible and mail, in the enclosed self-add	iressed envelope, not later	r than January 15th.
NOTE A SMALL SKETCH-MAP GREATLY EN	HANCES THE VALUE	OF THE INFORMATION.
Exploration work done in 1971? Yes 街 No 🗔		
Property name -ALLENDALE LAKE LYNX -	LATE	
Is it an old showing? Yes Former name(s)		
Osoyoos and Greenwood	1	
49 23 119 21-2.4	821/1	5 h z
Lat. 49 . 23, Long. 119 . 21 , N.T.S. Map Sheet (e.g., 82N/9E)	- 11 1 20.
LocalityTWelve miles east of Okanagar	1 Falls Czz	allindaly LSP
	Approx. altitude of st	howings6000'
Total number and names of claims held LYNX 1-31; BI	JSH 1 and 2; 7	TED 1-15; OTTER 1-20;
BONANZA 1-32	CLATE,*	1-4): aici
	1 2 2	
Access-From Okanagan Falls By Road	1r	Distance 12 miles
Owner of claims Bonanza Claims owned by S various local prospectors	Selco Explorat	tion; others owned by
Principal (company paying for the work) Selco Exp	ploration Co.	Ltd.
Mailing address 55 Yonge Street, 6th Flo	or, TORONTO]	1, Ontario.
Is property optioned? Yes	Under agreement?	Yes
ESSENTIAL GEOLOGY		
Important metals present		
Brief geological description (i.e., mineralogy, type of deposit, h	ost rock, alteration, etc.).	
Scattered disseminated chalcon	wite in Sveni	ite plug
	<u></u>	LLE
Die allached		
FOR DEPARTMEN	ITAL USE ONLY	
a.		
Work supervised by I.G.L. Sinclair	Position Ge	eologist
Previous work done when? 1966 & 1968 By w	hom? General F	Resources Ltd., Gunnex Ltd.
TOPOGRAPHICAL AND LEGAL SURVEYS MADE IN 1971		
Claim survey? Topo. map?		Scale
Surface workings surveyed?		Scale
		Carla
Underground workings surveyed?		Judie

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COMPANY	GEOLOGIST	NAMES OF	CLAIMS MAPPED	TICTO	
tokes Exploration P. An	nderson	All of	the claims	1"	Ellis
anagement Co. Ltd.					
UNDERGROUND					
HEMICAL WORK DONE IN 1971				```	
METHOD AND BY WHOM		NAMES OF CLAIM	S COVERED		
oil Sampling by Selco		TÀUX GLO	<u>up</u>	100 Sampres	5
xploration Co. Ltd.					
HYSICAL WORK DONE IN 1971					а 2 с
METHOD AND BY WHOM		NAMES OF CLAIM	S COVERED	NO_OF_SAMPLES	2
I.P. survey by Seigel As	sociates	Lynx Gro	up	8 miles	
	LOCATION				
S OF ROAD CONSTRUCTED	LUCATION				
ACE WORK DONE IN 1971					
Trenching, total footage		ich claim(s)?			
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Stripping, total area	On wh	ich claim(s)?		•	• • •
Stripping, total area	On wh	ich claim(s)?		•	
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⁹ polarization survey in the vicinity of the main showings.s10I and +4pts,

0 jPHYSIOGRAPHY:sM,,,The area is in the Okanagan Highland physiographic subdivision

TAPE NO2	8 REF. NO. 02 PRECON INITIALS
1 1LYNX, LATE,,,,	,,(No. 108, Fig. G)s8M and roll back,
2 rm480,By N. B. (Churchs10M and +4pts,
3 1LOCATION:	Lat. 49! 23' Long. 119! 20.4'sroll back,
4 rm420,(82E/6W)	
5 o	OSOYOOS and GREENWOOD M.D.,,,At approximately 6,000 feet
6	elevation on Allendale Lake, 12 miles northeast of Okanagan
7	Falls.
8 oCLAIMS:	LYNX 1 to 31, LATE 1 to 4, BUSH 1 and 2, TED 1 to 15,
9	OTTER 1 to 20, BONANZA 1 to 32.
0 oACCESS:	By road from Okanagan Falls, 12 miles.
1 oOPERATOR:	SELCO EXPLORATION COMPANY LIMITED, 6th Floor, 55 Yonge Street,
2	Toronto 1, Ont.
3 oMETAL:	Copper.
4 oDESCRIPTION:s10)I and +4pts,
5 jINTRODUCTION:sN	4,,,,This report is intended as a review of an interesting copper
6 prospect recent	y discovered in a young Coryell-type stock located 10 miles northeast
7 of Okanagan Fall	ls near Allendale Lake.s+4pts,
8 jThe geological	and mineralogical observatons which form the basis of this study
9 were made during	g a one-week visit to the area by the writer in June 1971.s10I and +4pts
0 jHISTORY:SM,,,,S	Scattered copper mineralization was discovered by R.,W. McLean in
1 1966 on the hill	immediately west of Allendale Lake in the area now included in the
2 Lynx-Late claim	block (Fig. ,,,,). After some preliminary prospecting and sampling
3 by McLean and hi	is partner K.,G. Ewers, the property was optioned to General Resources
4 Ltd. who reported	edly spent \$25,000 mainly in construction of access roads and bulldozer
5 trenching. Gunne	ex Limited acquired an option on the property in 1968 and completed
6 detailed geocher	nical and magnetometer surveys. After a short period of inactivity

7 in the area, Selco Exploration Company Limited optioned the property in late 1971,

O jPHYSIOGRAPHY:sM,,,,The area is in the Okanagan Highland physiographic subdivision

8 and began an exploration programme with geochemical silt sampling and an induced

9 polarization survey in the vicinity of the main showings.s101 and +4pts,

TAPE NO.	REF. NO	PRECON	INITIALS
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1 of Southern British Columbia, on the Okanagan Valley-Kettle River drainage divide.

2 The region is characterized by a glacially carved rolling landscape surmounted by a 3 few isolated crags.s+4pts,

9 jSouthwesterly moving Pleistocene glaciers were responsible for the erosion of O the broad U-shaped valleys found in the region, such as the one occupied by the most 1 westerly of the Clark Lakes in the west part of the map-area. The mean glacial striae 2 direction was found to be 208 degrees. In typical crag-and-tail fashion, the low 3 rounded hills in the vicinity of the most easterly of the Clark Lakes are strung out 4 on the lee side of the central mountain mass, a glacially resistant syenite stock.s+4pts, 5 jExcept for a small area of sandy glacial outwash and eskers immediately west and 6 northwest of Allendale Lake, the valleys and lower slopes are filled with coarse 7 boulder till. Good bedrock exposures are found mainly on the ridge tops.s+4pts, 8 jThe area is timbered with mature pine. Northwood Mills Ltd., a subsidiary of Noranda 9 Mines, Limited, is currently constructing a truck road through the region to connect O several logging operations with the company's saw mill at Okanagan Falls.s+4pts, 1 jOwing to dry summer conditions in the Okanagan Valley, many small lakes have been 2 dammed for irrigation control. Some of these, such as Allendale Lake, are stocked 3 with trout and are readily accessible to the general public by a network of gravel 4 and dirt roads.s101 and +4pts,

5 jGENERAL GEOLOGY:sM,,,,The geology of the area features at least three main lithological 6 units and a unique structural setting. A small Coryell-type stock is intruded at an 7 apparent point of structural weakness at the junction of the pre-Permian Shuswap 8 gneiss complex and Mesozoic Nelson and Valhalla granitic batholiths. These units 9 crop out on or near the Lynx-Late claim block except for the Nelson granite which 0 is exposed to the west on Mount Christie (Little, 1961).s10I and +4pts,

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1 jThe Shuswap Metamorphic Rocks:sM,,,,The Shuswap rocks are found in the area north 2 of Shuttleworth Creek near the Clark Lakes. Typically the formation is medium grained 3 with alternate layers composed of light-coloured granite gneiss and darker 4 ferromagnesian-rich zones. The layers are generally gently dipping, however, 5 contortions, complex refolds, and augen structures are locally conspicuous. Pegmatite 6 dykes and segregations form a minor part of the formation.s+4pts, 7 jMicroscopically the gneissic units consist of subhedral quartz and plagioclase averaging 2 to 3 millimetres in diameter with scattered interstitial biotite, 8 9 small patches of myrmekite, and irregular ragged concentrations of biotite and green 0 amphibole. The remainder of the rock consists of accessory magnetite, apatite, and sphene, and, less commonly, zoisite. K-feldspar is also accessory and is usually 1 associated with quartz-rich segregations. Locally the rocks display cataclastic 2 textures and evidence of retrograde metamorphism, such as chloritization of the 3 4 ferromagnesian minerals.s10I and +4pts,

jThe Valhalla Intrusion:sM,,,,The so-called Valhalla granitic rocks are found to 5 the north and south of Allendale Lake, near the east boundary of the map-area. These 6 7 are leucocratic, foliated, and fine to medium grained. The rocks display both 8 porphyritic and granoblastic textures with evidence of some crushing and mineral 9 alignment due to cataclasis. Examination of four thin sections shows an average of 0 40 per cent quartz and 50 per cent feldspar; the accessory minerals are amphibole, 1 biotite, magnetite, apatite, sphene, and allanite, in order of decreasing abundance. 2 Phenocrysts of orthoclase are scattered sparingly throughout the rock; these measure 3 up to 6 millimetres in length and usually carry a few small plagioclase inclusions.s10 4 I and +4pts,

5 jThe Coryell Intrusion:sM,,,,The Coryell intrusion is a small stock occupying much 6 of the east central part of the map-area. According to Little (1961) this body is 7 a satellite of the main Coryell batholith centred in the Rossland area to the east. 8 These rocks are typically alkaline and are probably co-magmatic with some of the 9 Early Tertiary volcanic deposits of south central British Columbia (Fig. ,,,,). 0 Various phases of the Coryell batholith were dated by Baadsgaard, sI, et al., sM, (1961)

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1	yielding ages of 54 and 58 million years, and more recently similar ages were obtained
2	from the Rossland area by Fyles (personal communication).s+4pts,
3	jThe Coryell body found in the map-area is somewhat elongated and kidney-shaped
4	measuring about 3 miles between the north and south contacts and 1.5 miles in width.
5	The intrusion comprises syenite, monzonite, and shonkinitic phases.s+4pts,
6	jThe main phase of the intrusion is biotite-pyroxene monzonite. Typically the rock
7	is porphyritic consisting of a spongy framework of chunky alkali feldspar phenocrysts,
8	1 to 2 centimetres in diameter, with finer grained dark ferromagnesian minerals in
9	the interstices. In polished sections the large feldspar crystals are commonly
0	smoky grey, often having a bluish iridescence; small feldspar grains and the margins of
1	some phenocrysts tend to be milky or cream coloured.s+4pts,
2	jDetailed examination of numerous thin sections shows that most of the feldspar is
3	thermally re-ordered, resulting in exsolution of albite and relatively pure orthoclase
4	blebs from large plates of alkali feldspar. The typical perthitic bleb and antiperthitic
5	checkerboard textures have evidently formed from the unmixing of solitary crystals of
6	high temperature orthoclase and zoned orthoclase-anorthoclase individuals.s+4pts,
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1 jThe interstitial mafic minerals constitute only about 10 or 15 per cent of the rock, 2 the rest being alkali feldspar. Green diopsidic augite and fresh brown biotite are 3 present in about equal amounts as single grains or, more commonly, in aggregates with 4 apatite, magnetite, and sphene. These minerals range from 1 to 6 millimetres in 5 diameter.s+4pts,

6 jThe chemical analysis of a representative sample of this rock is comparable with 7 Daly's analysis of the Coryell intrusion near Rossland (Nos. 1 and 2 in the 8 accompanying table of chemical analyses). Of special note, the lime and magnesia 9 content of these rocks is low whereas soda and potash is high. Calculations show that 0 the rocks are undersaturated in silica resulting in normative olivine and some 1 nepheline. Since olivine and nepheline are found in thin sections it seems most 2 likely that the silica deficiency is taken up by the biotite. Also, it is noted that 3 the general absence of non-perthitic plagioclase is in keeping with the very low 4 normative anorthite content of these rocks.s+4pts,

5 jThe syenitic phase of the intrusion is in small pockets in the monzonite. Although 6 no analyses are available, the chemical composition of this rock is probably similar 7 to the phonolites of the White Lake basin (analysis No. 3). Characteristically both 8 the syenite and phonolite contain distinctive rhomb-shaped anorthoclase phenocrysts 9 (Plate ,,,, and Geology, Exploration, and Mining in British Columbia, 1970, p. 0 396).s+4pts,

1 jA shonkinitic contact phase is exposed along the west and southwest margins of the 2 intrusion where it possibly forms a continuous zone ranging from several hundred to 3 a few thousand feet wide. This phase is relatively enriched in ferromagnesian 4 minerals; it is probably a basic differentiate of the monzonite. The rock is medium 5 grained composed essentially of intermixed anorthoclase or orthoclase perthite, about 6 80 per cent, and pyroxene, about 15 per cent. Microscopic examination shows that 7 biotite and hornblende are accessory occurring in clots with pyroxene, magnetite, and 8 apatite, or as poikilitic inclusions in large augite grains. Small grains of partly 9 altered nepheline, 1 to one-half millimetre in diameter, are disseminated sparingly 0 throughout the rock and in places form inclusions in anorthoclase crystals.s+4pts,

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1 jPegmatite dykes cut the syenitic and monzonite phases in the north, east central, and 2 south parts of the stock. In contrast with the host rock, the pegmatite is quartz-rich 3 and much of the feldspar consists of very coarse albite; the main ferromagnesian 4 minerals are biotite and actinolite. Sphene, allanite, and magnetite are accessory 5 minerals found as disseminations or in small clusters.s10I and +4pts, 6 jSTRUCTURE:sM,,,,As previously indicated, the Coryell stock is intruded at the 7 three-way contact of the Nelson granite, Valhalla granite, and Shuswap metamorphic 8 complex. This junction of major units was evidently a weak point - possibly a focal 9 point of major fractures which may have facilitated emplacement of the young stock.s+4pts, 0 jThe results of a statistical study of fractures and lineaments are shown on Figure ,,,,. 1 On the basis of 75 measurements the main fractures within the Coyrell stock have a mean 2 attitude of 035 degrees dipping 80 degrees southeast. Strong subsidiary fractures 3 strike about 065 degrees dipping 55 degrees northwest and two weaker sets are noted 4 striking roughly 010 degrees dipping 55 degrees northwest and 135 degrees vertical.s+4pts, topographic -5 jAlthough a wide range of optographic lineaments are observed on airphotos of the 6 region, the only strongly developed trend lies between 010 and 040 degrees. This is 7 probably largely the expression of glacial striations (028 degrees), however, there is 8 a coincidence of lineaments with the strong northeasterly developed fracture system 9 as well as the weaker northerly trending set. The southeasterly trending fractures **0** and the ones striking between 060 and 070 degrees have apparently little topographic 1 expression. It seems possible that these are simply short cross-fractures which are ² not readily recognized as lineaments owing to limitations in photographic resolution.s101 3 and +4pts.

4 jMINERALIZATION:sM,,,,Mineralization within the Coryell stock is varied and widely 5 scattered, consisting mainly of sulphide replacements in xenoliths and disseminations 6 in the host monzonite. Although no economic deposit has been discovered, these 7 occurrences are unusual and warrant some detailed description.s+4pts, ⁸ jThe petrography of the main phases of the Coryell intrusion, outlined above, leaves 9 little doubt that these rocks are hypersolvus - that is, the original magma was 0 intruded at high temperature, perhaps as high as 900 degrees centigrade. Rapid

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1 cooling and dispersal of volatiles allowed preservation of the perthitic feldspars
2 that characterize these rocks.s+4pts,

3 jIt is believed that this early migration of volatiles within the intrusion resulted in 4 the mineralization of the xenoliths. Metalliferous solutions trapped interstitially 5 in the crystal mush of the solidifying magma is possibly responsible for the 6 disseminated sulphide deposits.s+4pts,

7 jThe effect of the Coryell intrusion on the surrounding country rocks, including the 8 possibilities of sulphide replacements, is largely unknown because of poor bedrock 9 exposure.s10I and +4pts,

0 jMineralized Xenoliths:sM,,,,Xenoliths are locally abundant, forming clusters of small 1 fragments or occurring as isolated blocks; they range from a few feet up to 30 feet 2 long. Rounded, partially assimilated aplitic fragments are most common, however angular 3 blocks of dark refractory gneiss are also present (Plate ,,,,). The source of this 4 foreign debris appears to have been the Valhalla and Shuswap rocks which form the main 5 walls of the stock.s+4pts,

6 jThe most digested aplitic xenoliths are best mineralized. These are stained with 7 malachite and azurite; internally they are commonly charged with blebs of bornite 8 and chalcocite (Plate ,,,,).s+4pts,

9 jAt station 'A,' shown on the accompanying map, mineralized xenoliths in syenite and 0 monzonite are exposed over a length of about 200 feet. According to a company report 1 the best sample from this area contained 0.75 per cent copper and 0.6 ounce per ton 2 silver across 33 feet; other samples taken nearby contained much less copper. A 3 well-mineralized grab sample collected by the writer from the same area contained 4 2.42 per cent copper, 0.6 ounce per ton silver, and 3.60 per cent iron.s+4pts, 5 jElsewhere some xenoliths are simply pyritized with no sign of copper.s10I and +4pts, 6 jDisseminated Mineralization:sM,,,,Much of the prospecting in the area has been 7 directed toward discovery of large tonnage disseminated copper sulphide deposits, the 8 xenolith-type mineralization being considered only as an indication of a favourable 9 geological environment.s+4pts,

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1 jAt station 'B' shown on the accompanying map, chalcopyrite, and to less extent
2 bornite, are interstitial to large feldspar crystals in the monzonite. The sulphides
3 are distributed over several hundred square feet in concentrations ranging to 2 or 3
4 per cent of the rock. Close examination of polished samples; hows that chalcopyrite
5 is sometimes associated with magnetite and replaces the ferromagnesian silicates,
6 forming grains usually less than 3 millimetres long. Also very small specks of
7 chalcopyrite are visible along hairline cracks peripheral to large feldspar
8 phenocrysts. (Plate ,,,,).s+4pts,

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9 jA typical well-mineralized sample of this rock submitted for assay shows 0.48 0 per cent copper, 0.2 ounce per ton silver, and 3.52 per cent iron.s10I and +4pts, 1 jSilt Geochemistry:sM,,,,Four silt samples were taken from streams draining the main 2 showings and the east part of the Coryell stock. Analyses yielded unexpectedly low 3 results with a range of 30 to 62 ppm copper. These low results are possibly due to 4 a masking effect of thick till deposits in the valleys.s+4pts,

5 oWORK DONE: Surface geological mapping, 1 inch equals 1,200 feet covering all 6 claims; geochemical soil survey, 150 samples covering Lynx claims; 7 induced polarization survey, 8 line-miles covering Lynx claims. 8 oreferences: Baadsgaard, H., Folinsbee, R. E., and Lipson, J., 1961, sI, Geol. 9 Soc. America, sM, Bull., Vol. 72, No. 5, pp. 689-701; Church, 0 B., N., sI, B.C. Dept. of Mines & Pet. Res., sM, G.E.M., 1970, 1 pp. 396-402; Daly, R., A., 1912, sI, Geol. Surv., Canada, sM, 2 Mem. 38; Little, H. W., sI, Geol. Surv., Canada, sM, Map 15-1961; 3 Mem. 308;sI, Minister of Mines, B.C.,sM, Ann. Rept., 1968, p. 217; 4 Assessment Reports 1741, 2363, 3481.s10B,

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