Discovery History of Sierra Gorda, Antofagasta Province, Chile:



Patrick Fahey - Quadra Mining, Ltd (Currently Copper Discovery Ventures, Ltd)

Jack Currie - KGHM International

Jorge Maya-Marin - KGHM International

Jaime Diaz- - KGHM International

Gregory McKelvey – Copper Discovery Ventures, Ltd



The Sierra Gorda Mine



KGHM
INTERNATIONAL

SIERRA GORDA DISCOVERY TEAM

Current reserve: 1 270 M toppes at 0 52% CuEO at 0 2% CuEO

Current reserve: 1,270 M tonnes at 0.52% CuEQ at 0.2% CuEQ

M, I, and I: 2,917 M tonnes at 0.2% CuEQ

Sierra Gorda Project



Spence from Sierra Gorda. Mature terranes are the future of exploration; and for all practical purposes the future is now...



Sierra Gorda & Surroundings

Major discoveries since 90's



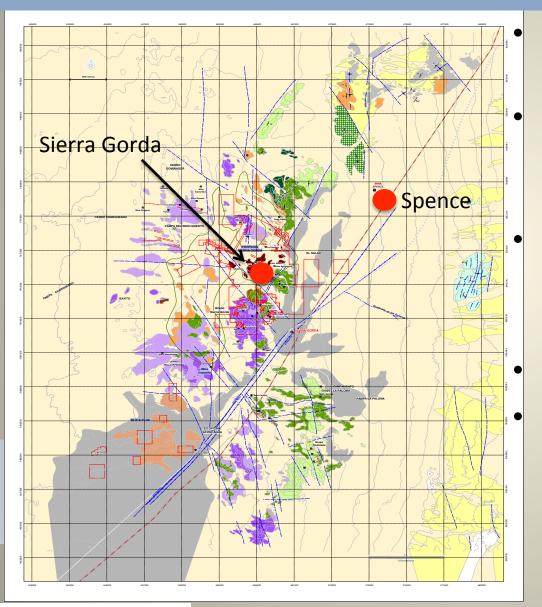
• Paleocene-Eocene:

- Lomas Bayas Oxide
- Spence Supergene sulfide/ oxide
- Sierra Gorda Hypogene sulfide

Late Eocene-Oligocene:

- Tesoro Exotic
- Esperanza Hypogene
- Esperanza Sur (Telegrafo) –
 Hypogene and supergene
- Encuentro Oxide
- Polo Sur Hypogene

Sierra Gorda District



Located on E side of batholith against Mz andesites

Late stage porphyries and tourmaline breccias cut batholith and wall rocks

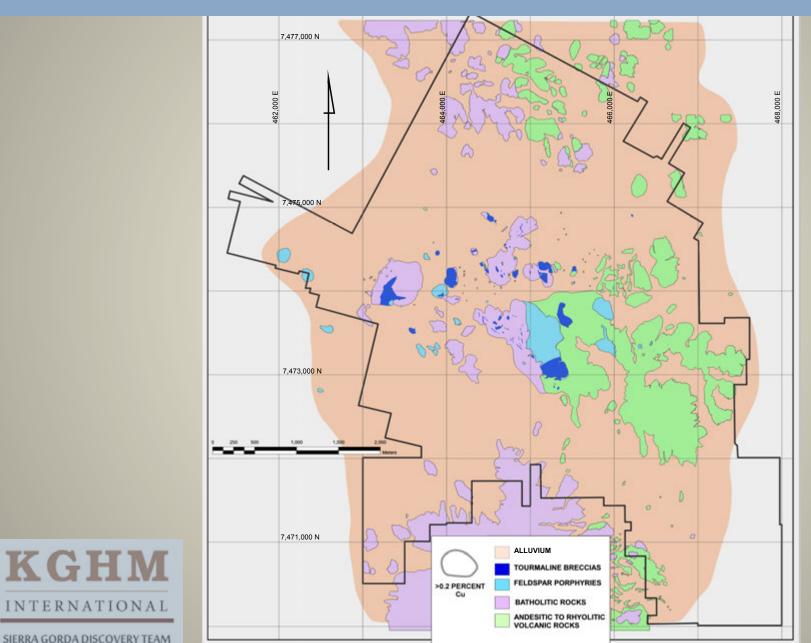
Much of the project area was covered by colluvium

Mineralization is 57.5 to 60 ma Spence is slightly younger & shorter lived



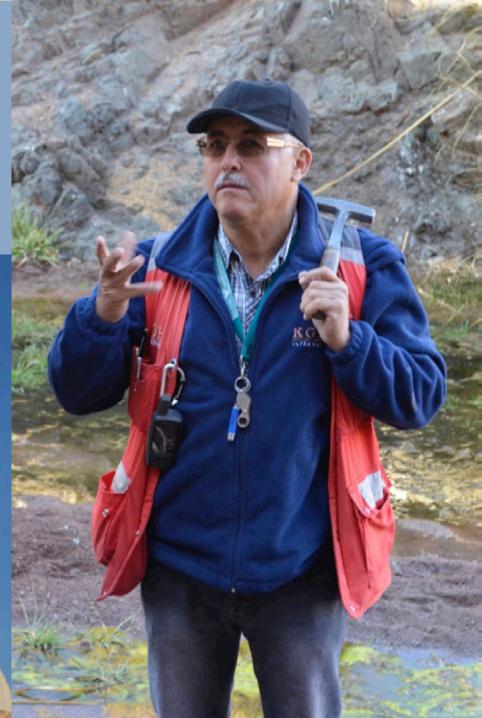


Sierra Gorda - Before Quadra

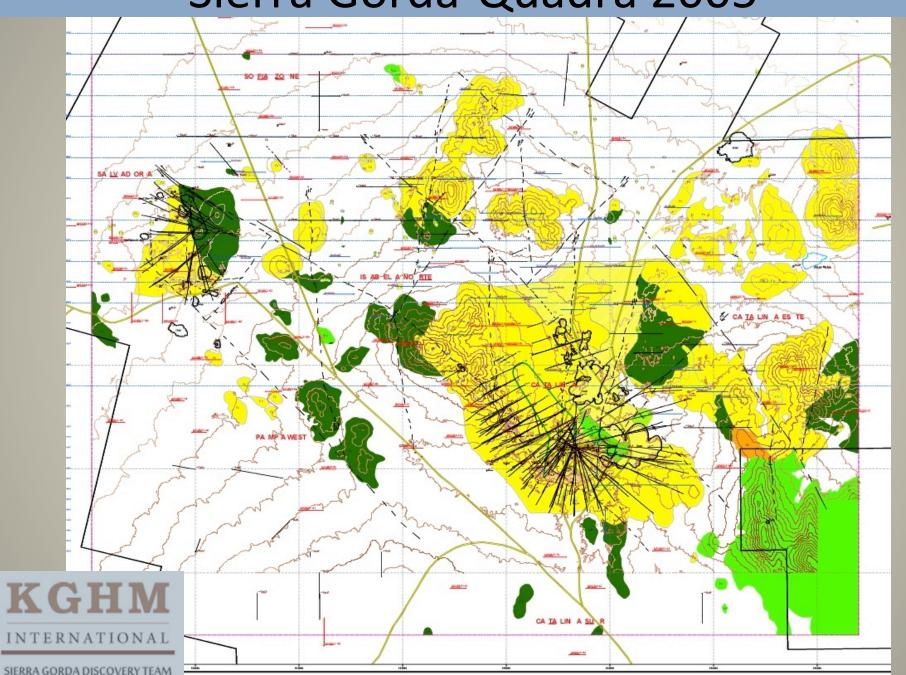


Sierra Gorda Quadra 2004

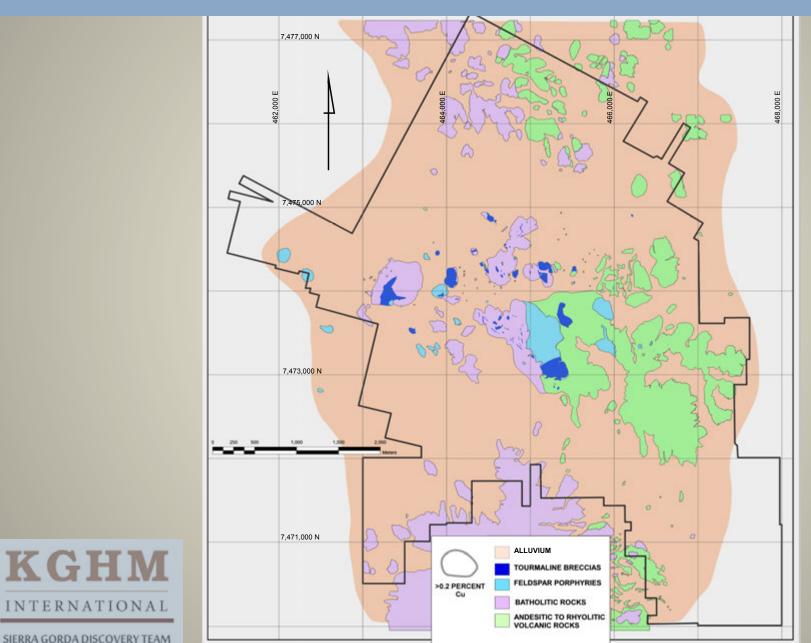




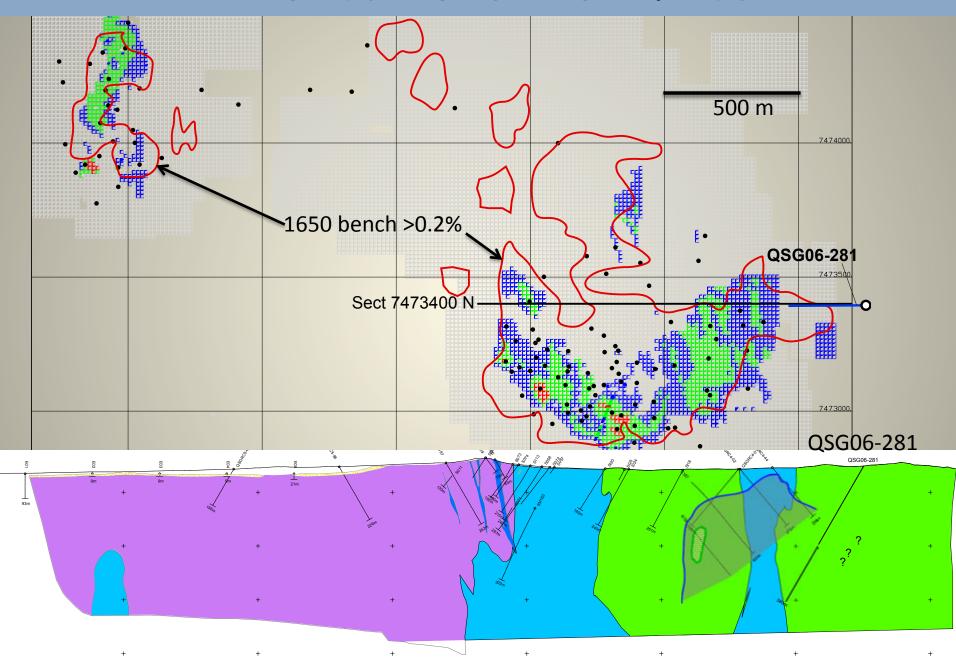
Sierra Gorda-Quadra 2005



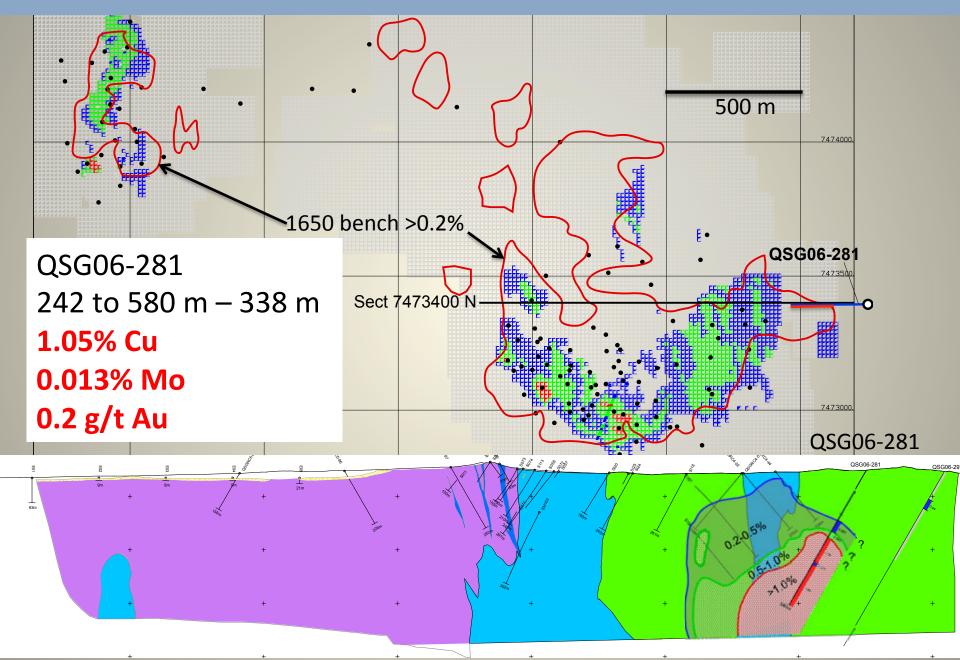
Sierra Gorda - Before Quadra

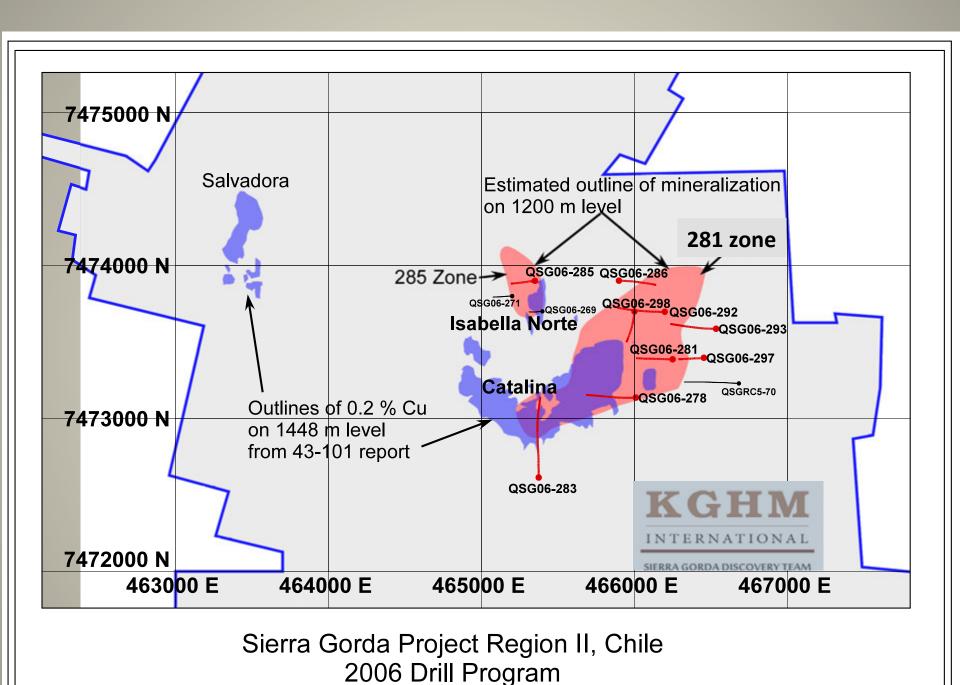


1448 Cu Bench > 0.2 % Cu

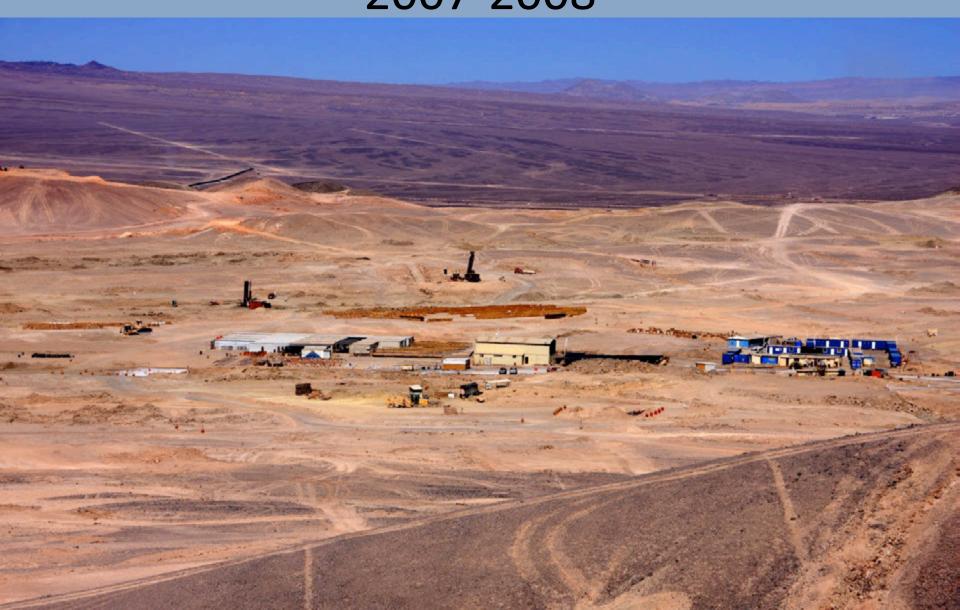


1448 Cu Bench > 0.2 % Cu





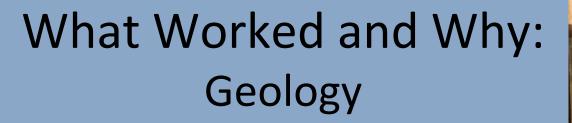
Sierra Gorda 2007-2008



Sierra Gorda

What Worked and Why





"Ore deposits are rocks." Eric S. Cheney





What Worked and Why: Geologic Team



What Worked and Why: Management

- Bill Mykatyn-CEO
- Paul Blythe-President
- Jack Miller-COO
- Derek White-CFO
- Russell Alley-President, Minera Quadra Ltda.



What Worked and Why: Aggressive Drilling and Quick Followup

"Go big or go home."

Jack Currie, Project Manager – when he submitted a 2006 budget for \$12 million (we got \$4 million)

"Hmmph"

Jorge Maya, Chief Geologist – when I told him he could only have 250 meters for hole 281

"Hasta bornita o magma." (Until bornite or magma)

Jaime Diaz, Senior Geologist, when I asked how deep we should drill after DH 281

"Go metric, it's much easier to propose a 900 m drill hole without a quaver in your voice than to ask for a 3000 footer."

Pat Fahey, VP, Exploration

What Worked and Why: Luck

"If you have your choice between being smart or being lucky — take luck — it's way ahead every time."

Stewart R. Wallace, 1974 Jackling Award Lecture

"The Henderson Ore Body-Elements of Discovery, Reflections"





"Where oil is first found, in the final analysis, is in the minds of men."

Wallace Pratt, 1951...

The Point of Cheney "Fest" People - Mentors

"Where oil Ore is first found, in the final analysis, is in the minds of men and women."

"Ore is found in the minds of men and women."

As clarified and clipped by a hypothetical E.S. Cheney edit...

Thanks Eric, for instilling the skills and passion for geology and discovery into students through a long and worthy career.

END