Metallogeny, geology, and gold mineralization in the Klondike District, Yukon

Technical Presentation

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MODERN EXPLORATION OF HISTORIC KLONDIKE GOLDFIELDS

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TSX Venture Exchange: “KG” | Frankfurt Stock Exchange: “LBDP”
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The technical and scientific information contained within this presentation has been reviewed and approved by Peter Tallman, P.Geo., CEO of Klondike Gold Corp. and Qualified Person as defined by National Instrument 43-101 policy.
THE THREE SISTERS – TINTINA GOLD BELT

Klondike Au District

White Gold Au District

Brewery Creek Au

Coffee Au District

Allan et al., 2013
MODERN EXPLORATION OF KLONDIKE DISTRICT

Klondike Gold Rush 1896
Climbing the Chilkoot Pass (1898)

GSC Airborne 2002
First Klondike District Survey

Klondike Gold Year 4:
2018 District Scale Exploration

- Geology
- Structure
- Soils
- Magnetics
- Radiometrics
- Prospecting
- Whole Rock Lithochem
- XRF Lithochem
- Thin Sections
- Drilling

KG Claims: 560 sq km; 60 km length
• 50-60 shafts on Klondike-era bedrock gold occurrences documented

• ~100+ new bedrock visible gold occurrences documented

• Klondike Schist subdivided into major units
BONANZA-ELDORADO ROCK TYPES

Klondike Schist

- Sch-g: graphitic
- Sch-f: felsic
- Sch-i: intermediate
- Sch-m: mafic

Quartz-Eye Porphyry
Sulphur Ck Granite

All rock types host gold.

Slide Mtn

- Sch-list: ‘listwanite’ fuchsite alteration, spatially associated with Au

Unfoliated Rocks:
- Mafic dykes
- Lamprophyre dykes
- Eocene dykes
- Cretaceous intrusion

- Lithologies trap gold differently: competence and rheological differences are paramount.
KLONDIKE SCHIST LITHOLOGIES: SCH-i

Intermediate Schist Suite

Volcanic Rock Classification (Winchester and Floyd 1977)

- SCH-i-lam
- SCH-i-ptm (grading towards “tec”)
- SCH-i-lam, (spotted Chlorite variant)
- SCH-i-yel
- SCH-i-lam (kink folded, 5.12g/t Au)
- SCH-i (feldspar porphyroblasts)

MacWilliam, 2018
LISTWANITE AND ULTRAMAFICS

MacWilliam, 2018
D3 FAULTS:
- NNW orientation
- NE-SW directed compression
- spatial association with F3 fold hinges
  - originally thrusts or back-thrusts
  - entrained slivers of basement Slide Mtn ultramafic “listwanite”
- D3 reactivated as reverse sinistral faults by D4

D4 FAULTS:
- NE orientation
- WNW-ESE directed compression
- Dextral normal oblique-slip kinematics
- NW plunge lineation
- D4 structure has lamprophyre dyke
- Au is Late!
BONANZA-ELDORADO FAULTS AND AU-SOILS

- Gold-in-soils at Lone Star Zone
- Au in hangingwall of reactivated D3-D4 Bonanza Fault
- Visible Gold showings and Klondike era shafts occur along mapped Faults.

- D4 and reactivated D3 structures are conduits for gold-bearing fluids.
- Lithologies trap gold differently: competence and rheological differences are paramount.
LONE STAR ZONE GOLD SHELL

- RED cloud represents gold mineralized area
- 900 x 200 meter area drilled at 50 meter centres
- 2017-2018 drilling to determine geometry and extent of a portion of the Lone Star Au Zone
- NOT A RESOURCE ESTIMATE.

Highlights:
- 2.4 g Au/41.0m (2016)
- 1.4 g/t Au/65.05m incl 6.07 g/t Au/8.45m (2018).
  - Deepest holes hit gold mineralization 150 meters below surface
  - 3 km of mineralization, SCH-I has disseminated gold
  - >90% of gold is +150 mesh screen size (coarse gold).
Mineralized zone ~150m wide, to 100m vertical depth starting from surface.

Bonanza fault flattens on this section.

Late (brittle gouge) 5m to 150m offset faults are north-trending, Eocene age(?), related to recent movement on Tintina Fault.
NUGGET ZONE – OCTOBER 2018 UPDATE

- Core resampling confirms presence of disseminated gold: 1.55 g/t Au /45.2m (2018)
- 1.5 km of mineralization, visible gold is common
- D3 mineralization has apparent en echelon geometry along D3 fault
- (2018 ddh assays pending)
Lone Star Zone:
- 3 km Au in outcrop
- 900 m Au drilled at 50m spacing
- See previous slides

Nugget Zone:
- 1.5 km Au in outcrop
- 1.5 km drilled, assays pending

Gay Gulch Prospect:
- 2015 drilling intersects 76.0 g/t Au over 2.8m.
- Site of 60 oz Au alluvial nugget.
- 2018 prospecting finds visible gold QV’s along Eldorado Creek road 500m.
KLONDIKE METALLOGENY AND STRUCTURE

CENOZOIC

MESOZOIC

PALEOZOIC

Klondike Metallogeny and Structure

KLONDIKE GOLD CORP.  TSXV: KG  Frankfurt: LGBF

Eocene

Dykes/Faults

Jurassic

Thrusts D3

Triassic

Orogenic Au

Coffee 4M oz Au
Golden Saddle 2M oz Au
Klondike 20M oz placer

Carmacks Group

Lamprophyres

NE Faults D4

Klondike Schist

Jurassic thrusts D3

Slide Mtn thrusts D3

Eocene

Dykes/Faults
THANK YOU

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SULPHUR CREEK GRANITE ('ORTHOGENEISS')

Altered Sulphur Creek Granite:
patchy SIL near structures, anomalous Au, destruction of biotite

Sulphur Creek Granite at Klondike
Sulphur Creek Orthogneiss at Coffee
QUARTZ EYE PORPHYRY (‘Quartz feldspar augen schist’)

EC15-08: 41.9m to 47.25m, 1.62g/t Au over 5.35m
KLONDIKE SCHIST LITHOLOGIES: SCH-m

MacWilliam, 2018
KLONDIKE SCHIST LITHOLOGIES: SCH-f

Felsic Schist