

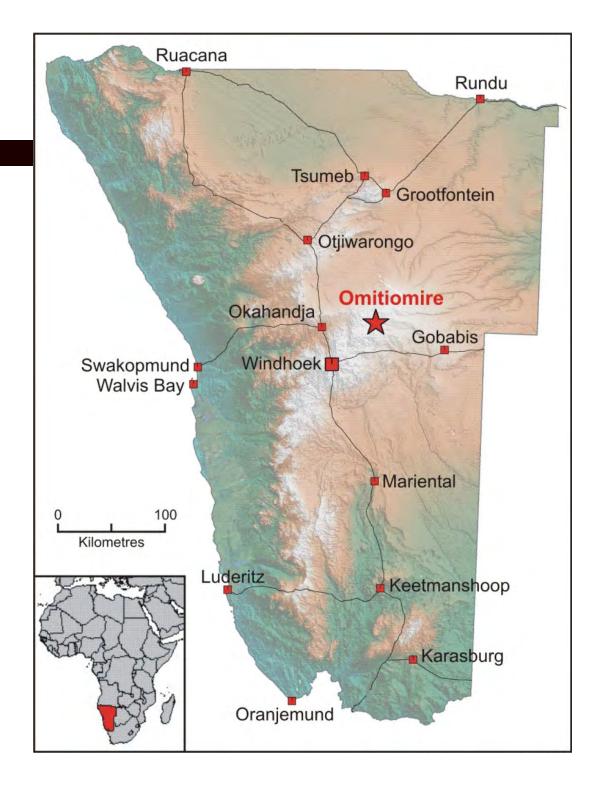
OMITIOMIRE COPPER DEPOSIT, NAMIBIA: THE ROCKY ROAD TOWARDS PROJECT DEVELOPMENT

- Ken Maiden & Karl Hartmann

Presentation to Sydney Mineral Exploration Discussion Group (SMEDG), 25 September 2014

Namibia

- Area: 800,000 km²
 (about the same as NSW)
- Population ~ 2 million
- Very arid coastal fringe Namib Desert
- Central area to ~ 2000m savannah grassland & woodland
- Eastern: Kalahari sand sheet, grass plains & open woodland
- North: Sufficient rainfall for subsistence agriculture



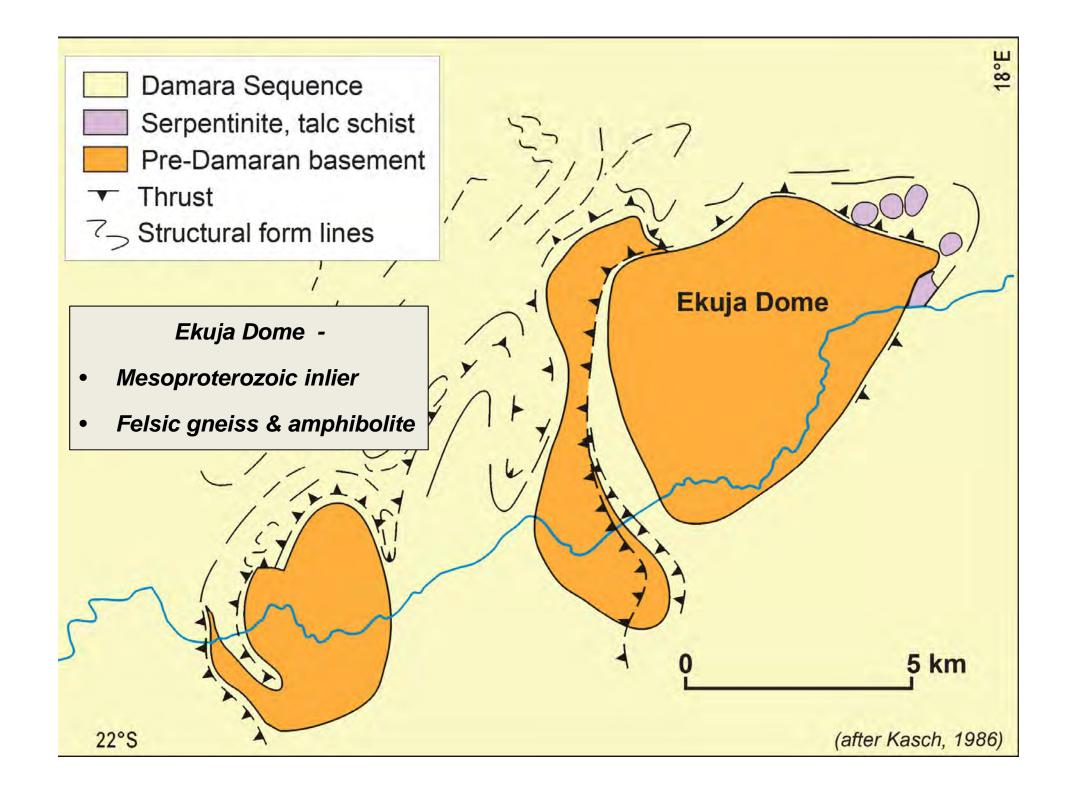
Why Namibia?

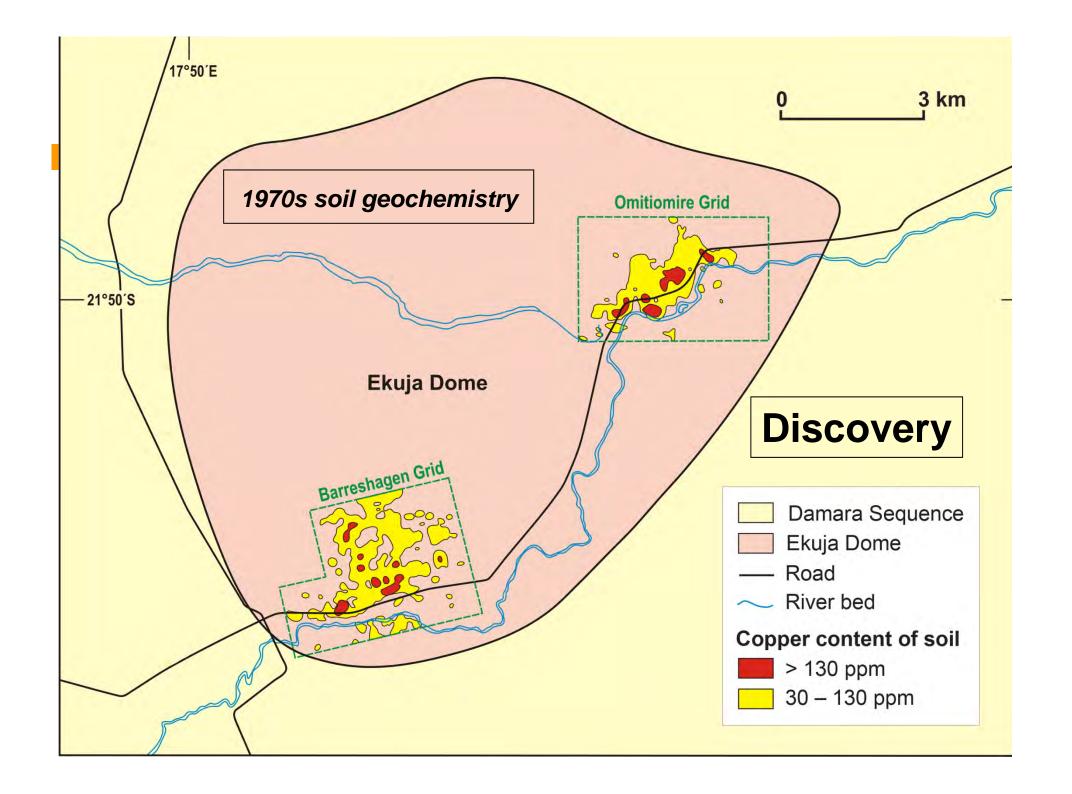
- Good tenement system
- Good mining legislation
- Effective bureaucracy
- Good data (geological maps, geophysical coverage, historic exploration data)
- Good infrastructure
- Low political risk

Fraser Institute survey 2013

Investment attractiveness index - Namibia 34/112

- Below Botswana & Ghana, above all other African countries
- Above NSW, Victoria & Tasmania





Previous drilling

GenMin 1970s: 3 holes \rightarrow copper zone: 700m strike, 6 – 20m thick, 0.3 – 0.5% Cu

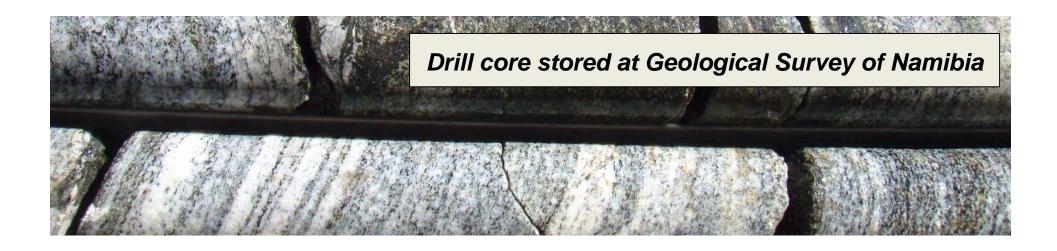
Nossob River Mining Company 1990s: 9 holes → copper zone 10 – 15m thick

Anglo American 1990s: 16 holes → copper zone 10 – 20m thick; area 600m x 700m

Hole OED5: 106m at 0.47% Cu

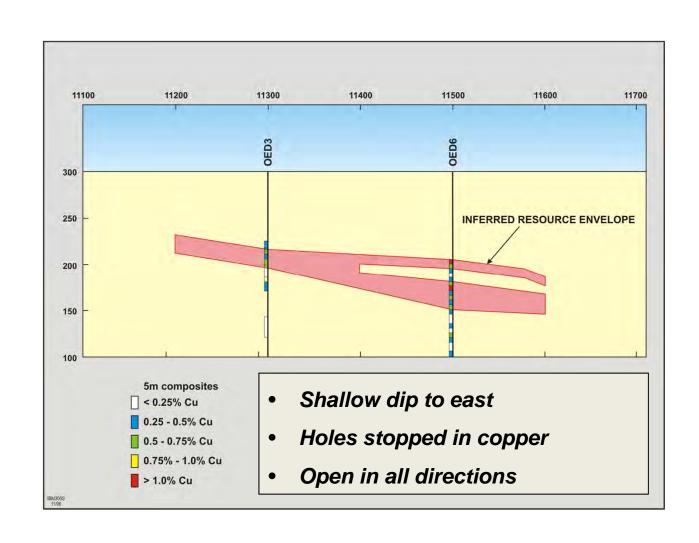
Straits Resources 198: 13 holes; best intersection 9m at 0.6% Cu

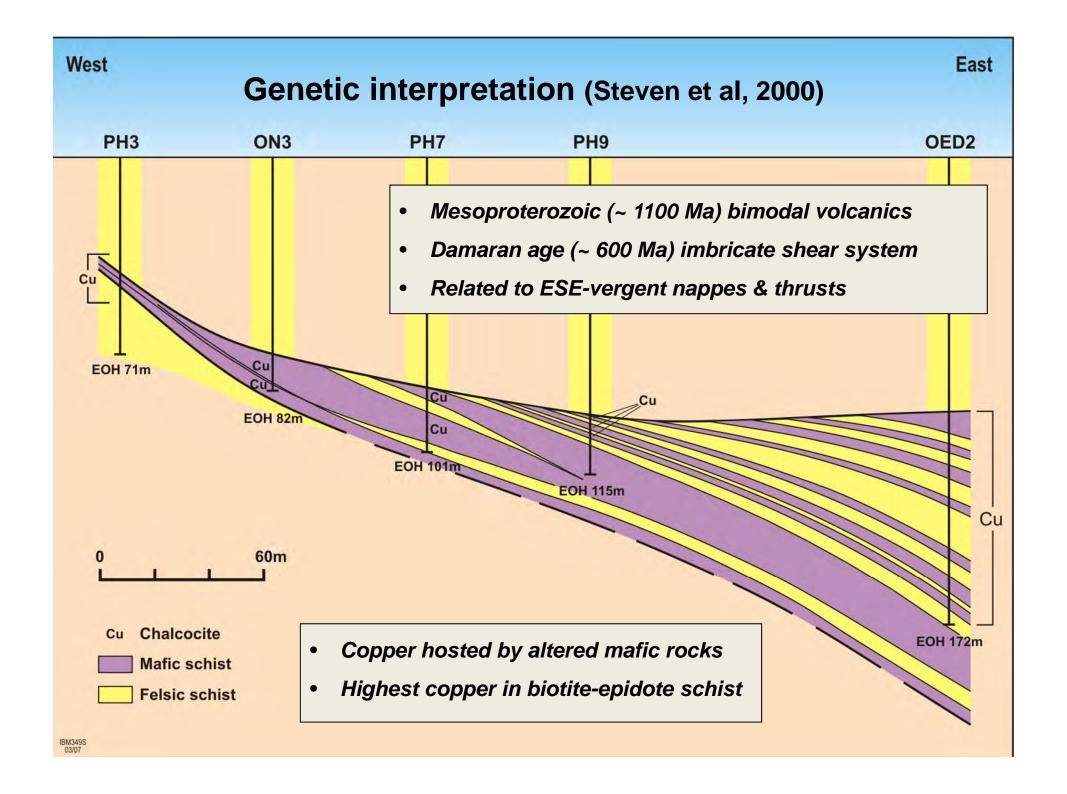
Potential for 20 Mt at 0.5% Cu at 0.2% Cu cut-off



Resource estimate (Hellman, 1996)

- Inferred Resource
 7.9 Mt at 0.9% Cu
 (0.5% Cu cut-off)
- Resource potential
 30 Mt at 0.7% Cu
 within drilled area





Manica Minerals 2005-06

- Interpreted regional geophysical data
- Applied for five EPLs

Exclusive Prospecting Licence (EPL)

- Three-year licence
- Areas up to 1,000 km²
- Annual expenditure & reporting commitments
- May be renewed twice for two-year periods
- Further renewals require ministerial consent

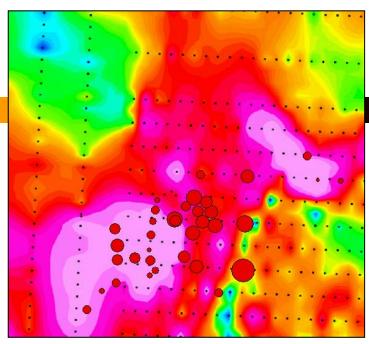
Project assessment, Feb 2007

- Potential for 30 Mt at 0.7% Cu
- Mainly chalcocite
- No carbonate → Potential SX-EW operation
- Potential for other deposits in the Ekuja Dome
- → JV with Manica Minerals

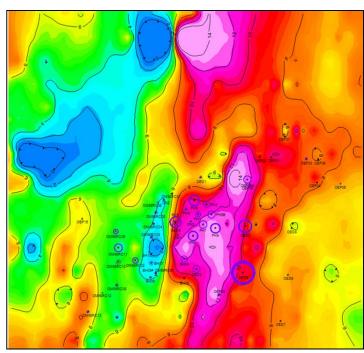


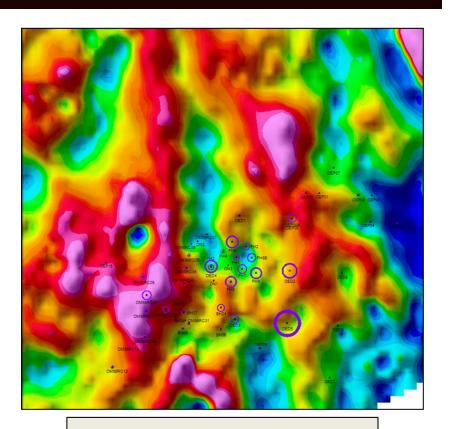
Exploration objectives for 2007

- Target: Inferred Resource 15 Mt at 0.7% Cu
- Scope the likely eventual size of the Omitiomire deposit
- Assess technical & financial parameters
- Assess other targets in the Ekuja Dome



Review of soil geochemistry

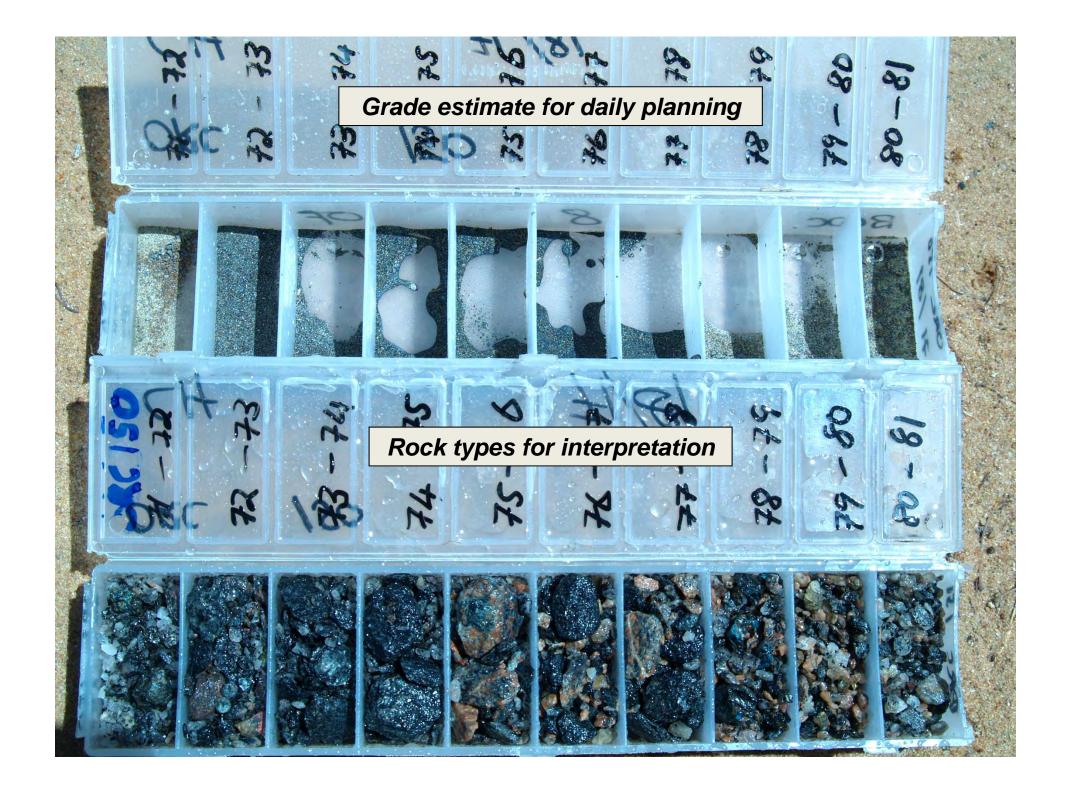




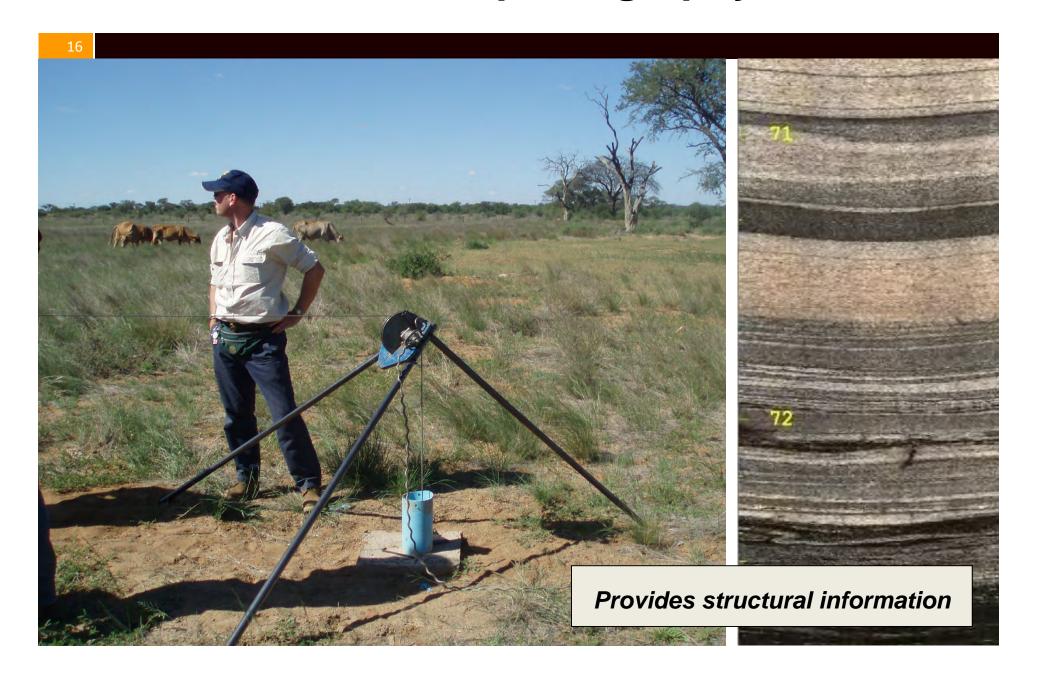
Ground magnetic survey

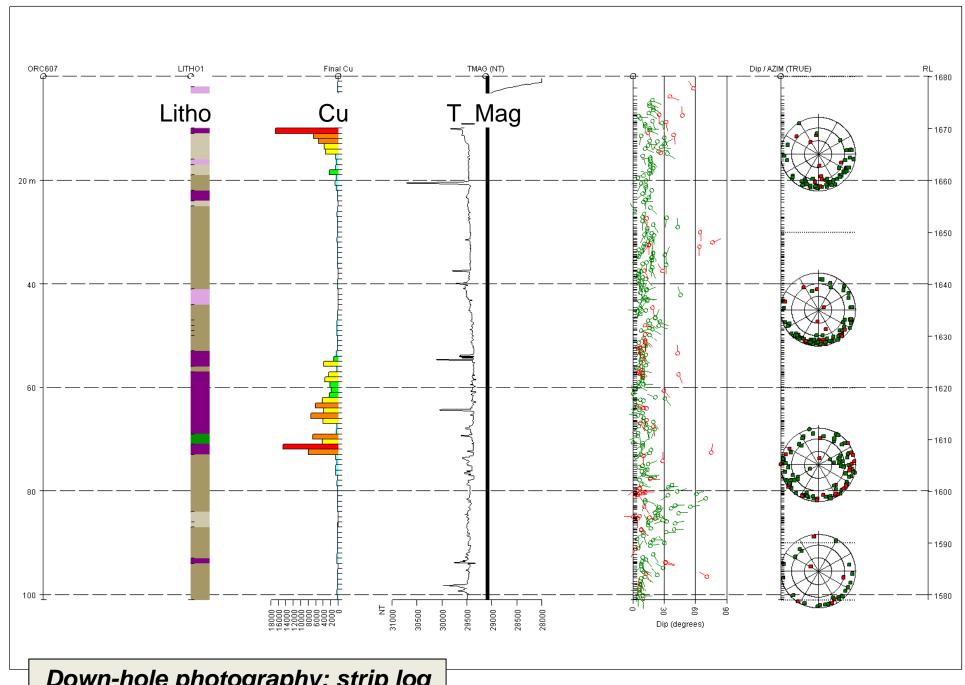
I.P. survey





Downhole photography





Down-hole photography: strip log

The copper zone



Disseminated chalcocite in biotite - hornblende - plagioclase schist

Geology

Hanging wall: barren felsic gneiss





Ore zone: mafic schist



Mineralogy

• Chalcocite Cu₂S ~ 90%

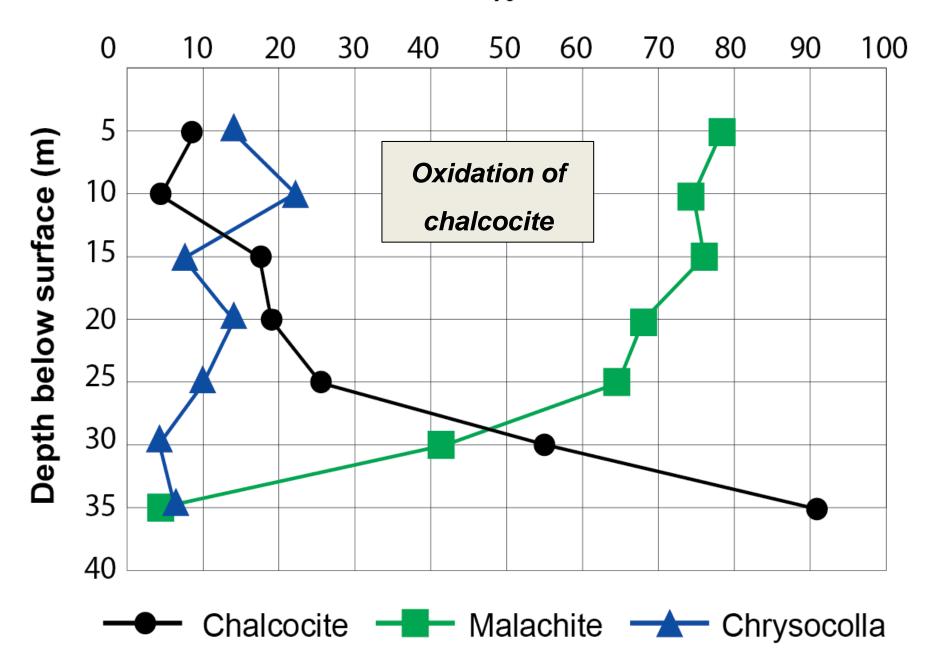
• Bornite Cu₅FeS₄ ~ 8%

Chalcopyrite CuFeS₂ trace

No iron sulphide

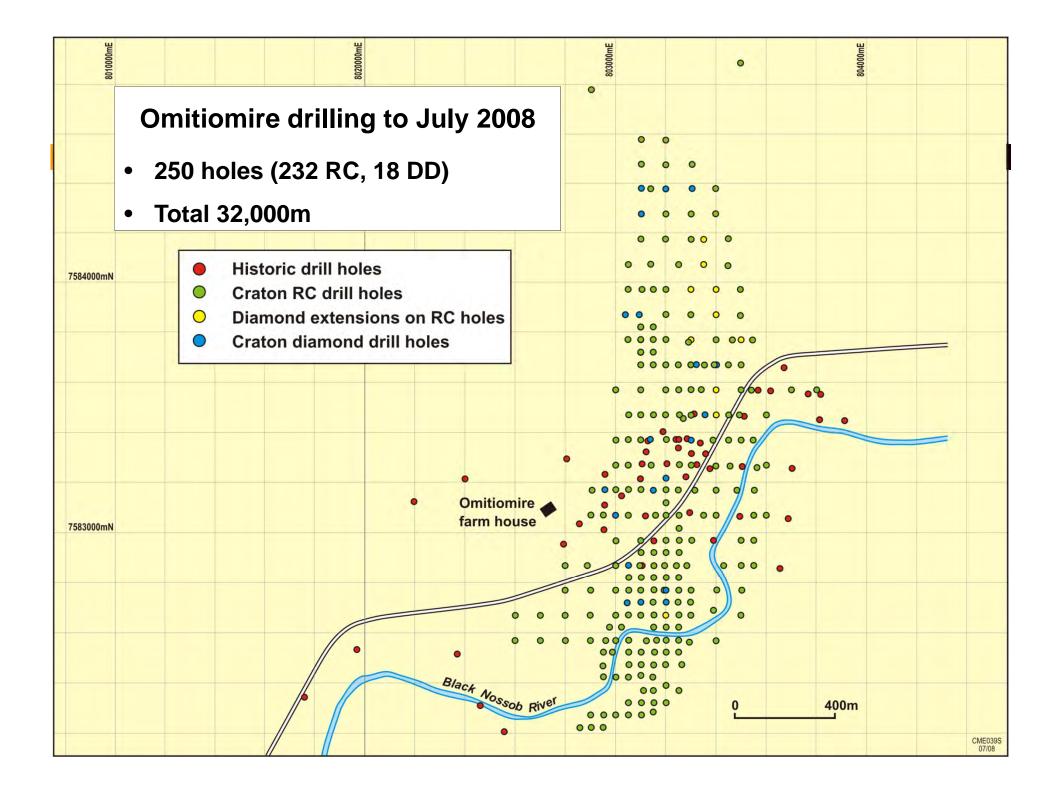
- No Zambian-type mineral zoning
- Minor magnetite
- Minor hematite

Chalcocite (shiny grey mineral) in drill core

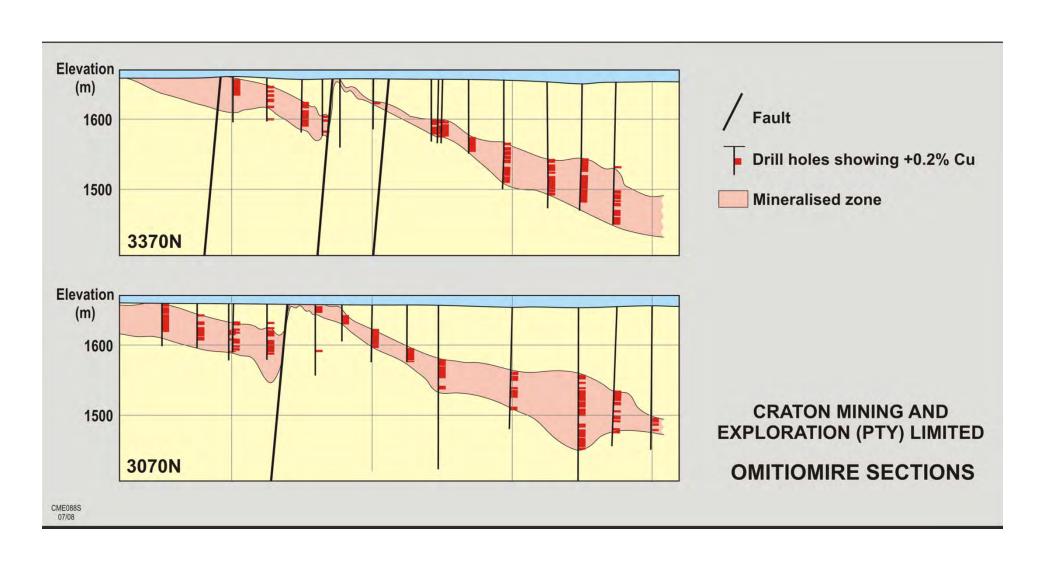


Corporate objectives 2008

- Identify a resource of 400,000 tonnes of contained copper
- Produce a prospectus for an ASX listing in late 2008
- Raise A\$30 million at Initial Public Offering (IPO)
- Initiate a bankable feasibility study



Structural interpretation 2008



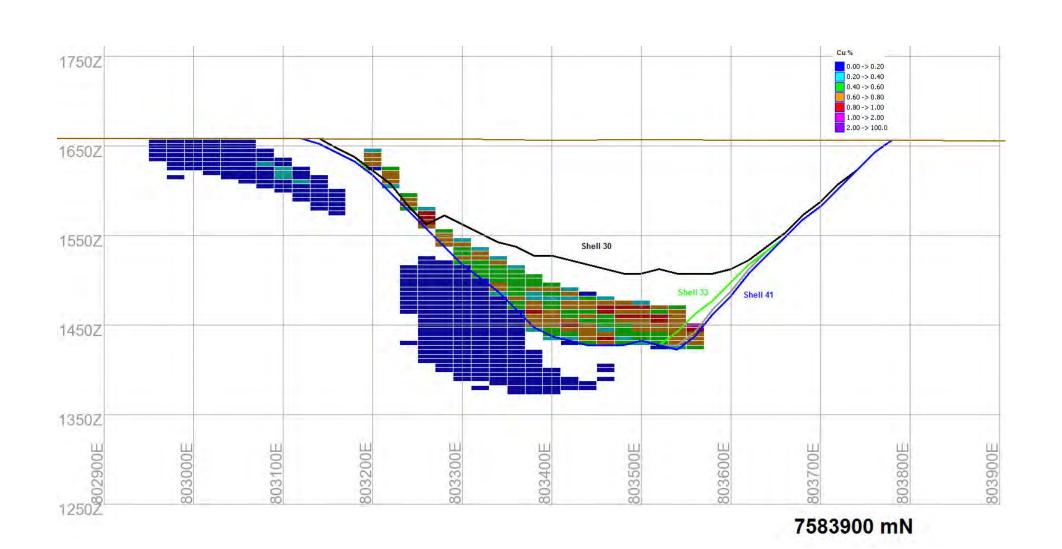
Resource August 2008

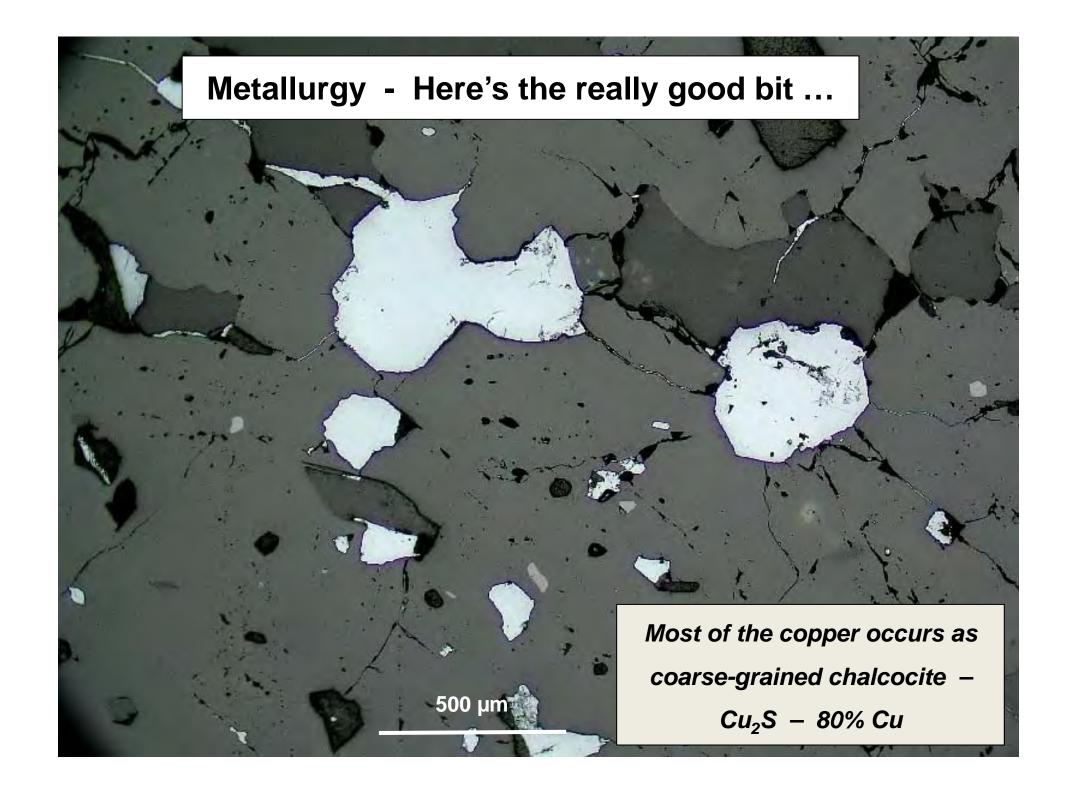
98 Mt at 0.51% Cu at 0.25% Cu cut-off

(500,000 tonnes contained copper)

(17% Indicated, remainder Inferred)

Preliminary mine planning





Proposed sulphide copper pre-concentration

- Copper-bearing mafic schist is inter-banded with barren felsic gneiss
- Mafic schist is soft & heavy (> 2.8 g/cm³)
- Felsic gneiss is hard & light (< 2.7 g/cm³)
- → Effective pre-concentration by dense medium separation (DMS)

DMS doubles the grade of mill feed to ~ 1% Cu

Metallurgical testwork

Expected process outcomes -

- Dense medium separation of crushed ore (at 2.7 g/cc):
 - Doubles run-of-mine grade at 95% copper recovery
- Flotation of sulphide ore
 - Concentrate grade exceeds 50% Cu at 95% recovery



Preparation for an IPO

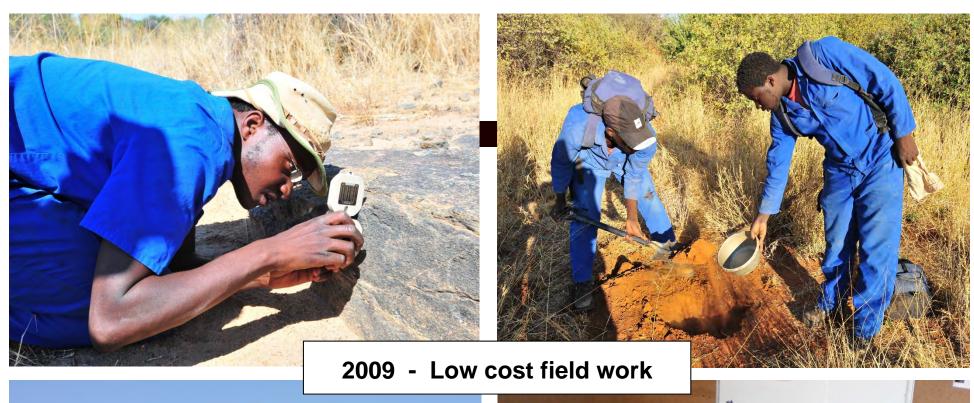
- Scoping study completed
- Independent geological report & valuation completed
- Investigating accountant's report completed
- Prospectus prepared
- Two new non-executive directors appointed (Sept 2008)

Global financial crisis



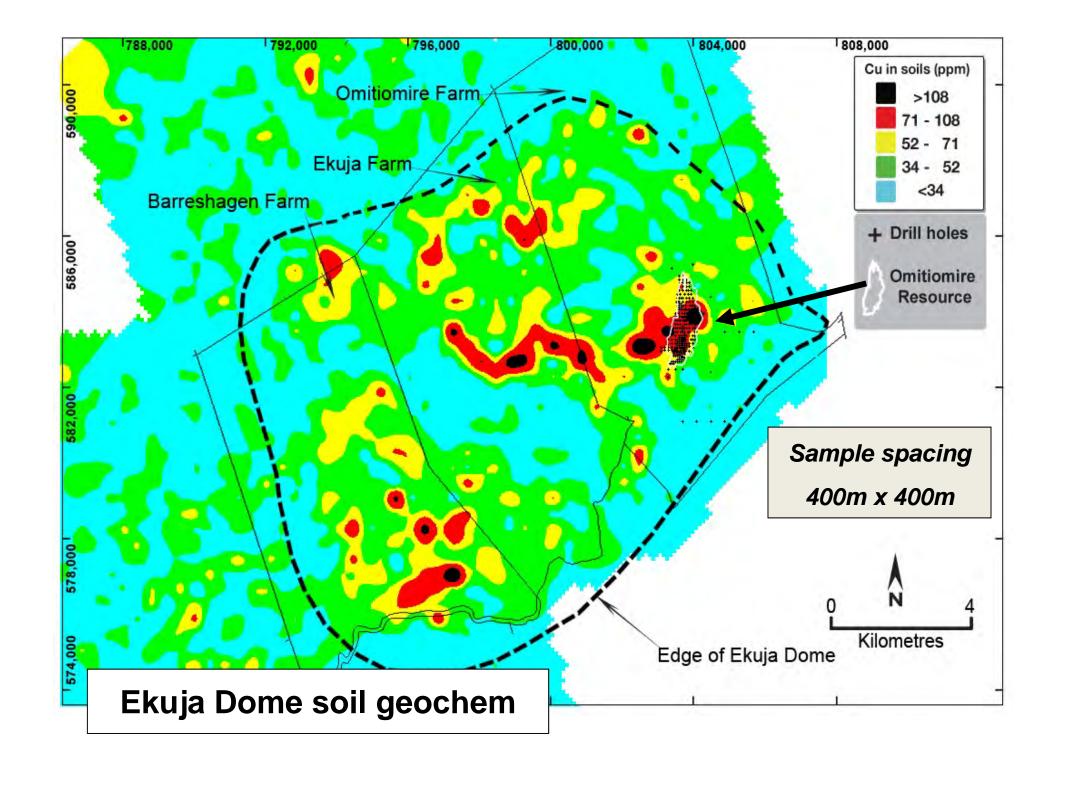
IBML's response to global financial crisis

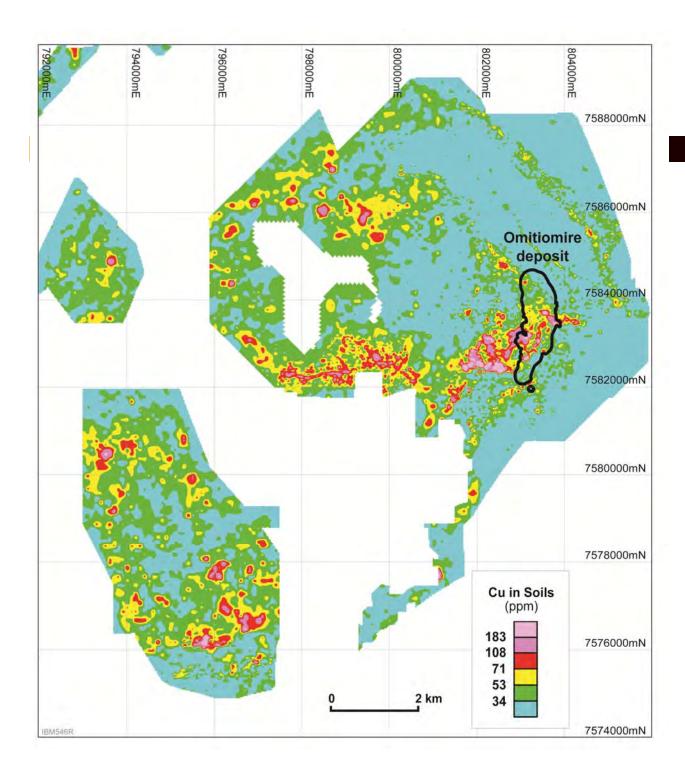
- Cut costs
- Close down Australian projects
- Seek private funding
- Continue low-cost exploration at Omitiomire





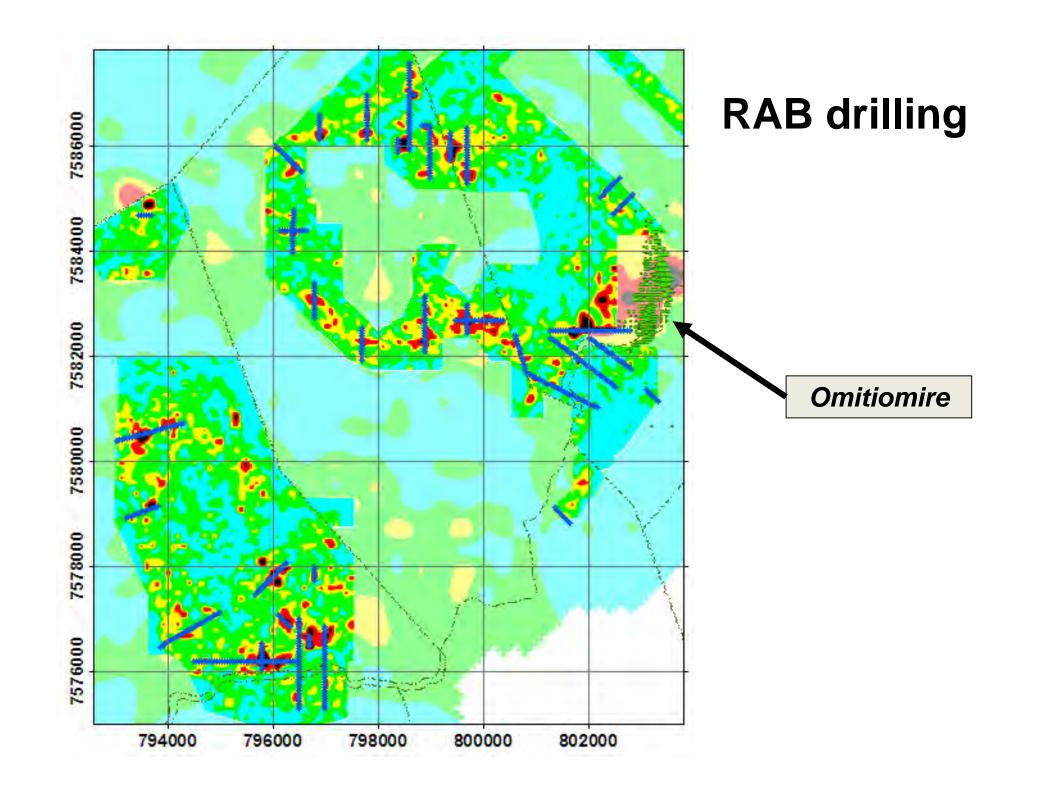




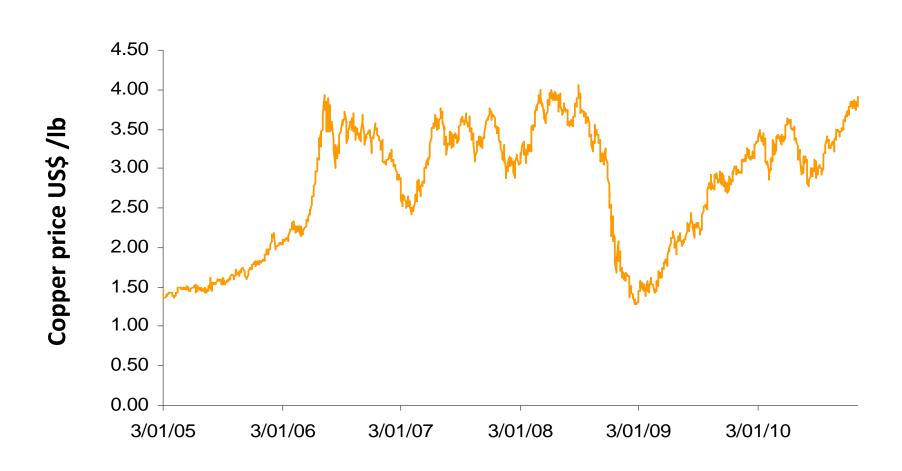


Infill soil geochem

Sample spacing 100m x 100m



2010 - copper price bounces back

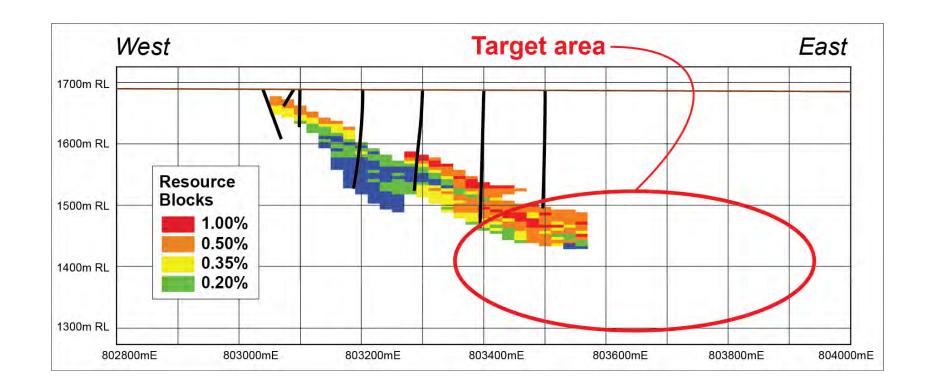


Company strategy 2010

- Carry out a pre-feasibility study on the Omitiomire resource
- Prepare for an IPO and a listing of the Company's shares
- Seek JV funding for other projects

Geology - 2010

- Tabular body, 10 60m thick
- Grade & thickness increase down dip to east
- Growth potential + 1 Mt contained Cu



Resource 2010

| Cut-off | Ore | Grade | Copper |
|---------|-----|-------|---------|
| % Cu | Mt | % Cu | tonnes |
| 0.25 | 117 | 0.5 | 579,000 |

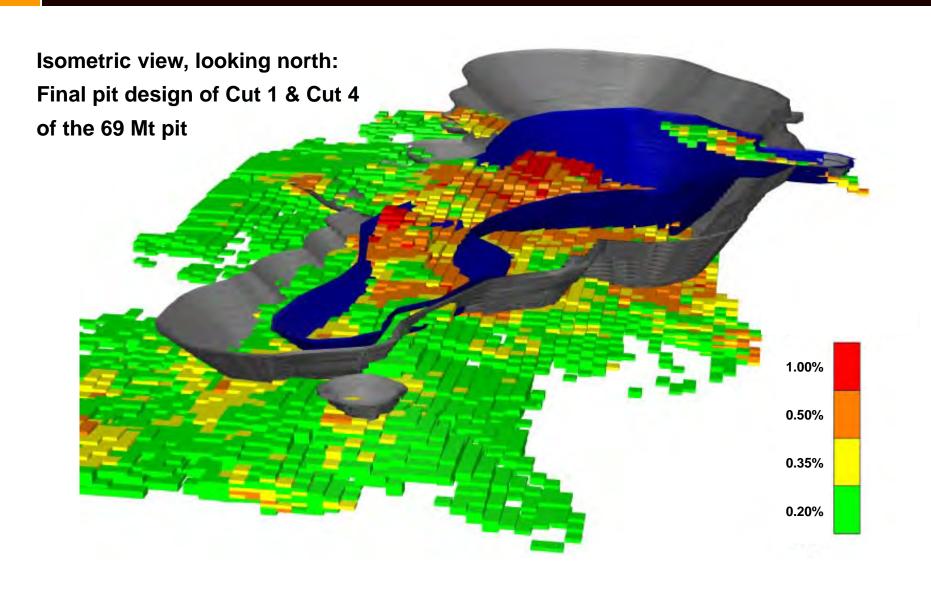
804000E 803000E 7584270N 7583270N 7582270N 500 m

Drilling

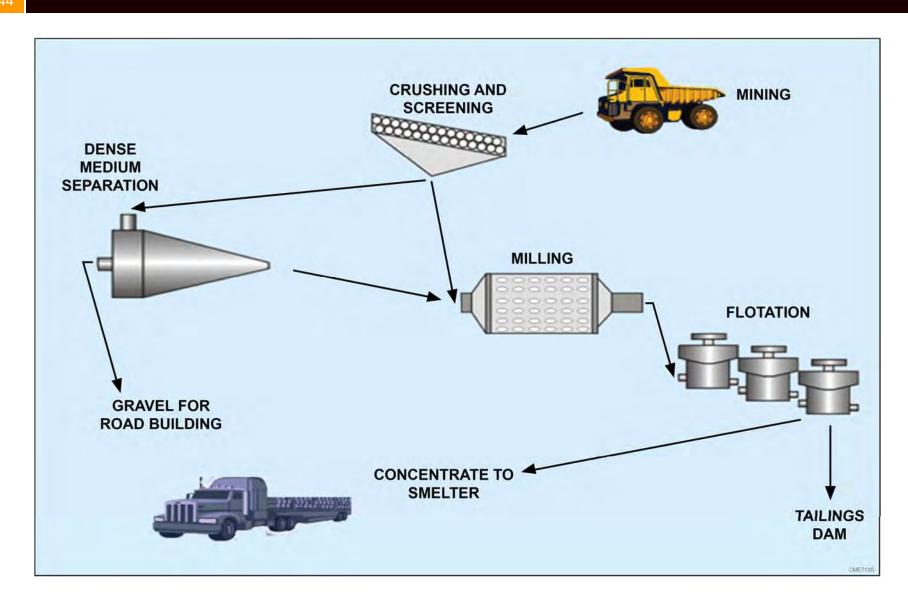
- 305 holes totalling > 42,000m
- Deposit covers 2,600m x 700m
- Depth > 150m at eastern edge
- Plunges north
- Remains open to northeast

Proposed pit outline

Pit design



Process flow sheet



Major infrastructure costs

- Relocate the road around the mine
- Relocate the Black Nossob River
- Road upgrade
- Water supply pipeline
- Power line

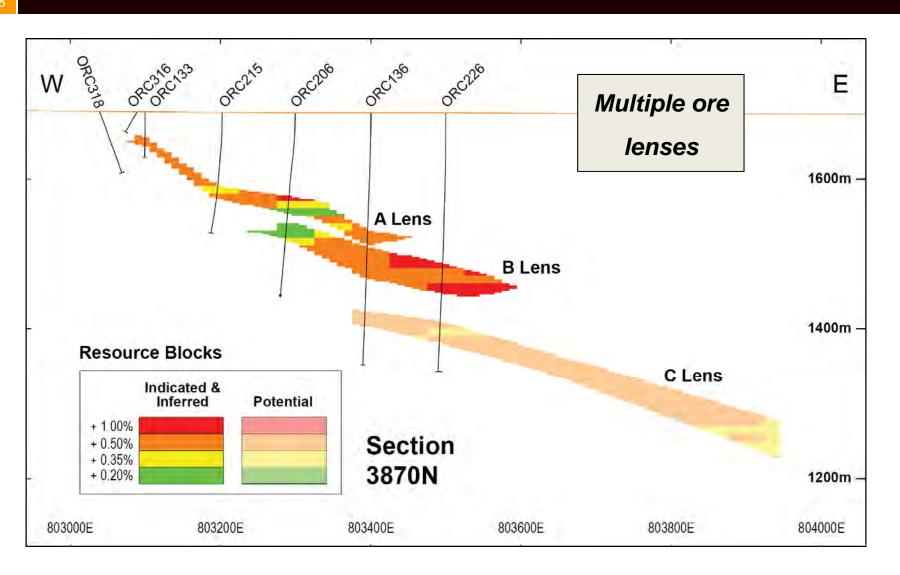
Preparing for IPO 2010

- New MD appointed
- Pre-feasibility study completed
- Independent expert reports
- Lawyer appointed
- Prospectus prepared
- Marketing

But

- Project financials not sufficiently attractive
- Unable to attract new investors
- Withdrew prospectus in early 2011

New structural interpretation



Resource estimate, August 2012

| Cut-off grade | Resource | Grade | Metal |
|----------------------|----------|--------|----------|
| (% Cu) | (Mt) | (% Cu) | (tonnes) |
| 0.25 | 136 | 0.53 | 712,000 |

Additional potential in area of sparse drilling:

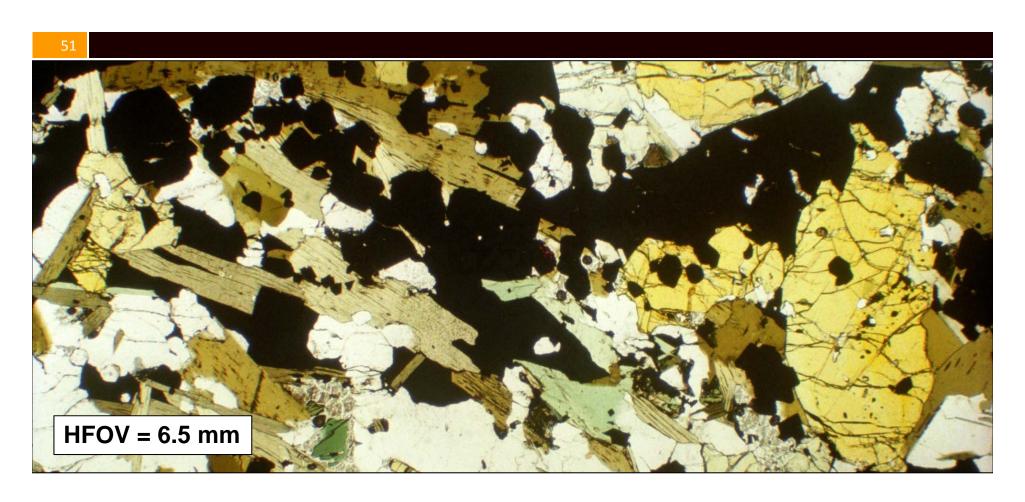
94 Mt at 0.53% Cu at 0.25% Cu cut-off (516,000 t copper)

High grade copper in shear zones



Narrow zones of biotite-epidote schist with chalcocite, sphene & some fuchsite

Thin section of ore zone



Epidote poikiloblasts (yellow) with magnetite & chalcocite inclusions

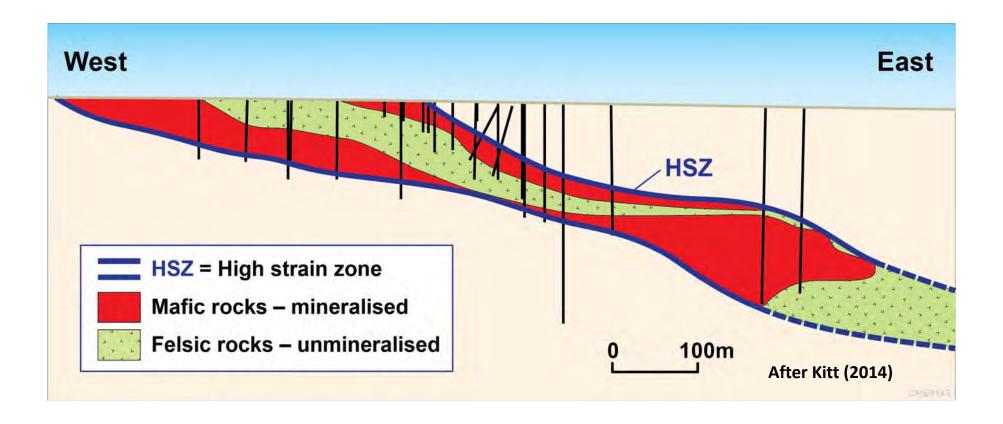
→ Chalcocite is a primary mineral

Shear zones

Narrow shear zones are characterised by -

- Strong deformation (shearing)
- Alteration to biotite-epidote
 i.e. strong retrograde fluid flow
- Concentrations of chalcocite Cu₂S

Omitiomire - cross section



The Omitiomire deposit is within a high strain zone up to 100m thick Copper is hosted by altered mafic rocks in this high strain zone

Ore genesis

- Retrograde metamorphic fluid
- Channelled into shear zone
- Reacted with tectonised amphibolite
- Late in Damaran orogenic event post-peak metamorphism
- Shear zone interpreted as detachment fault related to exhumation of Ekuja dome

Heilong investment

- Heilong Group established in 1997
- Based in Harbin, the capital of Heilongjiang Province, China
- Exploration & project development expertise
- Initial investment in IBML in 2012
- Major shareholder in IBML in 2013

New strategy

A two-stage approach to bring Omitiomire into production:

- Phase 1 a small project based on oxide copper resource
- Phase 2 a larger project based on sulphide copper resource

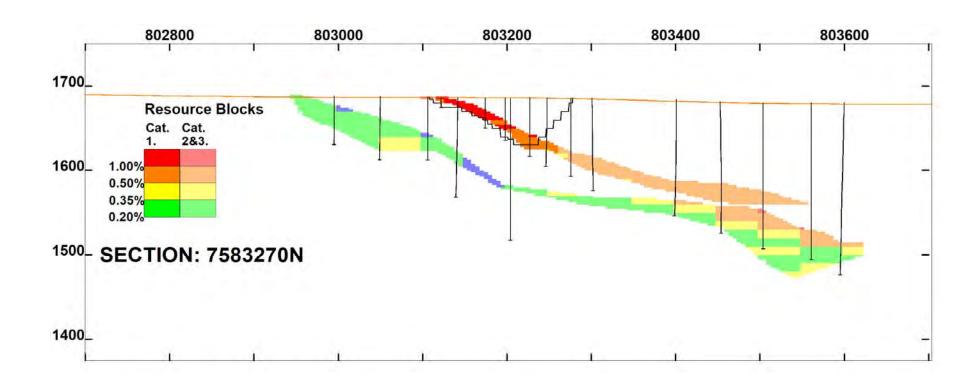
Omitiomire Deposit 1 km

Infill drilling

- Three shallow high grade zones selected for mining
- Planned maximum depth 50m
- Reserve: 3.14 Mt at -0.60% Cu (oxide); plus0.33% Cu (sulphide)

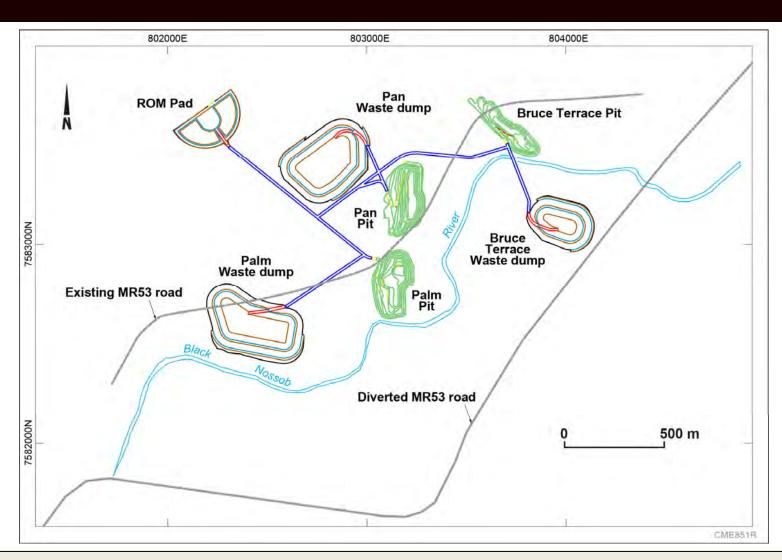
The clusters of closely-spaced holes show oxide copper zones proposed for early mine development

West to east section



Section showing Pan Pit

Phase 1 project: pit layouts

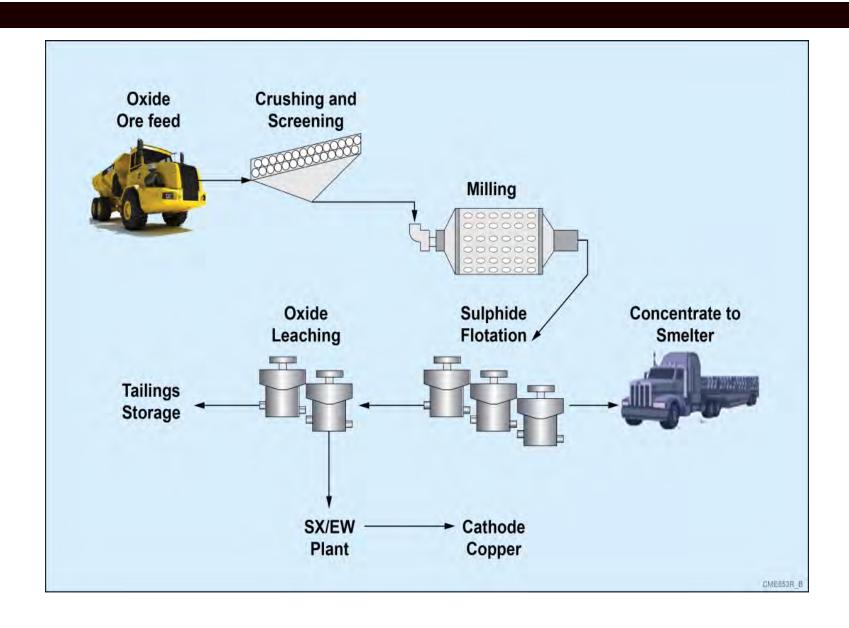


Three small pits located on near-surface high grade oxide copper

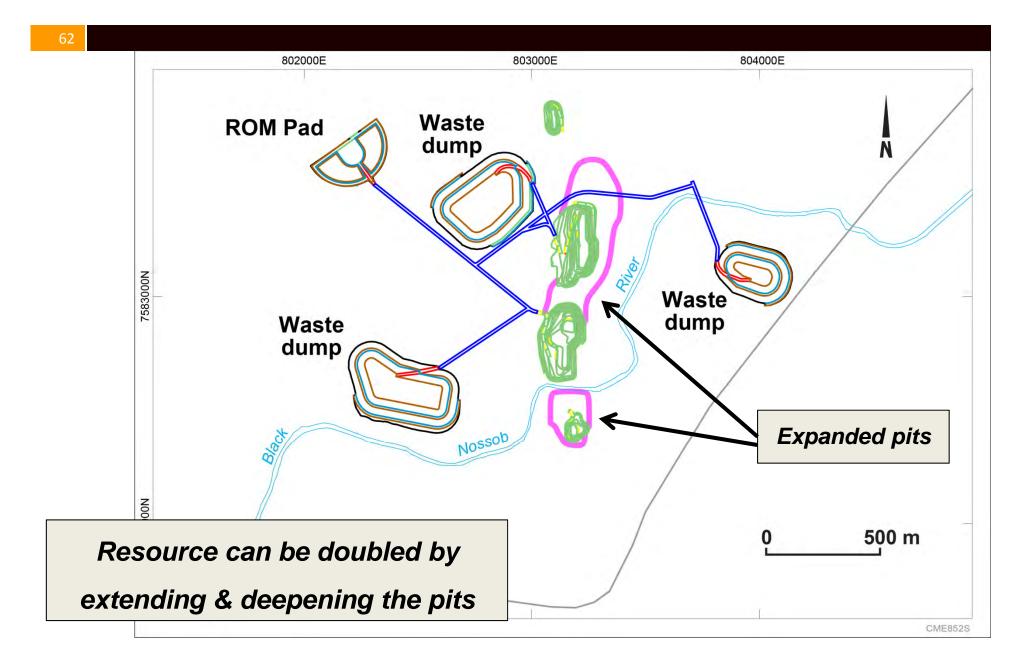
Phase 1 project: ore processing

- Chalcocite: Flotation → copper concentrate
- Oxide copper: Acid leach solvent extraction electrowinning
- → cathode copper (at least 99.9% Cu)
- Copper produced: 25,570 tonnes

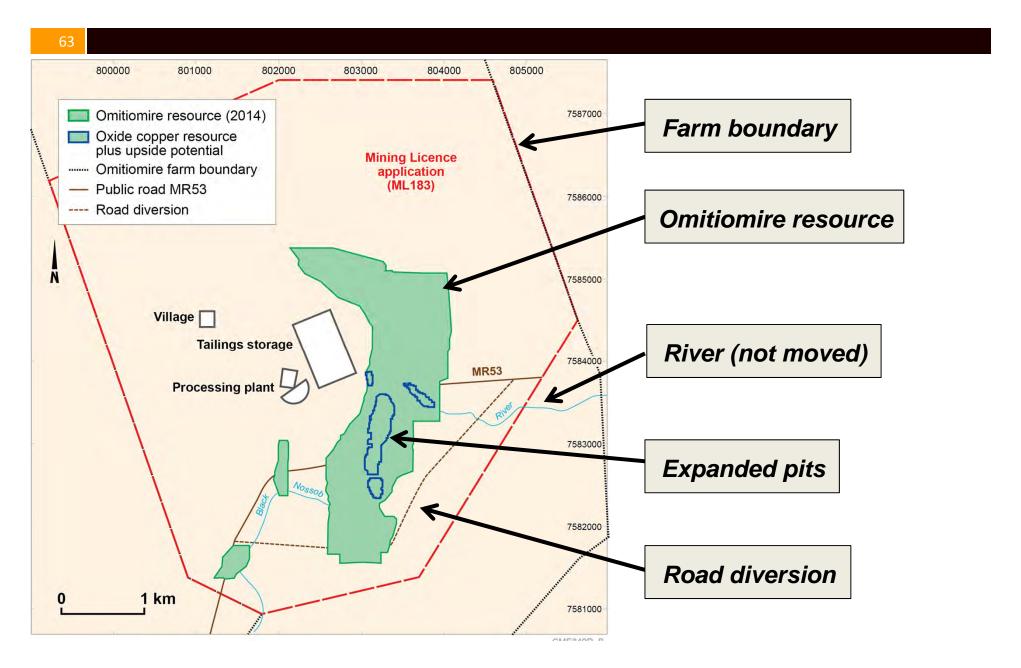
Phase 1 project: flow sheet



Phase 1 project - upside potential



Site layout



Definitive feasibility study

- A financially viable project
- Upside potential identified
- Main sensitivities: copper price and exchange rate
- No major environmental issues

Social & environmental impact assessment (SEIA)

Specialist studies -

| Surface & groundwater | Traffic | Biodiversity |
|-----------------------|---------|--------------|
| Air quality | Noise | Archaeology |
| Social / economic | Visual | Soils |

Environmental management plan

- The EMP is a legal commitment for sound environmental practice
- Procedures & policies
- → Prevent pollution & limit damage
- Induction, training & awareness
- Stakeholder engagement, including public participation meetings

Current status

- Mining Licence application lodged
- Environmental Management Plan lodged
- Project Manager appointed
- Implementation team being appointed
- Non-executive directors appointed to Board of subsidiary company

Short-term objectives

- Obtain a Mining Licence
- Obtain environmental clearance
- Secure long-term surface access
- Resolve other outstanding issues

Company strategy

- Construct & operate the Omitiomire oxide copper project
- Expand copper resources within trucking distance of Omitiomire
- Complete a Definitive Feasibility Study for the larger Phase 2 project
- List IBML on an appropriate securities exchange