EL 689 - FINAL REPORT

February 3, 1978

INTRODUCTION

EL 689 covering an area of 378 square miles was granted to Triako (Aust) Pty Ltd on the 22nd October 1972 and expired on 22nd October 1977. During this time the following moneys were expended by Triako or by Joint Venture Partners on behalf of Triako (Aust.) Pty Ltd:

	$
Year 1	141,765
Year 2	235,401
Year 3	170,652
Year 4	213,951
Year 5	88,231
TOTAL	$850,000

All work to the quarter ended 22.9.77 has been reported in detail, and appended is a list of titles of reports submitted to the Mines Branch during the currency of EL 689.

CONCLUDING EXPLORATION

The drill hole proposed at Buffalo Fly in the quarterly report for the period ended 30th September 1977 was completed and the Diamond Drill Log is attached. The geochemical anomaly appears to have been due to sparse authigenic mineralisation.

APPENDIX

REPORTS SUBMITTED TO MINES BRANCH

DURING THE CURRENCY OF EL 689

APPENDIX

Quarterly Report, October to December 1972 Redbank, EL 689

Quarterly Progress Report, January to March 1973
Redbank EL 689

Quarterly Report, April to June 1973, Redbank EL 689

RB 19 Progress Report 1.7.1973 to 22.10.73, EL 689 Redbank

RB 21 Annual Report, October 1973 to October 1974, EL 689, Redbank
January 1974 Triako

RB 22 Quarterly Progress Report, EL 689, Redbank N.T.
Janaury 23 1974 to April 22, 1974, Triako, April 1974

RB 29 Quarterly Progress Report, April to July 1974, EL 689, Redbank
July 1974, Triako

✓RB 32 EL 689, Redbank Report on work carried out during first year
October 1973 to September 1974

RB 37 Quarterly Progress Report, Exploration Licence 689, Redbank N.T.
22.7.74 to 22.10.74, Triako, November 1974

RB 39 ✓Annual Report Exploration Licence 689, Redbank, N.T. for the
year 22.10.73 to 22.10.74, Triako Mines N.L., December 1974

RB 41 Quarterly Progress Report, Exploration Licence 689, Redbank,
Northern Territory 22 October 1974 to 22 January 1975, Triako
Mines N.L., January 1975

RB 42 Quarterly Progress Report, Exploration Licence 689, Redbank,
Northern Territory, 22 January 1975 to 22 April 1975,
Triako Mines N.L., April 1975

RB 44 Quarterly Progress Report, Exploration Licence 689, Redbank,
Northern Territory 22 April 1975 to 22 July 1975
Triako Mines N.L., July 1975

RB 45 ✓Exploration Licence No. 689, Redbank, Northern Territory, Report
of work carried out during the period October 22, 1974 to
September 22, 1975
Triako Mines N.L., August 1975

RB 47 Quarterly Progress Report, Exploration Licence 689, Redbank N.T.
22 July 1975 to 22 October 1975, Triako Mines N.L. November 1975

RB 49 ✓1975 - Annual Report EL 689 - Redbank, Triako Mines N.L.
19/1/76 A,B,C, and D.

RB 50 Quarterly Progress Report Exploration Licence 689, Redbank N.T.
22 October 1975 to 22 January 1976, Triako Mines N.L. February 1976

RB 52 Quarterly Report, Redbank EL 689, N.T. for period 22 January 1976
to 22 April 1976, Triako Mines N.L. May 1976

RB 53 Quarterly Report, Redbank EL 689 N.T. for period 23 April to
22nd July 1976, Triako Mines N.L. July 1976

RB 54 Annual Report Exploration Licence 689, Redbank, N.T. for the year 22.10.75 to 22.10.76, Triako, January 1977

RB 55 a & b The Wollogorang Formation of the Redbank-Seven Mile Creek Area, EL 689 and EL 1327, Amax

RB 56 The Results of Stratigraphic Mapping in the Wollogorang-Redbank Area, N.T. Emile Rod Amax, January 1977

RB 57 Quarterly Report for the period ended 30/9/77 EL 689

RB 58 EL 689 Final Report, February 1978

AMAX EXPLORATION (AUSTRALIA), INCORPORATED

Diamond Drill Hole Log

PROJECT - REDBANK - BUFFALO FLY Map Sheet Calvert Hills Co-ords. Hole No. DDH.BF-1

Type - JACRO 200 Dip Bearing Final Depth 72 metres.

From	To	Drilled	Recovered	Geology	Angle
0	9.95	9.95	1.13	Porous ferruginised medium grained sandstone Porosity resulting from leaching of feldspars, partial replacement by limonite. Low recovery due to approx. 9m. of unconsolidated alluvium and sandy/mud	
9.95	13.45	3.5	3.37	Orange/pink medium grained sandstone Slightly proous due to leaching of feldspar. Kaolonite bands up to 3mm wide angular to sub-rounded grains of quartz and feldspar. Iron oxide staining on cracks and as interstitial specks and grains	
13.45	41.45	28.0	28.0	Medium to fine grained feldspathic sandstone Numerous iron oxide discolorations as blebs and veinlets, also many plans // to bedding of 2-3mm thick kaolonite. The basal region has sparse blebs of native copper.	29m/70° 36m/70° 40m/78°

Assays

From	To	L	Cu	Pb	Zn	Ag	M
9.25	9.35	.10	83	3	8	1	8
12.21	12.34	.13	12	4	4	1	7
18.83	18.91	0.08	146	7	12	1	10
31.75	31.99	0.24	18	3	3	1	5
38.88	38.99	0.11	46	22	7	1	5
38.99	39.10	0.11	204	41	14	1	6

AMAX EXPLORATION (AUSTRALIA), INCORPORATED

Diamond Drill Hole Log

PROJECT - REDBANK - BUFFALO FLY Map Sheet Clavert Hills Co-ords. Hole No. DDH.BF-1

Type - JACRO 200 Dip Bearing Final Depth 72 metres.

From	To	Drilled	Recovered	Geology	Angle	Assays From	To	L	Cu	Pb	Zn	Ag	Mn	Co
41.45	45.26	3.81	3.81	Fine grained white arkosic sandstone. Well sorted even sandstone, partly silicified, with irregular disseminations of sulphide (pyrite) also thin (1mm) bedding planes and joint planes are pyrite coated. Sparse pyrite ocelli up to 0.5cm diam.		41.78	41.91	0.13	95	17	8	1	81	2
						41.91	42.06	0.15	91	9	6	1	73	4
						42.06	42.21	0.15	104	3	3	1	54	3
						42.21	42.37	0.16	53	3	9	1	80	4
						42.37	42.52	0.15	707	32	12	1	113	9
						42.52	42.62	0.10	271	4	6	1	65	3
						42.62	42.94	0.32	90	2	6	1	69	2
						42.94	43.41	0.47	126	2	6	1	69	2
						43.41	43.64	0.23	63	2	6	1	[illegible]	[illegible]
						43.64	43.80	0.16	121	3	5	1	83	1
						43.80	44.14	0.34	74	6	9	1	105	3
						44.14	44.50	0.36	53	4	8	1	83	2
						44.50	44.70	0.20	40	2	7	1	64	2
						44.79	44.92	0.13	31	2	7	1	56	3
						44.92	45.26	0.34	35	2	6	1	79	2
45.26	53.64	8.38	8.31	Alternating layers of gritty sandstone and grey siltstone. Immature, but well sorted sandstone with grit up to 4 mm diam., interlayed with khaki siltstone. The sandstone is arkosic and has pink volcanic fragments disseminated pyrite spheres are common in the sandstone and grit along with bedding planes laminated with pyrite and grey clay. Irregular blebs of pyrite up to 4cm diam. are uncommon. Rare	50m/75°	45.27	45.34	0.07	39	10	11	1	57	4
						45.64	45.84	0.20	96	18	15	1	80	4
						45.84	45.99	0.15	121	2	15	1	60	5
						45.99	46.06	0.07	11	8	24	1	49	9
						46.06	46.10	0.04	22	2	24	1	1030	11
						46.10	46.30	0.20	22	77	29	1	76	12
						46.84	46.92	0.08	34	2	8	1	49	2
						51.30	51.45	0.15	121	21	24	1	91	4
						51.45	51.61	0.16	192	26	35	1	741	12
						52.99	53.12	0.13	44	75	24	1	257	120

AMAX EXPLORATION (AUSTRALIA), INCORPORATED

Diamond Drill Hole Log

PROJECT - REDBANK - BUFFALO FLY | Map Sheet Calvert Hills Co-ords. | Hole No. DDH.BF-1

Type - JACRO 200 Dip Bearing | Final Depth 72 metres.

From	To	Drilled	Recovered	Geology	Angle	Assays From	Assays To	Assays L	Assays Cu	Assays Pb	Assays Zn	Assays Ag	Assays Mu
45.26	53.64	8.35	8.31	(Cont. from Page No. 2) chalcopyrite noted as inter-stitial grain infillings in basal gritty layers									
53.64	72.0	18.36	18.3	Red thinly laminated siltstone with cross-bedding of f.g. sandy lenses, rare specks of sulphide (chalcopyrite), high S.G.	56m/77° 63m/78° 72m/76°	57.17 63.60	57.33 63.76	0.16 0.16	38 10	30 16	58 25	1 1	1060 239
				END OF HOLE: 72.0 metres.									

Detailed Description of Core Analysed

From	To	Length	Rock Type
9.25	9.35	0.10	Porous m.g. ferruginised sandstone
12.21	12.34	0.13	Silicified porous m.g. sandstone (quartzite) pink/white; porosity resulting from leaching cavities after feldspar.
18.83	18.91	0.08	Silicified porous limonite veining F.g. sandstone possibly due to leaching of feldspar. Limonite as grain coatings and crack coatings.
31.75	31.99	0.24	Pink silicified sandstone F.g. with limonite staining along cracks and as interstitial specks and grain coatings.
38.88	38.99	0.11	F.g. pink arkosic sandstone (silicified).
38.99	39.10	0.11	F.g. pink arkosic sandstone with blebs (up to 3 mm) of native copper and black copper oxides? Sparsely disseminated along width 3cm parallel to bedding.
41.78	41.91	0.13	F.g. pink/white arkosic sandstone with two veins (2mm thick parallel to bedding) of pyrite. Also disseminated grains of pyrite are sparsely distributed throughout core.
41.91	42.06	0.15	F.g. pink/white arkosic sandstone with few disseminated specks of pyrite.
42.06	42.21	0.15	F.g. pink/white arkosic sandstone with veinlets and blebs of pyrite up to 5mm wide. Also disseminated specks of pyrite.
42.21	42.37	0.16	Fine grained pink/white arkosic sandstone pyrite specks as trace component only.
42.37	42.52	0.15	Fine grained pink/white arkosic sandstone with pyrite framboids as interstitial crystals/grains
42.52	42.62	0.10	ditto.
42.62	42.94	0.32	F.g. pink/white arkosic sandstone with rare pyrite grains.
42.94	43.41	0.47	ditto.
43.41	43.64	0.23	F.g. pink/white arkosic sandstone with pyrite as disseminated grains.
43.64	43.80	0.16	ditto.
43.80	44.14	0.34	ditto.
44.14	44.50	0.36	ditto.
44.50	44.70	0.20	F.g. pink arkosic sandstone with trace pyrite disseminated throughout.
44.79	44.91	0.13	ditto.

From	To	Length	Rock Type
44.92	45.26	0.34	F.g. pink white arkosic with pyrite as common grains.
45.21	45.34	0.07	Pink sandstone with coarse grit of volcanic fragments and interlayers of khaki siltstone. Only trace amounts of pyrite mineralisation.
45.64	45.84	0.20	Gritty sandstone with angular fragments (3mm) of pink volcanics, trace disseminated pyrite.
45.84	45.99	0.15	Gritty sandstone, poorly sorted with fine silts and volcanic fragments, and rare pyrite grains.
45.99	46.06	0.07	Fine grained pink arkosic sandstone.
46.06	46.10	0.04	Pyrite mass (4 cm diam.) in laminated silt/grit mix. containing disseminated grains of pyrite.
46.10	46.30	0.20	Gritty sandstone poorly sorted with volcanic fragments and traces of pyrite as grains.
46.84	46.92	0.08	Pink m.g. sandstone with gossanous (oxidized) box-work as spherical mass (1cm) after pyrite?
51.30	51.45	0.15	Gritty sandstone and laminated grey/ khaki siltstone with trace chalcopyrite as interstitial pore space filling between pink volcanic fragments.
51.45	51.61	0.16	ditto.
52.99	53.12	0.13	Poorly sorted moderately rounded grits and silts with trace sulphides.
57.17	57.33	0.16	Red, thinly laminated siltstone, trace specks of chalcopyrite (pin-head size).
63.60	63.76	0.16	ditto.