



Occurrence Details

Occurrence Number: 116B 159

Occurrence Name: Stutter

Occurrence Type: Hard-rock

Status: Anomaly

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General Information

Secondary Commodities: antimony, arsenic, barite, gold

Aliases: Alpha, Joe, Spec

Deposit Type(s): Plutonic Related Au

Location(s): 64°0'23" N - -139°8'13" W

NTS Mapsheet(s): 116B03

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Spec cl (YA64563) in Sep/81 and Joe cl (YA64040) in Feb/82 by M. Stutter & B. Warmsby in conjunction with placer mining of thick bench gravels. Silver Sceptre Res L restaked the Spec group as Alpha A-P cl (YA79850) in May/84 and conducted airborne geophysical surveys, soil sampling and drilled three holes in 1986 and 1987.

The area was partially restaked as Mike cl (YB17462) in Jul/88 by M. Franklin, who transferred the claims to Arbor Res Inc in Jul/89. The adjoining Dawson 141-180 claims were staked by Arbor Resources at about the same time. Following an IP survey, Arbor added 60 HMS cl (YB30485) to the northeast in Jan/91. Kennecott Canada optioned the Mike, Dawson and Alpha claims in May/93 and performed a program of prospecting, trench mapping and sampling, GPS surveying and reprocessing of 1987 helicopter geophysics.

In 1994 Kennecott Canada Inc carried out a large exploration program on Arbor's holdings including ground geophysics to follow up helicopterborne magnetic anomalies identified in 1993, auger drilling to test various soil and geophysical anomalies, and prospecting, sampling and mapping.

On the 80 Pup property (Mike claims and Dawson claims 141-180) Kennecott carried out an E-SCAN tomographic resistivity survey and ground magnetic survey and then drilled 5 holes (1 156 m). In Jan/95 Kennecott dropped its option on the Alpha, Mike, Dawson and other claims. In 1995 Arbor transferred the Alpha, Paula, Eh You, Nian and Mike claims to Sultan Minerals. In Jan/96 Arbor Resources changed its name to Klondike Gold Corp.

Capsule Geology

Stutter's claims were staked over unconsolidated White Channel Gravels of Miocene or Pliocene age and around Dago Hill, where work by Tempelman-Kluit for DIAND in 1982 identified low pH alteration zones associated with placer gold. Tempelman-Kluit advanced the theory that the gold was deposited in the White Channel Gravels in areas overlying bedrock faults through the action of circulating low temperature hydrothermal fluids. Further study by Dufresne and Morrison for DIAND in 1983-85 established the presence of typical hydrothermal alteration assemblages (secondary Fe minerals, kaolinite, adularia plus or minus smectite clays and sericite) in the sediments although the relationship to the gold content of the gravels is still unclear.

The altered gravels contain up to 25% Fe, 0.5% S, 6 750 ppm Ba, 4 230 ppm Mn and 250 ppm As, and are also anomalous in Sb and Au. Narrow quartz-chalcedony veins are observed cutting both metamorphic rocks and diabase dykes of probable Eocene age beneath these altered zones. The veins are generally less than 2-3 cm thick and range from vuggy, banded and crustiform quartz with minor siderite, to thinly banded quartz-chalcedony veins. Both the veins and the associated alteration zones are considered to be the products of an epithermal system of Quaternary age.

The 1986 airborne survey outlined several anomalies while the soil sampling returned some anomalous gold values. The drill holes intersected 30 m of altered limonitic clay surrounding unaltered wallrock fragments but no assays were released.

Arbor reported the recovery of angular gold from deeply altered bedrock in Frank Short's placer pit, which coincides with an IP anomaly.

In 1993 Kennecott sampled placer bedrock channel drains in the vicinity of Dago Hill. Bedrock encountered in trenches consisted of graphitic schist and quartz-muscovite schist, with lesser quartzite, ultramafic, and volcanic rocks. A specimen of clay-altered volcanic breccia returned a value of 2 460 ppb gold. In 1994 Kennecott mapped and sampled the Dago Hill area. In a placer drain located on the northwest side of Dago Hill Kennecott mapped intensely deformed graphitic schist containing large fault slivers of muscovite quartz schist. Chip samples collected from this area did not return significant Au assays. On the southeast side of Dago Hill, Kennecott found float boulders displaying epithermal vein textures in an area underlain by Cretaceous sedimentary and volcanic rocks. Detailed mapping and chip sampling was carried out in a nearby placer drain and a calcite-veined volcanic breccia returned 95 ppb Au. Check assaying could not reproduce the assay.

On the 80 Pup property, Kennecott's geophysical surveys mapped the location of possible intrusions and alteration located beneath the deep cover of the White Channel Gravels. Drilling results were poor, with only one narrow gold-bearing interval reported from the 5 holes (0.86 g/t Au over 0.4 m). The results demonstrated beyond a reasonable doubt that no mineralized intrusions occur on the 80 Pup property and that the bulk tonnage potential of the claims is low.

References

DUFRESNE, M.B., 1986. Origin of gold in the White Channel sediments of the Klondike region, Yukon Territory. Unpublished M.Sc. thesis, University of Alberta.

DUFRESNE, M.B., NESBITT, B.E., LONGSTAFFE, F.J., and MORISON, S.R., 1987. Plio-Pleistocene epithermal Au mineralization in the White Channel sediments of the Klondike District, Yukon. Geological Association of Canada, Program with Abstracts, Vol. 12, p. 38.

GEORGE CROSS NEWSLETTER, 25 Apr/91; 27 Jul/93; 30 Sep/93; 30 Aug/94; 20 Sep/94; 18 Oct/94; 10 Nov/94; 22 Nov/94; 23 Jan/96.

KENNECOTT CANADA INC, Jun/94. Assessment Report #093211 by R. Cranswick and A. Doyle.

KENNECOTT CANADA INC, Jul/95. Assessment Report #093321 by R. Cranswick, S. de Wit and A. Vary.

KENNECOTT CANADA INC, Aug/95. Assessment Report #093319 by R. Cranswick, S. de Wit and A. Vary.

MORTENSEN, J.K., and RUSHTON, R., 1992. Preliminary observations on the geology and geochemistry of quartz veins in the Klondike District, West-Central Yukon. In: Yukon Geology Vol. 3, Exploration and Geological Services Division, DIAND, p. 260-270.

NESBITT, B.E., 1986. Evidence of hydrothermal alteration in White Channel sediments and bedrock of the Klondike area, West-Central Yukon. In: Yukon Geology, Vol. 1, Exploration and Geological Services Division, DIAND, p. 44-49.

TEMPELMAN-KLUIT, D.J., 1981. White Channel Gravel of the Klondike. In: Yukon Exploration and Geology 1981, p. 74-79.

YUKON EXPLORATION 1986, p. 296-299.

YUKON EXPLORATION AND GEOLOGY 1983, p. 55-59.

YUKON EXPLORATION & GEOLOGY 1994, p. 9, 11, 12.

Work History

| Date | Work Type | Comment |
|------------|---------------------|--|
| 12/31/1994 | Drilling | Five holes, 1,156 m. |
| 12/31/1994 | Geology | |
| 12/31/1994 | Geochemistry | Used auger to collect samples. |
| 12/31/1994 | Ground Geophysics | Also magnetic survey. |
| 12/31/1994 | Other | |
| 12/31/1993 | Geology | |
| 12/31/1993 | Other | |
| 12/31/1993 | Trenching | Re-mapped and sampled trenches. |
| 12/31/1991 | Ground Geophysics | |
| 12/31/1986 | Drilling | Number of holes drilled: 3 |
| 12/31/1986 | Geochemistry | |
| 12/31/1986 | Ground Geophysics | Also VLF-EM and IP surveys. |
| 12/13/1993 | Pre-existing Data | Reinterpreted 1987 airborne geophysics data. |
| 12/13/1993 | Other | |
| 12/13/1986 | Airborne Geophysics | Also EM survey. |

Assessment Reports that overlap occurrence

| Report Number | Year | Title | Worktypes | Holes Drilled | Meters Drilled |
|------------------------|------|--|--|---------------|----------------|
| 095289 | 2005 | A Re-interpretation of the Geology, Geophysics and Geochemistry of the Last Chance 1-20 Mineral Claims Area and A Proposed Geological Target Model for the Lode Gold Source of The Klondike Goldfields | Rock - Geochemistry, Process/Interpret - Pre-existing Data | | |
| 093321 | 1994 | 1994 Annual Report on the Klondike Gold Project | Magnetic - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Prospecting - Other, Backhoe - Trenching | | |
| 093075 | 1992 | Geological, Geochemical and Trenching Report on the Dawson Property | Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other, Mechanical - Trenching | | |
| 092690 | 1988 | Geological, Geophysical, Geochemical, and Trench Report for Work Performed by Mark Management Ltd. on the REEF Grid | All Weather Road - Development, Surface, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Line Cutting - Other, Mechanical - Trenching | | |
| 091757 | 1987 | Geological, Geochemical and Diamond Drill Report for Work Performed by Mark Management Ltd. on the Dawson Property | Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other, Mechanical - Trenching | 27 | 3151 |
| 091981 | 1987 | Report on Combined Helicopter Borne Electromagnetic, Magnetic, and VLF-EM Survey | Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics | | |
| 091807 | 1985 | Geological, Geochemical and Geophysical Report for Work performed by Mark Management on the Dawson Property | Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics, Heavy Mineral Concentrate - Lab Work/Physical Studies, Petrographic - Lab Work/Physical Studies, Mechanical - Trenching | | |
| 091616 | 1984 | Geological, Geochemical and Geophysical Report for Work Performed by Mark Management Ltd. on the Dawson Property | Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Heavy Mineral Concentrate - Lab Work/Physical Studies, Mechanical - Trenching | | |
| 062213 | 1984 | Report on the MOON 1-55 Mineral Claims | Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Process/Interpret - Pre-existing Data | | |
| 120353 | 1983 | A Report on the Hester Hill Paradise Hill Property | Interpretation - Airphotography | | |
| 091546 | 1983 | Regional Geochemical and Geophysical Report on the Syndicate, Dawson, William, B3, B8, Wild, and Wild Card Claims | Magnetic - Airborne Geophysics, Bedrock Mapping - Geology, EM - Ground Geophysics, Heavy Mineral Concentrate - Lab Work/Physical | | |

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|------------------------|------|---|---|--|--|
| | | LAWSON, WILLIAM, JR. JR. AND WILL CARL CLARK | Studies, Data Compilation - Pre-existing Data | | |
| 060149 | 1972 | Geological and Geochemical Report Yukon Quartz Mineral Claims | Silt - Geochemistry, Soil - Geochemistry | | |