Location/Identification

MINFILE Number: 092P 086
National Mineral Inventory Number: 092P2 Au1
Name(s): **VIDETTE**

SEARCHER NO.1 (L.4744), SEARCHER NO.2 FR. (L.4742), SEARCHER NO. 6 (L.4743), SEARCHER NO. 5 (L.4739), SEARCHER NO. 2 (L.4755), SEARCHER NO. 4 (L.4756), SEARCHER NO. 3 (L.4745), EB FR. (L.4760), WHITE PASS (L.4741), MONARCH (L.4754), TENFORD, BROKEN RIDGE, BLUFF, DEXHEIMER

Status: Past Producer
Mining Division: Clinton
Mining Method Underground
Electoral District: Kamloops-North Thompson
Regions: British Columbia
Resource District: 100 Mile House Natural Resource District
BCGS Map: 092P016
NTS Map: 092P02W
UTM Zone: 10 (NAD 83)
Latitude: 51 10 00 N
Northing: 5670446
Longitude: 120 54 17 W
Easting: 646490
Elevation: 1000 metres
Location Accuracy: Within 500M
Comments: Centre of Searcher No.1 (Lot 4744) Crown-granted claim.

Mineral Occurrence

Commodities: Gold, Silver, Copper, Lead

Minerals
Significant: Chalcopyrite, Telluride, Gold
Associated: Quartz, Ankerite, Pyrite, Graphite, Calcite
Alteration: Pyrite, Ankerite, Carbonate
Alteration Type: Carbonate
Mineralization Age: Unknown

Deposit
Character: Vein
Classification: Epithermal
Type: H05: Epithermal Au-Ag: low sulphidation, I01: Au-quartz veins
Shape: Tabular
Strike/Dip: 330/55E

Host Rock

Dominant Host Rock: Volcanic

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Nicola	Undefined Formation	------

Isotopic Age	Dating Method	Material Dated
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Lithology: Porphyritic Augite Andesite

Geological Setting

Tectonic Belt: Intermontane
Physiographic Area: Cariboo Plateau
Terrane: Quesnel

Inventory

Ore Zone: VEIN
Year: 2008

Category: Assay/analysis

Report On: N

NI 43-101: N

Sample Type: Grab

Commodity	Grade
Silver	13.9 grams per tonne
Gold	25.5 grams per tonne

Comments: two grab samples (813256 and 813257) from a shaft on the Tenford vein yielded 12.3 and 25.5 grams per tonne gold with 17.6 and 13.9 grams per tonne silver over 0.25 and 0.30 metre, respectively

Reference: Dickson, E. (2009-03-18): Summary Report on The Vidette Lake Property

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Ore Zone: DRILLHOLE

Year: 1987

Category: Assay/analysis

Report On: N

NI 43-101: N

Sample Type: Drill Core

Commodity	Grade
Gold	2.9 grams per tonne

Comments: diamond drilling of a geochemical anomaly, identified in 1982, intercepted a 18 metre shear zone consisting of schist and porphyritic volcanics hosting a 0.6 metre quartz vein and disseminated sulphides

Reference: Property File - Menika Mining Ltd. [1987-09-15]: News Clipping - Menika Mining Ltd. - Vidette Group

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Ore Zone: VIDETTE

Year: 1984

Category: Indicated

Report On: Y

Quantity: 10,160 tonnes

NI 43-101: N

Commodity	Grade
Silver	29.8000 grams per tonne
Gold	19.1000 grams per tonne

Comments: Probable reserves remaining in the old workings in the Bluff and Dexheimer veins.

Reference: Assessment Report 13453.

Ore Zone: SAMPLE

Year: 1939

Category: Assay/analysis

Report On: N

NI 43-101: N

Sample Type: Rock

Commodity	Grade
Gold	86.9 grams per tonne

Comments:

Reference: Property File - A.F. Killin [1939-04-24]: A Mineralographic Examination of some Ores from British Columbia Mines

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Ore Zone: VEIN

Year: 1936

Category: Assay/analysis

Report On: N

NI 43-101: N

Sample Type: Chip

Commodity	Grade
Gold	124.1 grams per tonne

Comments: sampling of the veins is reported to have yielded up to 124.1 grams per tonne gold over 2.1 metres length and 29.5 centimetres width

Reference: Property File - Booker Gold Explorations Ltd. [1987-08-08]: Geological and geophysical report on the Vidette property

Summary Production

		Metric		Imperial	
	Mined:	49,167	tonnes	54,197	tons
	Milled:	48,980	tonnes	53,991	tons
Recovery	Silver	1,448,561	grams	46,572	ounces
	Gold	929,016	grams	29,869	ounces
	Copper	43,825	kilograms	96,618	pounds
	Lead	161	kilograms	355	pounds

Capsule Geology

The Vidette gold mine is located at the north end of Vidette Lake, in the Deadman River Valley. The area is approximately 50 (air) kilometres north of Savona and is accessible on a good quality gravel road that leads north from the Trans-Canada Highway approximately 7.4 kilometres west of Savona. Crown-granted Lots 4744 and 4740 were forfeited in May, 1992.

The Vidette Lake area is underlain by mafic volcanic rocks of the Upper Triassic Nicola Group exposed in a window eroded through flat-lying Miocene sedimentary rocks and plateau basalts of the Chilcotin Group. The uppermost Chilcotin Group strata form an extensive layer of plateau basalts of the Chasm Formation, underlain by volcanic ash and fluviatile and lacustrine sedimentary strata of the Deadman River Formation, which occupy a northwest-trending Miocene channel. The Nicola rocks are intruded by biotite-hornblende granodiorite plugs that are possibly related to the Triassic to Jurassic Thuya Batholith. Nicola rocks are generally augite andesites commonly altered to chlorite-rich or calcareous greenstones; however, contact metamorphism has developed garnet-diopside-actinolite skarn or tactite adjacent to the intrusive rocks.

The Vidette mine features several narrow north-northwest–striking quartz-calcite veins that dip between 45 and 70 degrees northeast (Geological Survey of Canada Memoir 179). The veins average slightly less than 30 centimetres in width; however, where they were economic they averaged 38 centimetres in width. Mineralization consists of quartz, calcite and pyrite with lesser chalcopyrite, minor tellurides and trace galena, tetrahedrite and specularite. Gold occurs as the native metal or in tellurides and is reportedly associated with calcite and chalcopyrite. The veins are commonly ribboned with graphite seams. Wallrocks are heavily altered to ankeritic carbonate and pyrite.

Five vein systems have been developed at the mine: the Tenford, Bluff, Broken Ridge, 70 and Dexheimer. The strongest, the Tenford, was followed for 275 metres on the first level and made ore over a length of 150 metres (Assessment Report 11731).

In 1936, sampling of the veins is reported to have yielded up to 124.1 grams per tonne gold over 2.1 metres length and 29.5 centimetres width (Property File - Booker Gold Explorations Ltd. [1987-08-08]: Geological and geophysical report on the Vidette property).

In 1939, sample rejects yielded up to 86.9 grams per tonne gold (Property File - A.F. Killin [1939-04-24]: A Mineralographic Examination of some Ores from British Columbia Mines).

In 1987, diamond drilling of a geochemical anomaly, identified in 1982, intercepted an 18-metre shear zone consisting of schist and porphyritic volcanics hosting a 0.6-metre quartz vein and disseminated sulphides that yielded values up to 2.9 grams per tonne gold (Property File - Menika Mining Ltd. [1987-09-15]: News Clipping - Menika Mining Ltd. - Vidette Group).

In 2008, two grab samples (813256 and 813257) from a shaft on the Tenford vein yielded 12.3 and 25.5 grams per tonne gold with 17.6 and 13.9 grams per tonne silver over 0.25 and 0.30 metre, respectively (Dickson, E. (2009-03-18): Summary Report on The Vidette Lake Property).

In 1984, probable reserves remaining in the old workings in the Bluff and Dexheimer veins were estimated to total 10 160 tonnes grading 19.1 grams per tonne gold and 29.8 grams per tonne silver (Assessment Report 13453).

During 1933 through 1940, the mine milled a total of 48 980 tonnes of ore, recovering 1449 kilograms of silver, 929 kilograms of gold, 43 825

kilograms of copper and 161 kilograms of lead.

Work History

The veins were known to prospectors as early as 1898; however, active development did not take place until 1931. The mine was put into production in 1933, following 335 metres of underground exploration and development,. Between 1933 and May 1939, underground development and exploration included 199 metres of three compartment inclined shaft, 289 metres of winzes, 4984 metres of drifts and crosscuts and 1478 metres of raises (Assessment Report 11731). The Dexheimer vein, located at the southwest side of the lake, was originally explored by two short adits. In 1939 and 1940, a tunnel was driven under the lake from the main workings and a small amount of drifting and raising was done on the zone.

In 1983, Consolidated Paymaster Resources Limited completed three NQ diamond drill holes, totalling 1017 metres. In 1984, Tugold Resources Incorporated completed a program of geophysical surveying (magnetometer and VLF-EM), soil geochemical surveying (203 samples) and geological evaluation. In 1986, Booker Gold Explorations completed a program of ground geophysical surveys, prospecting and geological mapping on the area. In 1987, Menika Mining completed two diamond drill holes on a previously identified geochemical anomaly. In 1995, Discovery Consultants completed a program of soil geochemical surveying (35 samples), heavy mineral stream sediment analyses (3 samples) and lithogeochemistry (11 samples).

Bibliography

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EMPR METAL MM00264
EMPR MINE FICHE #61749-#61751 (Plans and section of 3 level, composite surface and underground plans)
EMPR PF (News Clippings; Photos; T. Schroeter [unknown]: Sketches - Vidette; unknown [unknown]: Mineral claims map - Vidette area; GSC [unknown]: Coloured Geology and Claims Map - Vidette Lake Area; Vidette Gold Mines Ltd. [1935-10-30]: Plan Map of Workings - Vidette Gold Mines; Vidette Gold Mines Ltd. [1935-11-01]: Mine Plan Map of the Tenford and Broken Ridge Workings - Vidette Gold Mines; Vidette Gold Mines Ltd. [1938-04-01]: Vidette - Plan And Section On 3 Level Showing Relationship Of Workings To Lake Bottom - Savona; Vidette Gold Mines Ltd. [1939-01-01]: Vidette - Composite Surface And Underground Plan - Savona; *A.F. Killin [1939-04-24]: A Mineralographic Examination of some Ores from British Columbia Mines; Vidette Gold Mines Ltd. [1970-07-01]: Vidette - Plan Of 3 Level And Lake Bottom Contours - Savona; R.B. Campbell [1969-02-01]: Notes on the Open File Report on the Bonaparte River Map Area British Columbia; N. Church [1984-03-26]: Kamloops area - Epithermal Au, Ag, Cu & Hg deposits and associated Tertiary beds; L.H. Woolman [1985-12-13]: Re: Potential Conflicts Regarding Vidette Resort; T. Schroeter [1986-06-26]: Field notes - Vidette area; Rick Counte [1986-07-07]: Re: Woolman vs Tugold Resources, Vidette Lake ; *Booker Gold Explorations Ltd. [1987-08-08]: Geological and geophysical report on the Vidette property; *Menika Mining Ltd. [1987-09-15]: News Clipping - Menika Mining Ltd. - Vidette Group; Booker Gold Explorations Ltd. [1987-09-30]: Prospectus Report on the Vidette Property; Mike Cathro [2005-08-12]: Weekly Report - Kamloops Region - Vidette)
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GSC MAP 1966-3; 2390; 1278A
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EMR MP CORPFILE (Vidette Gold Mines, Limited; Glen Copper Mines Limited; Hobo Creek Coppermines Ltd.; Tugold Resources Inc.)
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Date Coded:	1985/07/24	**Coded By:**	BC Geological Survey (BCGS)	**Field Check:**	N
Date Revised:	2020/06/10	**Revised By:**	Karl A. Flower (KAF)	**Field Check:**	N