

Location/Identification								
MINFILE Number:	082ESE022	National N	lineral Inventory Number: 082E2 Cu2					
Name(s):	<u>AETNA (L.978)</u>							
	PHOENIX MINE							
Status:	Past Producer		Mining Division:	Greenwood				
Mining Method	Underground, Open Pit		Electoral District:	Boundary-Similkameen				
Regions:			Resource District:	Selkirk Natural Resource District				
BCGS Map:	082E008							
NTS Map:	082E02E		UTM Zone:	11 (NAD 83)				
Latitude:	49 05 35 N		Northing:	5439027				
Longitude:	118 35 46 W		Easting:	383476				
Elevation:	1319 metres							
Location Accuracy:	Within 500M Part of the Phoenix mine. The Phoenix nit now covers the Knob Hill (082ESE020). Old Ironsides (082ESE021). Astro-							
Comments:	Part of the Phoenix mine. The Phoenix pit now covers the Knob Hill (082ESE020), Old Ironsides (082ESE021), Aetna (082ESE022) and Victoria (082ESE023) claims (EMPR Paper 1986-2, Figure 16). Shaft location is on GSC Map 16A.							
		with Phoenix (Knob Hill).	1900 2, 1 igure 10). Sin					
Mineral Occurrence								
Commodities:	Copper, Gold, Silver							
commountes:	coppen, cond, shire							
Minerals	Significant: Chalcopyrite, Pyrite, Magnetite, Gold							
	Associated: Quartz, Epidote, Garnet, Chlorite, Amphibole, Specularite, Hematite							
	Mineralization Age:	Jurassic-Cretaceous						
Deposit	Character:	Massive, Disseminated						
	Classification:	Skarn, Replacement						
	Туре:							
		Host Rock						
Dominant Host Roc	k: Sedimentary							
Stratigraphic Age	Group	Formation	0	eous/Metamorphic/Other				
Triassic	Brooklyn	Unnamed/Unknown Fo	rmation					
Isotopic Age		Dating Method		Material Dated				
Lithology: Limestone, Sharpstone Conglomerate, Argillite, Tuff, Greenstone								
Tectonic Belt:	Geological Setting Omineca Physiographic Area: Okanagan Highland							
	Quesnel, Plutonic R	Physiographic Area	CKanagan	1 Hgmand				
Terrane:	Quesnel, Plutonic R	LOCKS						
Inventory								
No inventory data								
No inventory data								

The Aetna claim (Lot 978) is on the south part of the Phoenix pit (082ESE020), immediately south of the Victoria claim (082ESE023) and east of the Knob Hill claim (082ESE020). The Old Ironsides (082ESE021) lies to the northwest. The Aetna was Crown granted to C.E. Galt in 1898.

Production is included with the Phoenix.

Systematic development, consisting of an extensive system of tunnels and stopes, began in 1895 and comprised three adit levels on the Old Ironsides and Knob Hill claims. To the east, five levels, serviced in part by the Victoria shaft, were developed on the Victoria and Aetna claims.

The area is underlain by chert, cherty argillite, greenstone and a minor amount of limestone of the Upper Paleozoic Knob Hill Group. These rocks are unconformably overlain by limestone, sharpstone conglomerate, argillite and Eholt volcanics of the Triassic Brooklyn Group. Copper ore occurs in mineralized areas of the Brooklyn limestone, which have all the characteristics of metasomatic replacements. These replacements are composed essentially of chlorite-epidote skarn rocks with variable amounts of garnet, calcite and quartz, accompanied by blebs and disseminations of pyrite, chalcopyrite, magnetite and specularite.

The main ore body outcrops on the Old Ironsides and Knob Hill claims; in its downward and eastward extension it passes into the Victoria and Aetna claims. See Phoenix for additional details on development, geology and mineralization.

Bibliography

			Bioliography							
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1965-170; 1966-194; 1967-227; 1968-231										
EMPR BULL 101, p. 236										
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EMPR MR MAP 6 (1932)										
EMPR OF 1990-25										
EMPR P 1986-2; 1989-3, pp. 41-43, 99										
EMPR PF (See Phoenix 082ESE020)										
EMPR PRELIM MAP 59										
GSC MAP *16A; 828; 45-20A; 6-1957; 10-1967; 1500A; 1736A										
GSC MEM *21 pp. 71-74, 15										
GSC OF 481; 637; 1969										
GSC P 45-20A; 67-42; 79-29										
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750352, 812143, 812144, 812145, 812216, 886347, 886348										
Date Coded:	1985/07/24	Coded By:	BC Geological Survey (BCGS)	Field Check:	Y					
Date Revised:	2020/07/22	Revised By:	Karl A. Flower (KAF)	Field Check:	Y					