

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
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SUMMARY OF ACTIVITES

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.

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 Magnetics Survey line km	4.62 line km	
Number of drill holes	4 (totalling 971.9m)	

Table 1: Exploration Summary

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	

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VERIFICATION LISTING

Exploration Work Type	File Name	Format
Office Studies		
Literature search	Summary_Historical_Mineral_Exploration.pdf	.pdf
Database compilation		
Computer modelling		
Reprocessing of data		
General research		
	M307JMH03.pdf	.pdf
	M2562EXT02.pdf	.pdf
	Yaxley_Chromite_Interpretation.pdf	.pdf
	25624 Huckitta Final Rehabilitation Report.pdf Appendix_9_D1053EXT02_DneiperDrillPetrology.pdf	.pdf .pdf
Report preparation	Appendix_9_RTE_Drill_Petrology_20531.pdf	.pdf
	SP415AJK03.pdf	.pdf
	D416AJK03.pdf	.pdf
	D417AJK03.pdf L334EXT03.pdf	.pdf .pdf
	D356PRC03.pdf	.pdf
Other (specify)		
Airborne Exploration Surveys		
Aeromagnetics		
Radiometrics		
	Sub-folder Grids:	
	Conductivity_10m	Geosoft Oasis Montaj files
	Conductivity_10m.ers	
	Conductivity_30m Conductivity_30m.ers	
	Conductivity_50m	
	Conductivity_50m.ers	
	Conductivity_100m	
	Conductivity_100m.ers Conductivity_200m	
	Conductivity_200m.ers	
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	em_L1000.map em_L1015.map	
	em_L1015.map em_L1020.map	
	em_L1035.map	
	em_L1040.map	
	em_L1055.map	
	em_L1060.map em_L1075.map	
	em_L1080.map	
	em_L1095.map	
	em_L1100.map	
	em_L1115.map	
	em_L1120.map em_L1135.map	
	em_L1140.map	
	em_L1155.map	
	em_L1160.map	
	em_L1175.map em_L1180.map	
	em_L1195.map	
	em_L1200.map	
Electromagnetics	em_L1215.map	0
	em_L1220.map em_L1235.map	Geosoft Oasis Montaj .map files
	em_L1235.map em_L1240.map	
	em_L1255.map	
	em_L1260.map	
	em_L1275.map em_L1280.map	
	em_L1295.map	
	em_L1300.map	
	em_L1315.map	
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	em_L1460.map	
	em_L1475.map	
	em_L1480.map	
	em_L1495.map em_L1500.map	
	em_L1500.map em_L1515.map	
	em_L1520.map	
	em_L1535.map em_L1540.map	

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Gravity	em_L1555.map em_L1575.map Sub-folder Plan Files: Conductivity Slice 10m.pdf Conductivity Slice 30m.pdf Conductivity Slice 50m.pdf Conductivity Slice 100m.pdf Conductivity Slice 100m.pdf Sub-folder Processed Data Files: HUCKITTA.TEM Sub-folder Raw Data Files: HUCKITTA.TEM Sub-folder Raw Data Files: HUckitta_raw.asc Sub-folder Report Files: Job_2122-Huckitta.pdf	.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_KI.pdf H_WASG2_ASS2002_SEM.pdf	.pdf .pdf WADG2 WASG2
Other (specify)	Petrology of drill samples: 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_936.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_938.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_951.JPG Appendix_9_RTE_Drill_Petrology_20531_952.JPG	WASL2 .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