LE PROJET AMARUQ, NUNAVUT : HISTORIQUE DE DÉCOUVERTE ET GÉOLOGIE D’UN NOUVEAU GISEMENT AURIFÈRE

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AGNICO EAGLE – AMARUQ

PLAN DE LA PRÉSENTATION

1. Localisation et géologie régionale
2. Historique de découverte
3. Géologie de la Zone Whale Tail
4. Ressources et campagne 2015 sur Whale Tail
5. Exploration ailleurs sur la propriété Amaruq
AGNICO EAGLE AU NUNAVUT
POSITIONNEMENT STRATÉGIQUE CRÉANT UNE SYNERGIE

**Status:**

- **Meadowbank**  Au  
  Commercial Production 2010  
  Reserves  1.751 Moz  16.8Mt  3.24 g/t  
  Ind. Res.  0.768 Moz  7.3Mt  3.28 g/t  
  Inf. Res.  0.421 Moz  3.3Mt  3.96 g/t  

- **Meliadine**  Au  
  Advanced Exploration  
  Reserves  2.841 Moz  12.0Mt  7.38 g/t  
  Ind. Res.  3.082 Moz  19.0Mt  5.05 g/t  
  Inf. Res.  2.712 Moz  11.7Mt  7.20 g/t  

- **Amaruq**  Au  
  40,836 ha Inuit-owned Land  

- **Greyhound**  Au & VMS  
  13,585 ha  
  Optioned From Aura Silver  

* Reserves and resources as of December 31st 2013
Churchill Province:
- Craton deformed during the Archean, then deformed again via the trans-hudsonian orogeny during the Paleoproterozoic
- Made up of the Rae and Hearne domains, put against each other along a suture zone, the Chesterfield Block (Cb)

Meadowbank and Amaruq:
- Hosted in the Woodburn Lake Group (~2.71 Ma), an Archean Greenstone Belt located in the Rae Domain

(Davies et al., 2010)
Zaleski, E.
Zaleski, E.
AMARUQ

CAMPAGNE INITIALE 2013 (AVRIL À AOÛT), BUDGET DE $250K

MAG au sol
MAXMIN
AMARUQ

CAMPAGNE INITIALE 2013 (AVRIL À AOÛT), BUDGET DE $250K

4 DDH pour 573 m
AMARUQ

2013 PHASE 2 (SEPT-OCT), BUDGET DE $600K

10 DDH pour 1,759 m
AMARUQ

2014 PHASE 1, BUDGET DE $1.25M

34 DDH pour 5,093 m
Fin 2014:
158 DDH pour 33,946 m
AMARUQ: ZONE WHALE TAIL
GÉOLOGIE LOCALE – VUE DE PLAN
AMARUQ: ZONE WHALE TAIL
GÉOLOGIE LOCALE – VUE DE PLAN

Domaine WT Nord
(tholéiitique)

Domaine WT Sud
(transitionnel à calco-alcalin)
AMARUQ: ZONE WHALE TAIL
GÉOLOGIE LOCALE – VUE DE PLAN

Corridors à injections et imprégnations de quartz-arsénopyrite-pyrrhotite-pyrite
(typiquement 4-8 g/t Au sur 4-6 m, mais jusqu’à 13.5 g/t Au sur 17.6 m et 7.6 g/t Au sur 23 m)

Métasomatisme à injections et imprégnations d’amphiboles-carbonates-pyrrhotite
(typiquement 5-7 g/t Au sur 6-8 m, mais jusqu’à 21.8 g/t Au sur 18.9 m et 11.8 g/t Au sur 19.9 m)
AMARUQ: ZONE WHALE TAIL
GÉOLOGIE LOCALE – SECTION SCHÉMATIQUE

LÉGENDE
- Intrusions intermédiaires
- Volcanites/Intrusions mafiques
- Cherts graphiteux
- Cherts
- Mudstones
- Grauwackes
- Volcanites ultramafiques
- Volcanites ultramafiques métasomatiques et minéralisées
- Veines de quartz-sulfures
- Chert à forte imprégnation de silice ("silica-flooding")

100 m
AMARUQ: ZONE WHALE TAIL
GÉOLOGIE LOCALE – MODÈLE 3D SIMPLIFIÉ

Legend

Lithologies
- Sediments
- Ultramafic volcanics
- Mafic volcanics

Ore types
- Quartz vein
- Chert SI flooding/QV
- Pyrrhotite-carbonate replacement

Structure
- ENE-WSW high strain zone
- Domain boundary
AMARUQ: ZONE WHALE TAIL
MINÉRALISATION – IMPRÉGNATIONS À AMPHIBOLES-CARBONATES-PYRRHOTITE

Komatiite (V4A):
- Decametric unit, frequently altered to a chlorite-talc-carbonate schist (soapstone) with common chaotic carbonate veinlets. Frequently biotite altered when more deformed
- Generally very soft rock with highly variable RQD but rarely excellent, common fault gouge
- Tholeiitic geochemistry (0a geochemical code)
AMARUQ: ZONE WHALE TAIL
MINÉRALISATION – IMPRÉGNATIONS À AMPHIBOLES-CARBONATES-PYRRHOTITE

Altered V4 mineralized zone (V3F):
- Strong amphibole-carbonates alteration and replacement of V4A unit, mainly at contact with sediments, very dense, hard and magnetic rock, variable silicification and local minor quartz veining
- Disseminated fine grained Po mineralization, locally up to semi-massive dm bands with carbonates, generally very low Aspy
- Greenish-blackish-greyish banding aspect with local garnet when deformed
AMARUQ: ZONE WHALE TAIL
MINÉRALISATION – IMPRÉGNATIONS À QUARTZ-ARSÉNOPYRITE-PYRRHOTITE-PYRITE

Chert (S10):

- Lighter colored rock and often more regularly bedded than its graphitic equivalent (S10E) with mm-cm chert bands and local mm iron formations (mainly as orange-beige/yellowish grunerite) intercalated with lesser amount (<50%) of pelagic sediment beds, themselves variably altered in CB, SR, CL, locally AM
- Generally very hard and magnetic unit
- Aspect changes as alteration and silica flooding/quartz veining (ore related with common Aspy-Po) intensify, often with deformation intensity (more folded and chaotic)

Fresh equivalent, not hosting a mineralized zones
AMARUQ: ZONE WHALE TAIL
MINÉRALISATION – IMPRÉGNATIONS À QUARTZ-ARSÉNOPYRITE-PYRRHOTITE-PYRITE

Chert with moderate silica flooding (S10_mSi):

- Intermediate stage of hydrothermal circulation within chert units, may be gold bearing to a certain degree
- Increase in alteration of pelagic bands (CB, SR, CL, AM) with more chaotic and crackled aspect, often as numerous mm stringers starting at chert/pelagic bed interface and migrating in chert beds
- Lost of the parallelism between beds with quartz often bulging and becoming locally discordant, but general bedding aspect still recognizable
- Apparition of local Aspy and Po
AMARUQ: ZONE WHALE TAIL
MINÉRALISATION – IMPRÉGNATIONS À QUARTZ-ARSÉNOPYRITE-PYRRHOTITE-PYRITE

Chert with strong silica flooding (S10_sSi):
- Key unit hosting significant gold zones resulting from intense hydrothermal circulation within S10 unit
- Intense diffuse quartz veining and silicification, transitional contacts with host S10, equivalent of QV units in S3, more folded and chaotic aspect, locally important lost of primary bedding (difficult to recognize S10)
- Presence of Aspy particularly characteristic, Po also frequent
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MINÉRALISATION – VEINES TARDIVES À QZ-ASPY-GN-SP-CP-OR NATIF

Quartz vein (QV), I.C zone:
- Metric to decametric white quartz veins
- Generally very little mineralization, locally base metals and traces VG
- Often developed in biotite altered and deformed V4A, near northern sediments contact, but also developed in sediments
- Gold grade not constant but sometimes very high
AMARUQ: ZONE WHALE TAIL
RESSOURCES 2014 ET CAMPAGNE 2015

Ressources inférées de 6.6 Mt à 7.07 g/t Au pour 1.5 Moz (incluant 0.1 Moz à I-V-R)
AMARUQ: EXPLORATION AILLEURS SUR LA PROPRIÉTÉ
OUVERT LATÉRALEMENT, BEAUCOUP DE CIBLES

12 km folded favorable stratigraphy to investigate
AMARUQ: EXPLORATION AILLEURS SUR LA PROPRIÉTÉ
OUVERT LATÉRALEMENT, BEAUCOUP DE CIBLES
AMARUQ

... UNE HISTOIRE À SUIVRE!

MERCI!!!

Mine Meadowbank (50 km)

Camp Amaruq

Expression de surface de la zone Whale Tail

Sud

300m