



# GOLDFIELDS EXPLORATION

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## TECHNICAL NOTE

sulphur1.doc

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cc : RGC Exploration Information Centre Reference:

From : Tim Callaghan

Date : 27 June, 2001

Subject : South Henty and Mt Julia Sulphur Isotopes

### INTRODUCTION

During June 1998 fourteen samples from Mt Julia and Sth Henty were submitted to the University of Tasmania CSL for analysis of stable isotopes of sulphur. The aims of the investigation were to:

- 1) Signature the sulphur in the deposits and provide an idea of the fluid source and depositional processes.
- 2) Identify zonation patterns that may provide useful vectors to aid exploration for high grade parts of the system.

Samples were selected from drillcore intersections and the sulphides for analysis marked before despatch. Table 1 lists sample locations, sulphide types, a brief description of the samples and the  $\delta^{34}\text{S}$  value obtained for each analysis (reported in ‰ CDT).

Prospect	Samp_Id	Hole_Id	Depth	Mineral	Delta34S	Remarks
STHHENTY	1080025	SHD17	681.10	Pyrite	13.79	Minor Py-Sphal-Gal in dacites.
STHHENTY	1080026	SHD17	655.90	Pyrite	10.98	Minor Py-Sphal-Gal vns in dacites.
STHHENTY	1080027	SHD16	567.50	Pyrite	6.66	Disseminated Py-Cpy in CVC
STHHENTY	1080028	SHD16	661.40	Pyrite	5.96	Disseminated Py-Cpy in CVC.
STHHENTY	1080029	SHD16	704.30	Pyrite	6	Disseminated Py-Cpy in CVC.
STHHENTY	1080030	SHD16	714.30	Pyrite	8.01	Disseminated Py-Cpy in CVC.
STHHENTY	1080031	SHD16	775.00	Pyrite	5.95	Pyrite bands in vitric siltstone.
STHHENTY	1080074	SHD1	676.3	Barite	44.43	Barite vein in altered pumice breccias.
MTJULIA	1080032	MJ005A	913.20	Pyrite	-3.25	Pyrite in MV/MQ.
MTJULIA	1080033	MJ005C	874.00	Pyrite	9.94	MQ with Minor MV, Py
MTJULIA	1080033b	MJ005C	874.00	Chalcopyrite	8.75	MQ with minor MV, Cpy
MTJULIA	1080034	MJ006A	955.70	Pyrite	11.19	MV, Cpy-py rich
MTJULIA	1080034b	MJ006A	955.70	Chalcopyrite	9.83	MV, Py-Cpy rich
MTJULIA	1080035	MJ006B	829.40	Pyrite	7.72	MQ

Table 1. Sample locations, descriptions and  $\delta^{34}\text{S}$  analysis.