CONTENTS ENVELOPE 6988

TENEMENT: E.L. 1450.

TENEMENT HOLDER: Bariston Holdings Pty. Ltd.

PLANS: Nil.

BARISTON HOLDINGS PTY LTD
GROUND FLOOR, 524 HAY STREET, PERTH, W.A. 6000
POSTAL ADDRESS: G.P.O. BOX D181, PERTH, W.A. 6001
TELEPHONE: (09) 325 8799 TELEX: AA96926
FACSIMILE: 325 3930

QUARTERLY REPORT ON EXPLORATION LICENCE NO. 1450

for the Period December 7,1987 to March 7, 1988

MOUNT ARDEN PROJECT

M.J. Castle
April 11, 1988

INTRODUCTION

The Mount Arden Exploration Licence No. 1450 held by Bariston Holdings Pty Ltd is located on the western flank of the Flinders Ranges approximately 350 kilometres north of Adelaide and 50 kilometres northeast of Port Augusta. The E.L. covers an area of 152 square kilometres. The stratigraphic section ranges from upper Proterozoic (Marinoan) sediments through the lower Cambrian sediments including the Parachilna formation, Wilkawillina Limestone and Parara Limestone. Structurally the E.L. comprises three N-NE trending synclines with some minor regional faults. the keels of two of the synclines are occupied by lower Cambrian sediments.

Land Ownership -

Land usage within the Mount Arden Exploration Licence is predominately mixed grain farming and pastoral. There are approximately 80 separate Section numbers in the E.L. which fall within the Hundreds of Yarrah and Wyacca. Of these sections about 20 are occupied by Lower Cambrian sediments and a search of the titles for these sections resulted in eight perpetual leases which are held by six owners.

Previous Work -

In the central portion of the current exploration licence there are two old mining localities. Mount Arden mine was reportedly worked for copper minerals during the period from 1880 to 1900 and is located within the Parachilna formation and basal Wilkawillina

Limestone with no defined lode. Three kilometres to the south the Comstock area also in the Parachilna formation was worked for Ironstone material. Total reserves quoted by the South Australian Geological Survey Report of Investigation =37 (1972) are 350,000 tones of ironstone ranging from 48-58% iron.

Kennecott Explorations (Australia) Pty Ltd discovered significant concentrations of Lead and Zinc in close proximity to these two old mines in 1966. The following year Kennecott conducted geophysical and further geochemical surveys, trenching and drilling. The results of this programme were very encouraging with some 27 kilometres strike length of the Lower Cambrian formations giving anomalous values in zinc, lead and copper. The highest and most continuous values were located on the western side of the Ragless Range. The follow up costeaning and drilling of this extensive anomalous zone indicated that the zinc mineralization had been significantly enriched at the surface and that primary mineralization consisted of chalcopyrite, invariable associated with goethite and manganese wad. Sulphide mineralization was not detected. Primary grades of 0.2 to 1.0 percent zinc were encountered at depth. Copper mineralization was less extensive and rarely exceeded 0.2 percent copper.

Work during the current quarter has involved a review of the available data on the Mount Arden area and similar displays of mineralization both in the Flinders Ranges and elsewhere. A geochemical sampling programme has been commissioned including rock chip sampling and bulk leach precious metal sampling and assays will be requested for gold, base metals and rare earths. Results are anticipated to be available early in the next quarter.

EXPLORATION EXPENDITURE

Geological	$2,300
Administration	460
	$2,780

Yours faithfully

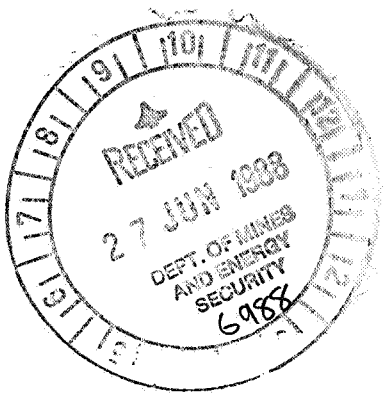
M.J. CASTLE
CONSULTANT

FINAL REPORT ON E.L. 1450

MOUNT ARDEN PROJECT

SOUTH AUSTRALIA

M. J. Castle
June 17, 1988



INTRODUCTION

The Mount Arden Exploration Licence No. 1450 held by Bariston Holdings Pty Ltd is located on the western flank of the Flinders Ranges approximately 350 kilometres north of Adelaide and 50 kilometres northeast of Port Augusta. The E.L. covers an area of 152 square kilometres.

GEOCHEMICAL PROGRAMME

During the last quarter a geochemical programme was carried out on the Mount Arden Exploration Licence. Forty three rock chip samples and two bulk leach samples (weighing approximately 10 kilogrammes each) were collected. The target concept involved sampling Lower Cambrian sediments in the vicinity of known base metal occurrences and/or zones of structural complexity. The programme was designed as a reconnaissance sampling survey for gold and rare earths.

All sample sites are marked on the ground with red flagging with the sample number written on it. All sample locations were plotted on 1:40,000 scale aerial photographs. The samples were submitted to Comlabs Services of Mile End, South Australia for analysis of Au, Nd, Ce, La, Ba and Y. The gold in the rock chip samples was analysed by Comlabs scheme AAS5A, which is an aqua regie digest giving a minimum level of detection of 0.05 ppm. Gold in the bulk leach stream sediment samples was analysed by Comlabs scheme AAS5D, giving minimum detection limit of 0.1 ppb. Neodymium, Cesium, Lanthanium, Barium and Yttrium were analysed by Comlabs scheme XRF1, a pressed powder technique utilising X-ray flouresence. Minimum levels of detection with this scheme are 20 ppm for Nd, Ce, La and Y.

Ten of the forty three rock chip samples collected from this exploration licence returned detectable gold values of 0.05 ppm or greater, however all but two were at the 0.05 ppm level. The highest gold value was that of sample MA25, a medium brown limonitic shale outcropping 3 kilometres north north east of Mount Arden Mine. This sample recorded medium range values in those rare earths analysed and a high barium value of 9700 ppm. the most consistently detectable gold values came from the immediate vicinity of the Mount Arden Mine where four of the six samples taken returned 0.05 ppm Au. Sample MA23 from this locality was associated with a 1.49% Barium value, the other three golds had much lower associated Barium from 145 to 430 ppm.

Rare earths values for this group of gold samples were all close to the average values recorded for the EL. Detectable gold values are evenly distributed throughout the area sampled with the exception of the previously mentioned group of low gold values near the Mount Arden Mine. The Lower Cambrian sediments of this tenement returned very low gold values quite consistently, suggesting a very low background gol value for these sediments already noted fortheir anomalous base metal content.

Rare earth values returned from this sampling programme range from the lower limit of detection to highest values as follows : Neodymium 120 ppm, Cesium 160 ppm, Lanthanium 100 ppm and Yttrium 240 ppm. None of the highest recorded rare earth values was associated with a detectable gold value.

Barium values ranged from 30 ppm to 3.15%, with no clear cut association of high barium and detectable golds, except as previously mentioned in sample MA25.

CONCLUSIONS

The analytical results for the rare earths neodymium, cesium, Lanthanium and Yttrium are very low and of no economic significance. Maximum values are as follows : Nd 120 ppm, Ce 160 ppm, La 100 ppm and Y 240 ppm. Barium values reached a high of 3.15% and six of the total of forty three rock chip samples recorded approximately 1% or greater Ba. The high incidence of anomalous Ba values can be attributed to sample locations at or near breccia zones. Gold values are very low with the highest being 0.12 ppm in sample MA25 and the remainder of detectible golds being 0.05 to 0.06 ppm. However, ten of the forty three rock chip samples did report detectable gold at or above the 0.05 ppm level and this is considered to be an unusually high incidence of detectable golds for a reconnaissance sampling programme of this nature. A background gold value somewhat below the 0.05 ppm minimum detection limit is indicated for the Lower Cambrian sediments which are widely recognised for their base metal values.

Results of the rock chip and Bulk Leach sampling programme were disappointing and no specific target areas emerge for followup work. It has been decided to relinquish the tenement.

Appendix A

LEASE Nº	SEC/HUNDRED.	LESSEE.	ADDRESS.
	KANYAKA EXPLORATION LICENCE # 1446		
O.P 11185	100, 551 Hd KANYAKA.	MILLERS CREEK PASTORAL Co. PTY. LTD.	147 WARD ST NORTH ADELAIDE 5006
OP 11120.	22, 51 to 56, 90 to 93, 113, 114, 520, 521, 522, 532 to 539 Hd Kanyaka.	ANDREW JOHN HILDER.	CRADOCK 5432
OP 10035.	149, 150, 547, 548 Hd Kanyaka.	JOHN BRENDAN ROWE BRIAN GERUASE ROWE.	HAWKER 5434
OP 7145	144, 154, 155, 595, 596, 597 Hd Kanyaka	John Brendan Rowe Brian Geinard Rowe	Hawker 5434
OP 12302	118 Kanyaka.	John Brendan Rowe Brian Geinard Rowe	Hawker 5434
OP 11186.	115 to 117, 141, 142, 143, 156, 159, 160 Hd Kanyaka.	John Brendan Rowe Brian Geinard Rowe	Hawker 5434
OP 8887.	157, 158 Hd Kanyaka.	John Brendan Rowe Brian Geinard Rowe	Hawker 5431

LEASE No	SEC/HUNDRED.	LESSEE.	ADDRESS.
OP10845	96, 97 HD KANYAKA.	PARTACOONA PTY LTD	147 WARD ST NORTH ADELAIDE 5006.
OP8364	115, 120 to 127, 132, 134, 135 HD CUDLAMUDLA.	COLIN ALBERT HILDER	CRADOCK 5432
OP7419.	85 to 90, 102 to 108, 117 to 120, 123, 286, 287 HD CUDLAMUDLA.	GRAHAM JOHN HILDER	P.M.B. 5 CARRIETON 5432
	MOUNT ARDEN EXPLORATION # 1450		
MP9648	160, 231 HD YATTEN.	KEVIN FRANK FLOWER EARSARA GAY FLOWER (WIFE)	BOX 89 QUORN. 5433
OP7790.	10 HD WYACCA.	Kevin Frank Flower Barbara Gay Flower	Box 89 Quorn 5433
OP4787.	15 Hd WYACCA.	ANNIE MATILDA FARGHER. ALFRED CLIFTON FARGHER (DECD) EXECUTOR TRUSTEE + AGENCY Co OF S.A. LTD AND ANNIE MATILDA FARGHER AS EXECUTORS.	QUORN 5433

LEASE No	SEC/HUNDRED.	LESSEE.	ADDRESS.
IP12017[A]	165 HD YARRAH.	A+S FRANCIS LTD	YARRAH VALE VIA QUORN 5433
OP 8455	152 HD YARRAH.	EDAAR CLARENCE KEY.	P.O. BOX 9 QUORN 5433
OM 17494	197 HD Yarrah	Edgar Clarence Key	P.O. Box 9 Quorn 5433
OP6495	151, 154, 155, 200 Hd YARRAH.	IAN FLEMING SMART	"ARRADELLS" QUORN 5433
OP5488.	97, 106, 108, 109 HD ROBERTSON.	LINDSAY ROBIN HOOD	BOOL LAGOON VIA NARACOORTE 5271

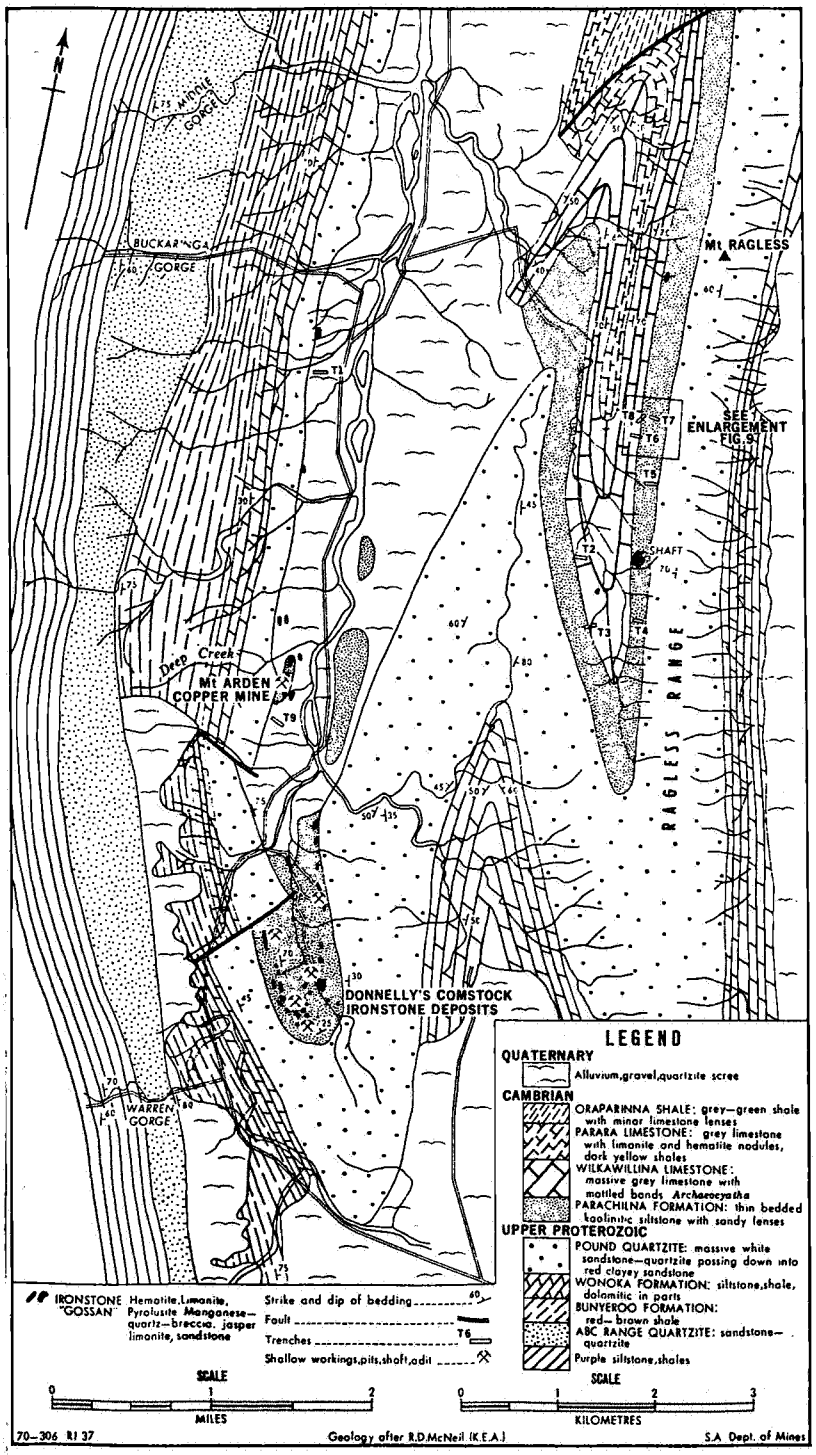


Fig. 8. Mount Arden—Comstock area, geological plan.

from Rpt. of Invest.* 37
G. S. S. A.

0013

Mount Arden Ltd. Appl. 101 400

Sample No	Description	Location
MA 1	Limonitic shale	Photo 046 Donnelly Quarry Area Adj old costean
MA 2	Lt. grey sandstone	As above 046
MA 3	Lt. grey brecciated s.s. / lim. specks.	spoil from costean 046 As above
MA 4	Limonitic shale grain. Qz blebs.	Old Fequarry site 046
MA 5	massive hem. O/c	adj to track 046
MA 6	massive Lim. sh. O/c	adj track + fence 046
MA 7	massive lim. sh. O/c	S. of fence 046 adj old pit
MA 8	Black Mn. O/c	S. of fence 046
MA 9	Black Mn + Qzte breccia scree boulders	100m S. of above 046
MA 10	Maroon, lim. decomp sed. / Mn nodules	Entrance to Adit 046
MA 11	Dk. red. bl. Mn breccia rubble/scree	Heap near ck. 046
MA 12	Dk. br massive lim.	Comstock Quarry face. 046
MA 13	Dk. br massive lim.	As above 10m E. 046
MA 14	Lt. br. Qzte O/c	046
MA 15	med. br. brecciated. Qzte.	50 NE of above 046
MA 16	Pound Qzte Qz veining	photo loc. 046
MA 17	Pound Qzte Qz veins + slickensides	photo loc. 046 20m S. of above
MA 18	ferrug. Qzte	photo loc 046
MA 19	scree selected spoil / sample from southmost costean. fe breccia	Mt. Arden Mine Area photo loc. 046 costean spoil
MA 20	cream f. gr. ss. / malachite staining	Shaft/dump 046
MA 21	ferrug. ss. / malachite staining radiating xls.	as above 046
MA 22	fe. Qz + sh fault. breccia	top of hill Q/c adj to shallow shaft.
MA 23	Bl. Mn O/c	Top of hill 046 no workings
MA 24	Dk br lim breccia	O/c 046
MA 25	med br. lim. sh.	Qz 10m E. of 046 above
MA 26	Red micaceous sh.	O/c in ck. 046 bank
MA 27	med-Lt. grey Ls. / spots	spoil from 046 shaft.
MA 28	med. grey Ls. / spots red. br. friable	bank of ck. 046
MA 29	clays red. br hem. concretions	O/c 046 floor of costean
MA 30	thin red br. zone in bleached clays	As above 20m E costean photo loc 046
MA 31	fe. qz. grain + ss. zone	As above
MA 32	Dk br ferrug	As above

MA 2	Lt. grey sandstone	As above	046
MA 3	Lt. grey brecciated s.s. / lim. specks.	spoil from costeam As above	046
MA 4	Limonitic shale gran. qz blebs.	Old Fequarry site	046
MA 5	massive hem. O/c	Adj to track	046
MA 6	massive lim. sh. O/c	Adj track + fence	046
MA 7	massive lim. sh. O/c	S. of fence Adj old pit	046
MA 8	Black Mn. O/c	S. of fence	046
MA 9	Black Mn + Qzte breccia scree boulders	100m S. of above	046
MA 10	Maroon, lim. bed sed. / Mn nodules	Entrance to Adit	046
MA 11	Dk. red. bl. Mn breccia rubble/scree	Heap near ck.	046
MA 12	Dk. br massive lim.	Comstock Quarry face.	046
MA 13	Dk. br. massive lim.	As Above 10m E.	046
MA 14	Lt. br. Qzte O/c		046
MA 15	Med. br. brecciated Qzte.	50 NE of above	046
MA 16	Round Qzte Qz veining	photo loc.	046
MA 17	Round Qzte Qz veins + sliekensides	photo loc. 20m S. of above	046
MA 18	ferrug. Qzte scree	photo loc	046
MA 19	selected spoil sample from south most costeam. fe breccia	Mt. Arden Mine Area photo loc. costeam spoil	046
MA 20	Cream f. gr. ss. / malachite staining	Shaft dump	046
MA 21	ferrug. ss. / malachite staining radiating xls.	As above	046
MA 22	fe. Qz + sh. fault breccia	top of hill O/c adj to shallow shaft	
MA 23	Bl. Mn O/c	Top of hill no workings	046
MA 24	Dk br lim breccia	O/c	046
MA 25	Med br. lim. sh.	O/c 10m E. of above	046
MA 26	Red mineous sh.	O/c in ck. bank	046
MA 27	med-Lt. grey Ls. / spots	spoil from shaft.	046
MA 28	med. grey Ls. / spots red. br. friable	bank of ck. O/c	046
MA 29	clays. red br hem. concretions	floor of costeam As Above 20m E costeam photo loc	046
MA 30	thin red br. zone in bleached clays	As Above	
MA 31	fe. qz. grain + ss. zone	As Above	
MA 32	Dk. br. ferrug.	As Above	
MA 33	O/c adj to costeam massive fe.	O/c adj ck.	046
MA 34	hem. / rounded qz grains		

0015

Sample No	Description	Location
MA 35	Massive fe O/c	photo loc 046
MA 36	Red br fe. O/c f.gr.	photo loc 046
MA 37	Red br massive Fe. O/c	30m W. of above photo loc 046
MA 38	Red. br. massive Fe O/c	20m E of shaft. As above
MA 39	Fe O/c 10m	20m E. footwall photo loc. 046
MA 40	white vuggy Qzte. sec. silica	10m. N of Shaft photo loc. 046
MA 41	Red micaceous slt.st. lse. sil.	Costean Costean N. wall 046
MA 42	Red f.-medgr.ss.	As above Photo loc. 163
MA 43	Qzte. white some ma + minor fe staining	Photo loc 163

18/2 John Rowe - saw white Toyota (wide wheels) prospecting on Kanyaka Area. They did not call in.

MT. ARDEN E.L.

Photo #046

MT. ARDEN E.L. 1450 Photo #163

COMLABS SERVICES PTY. LTD.

305 South Road, Mile End South, South Australia 5031 Telephone (08) 43 5722 Telex LABCOM AA89323 Facsimile No. (08) 234 0321

NATA REGISTERED No. 1526

John Clema
Bariston Holdings
OUR REF: GPO D181
YOUR REF: PERTH
WA

JOB NUMBER: 8AD0528

Your Reference: 3205

Date Received: 22-FEB-1988 Turnaround 7 days
Date Relayed: 29-FEB-1988
Date Reported: 29-FEB-1988

Number of Samples: 86

Report Comprising: Cover Sheet
Pages 1 to 5

Comments:

Report Dist'n: Carbon Copies(CC),Electronic Media(EM),Magnetic Media(MM)

Type	Recipient	Location	Date	Copies
CC	Mr. M. Fry	Glenside	29-FEB-88	1

Approved Signature

for

Harry Fishman
Deputy Managing Director.
CLASSIC COMLABS LTD
(Please address any enquiries to Mr. Trevor Francis)

This report relates specifically to the sample(s) tested in so far as that the sample(s) is truly representative of the sample source as supplied.

CLASSIC COMLABS LIMITED

Job: 8AD0528
O/N: 3205

ANALYTICAL REPORT

SAMPLE	Nd	Ce	La	Ba	Y	Au
MA 1	20	50	30	165	12	<0.05
MA 2	40	40	20	290	12	<0.05
MA 3	30	30	20	450	10	<0.05
MA 4	<20	40	20	130	24	<0.05
MA 5	80	120	80	290	28	0.06
MA 6	50	20	<20	100	<4	<0.05
MA 7	<20	30	40	115	10	<0.05
MA 8	60	30	40	2750	50	<0.05
MA 9	<20	<20	40	2.55%	58	<0.05
MA 10	<20	<20	40	3.15%	34	<0.05
MA 11	120	40	40	1.65%	64	<0.05
MA 12	<20	<20	30	660	<4	<0.05
MA 13	30	20	20	1680	26	0.05
MA 14	<20	<20	<20	380	<4	<0.05
MA 15	<20	<20	20	270	<4	<0.05
MA 16	30	20	<20	130	<4	<0.05
MA 17	<20	20	<20	165	4	<0.05
MA 18	20	20	<20	280	<4	<0.05
MA 19	20	20	30	145	8	0.05
MA 20	60	100	60	155	240	<0.05
MA 21	50	90	50	185	74	0.05
MA 22	<20	50	30	430	16	0.05
MA 23	80	30	20	1.49%	30	0.05
MA 24	120	70	60	1.44%	52	<0.05
MA 25	80	40	30	9700	16	0.12
UNITS	ppm	ppm	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1	XRF1	AAS5A
UPPER SCHEME				XRF2		

CLASSIC COMLABS LIMITED

Job: 8AD0528
O/N: 3205

ANALYTICAL REPORT

SAMPLE	Nd	Ce	La	Ba	Y	Au
MA 26	20	100	50	1580	14	<0.05
MA 27	20	60	30	145	16	0.05
MA 28	<20	<20	<20	80	<4	<0.05
MA 29	<20	30	30	540	10	<0.05
MA 30	20	30	<20	500	16	<0.05
MA 31	40	80	50	95	20	<0.05
MA 32	<20	<20	<20	90	8	<0.05
MA 33	<20	<20	<20	95	22	<0.05
MA 34	<20	<20	<20	30	12	<0.05
MA 35	<20	50	20	185	105	0.05
MA 36	<20	70	30	170	10	0.06
MA 37	40	70	100	85	28	<0.05
MA 38	<20	50	20	40	8	<0.05
MA 39	60	70	50	195	22	<0.05
MA 40	<20	<20	<20	125	<4	<0.05
MA 41	40	160	90	140	8	<0.05
MA 42	<20	30	20	1880	4	<0.05
MA 43	20	20	30	880	4	<0.05
K 1	30	50	30	330	14	<0.05
K 2	30	40	20	330	4	<0.05
K 3	40	90	50	220	8	<0.05
K 4	30	80	60	490	36	<0.05
K 5	30	60	50	320	36	<0.05
K 6	40	70	50	340	26	<0.05
K 7	20	60	30	310	16	<0.05
UNITS	ppm	ppm	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1	XRF1	AAS5A

CLASSIC COMLABS LIMITED

Job: 8AD0528
O/N: 3205

ANALYTICAL REPORT

SAMPLE	Nd	Ce	La	Ba	Y	Au
K 8	50	90	60	300	24	<0.05
K 9	<20	50	40	200	14	<0.05
K 10	40	60	50	380	16	<0.05
K 11	30	80	50	270	10	<0.05
K 12	<20	140	110	160	<4	<0.05
K 13	50	80	70	40	<4	<0.05
K 14	<20	40	30	195	<4	0.20
K 15	<20	<20	20	70	<4	0.05
K 16	40	120	60	200	26	0.05
K 17	30	40	30	60	<4	<0.05
K 18	<20	40	20	270	74	0.08
K 19	30	40	60	190	155	0.05
K 20	<20	30	50	210	18	0.08
K 21	50	40	30	200	12	<0.05
K 22	30	60	30	240	20	<0.05
K 23	30	100	60	175	12	<0.05
K 24	40	50	40	195	10	<0.05
K 25	30	30	30	55	6	<0.05
K 26	20	40	30	100	4	<0.05
K 27	20	<20	<20	60	<4	<0.05
K 28	20	80	40	130	10	<0.05
K 29	40	80	30	150	28	<0.05
K 30	40	100	40	130	30	<0.05
K 31	60	80	40	145	18	<0.05
K 32	40	40	20	210	12	<0.05
UNITS	ppm	ppm	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1	XRF1	AAS5A

CLASSIC COMLABS LIMITED

Job: 8AD0528
O/N: 3205

ANALYTICAL REPORT

SAMPLE	Nd	Ce	La	Ba	Y	Au
K 33	40	70	40	580	22	<0.05
K 34	<20	<20	<20	220	<4	<0.05
K 35	<20	30	20	50	4	0.05
K 36	20	<20	<20	125	<4	<0.05
K 37	40	60	50	320	6	<0.05
K 38	30	<20	<20	150	<4	0.06
K 39	20	30	<20	1280	26	0.06
K 40	40	60	30	1.60%	28	0.06
K 41	130	140	50	3200	100	0.06
K 42	90	90	100	240	110	0.06
K 43	20	50	20	280	<4	<0.05
UNITS	ppm	ppm	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1	XRF1	AAS5A
UPPER SCHEME				XRF2		

CLASSIC COMLABS LIMITED

Job: 8AD0528
O/N: 3205

ANALYTICAL REPORT

SAMPLE	Au
MA 1	0.3
MA 2	<0.1
K 1	<0.1
K 2	0.1
K 3	0.2
K 4	0.1
K 5	0.1
K 6	0.1
K 7	<0.1
K 8	<0.1
UNITS	ppb
SCHEME	AAS5D

BARISTON HOLDINGS PTY LIMITED
GROUND FLOOR, 524 HAY STREET, PERTH, W.A. 6000
POSTAL ADDRESS: G.P.O. BOX D181, PERTH, W.A. 6001
TELEPHONE: (09) 325 8799 TELEX: AA96926
FACSIMILE: 325 3930

February 10, 1989

Your Ref: EL 1446, 1450

The Director-General
Department of Mines & Energy
P.O. Box 151
EASTWOOD SA 5063

Dear Sir

Exploration Licences 1450 Mt Arden

The Expenditure Statements for the above EL is as follows:

EL1450 for the period ended 6.6.88 is $8,775.25

Yours faithfully

J.M. Clema
Chairman