

### Location/Identification

<b>MINFILE Number:</b>	082ESE018	<b>National Mineral Inventory Number:</b>	082E2 Cu2
<b>Name(s):</b>	<b><u>GREY EAGLE (L.793)</u></b> PHOENIX MINE, GRAY EAGLE		
<b>Status:</b>	Past Producer	<b>Mining Division:</b>	Greenwood
<b>Mining Method</b>	Open Pit	<b>Electoral District:</b>	Boundary-Similkameen
<b>Regions:</b>		<b>Resource District:</b>	Selkirk Natural Resource District
<b>BCGS Map:</b>	082E008		
<b>NTS Map:</b>	082E02E	<b>UTM Zone:</b>	11 (NAD 83)
<b>Latitude:</b>	49 05 19 N	<b>Northing:</b>	5438536
<b>Longitude:</b>	118 35 53 W	<b>Easting:</b>	383324
<b>Elevation:</b>	1343 metres		
<b>Location Accuracy:</b>	Within 500M		
<b>Comments:</b>	Part of the Phoenix Mine. The claim is located 800 metres south of the Phoenix pit (082ESE020). Pits are located on GSC Map 16A and Figure 16, EMPR Paper 1986-2. Production in 1916 is included with Phoenix.		

### Mineral Occurrence

<b>Commodities:</b>	Copper, Iron, Gold, Silver		
<b>Minerals</b>	<b>Significant:</b>	Chalcopyrite, Magnetite, Pyrite	
	<b>Associated:</b>	Garnet, Hematite, Specularite	
	<b>Mineralization Age:</b>	Triassic	
<b>Deposit</b>	<b>Character:</b>	Massive, Disseminated	
	<b>Classification:</b>	Skarn, Replacement	
	<b>Type:</b>	K03: Fe skarn, K01: Cu skarn	

### Host Rock

<b>Dominant Host Rock:</b>	Sedimentary		
<b>Stratigraphic Age</b>	<b>Group</b>	<b>Formation</b>	<b>Igneous/Metamorphic/Other</b>
Triassic	Brooklyn	Unnamed/Unknown Formation	-----
<b>Isotopic Age</b>	<b>Dating Method</b>	<b>Material Dated</b>	
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**Lithology:** Sharpstone Conglomerate, Limestone, Siltstone, Tuff

### Geological Setting

<b>Tectonic Belt:</b>	Omineca	<b>Physiographic Area:</b>	Okanagan Highland
<b>Terrane:</b>	Quesnel, Plutonic Rocks		

### Inventory

No inventory data

### Capsule Geology

The Grey Eagle claim (Lot 793) is located 800 metres south of the Phoenix pit (082ESE020). It adjoins the Knob Hill claim to the northwest, the Aetna (082ESE022) to the north and the War Eagle claim (082ESE019) to the east. The claim was Crown granted to J.P. Graves in 1899.

Prior to 1912, the ore body was diamond drilled and developed by open cuts and stripping which exposed a body of magnetite as much as 10 metres thick with a lateral extent of more than 370 square metres. In 1916, the ore body, which was opened up by No. 2 Tunnel, amounted to 45,360 tonnes, running 0.2 per cent copper, 36 per cent iron and 0.7 gram per tonne gold (Annual Report 1916, page 259).

The magnetite occurs in flat lying sharpstone conglomerate of the Triassic Brooklyn Group. The ore is dense, massive magnetite containing disseminated grains of pyrite and a small amount of chalcopyrite. It is similar to the upper ores on the Knob Hill and Ironsides claims which have an 'iron cap'. Garnet in masses and as solitary crystals occurs as inclusions in the ore. Owing to the small size of the ore body and the small copper content, there has been no sustained mining of this deposit.

See Phoenix for additional details on development, geology and mineralization in the area.

**Bibliography**

EMPR AEROMAG MAP 8497G  
EMPR AR 1894 - map after 758; 1897-593; 1899-849; 1900-876-877;  
1902-177; \*1916-258-259; 1917-202; 1929-257; 1967-231  
EMPR BULL 101, p. 235  
EMPR GEM 1970-428, 1971-375, 1972-36, 1973-39, 1974-34-35  
EMPR MR MAP 6 (1932)  
EMPR OF 1990-25  
EMPR P 1986-2; 1989-3, pp. 41-43, 99  
EMPR PRELIM MAP 59  
GSC MAP \*16A; 828; 45-20A; 6-1957; 10-1967; 1500A; 1736A  
GSC MEM \*21, pp. 54,71-74  
GSC OF 481; 637; 1969  
GSC P 45-20A; 67-42; 79-29  
GSC SUM RPT 1902, pp. 90-116  
CIM Transactions Vol. 5 (1902), pp. 365-378; Vol. 59 (1956), pp.  
384-394  
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Cowley, P. (2017-06-02): Updated Preliminary Economic Assessment on  
the Greenwood Precious Metals Project  
EMPR PFD 1018, 812143, 812144, 812145, 812216, 886347, 886348, 886349, 887215, 801935, 21759, 21780

<b>Date Coded:</b>	1985/07/24	<b>Coded By:</b>	BC Geological Survey (BCGS)	<b>Field Check:</b>	Y
<b>Date Revised:</b>	2020/07/22	<b>Revised By:</b>	Karl A. Flower (KAF)	<b>Field Check:</b>	Y