

Location/Identification

MINFILE Number:	093N 047	National Mineral Inventory Number:	093N12 Au2
Name(s):	<u>TOM CREEK</u>		
Status:	Past Producer	Mining Division:	Omineca
Mining Method	Underground, Open Pit	Electoral District:	Nechako Lakes
Regions:	British Columbia	Resource District:	Fort St. James Natural Resource District
BCGS Map:	093N062		
NTS Map:	093N12E	UTM Zone:	10 (NAD 83)
Latitude:	55 36 04 N	Northing:	6164874
Longitude:	125 39 03 W	Easting:	332996
Elevation:	1048 metres		
Location Accuracy:	Within 500M		
Comments:	Location is the downstream end of placer workings on Tom Creek, about 24 kilometres northeast of Takla Landing (Geological Survey of Canada Memoir 252, page 139).		

Mineral Occurrence

Commodities:	Gold		
Minerals	Significant:	Gold	
	Mineralization Age:	Quaternary	
Deposit	Character:	Unconsolidated	
	Classification:	Placer	
	Type:	C04: Paleoplacer U-Au-PGE-Sn-Ti-diam-mag-gar-zir	

Host Rock

Dominant Host Rock:	Sedimentary		
Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Paleozoic-Mesozoic	Cache Creek	Undefined Formation	-----
Quaternary	-----	-----	Glacial/Fluvial Gravels
Isotopic Age	Dating Method	Material Dated	
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Lithology:	Glacial Fluvial Gravel, Phyllite, Andesitic Tuff, Limestone		
Comments:	Cache Creek Complex rocks range from Carboniferous to Jurassic and underlie the Tom Creek basin.		

Geological Setting

Tectonic Belt:	Intermontane	Physiographic Area:	Omineca Mountains
Terrane:	Cache Creek		

Inventory

No inventory data

Summary Production

Metric	Imperial
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Mined:	3 tonnes	3 tons
Milled:	0 tonnes	0 tons

Recovery	Gold	74,710 grams	2,402 ounces
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Capsule Geology

Tom Creek drains the north slopes of Mount Tom and flows into Kenny Creek approximately 24 kilometres northeast of Takla Landing. Placer gold was initially discovered in the creek in 1889, 20 years after it was discovered on Vital Creek (093N 044), 15 kilometres to the northeast.

The creek drains an area underlain by a north-northwest striking, steeply dipping sequence of interbedded phyllite, andesitic tuff and minor limestone assigned to the Carboniferous to Jurassic Cache Creek Complex. These rocks host numerous barren-looking, locally rusty, white quartz veins varying up to a metre in width.

The creek was worked profitably from 1899 to 1904 starting upstream from a point 1.6 kilometres from its confluence with Kenny Creek. Gold was originally recovered by means of a deep bedrock flume, but by 1935, tunnelling was employed. Tom Creek Placers, Limited later used a large steam shovel, which was left after operations ceased in 1940.

Recorded production from Tom Creek up until 1949 is 50,512 grams of gold (Geological Survey of Canada Memoir 252, page 139). Production of 74,710 grams of gold up to 1945 is also reported (Bulletin 28, page 46). It is not known which figure is correct.

In 1981, Placer Dome Ltd. conducted a soil sampling program on the Tom Creek area. Slightly anomalous, but insignificant, results were reported (Assessment Report 09676).

In 1983 and 1985, Golden Porphyrite Ltd. completed geological and geochemical surveys on the property containing the occurrence. Slightly anomalous gold values were observed in soil samples but no defined zone or samples were reported.

In 2015, Vern Mann completed a magnetometer survey on the area surrounding the occurrence. Results did not highlight bedrock but possibly outlined the previously mined area.

Bibliography

EMPR AR 1897-515; 1898-983; 1899-635; 1900-745,750; 1901-974; 1902-129; 1903-2,71; 1904-53; 1907-76; 1908-65; 1909-113; 1924-109; 1927-160; 1929-206; 1932-87; 1933-106; 1935-C28,C38; 1936-C39; 1937-C34; 1938-C53; 1939-105; 1940-90
 EMPR ASS RPT *09676, 12294, 13887, 36151
 EMPR BULL 1, p. 35; 28, pp. 43,46
 EMPR EXPL 1983-466; 1985-C337
 EMPR OF 2000-33
 EMPR PF Chevron (unknown (1975): Vital Range area reconnaissance, geochemistry, geology, various scales)
 EMPR PF Placer Dome (V.A. James (1925): Letter to D.G.H. Wright re: Takla Landing, Manson, Boulder and Lost Creek, Tom Creek; Dept. of Mines (1925): Report, correspondence of Omineca Gold and Silver District re: Charles Law)
 EMPR PFD 840383, 860317, 860329, 860335, 860336, 843294
 GSC AR 1894, Vol. VII, Pt. C, p. 12
 GSC MAP 844A; 907A; 971A; 1424A
 GSC MEM *252, pp. 140
 GSC P 74-1A; 74-1B, pp. 31-42

Date Coded:	1985/07/24	Coded By:	BC Geological Survey (BCGS)	Field Check:	Y
Date Revised:	2021/04/12	Revised By:	Nicole Barlow (NB)	Field Check:	Y