



Rio Tinto Exploration Pty. Limited

ABN 76 000 057 125 / ACN 000 057 125

A member of the Rio Tinto Group

First Annual Report
for the Period Ending 18th April 2003
EL 22897, Huckitta, Arunta Programme
Alcoota SF53-10 & Huckitta SF53-11,
Northern Territory

Exploration Report No. 25601

Tenement Holder:	Rio Tinto Exploration Pty Limited
Date:	April 2003
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SUMMARY OF ACTIVITIES

Exploration during the period ending 18th April 2003 across Huckitta EL 22897 has included an airborne Hoist EM survey, surface sampling, ground magnetic surveying, earthworks, drilling and rehabilitation. The orebody target sought was layered mafic intrusive Ni-Cu sulfides.

The Hoist EM survey indicates two conductive responses. The responses were tested by four holes totalling 971.9 metres. The first response (Conductor A) appears to be due to a deep circular feature infilled with carbonaceous mud and shales and the second response (Conductor B) appears to be due to clay enrichment within a shear zone.

Drilling of Conductor A identified a deep, crater-like feature within basement rocks infilled with conductive sediments. The cause of this geological feature is uncertain. The breccia beneath the crater infill is comprised almost entirely of locally derived basement granulitic clasts and matrix. There is no indicator of mineral potential with these targets. The area has been downgraded and no further work is warranted. RTE has decided to divest the tenement.

Table 1: Exploration Summary

EL Name	Huckitta
EL Number	EL 22897
Rock Chip Samples	16
Petrology Samples	5
Hoist EM survey area and line km	79 square km 395 line km
Ground Magnetism Survey line km	4.62 line km
Number of drill holes	4 (totalling 971.9m)

Table 2: Exploration Drilling Summary

Drillhole Name	Metre interval	Drill Method	Comments
DD02KAN001	0 - 45	RC	
	45 - 281	Mud rotary	
	~ 110 – 275.1	Mud rotary	Unintended hole deviation during redrill (daughter hole)
	275.1 – 317.1	NQ diamond core	
DD02KAN002	0 - 45	RC	
	45 – 97.6	Mud rotary	
	97.6 – 119.6	NQ diamond core	
RC02KAN001	0 - 225	RC	
RC02KAN002	0 - 304	RC	

[illegible]

	em_L1555.map em_L1560.map em_L1575.map <u>Sub-folder Plan Files:</u> Conductivity Slice 10m.pdf Conductivity Slice 30m.pdf Conductivity Slice 50m.pdf Conductivity Slice 100m.pdf Conductivity Slice 200m.pdf <u>Sub-folder Processed Data Files:</u> HUCKITTA.TEM <u>Sub-folder Raw Data Files:</u> Huckitta_raw.asc <u>Sub-folder Report Files:</u> Job_2122-Huckitta.pdf	.pdf .pdf .pdf .pdf .pdf Geosoft Oasis Montaj .tem file ASCII .txt file .pdf
Gravity		
Digital terrain modelling		
Other (specify)		
Remote Sensing		
Aerial photography		
LANDSAT		
SPOT		
MSS		
Radar		
Other (specify)		
Ground Exploration Surveys		
Geological Mapping		
Regional		
Reconnaissance		
Prospect		
Underground		
Costean		
Ground Geophysics		
Radiometrics		
Magnetics	Huckitta Groundmag.txt	.txt
Gravity		
Digital terrain modelling		
Electromagnetics		
SP/AP/EP		
IP		
AMT		
Resistivity		
Complex resistivity		
Seismic reflection		
Seismic refraction		
Well logging		
Geophysical interpretation		
Other (specify)		
Geochemical Surveying		
Drill sample		
Stream sediment		
Soil		
Rock chip	H_WASG2_ROCKGEOCHEM2003.TXT	.WASG2.
Regolith		
Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis	DPO200210_Mineral_Observation.pdf DPO200212_Mineral_Observation.pdf H_WADG2_ASS2003_K1.pdf H_WASG2_ASS2002_SEM.pdf	.pdf .pdf WADG2 WASG2
Other (specify)	<u>Petrology of drill samples:</u> H_WASL2_PETROLOGY_LOCATION.pdf Appendix_9_RTE_Drill_Petrology_20531_931.JPG Appendix_9_RTE_Drill_Petrology_20531_932.JPG Appendix_9_RTE_Drill_Petrology_20531_933.JPG Appendix_9_RTE_Drill_Petrology_20531_934.JPG Appendix_9_RTE_Drill_Petrology_20531_935.JPG Appendix_9_RTE_Drill_Petrology_20531_936.JPG Appendix_9_RTE_Drill_Petrology_20531_937.JPG Appendix_9_RTE_Drill_Petrology_20531_938.JPG Appendix_9_RTE_Drill_Petrology_20531_939.JPG Appendix_9_RTE_Drill_Petrology_20531_951.JPG Appendix_9_RTE_Drill_Petrology_20531_952.JPG	WASL2 .jpg .jpg .jpg .jpg .jpg .jpg .jpg .jpg .jpg .jpg .jpg .jpg .jpg
Drilling		
Aircore		
Auger		
Diamond		
Reverse circulation		
Rotary air blast		
Rotary percussion		

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Tungsten carbide bit (coring)		
Groundwater drilling		
All drilling	H_WASL2_COLL2003.txt H_WADL2_MAG2003.txt H_WADL2_GEO2003.txt H_WADG2_ASS2003_ICP.txt	WASL2 WADL2 WADL2 WAGL2
File Verification Listing (this table)	25601 Huckitta V.pdf	.pdf