Figure 1.

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COMPASS CREEK
EL25399, EL25436

LOCATION MAP

Drawn: Jim McG-D / MontanaGIS
Date: 16dec10
Key to mineral deposits

1-Woodcutters Zn-Pb-Ag; 2-Rum Jungle deposits U-Cu-Pb-Co-Ni-Ag; 3-Cosmo Howley Au; 4-Union Reefs Au; 5-Enterprise Au; 6-Mount Todd field Au; 7-South Alligator River Valley U; 8-Coronation Hill U-Au-Pt-Pd; 9-Koongarra U-Au; 10-Ranger 1 U; 11-Jabiluka U-Au; 12-Nabarlek U; 13-Toms Gully Au; 14-Goodwill Sn-Ta

Source:
Ahmad M. & Lally JH – Pine Creek Orogen: Field excursion guide – NTGS 2003-003
Figure 3.

Rock exposure in the Compass Creek Area

Source: Ahmad M. & Lally JH – Pine Creek Orogen:
Field excursion guide – NTGS 2003-003

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STRATIGRAPHIC CORRELATION
SHOWING CENTRAL REGION

Drawn: Jim McG-D / MontanaGIS
Date: 16dec10
Mineral Occurrences

- Copper
- Gold
- Lead
- Silver
- Tin
- Uranium
- Zinc
- Iron Ore

Tenement Boundary
Mineral Resource showing M oz

Source:
- Geology – NT DME 1:250,000 Metallogenic Series, Pine Creek Sheet SD52-8,1993

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PINE CREEK GEOLOGY & MINES
GOLD PRODUCTION IN MILLION OUNCES

Figure 4.
Figure 4a.

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PINE CREEK GEOLOGY LEGEND

Source:
- Geology – NT DME 1:250,000 Metallogenic Series, Pine Creek Sheet SD52-8, 1993

Drawn: Jim McG-D / MontanaGIS
Date: 16dec10

Figure 4a.
Figure 5.

Mineral Occurrences

- Copper
- Gold
- Lead
- Silver
- Tin
- Uranium
- Zinc

Tenement Boundary

Mineral Resource showing M oz

Source:
Tipperary-Fenton, NT – airborne magnetics for Homestake Australia 1999

Drawn: Jim McG-D / MontanaGIS
Date: 16dec10

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PINE CREEK AIRBORNE MAGNETICS

20 km
Figure 6. Pine Creek Shear Zone, NNW trend, about 10km wide.
Figure 7.

Pine Creek Shear Zone
NNW trend, about 10km wide

Approximate location of AEM Anomaly
Approximate location of Airborne Magnetic High
Prices Springs Granite
Hornfels
Major quartz vein
Dolerite dykes or sills
Basal? conglomerate
Fault lineaments

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COMPASS CREEK
EL25399, EL25436
AIRBORNE MAGNETICS
STRUCTURES & PROSPECTS

Drawn: Jim McG-D / MontanaGIS
Date: 16dec10
Sediments within highlight area.
- Dominantly fine to medium grained quartzites and v.f.g siliceous (cherty) layers and occasional pelitic units commonly with cordierite + siltstones.

Bedding Dip
- 25° - 40° West
- 40° - 50° West

Magnetic Anomaly & MAVIS Area
- Anticline Plunge 25°-55° NNE
- Conglomerate at base of Burrel Ck Formation

Approximate location of AEM Anomaly - where dashed it is projected from regional AEM survey
- Known area of gold nuggets

Outline of mineralised zone (Qtz veinlets & 1 - 5% sulphide boxworks) – where dashed mineralisation is generally weaker

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COMPASS CREEK
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SATellite IMAGE (SPOT),
GENERALISED BEDDING, GEOLOGY & PROSPECTS
MAGNETIC ANOMALY & MAVIS AREA

Figure 8.
Sediments within highlight area. Dominantly fine to medium grained quartzites and vfg siliceous (cherty) layers and occasional pelitic units commonly with cordierite + siltstones.

Bedding Dip 25° - 40° West

Bedding Dip 40° - 50° West

Magnetic Anomaly Prospect

Anticline Plunge 25° - 55° NNE

Approximate location of AEM Anomaly - where dashed it is projected from regional AEM survey

Approximate location RTP Ground Magnetic High

Prices Springs Granite

Schematic Section

Hornfels

Major quartz vein

Dolerite dykes or sills

Conglomerate

Fault lineaments

Aplite dyke

Known area of gold nuggets

Outline of mineralised zone (Qtz veinlets & 1 - 5% sulphide boxworks) – where dashed mineralisation is generally weaker

Mavis Area

Anomalous Gold in rock and soils

Mavis Area

Anomalous Gold in rock and soils

Maviy Camp

Conglomerate at base of Burrel Creek Formation

Bedding Dips vertical to 70° overturned to West

Approximate location of RTP Ground Magnetic High

Spundaily Camp

Known area of gold nuggets

Outline of mineralised zone (Qtz veinlets & 1 - 5% sulphide boxworks) – where dashed mineralisation is generally weaker

Sediments outside highlight area. Dominantly greywacke/Arkoses with siltstones, mudstones and shales

Sediments outside highlight area. Dominantly greywacke/Arkoses with siltstones, mudstones and shales

Approximate location of AEM Anomaly - where dashed it is projected from regional AEM survey

Approximate location RTP Ground Magnetic High

Prices Springs Granite

Schematic Section

Hornfels

Major quartz vein

Dolerite dykes or sills

Conglomerate

Fault lineaments

Aplite dyke

Known area of gold nuggets

Outline of mineralised zone (Qtz veinlets & 1 - 5% sulphide boxworks) – where dashed mineralisation is generally weaker

COMPARe CREEK
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GROUND MAGNETIC IMAGE, GENERALISED BEDDING, GEOLOGY & PROSPECTS
MAGNETIC ANOMALY & MAVIS AREA

Drawn: Jim McG-D / MontanaGIS
Date: 16dec10

Figure 9.
Figure 10.
Figure 11.
Figure 12.
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KAMAS CAULDRON
SCHEMATIC CROSS SECTION

Drawn: Jim McG-D / MontanaGIS
Date: 16dec10

Figure 13.