



MINFILE Detail Report
BC Geological Survey
Ministry of Energy, Mines and Petroleum Resources

Location/Identification

MINFILE Number:	092HNE022	National Mineral Inventory Number:	029H10 Au7
Name(s):	<u>EL ALAMEIN</u> WILDCAT, BRITTON		
Status:	Past Producer	Mining Division:	Similkameen
Mining Method	Underground	Electoral District:	Yale-Lillooet
Regions:	British Columbia	Resource District:	Cascades Forest District
BCGS Map:	092H056		
NTS Map:	092H10W	UTM Zone:	10 (NAD 83)
Latitude:	49 32 22 N	Northings:	5489668
Longitude:	120 50 23 W	Easting:	656289
Elevation:	838 metres		
Location Accuracy:	Within 500M		
Comments:	Adit on the south bank of the Tulameen River, 220 metres east- southeast of the mouth of Lawless Creek and 5.5 kilometres west-southwest of the town of Tulameen (Minister of Mines Annual Report 1960, Figure 5).		

Mineral Occurrence

Commodities:	Gold, Silver, Copper		
Minerals	Significant:	Gold, Pyrite, Chalcopyrite	
	Associated:	Calcite, Quartz	
	Alteration:	Actinolite, Sericite, Carbonate, Chlorite	
	Alteration Type:	Sericitic, Carbonate, Chloritic	
	Mineralization Age:	Unknown	
Deposit	Character:	Shear, Stockwork, Vein, Disseminated	
	Classification:	Hydrothermal, Epigenetic	
	Type:	I02: Intrusion-related Au pyrrhotite veins	
	Shape:	Bladed	
	Dimension:	850x190x9 metres	Strike/Dip: 120/62S
	Comments:	Shear zone.	

Host Rock

Dominant Host Rock:	Metavolcanic		
Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Nicola	Undefined Formation	-----
Isotopic Age	Dating Method	Material Dated	
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Lithology:	Greenstone, Argillite, Rhyolite Porphyry, Hornblende Diorite Dike, Greywacke		

Geological Setting

Tectonic Belt:	Intermontane	Physiographic Area:	Thompson Plateau
Terrane:	Quesnel		
Metamorphic Type:	Regional		
Grade:	Greenschist		

Inventory

Ore Zone: ADIT
Category: Assay/analysis

Year: 1949
Report On: N
NI 43-101: N

Sample Type: Chip

Commodity	Grade
Silver	21.0000 grams per tonne
Gold	96.7000 grams per tonne

Comments: Across 1.2 metres.

Reference: Minister of Mines Annual Report 1949, page 129.

Summary Production

		Metric	Imperial
	Mined:	1 tonnes	1 tons
	Milled:	1 tonnes	1 tons
Recovery	Gold	6,252 grams	201 ounces
	Silver	778 grams	25 ounces

Capsule Geology

The El Alamein mine is situated on the south bank of the Tulameen River, 200 metres east-southeast of the mouth of Lawless Creek and 5.5 kilometres west-southwest of the town of Tulameen.

The Tulameen River valley, in this vicinity, is underlain by greenstone (chlorite schist) with lesser felsic volcanics and minor interbedded sediments of the Upper Triassic Nicola Group. These rocks strike northwest, dip steeply southwest and are regionally metamorphosed up to greenschist facies.

The mine is developed in a shear zone up to 9 metres wide, striking 120 degrees and dipping 60 to 65 degrees southwest. The zone roughly follows the contact between argillite to the northeast and rhyolite porphyry to the southwest. It has been traced southeasterly from the river bank up the north slope of Olivine Mountain for 850 metres, over a vertical elevation of 190 metres. The northwestern part of the zone is hosted in a hornblende diorite dike, 6 metres wide, which also occurs in the hangingwall of the shear farther southeast. The dike-hosted section of the zone is 1.2 to 2.4 metres wide.

Hostrocks are variably altered in the shear zone. The footwall argillite and interbedded greywackes are only slightly altered, while the hornblende diorite and rhyolite porphyry are significantly altered. Moderately sheared material contains sericite, carbonate and chlorite, while intensely sheared material consists entirely of actinolite.

The zone contains narrow stringers of calcite and quartz erratically mineralized with native gold. The stringers are 2.5 to 15 centimetres wide and from 0.3 to 1 metre long. One set of stringers strikes northeast and dips 60 degrees southwest, and a second set strikes northwest and dips 45 degrees northeast. Gold is present in a section of the shear zone extending southeast from the river bank for 23 metres. The gold occurs as crenulated layers and discontinuous wisps well within calcite-quartz stringers, along partings of wallrock enclosed by vein material, or along the walls of calcite-quartz stringers. Pyrite and chalcopyrite occur in the veinlets and are disseminated in the sheared and brecciated diorite. A sample taken across 1.2 metres at the face of the middle of three adits assayed 96.7 grams per tonne gold, 21 grams per tonne silver and nil platinum (Minister of Mines Annual Report 1949, page 129). A second sample taken across 0.46 metre assayed 27 grams per tonne gold and nil platinum; this sample is of actinolite from the upper adit and includes a quartz stringer, 7.6 centimetres wide (Minister of Mines Annual Report 1949, page 128).

The deposit was discovered in 1937 when a slide exposed showings of native gold in the river bank. It was eventually mined from three adits developed in the steep south bank of the river by El Alamein Mines Ltd. Gold production between 1949 and 1951 amounted to 6252 grams recovered from an unknown amount of ore.

Bibliography

EMPR AR 1937-D29; *1949-124-129; 1950-112; 1951-128,129; 1952-119;
1959-53; 1960-52,53
EMPR ASS RPT 7995, 27009
EMPR FIELDWORK 1987, pp. 281-294

EMPR OF 1988-25

EMPR PF (Allen, A. (1949): Correspondence with J.S. Stevenson;
Anonymous (undated): coloured cross sections traced from A.R. Allen; Anonymous (undated): 1 to 2400 scale plan of mine workings traced from A.R. Allen; Anonymous (undated): 1 to 3600 scale plan of placer and mineral claims and workings; Anonymous (undated): 1 to 600 scale coloured map of geology (in two sheets); Eastwood, G.E.P. (1959): Field notes of plane table survey; Eastwood, G.E.P. (1959): 1 to 1200 scale coloured sketch plan of El Alamein mine; Eastwood, G.E.P. (1959): 1 to 600 scale coloured geology map of El Alamein property, traced from J.S. Stevenson, 1949; Eastwood, G.E.P (1960): 1 to 600 scale coloured geology map of El Alamein property; Hedley, M.S. (1937): Special Report on Britton Property; *Nelson, S.K. (1960): El Alamein Gold Prospect, unpublished B.A.Sc. (2nd year) essay, University of British Columbia, 14 pages; Stevenson, J.S. (1949): 1 to 600 scale Preliminary Sketch Plan of El Alamein, Tulameen River, two copies (one coloured); Stevenson, J.S. (1951): Memorandum to Dr. J.F. Walker, Deputy Minister of Mines)

GSC MAP 46A; 888A; 889A; 1386A; 41-1989

GSC MEM 26; 243, pp. 100,101

GSC P 85-1A, pp. 349-358

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EMPR PFD 650231, 8430, 8431, 8432, 8433, 8434, 8435, 8436, 8437, 8438, 8439, 8440, 600390			
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		Field Check:	N
		Field Check:	N