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ANNUAL TECHNICAL REPORT E12/93  
TO 12 NOVEMBER 1995

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**Title** : Annual Technical report on E 12/93 - Golden Ridge for  
the period ending 12 November 1995.

**Tenement** : E12/93  
  
MPI Gold Pty Ltd  
2nd Floor  
1 Walker Avenue  
WEST PERTH WA 6005

**Map Sheets** : 1:250,000 - NE Tasmania  
1:50,000 - St Helens  
- Alberton

**Commodities** : Gold, Base Metals, Platinum

**Keywords** : Gold, Geology, mapping, drilling, mineralisation

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## 1. INTRODUCTION

This report details the exploration activities of MPI Gold Pty Ltd on E 12/93 - Golden Ridge for the year ending 12th November 1995. This is the second annual report on the tenement.

The Golden Ridge E.L. 12/93 is located in northeastern Tasmania, 20km west of St Helens and 70km east of Launceston (Figure 1). The tenement was granted to MPI Gold Pty Ltd on the 12th November 1993.

MPI has carried out diamond drilling of the Golden Ridge prospect with the aim of intersecting a broad mineralised zone as indicated by previous surface costean results. The drilling encountered significant mineralisation and follow up drilling is planned for early 1996.

A summary of the regional geology and previous exploration of the tenement is detailed in the previous annual report (Poltock, R - 22/9/1994).

## 2. WORK COMPLETED DURING REPORTING PERIOD

The work programme completed on E 12/93 Golden Ridge for the year ended 12 November 1995 included structural mapping and completion of two diamond drill holes at the Golden Ridge prospect and general field reconnaissance of workings associated with BLEG stream anomalies (Au) regionally.

### 2.1 Geological Mapping

A brief mapping exercise, updating modified mapping included in Poltock 1994, was carried out. Figure 2 shows fact mapping with interpreted structural geology and geochemistry at 1:1000 scale.

The Golden Ridge prospect is hosted by the Siluro-Devonian siltstone-Greywacke dominated Mathinna beds and lies within the contact aureole of the Devonian Blue Tier Batholith (Poltock, 1994).

Mineralisation at surface consists of quartz veinlets and ferruginous fractures hosted by a shallow dipping sequence of greywacke and highly sheared siltstone. The veinlets occur in a steeply dipping shear / fracture zone trending east-northeast - westsouthwest. The shear is intersected by a series of north-south trending faults. The main mineralisation occurs in a shallow northeasterly plunging anticline, capped by massive arenite, which has been breached to expose the mineralisation.

## 2.2 Diamond Drilling

The Golden Ridge diamond drilling programme was designed to test a north-east trending fracture, quartz stock work system which has been previously worked as the Brilliant and New Golden Ridge workings, and has been the subject of geochemical sampling and RC drilling by Billiton (Shell Metals). Drillhole locations are shown on Figure 2.

The previous work by Billiton produced wide, low grade costean results (eg 34.5m @ 1.37 g Au/t) which MPI consider may be indicative of a wide low grade system which may develop into a higher grade sheeted vein system overlying a granite at depth. Two diamond drill holes were completed by MPI under the main areas of workings at New Golden Ridge and Brilliant:

GRD 1, -60<sup>0</sup>, 85.60m  
GRD 2, -60<sup>0</sup>, 89.90m

Drill Core was split onsite and sampled for Au, Cu, Pb, Zn, As. Anomalous samples were re-submitted for W, Bi, Sb, Te, Mo, Ba, Ag analysis.

Drillhole GRD 1 intersected fractured and oxidised arenaceous sandstone from 0m to 9m down hole and 22m to 35m down hole. A second fracture/quartz-carbonate vein zone occurs from 75m to 83m down hole. Fine arsenopyrite-pyrite is associated with the veins. Results from the upper zones were disappointing. The deeper zone produced a result of 8.0m @ 0.63 g Au/t with 265 ppm As.

Drill hole GRD 2 intersected fractured greywacke/siltstone with ferruginous coatings on fractures from surface to 7m down hole and from 20m to 27m. From 27m unoxidised, shallow dipping, greywacke and siltstone with fine quartz ± carbonate veining, bleaching and clay alteration occurs intermittently throughout the remainder of the hole. From 72m to 85m down hole a series of parallel quartz - carbonate laminated veins and silicified breccias occur. The veins are from <1cm to 15cm thick. Fine arsenopyrite with visible specks of gold was observed in two veins.

Analytical results were encouraging for this hole and are listed below with results from GRD 1:

Hole #	Interval (m)	Thickness	Au	Pb	Zn	As	
GRD 1	2.85 - 6.00	3.65 m	@ 0.14	< 50	< 50	< 50	(oxide)
	75.0 - 83.0	8.0m	@ 0.63	< 50	< 50	265	
GRD 2	24.0 - 39.0	15.0m	@ 2.22	< 50	< 50	< 50	(2 gpt cut)
	24.0 - 53.0	29.0m	@ 1.58	< 50	< 50	< 50	(0.5 gpt cut)
	74.0 - 89.9	15.9m	@ 1.37	71	83	274	(0.5 gpt cut)

Figure's 3 and 4 are cross sections through GRD 1 and GRD 2.

Appendix 1 contains analytical results for GRD 1 and GRD 2 and Diamond drill hole logs.

### 2.3 Mineragraphy

Three samples of drillcore from GRD 2 were submitted to Analabs Perth for Mineragraphic/Petrographic description. Samples from 75.6m, 77.3m and 78.6m down hole were submitted. A copy of the report is included as appendix 2. Summary conclusions from the report are that mineralisation is hosted by meta-siltstone and meta-micaceous quartz arenite with fine quartz-carbonate veinlets and chlorite alteration. Mineralised veins are quartz-carbonate with minor pyrite, galena, sphalerite, arsenopyrite and free gold

### 2.4 Geological Reconnaissance

Field reconnaissance was carried out at Trafalgar/ Double Event and various workings associated with BLEG stream anomalies (Billiton). Following this it was recommended that no further work be carried out in these areas due to the small perceived target size.

## 3. EXPLORATION PROGRAMME FOR THE NEXT 12 MONTHS

The proposed programme for 1996 at E 12/93 Golden Ridge will involve additional diamond drilling at Golden Ridge Prospect.

Drill hole GRD 2 should be deepened and a second deeper hole should test for a sheeted high grade vein system at depth under GRD 2. An intermediate hole between GRD 2 and GRD 1 is also programmed. A total of 400m - 500m of diamond drilling is planned.

Further field reconnaissance of the area may follow interpretation of structures from aeromagnetic data.

APPENDIX 1

DRILL HOLE SAMPLE DATA AND DIAMOND DRILL HOLE LOGS  
GRD1 & GRD2

GOLDEN RIDGE DRILL LOG REPORT

Hole No.	Northing	Easting	Collar RL	Grid Azimuth	Dip	Depth	Date	Tenement	Prospect	Project	Grid	Drill Geologist Type
GRD001	415578.00	585930.00	500.00	130.00	-60.00	85.60	28/03/95	E12/93	BRILLIANT	GOLDEN RIDGE	BRILLIANT	DIA J. DUGDALE

Depth From	Depth To	Texture	Litho	Litho 2	Alteration	Sulphides	Depth From	Depth To	Sample Number	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	W (ppm)	Bi (ppm)	Sb (ppm)	Te (ppm)	Mo (ppm)	Ba (ppm)	Ag (ppm)	
2.30	8.74	FR	SSA	BRR	F-FE 25%, Cr	OX																	
							2.35	3.00	52301	0.245		18	9	30	7.4								
							3.00	4.00	52302	0.127		11	5	19	3.8								
							4.00	5.00	52303	0.082		10	10	28	5.2								
							5.00	6.00	52304	0.140		10	10	24	3.5								
							6.00	7.00	52305	0.075		11	22	81	8.6								
							7.00	8.00	52306	0.042		13	33	39	14.0								
6.74	14.62	MM	SSA		MN,CY,FE (M)	OX	8.00	9.00	52307	0.008		31	29	48	32.0								
							9.00	10.00	52308	X		24	30	77	18.0								
							10.00	11.00	52309	X		12	26	50	7.1								
							11.00	12.00	52310	0.010		13	22	84	8.9								
							12.00	13.00	52311	X		6	7	53	3.8								
							13.00	14.00	52312	0.026	0.030	21	17	68	4.1								
14.62	15.80	FR	SSA	BRR	F-FE 25%, Cr	OX	14.00	15.00	52313	0.062		46	67	80	19.0								
							15.00	16.00	52314	0.025		23	65	40	12.0								
							16.00	17.00	52315	0.013		10	11	39	3.9								
							17.00	18.00	52316	X		5	11	37	1.6								
							18.00	19.00	52317	0.026		7	12	36	1.8								
							19.00	20.00	52318	0.014		10	10	49	3.0								
							20.00	21.00	52319	X	X	10	11	38	2.1								
21.70	22.10	FR	SST		F-FE, Cr	OX	21.00	22.00	52320	0.009		8	24	40	3.0								
							22.00	23.00	52321	X		10	18	32	2.1								
22.10	23.85	FR/SH	SSA		F-FE 10%	OX	23.00	24.00	52322	0.028	0.034	10	15	19	4.0								
23.85	28.75	FR/MM	SSA/SST		F-FE 10%, Cr, Q	OX	24.00	25.00	52323	0.048		9	22	30	12.0								
							25.00	26.00	52324	0.024		8	23	20	6.3								
							26.00	27.00	52325	0.061		11	21	29	9.4								
							27.00	28.00	52326	0.039		11	32	22	9.9								
28.75	33.80	MM	SSA	BRR	F-FE 10%, Cr, TRQ	OX	28.00	29.00	52327	0.013		8	40	20	16.0								
							29.00	30.00	52328	X		10	19	19	1.9								
							30.00	31.00	52329	0.009		8	24	23	4.7								
							31.00	32.00	52330	X		6	15	20	1.7								
							32.00	33.00	52331	X		9	11	26	1.4								
33.80	34.50	BK/FR	SSA	Cr	Cr,FE (SCRQ) 10%	AS,OX	33.00	34.00	52332	0.026		4	20	30	1.2								
							34.00	35.00	52333	0.022		5	17	63	1.9								
34.50	38.95	MM	SSA		F-FE 10%, TR Cr	FRESH	35.00	36.00	52334	0.018		5	14	39	3.5								
							36.00	37.00	52335	X		6	12	54	6.6								
							37.00	38.00	52336	0.011		18	27	56	5.4								
							38.00	39.00	52337	0.019	0.016	13	25	67	4.4								
38.95	39.30	BK	SST		Cr, Q		39.00	39.30	52338	0.009		12	35	87	2.9								
39.30	41.88	MM	SSA		TR Cr, FE		40.00	41.00	52339	0.061		8	16	46	2.1								
							41.00	41.88	52340	0.011		6	24	48	1.9								
41.88	42.28	SHW	SST		MK-Cr, FE		41.00	41.88	52341	0.078		4	17	43	2.6								
							41.88	42.28	52342	0.010		38	33	80	3.4								
42.28	45.60	MM	SSG		TR FE		42.00	43.00	52343	0.023		5	15	40	2.9								
							43.00	44.00	52344	0.033		18	39	60	7.6								
							44.00	45.00	52345	0.059		11	13	51	6.8								
45.60	46.35	FR	SST/SSA		TR FE, Cr		45.00	46.00	52346	0.059		17	12	42	3.2								
							46.00	46.35	52347	0.042	0.030	19	8	41	2.5								
46.35	48.22	MM	SSG		TR Cr, FE																		

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GOLDEN RIDGE DRILL LOG REPORT

Depth From	Depth To	Texture	Litho 1	Litho 2	Alteration	Sulphides	Depth From	Depth To	Sample Number	Au (ppm)	Au rpt	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	W (ppm)	Bi (ppm)	Sb (ppm)	Te (ppm)	Mo (ppm)	Ba (ppm)	Ag (ppm)	
48.22	49.05	SHW	SST		CY, TRQ		47.00	48.00	52348	X		12	7	199	4.2								
							48.00	49.00	52349	0.028		40	52	82	6.3								
							49.00	50.00	52350	X		8	3	45	3.4								
49.05	54.93	MM	SSG/SST		TR, CY, CB, FE																		
54.93	56.00	MM/WSH	SST		DARK SPOTS																		
56.00	65.90	MM/WSH	SSG/SST		TR, CY																		
65.90	71.22	MM/WSH	SST/SSG		TR, CY, CB																		
71.22	75.13	MM	SSG/SST		TR, CY, CLS																		
75.13	82.67	FR/Q	SSA		CY, Q, TR, PI, GU	Py, GU	75.00	76.00	52351	0.298		10	58	29	21.0								
							76.00	77.00	52352	0.020		8	10	33	52.0								
							77.00	78.00	52353	0.266		11	10	48	82.0								
							78.00	79.00	52354	0.291		9	15	33	55.0								
							79.00	80.00	52355	0.257		9	15	28	46.0								
							80.00	81.00	52356	3.330		8	7	24	1519.0								
							81.00	82.00	52357	0.416		7	22	30	215.0								
82.67	83.25	MM/WSH	SST		TR, CY SPOTS		82.00	83.00	52358	0.197		9	8	55	123.0								
83.25	85.60	MM	SSG		SPOTS																		

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GOLDEN RIDGE DRILL LOG REPORT

Hole No.	Northing	Easting	Collar RL	Grid Azimuth	Dip	Depth	Date	Tenement	Prospect	Project	Grid	Drill Type	Geologist
GRD002	415522.00	583828.00	510.00	150.00	-58.00	89.90	31/03/95	E12/93	BRILLIANT	GOLDEN RIDGE	BRILLIANT	DIA	J. DUGDALE

Depth From	Depth To	Texture	Litho 1	Litho 2	Alteration	Sulphides	Depth From	Depth To	Sample Number	Au (ppm)	Au (ppt)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	W (ppm)	Bi (ppm)	Sb (ppm)	Te (ppm)	Mo (ppm)	Ba (ppm)	Ag (ppm)	
2.30	6.95	FR	SSA	BER	FE,CY	OX	2.30	3.00	52367	0.022	0.021	36	21	27	31.0								
							3.00	4.00	52368	0.044		34	18	21	6.8								
							4.00	5.00	52369	0.015		32	37	22	6.9								
							5.00	6.00	52370	0.014		37	14	38	1.3								
6.95	14.15	HM	SSA		TR,CY,FE		6.00	7.00	52371	0.044		35	20	30	<0.5								
							7.00	8.00	52372	0.044		42	14	70	<0.5								
14.15	20.30	HM	SST		TR,CY,FE																		
20.30	23.45	FR	SSG		CY,FE		20.00	21.00	52373	0.044		36	11	50	1.1	14.9	0.4	0.4	<0.2	0.8	625	<0.1	
							21.00	22.00	52374	0.011		55	38	85	2.9	17.4	0.5	0.6	<0.2	0.5	617	<0.1	
							22.00	23.00	52375	0.029		76	25	82	2.1	12.4	0.5	0.7	<0.2	0.5	532	<0.1	
23.45	24.35	BX	SSA SST		CY,FE	Py-GIB,LL	23.00	24.00	52376	0.021		50	36	63	24.0	16.1	0.5	7.0	<0.2	0.5	601	<0.1	
							24.00	25.00	52377	10.240	10.720	25	34	32	17.0	10.0	0.5	3.4	<0.2	2.0	196	1.4	
24.35	26.17	FR	SSA-Q		CY,FE,SIL	tr Py,GIB																	
							25.00	26.00	52378	1.970		12	31	39	50.0	12.4	0.1	1.2	<0.2	2.0	152	0.5	
26.17	28.65	MM/FR	SSA		CY,Q		26.00	27.00	52379	2.830		12	39	57	47.0	10.1	0.2	2.9	<0.2	2.1	233	0.2	
							27.00	28.00	52380	0.876		13	15	51	26.0	9.7	<0.1	0.7	<0.2	1.6	282	<0.1	
28.65	29.55	MM	SST		CY,Q,CB	sulphides?	28.00	29.00	52381	0.899		19	22	50	19.0	15.1	0.6	0.9	<0.2	1.4	408	0.2	
							29.00	30.00	52382	0.681		36	34	77	60.0	22.7	0.5	1.6	<0.2	1.4	562	0.3	
29.55	31.00	MSH	SSG		CY,CB,SIL	tr sulphs																	
							30.00	31.00	52383	1.470		28	51	74	89.0	22.2	0.5	1.5	<0.2	1.7	577	0.5	
31.00	31.60	WSH	SST		CY,Q,FE		31.00	32.00	52384	1.998		17	12	68	12.0	15.3	0.2	0.7	<0.2	1.0	512	<0.1	
31.60	35.25	FR/WSH	SSG-SST		CY(SER?),FE,Q,CB																		
							32.00	33.00	52385	1.620		14	14	64	15.0	27.7	0.2	1.1	<0.2	0.8	575	<0.1	
							33.00	34.00	52386	1.510		12	16	62	6.5	9.5	0.2	0.9	<0.2	0.8	489	<0.1	
							34.00	35.00	52387	0.391		15	11	56	6.3	15.9	0.2	0.8	<0.2	0.8	481	<0.1	
35.25	36.78	WSH	SST		CY,CB,Q		35.00	36.00	52388	1.570		15	13	73	4.7	14.9	0.2	0.8	<0.2	0.6	553	<0.1	
							36.00	37.00	52389	0.160		16	11	69	3.7	21.2	0.4	0.9	<0.2	0.5	706	<0.1	
36.78	38.20	VM/FR	SSG		SIL(Q),CY(SER?)	tr sulphs																	
							37.00	38.00	52390	2.490		13	22	45	6.6	16.5	0.1	1.7	<0.2	1.6	263	0.2	
38.20	38.60	BX	QMI		CY,CY,SER	tr sulphs	38.00	39.00	52391	5.460		6	14	32	6.9	11.8	0.3	2.3	<0.2	2.3	197	0.1	
38.60	55.90	FR/SIL	SSG		CY,SER,FE-SIL	tr sulphs (ox)																	
							39.00	40.00	52392	1.110		7	11	33	9.0	12.8	<0.1	0.5	<0.2	1.4	346	<0.1	
							40.00	41.00	52393	0.751		9	16	34	7.3	11.2	0.1	0.5	<0.2	1.7	343	<0.1	
							41.00	42.00	52394	0.621		9	21	36	3.8	6.5	0.9	0.6	<0.2	1.6	356	<0.1	
							42.00	43.00	52395	1.810		11	35	42	13.4	9.5	<0.1	1.1	<0.2	1.6	330	<0.1	
							43.00	44.00	52396	0.473		10	19	48	9.2	10	<0.1	0.5	<0.2	1.4	401	<0.1	
							44.00	45.00	52397	0.977		11	14	35	3.9	11.8	0.2	0.6	<0.2	1.3	427	<0.1	
							45.00	46.00	52398	1.110		10	16	40	4.1	8.7	0.2	0.7	<0.2	1.7	412	<0.1	
							46.00	47.00	52399	0.707		8	17	34	12.4	9.8	<0.1	0.5	<0.2	1.5	418	<0.1	
							47.00	48.00	52400	0.950		8	22	34	50.0	10.6	0.2	0.6	<0.2	2.1	382	0.1	
							48.00	49.00	52201	0.935		8	12	34	4.7	11	0.2	0.4	0.3	1.9	356	<0.1	
							49.00	50.00	52202	0.499		11	29	50	4.7	14.1	0.2	0.5	0.2	2.5	360	0.1	
							50.00	51.00	52203	0.566		11	20	37	2.8	12.7	0.1	0.5	<0.2	2.0	348	<0.1	
							51.00	52.00	52204	1.560		15	22	38	3.5	16.6	0.2	2.5	<0.2	2.2	288	0.2	
							52.00	53.00	52205	1.380		12	26	40	5.3	22.7	0.7	1.4	<0.2	2.4	220	0.3	
							53.00	54.00	52206	0.131		12	7	45	1.8	9	0.1	0.5	<0.2	1.7	347	<0.1	
							54.00	55.00	52207	0.408		13	11	45	1.9	15.2	0.1	0.5	<0.2	1.5	343	<0.1	
55.90	57.80	SIL/VM	SST		SIL,SER,CY,TR,FE		55.00	56.00	52208	0.444		13	13	45	2.4	26	0.2	0.6	<0.2	1.3	364	<0.1	
							56.00	57.00	52209	0.402		14	39	73	2.8	22.6	0.2	0.6	<0.2	1	460	0.1	
57.80	60.16	MM	SSG		SIL-CB,CY		57.00	58.00	52210	2.284		17	13	65	7.2	15	0.2	0.5	<0.2	0.7	506	<0.1	
							58.00	59.00	52211	0.547		15	8	49	3.1	10.1	0.2	0.4	<0.2	1	476	<0.1	
							59.00	60.00	52212	0.240	0.325	13	4	44	2.3	8.9	0.2	0.5	<0.2	1.3	381	<0.1	
60.16	60.40	MSH	SSG		WK Q		60.00	61.00	52213	0.305		2	6	54	5.4	10.3	0.2	0.4	<0.2	1	478	<0.1	

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GOLDEN RIDGE DRILL LOG REPORT

Depth From	Depth To	Texture	Litho 1	Litho 2	Alteration	Sulphides	Depth From	Depth To	Sample Number	Au (ppm)	Au (ppt)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	W (ppm)	Bi (ppm)	Sb (ppm)	Te (ppm)	Mo (ppm)	Ba (ppm)	Ag (ppm)	
60.40	64.10	MM	SSG		CY,Q,CB																		
64.10	65.00	FR/MM	SSG		WK Q		64.00	65.00	52214	1.205		2	18	50	4.0	36.6	0.2	0.8	<0.2	1.4	512	<0.1	
65.00	66.03	MM	SSG		Q, SER, CY, CB																		
66.03	66.83	FL	SST		WK Q																		
66.83	68.65	MM/FR	SSG		WK CY																		
68.65	69.00	WSH	SST		SER-SIL		68.00	69.00	52215	0.129		22	27	61	8.5	18.6	0.2	0.4	<0.2	0.9	522	<0.1	
69.00	72.65	MM/WSH	SSG/SST		CT-SER-Q																		
							69.00	70.00	52216	0.388		28	35	66	9.7	13.5	0.3	0.5	<0.2	0.9	601	<0.1	
							70.00	71.00	52217	0.333		24	40	70	51.0	21.3	0.3	1	<0.2	1	571	0.2	
							71.00	72.00	52218	0.693		27	19	57	18.0	12.9	0.2	0.7	<0.2	1.2	480	<0.1	
							72.00	73.00	52219	0.573		35	36	76	9.7	17.4	17.4	0.5	<0.2	1.3	560	0.1	
72.65	73.05	MM	SST/Q		Q, CB, CY	ASPY																	
73.05	73.70	MM/WSH	SSG		SER, Q, CY																		
							73.00	74.00	52220	0.218		25	19	74	26.0	16	0.2	0.4	<0.2	1	570	<0.1	
73.70	74.20	MM	SST		TR, Q, CB	ASPY																	
74.20	77.40	SIL	SSG		SBR, Q, CY	eg ASPY, via AU	74.00	75.00	52221	3.820		25	71	96	223.0	25.2	0.5	0.9	<0.2	1.2	510	0.9	
							75.00	76.00	52222	3.370	3.520	21	226	90	114.0	13.9	1.2	1.1	<0.2	1.6	354	1.1	
							76.00	77.00	52223	0.300		23	42	84	26.0	14.8	0.2	0.5	<0.2	1	462	0.1	
							77.00	78.00	52224	0.465		23	25	45	90.0	15.9	0.1	0.4	<0.2	1.3	395	0.3	
							78.00	79.00	52225	0.580		23	20	74	26.0	19.1	0.2	0.4	<0.2	1.3	511	<0.1	
							79.00	80.00	52226	0.326		60	149	85	40.0	35	0.2	3.8	<0.2	0.8	555	0.3	
							80.00	81.00	52227	1.160		35	63	70	21.0	16.6	0.2	0.5	<0.2	1.1	464	0.1	
							81.00	82.00	52228	0.807		22	22	46	125.0	27.7	0.2	0.6	<0.2	1.7	354	0.2	
							82.00	83.00	52229	1.950		26	66	44	148.0	62.1	0.7	1.2	<0.2	2	294	0.5	
							83.00	84.00	52230	0.524		22	47	40	185.0	55.5	0.3	0.6	<0.2	1.9	284	0.2	
							84.00	85.00	52231	0.315		22	57	37	513.0	21.2	21.1	0.8	<0.2	1.8	295	<0.1	
							85.00	86.00	52232	1.520		24	16	39	46.0	13.4	<0.1	0.3	<0.2	1.5	357	<0.1	
							86.00	87.00	52233	1.470		51	83	92	1603.0	28.5	0.8	2.1	<0.2	1.7	730	0.4	
							87.00	88.00	52234	3.840		37	67	178	1145.0	40.2	0.3	1.4	<0.2	0.6	805	0.5	
							88.00	89.00	52235	0.976		29	31	147	34.0	64.5	0.2	0.5	<0.2	0.5	874	<0.1	
							89.00	89.90	52236	1.310		49	143	154	50.0	79.7	0.2	0.7	<0.2	0.8	803	0.6	

743011

# MPI GOLD - DIAMOND DRILLING HEADER SHEET

Hole No : GRD 1	Project : GOLDEN RIDGE	Prospect : BRILLIANT	Tenement : E 12/93	Date : 28/03/95	
Contractor : STACPOOLE DRILLING		Logged By : J. Dugdale		Survey Method N/S.	
Machine :	Depth : 85.6m	Depth	Magnetic Bearing	Grid Bearing	Declination
Commenced : 28/03/95 ; 9:44 AM.	RL : 500 M R.L.	0	116°	130°	-60°
Completed : 30/03/95 ; 5:00 PM.	AMG Grid	Local Grid			
Method : DIAMOND	415578 mN	415578 mN			
	585930 mE	585930 mE			
Other Details :					

Hole Diameter	From	To	Samples Analysed							
			Sample Numbers	No of	Elements	Date Sent	LAB	Date Received	Date Checked	
TRI LONER	0	2.3	From	To	Samples					
NQ	2.3	85.6	23	50	50	Au, Cu, Pb, Zn, Ag	05/04/95	ANALABS-COOR		
	52301	52350	75	83	8					
	52351	52358								
		40								

743012

MPI GOLD DIAMOND DRILL HOLE LOG SHEET

Depth : 0 - 40		Date Logged : 29/03/95		Logged By : J. Douglas		Hole No : GRD 1	Sheet 1 of 2	Scale 1: 250
Metres	Texture	Rock Type	Mineralogy and Alteration	Core Angle	Structure	Sulphides	Core Description	
2.3							TRILONE TO 2.3M. - NO SAMPLE.	
8.74	FR	SSA (BRR)	F-Fe 25%, cy	F-Fe: 5° 130° 170°	Fr: 25% ✓	Ox.	2.35-8.74 - Broken core. Oxidised 50-70% around ferruginous fractures in arenite. - Fractures 2cm - 10cm spacing. Ferruginous. <1cm thick.	
10	MM	SSA	Mn, cy, Fe (wk)	So: 65°	So. Fr: 5%		8.74-11.95 - massive, med. grained quartz arenite. Weak fractures 5-100cm. Some laminated bedding.	
14.62	FR	SSA (BRR)	F-Fe 25%, cy	F-Fe: 10°, 30°, 70°	Fr: 25% ✓	Ox.	11.95-14.62 - moderate clay filled fracturing + green clay mineral. Manganese staining.	
15.80	MM	SSA	Mn, cy, Fe (M)	F-Fe: 5°, 20°, 60°	Fr: 10%		14.62-15.80 - Network of ferruginous fractures. with slight offset. Fe upto 1cm into fracture margin. Weak qtz crystals in vuggy fractures.	
20							15.80-21.70 Massive, grey-green sandstone. Weakly-moderate fractures. Quartz vein in silt between fracture and silt contact	
21.70	FR/SH	SST	F-Fe, cy	F-Fe: 60° q: 10° So: 75°	Fe-qvn (2cm) ✓	Ox.	21.70-22.10 Siltstone layer. Some thin qtz fracture.	
22.10	FR/MM	SSA	F-Fe 10%	Fr: 10°, 60°	Fr: 50% + msh ✓	Ox.	22.10-22.85 Fractured sandstone. Gauded, upright bedding with gradual basal contact.	
27.85	FR	SSA/SST (ERR)	F-Fe 40%, cy, q	F-Fe: 70°, 12° q: 68° q: 10° q: 5° q: 70° + cy	Fe-qvn (5cm) ✓ Fe-qvn 4cm ✓ Fr: 50% + msh ✓ Fe-qvn (2cm) ✓ q/ssh ✓	Ox.	22.85-27.85 Heavily fractured with 2-5m quartz veins @ 22.85; 24.05; 24.5, 25.0 Clay filled fractures + Fe. 21.50; 22.25; 22.75. Total quartz = 20cm.	
28.75	MM/FR	SSA (BRR)	F-Fe 10%, cy, + q	q: 60° F-Fe: 30°, 45°	Fr: 50% 2cm ✓ Fr: 50% 2cm ✓ qvn 5m ✓ Fr, qvn 10cm ✓		27.85-28.75 Moderately fractured quartz arenite. Quartz veins @ 30.40; 30.90; 32.5; 32.8 (10cm).	
30							28.75-33.80. Discovered + altered fault breccia with altered green clay (py) trace ferruginous washed sulphides - silver - arsenopyrite? in marginal rocks.	
32.80	BX	SSA/cy	Cy, Fe (scr?) 40%	Fr: 10, 75	Bx, ssh AΔ	AS?, Ox	32.80-34.50 massive green/grey arenaceous sandstone. Some fine grained layers. Alteration dark spots possibly bitite, due to quartz metamorphic effect.	
34.50							34.50-38.95 massive green/grey arenaceous sandstone. Some fine grained layers. Alteration dark spots possibly bitite, due to quartz metamorphic effect.	
38.95	MM	SSA	F-Fe 10% Tr cy, Fe bi spots?	Fr: 30° q: 165° q: 20°	Tr q: 1cm ✓ q: 1cm ✓	Tech.	38.95-39.30 Siltstone layer at top of med. grained gauded silt bed. Quartz vein and brecciation with clay py 10cm at interface.	
39.30	BX	SST	Cy, q	ssh/q: 58°	Δ q: 10cm, ssh/Bx q: 50-70°		39.30-40.0	
40	MM	SSA						

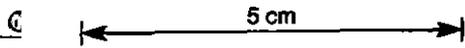
Sampling  
0-23  
23-3

1/m.



243013

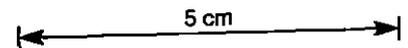
38.0  
38.10-38.90  
38.90-39.30  
39.30-40.0



MPI GOLD DIAMOND DRILL HOLE LOG SHEET

Depth : 40 - 85.6		Date Logged : 29/03/95		Logged By : J. Dugdale		Hole No : GRD 1		Sheet 2 of 2		Scale 1: 250		
Metres	Texture	Rock Type	Mineralogy and Alteration	Core Angle	Structure	Sulphides	Core Description					
40	MM.	SSA	tr cy, Fe.	Fr: 15, 65			39.30 - 41.83	Massive quartz vein. Weakly fractured.				
41.88	SHW	SST	wh - cy, Fe	Sw/wh: 70	wh/bx		41.88 - 42.28	Moderately fractured siltstone. Minor clayath.				
42.28	MM	SSG	tr Fe				42.28 - 45.60	Massive, weakly fractured sandstone				
45.60	FR	SST/SSA	tr Fe, CT spots x	q: 70	qun: 3cm wh/Fe		45.60 - 46.35	Siltstone and sandstone. Moderate fractured. Quartz vein in siltstone layer. Large pale green spots in siltstone. - Carbonate?				
46.35	MM	SSG	tr cy, Fe.	Fr: 50			46.35 - 48.22	Weakly fractured sandstone - wacke				
48.22	SHW	SST	cy, tr q, CT? spots x	q: 40 wh: 55	qun: 1cm wh		48.22 - 49.05	Moderately fractured siltstone - green clay				
49.05	MM.	SSG ± SST	tr cy, ch, Fe.	Fr: 30, 70	wh Fr		49.05 - 54.93	Weakly fractured sandstone - wacke with siltstone interbeds. Beds 1m - 2m thick				
54.93	MM (wh)	SST	Dark spots x	q: 20, 70	q: 0.5cm		54.93 - 56.00	Siltstone with fine dark spots due to nebulosism				
56.00	MM (wh)	SST	Dark spots x	wh: 65 So: 80	wh sh So		56.00 - 65.90	Slightly homofoliated wacke. Dark alter nebulosism spots 0.3 - 0.6cm in diameter in silty layers. Spots ovoid, micaceous, dark with pale patches. Moderately fractured from 61.30. Alteration on fracture margins = green clay.				
60	MM (wh)	SSG ± SST	Dark CT? spots x tr cy	Fr: 20 q: 80	Fr qun (L): 2cm wh		65.90 - 71.22	Siltstone with dark spots (nebulosism). Minor shearing + alteration at contact. Small quartzite band at 67.7m. Moderate shearing at basal contact. Small veinlets with clay + carbonate.				
65.90	MM (wh)	SST ± SSG	Spots x, cy, Fe (wh)	Fr: 20 So: 70	Fr So		71.22 - 75.13	Conglomerate with small siltstone layers. Minor gl veins at 74.5m.				
70	MM (wh)	SST ± SSG	Spots x Tr cy, ch.	wh: 70 Fr: 45, 20 So: 40	wh. Fr, st		75.13 - 82.67	Moderately fractured arkosid sandstone with fine quartz veins. Clay + pyrite, galena? on fractures at 80.5m.				
71.22	MM	SSG ± SST	CT spots x Tr cy, ch.	Fr: 40 wh/so: 70	Fr wh.		82.67 - 83.25	Quartz veins upto 1cm. Open spaced textures. Sulphide coatings = pyrite ± galena?				
75.13	FR, q	SSA	cy, q, tr q, st	q: 20 q: 15 Fr: 15	qun qun, Fe		83.25					
80	MM / wh.	SST	tr cy, spots x	q: 20 q: 40	Fr, qun qun							
82.67	MM.	SSG	spots x	q: 20, 40								
83.25	MM.	SSG	spots x									

Sampling:  
40.0 - 41.0  
41.0 - 41.8  
41.8 - 42.3  
42.3 - 43.0  
43.0 -  
/M.  
- 50  
743014  
75 -  
/M  
- 83



## MPI GOLD - DIAMOND DRILLING HEADER SHEET

Hole No : CRD 2.	Project : GOLDEN RIDGE	Prospect : <del>CRD</del> Brilliant	Tenement : E12/93	Date : 31/03/95		
Contractor : STACPOW DRILLING.		Logged By : J. Dugdale		Survey Method NS.		
Machine :		Depth : 89.90	Depth	Magnetic Bearing	Grid Bearing	Declination
Commenced : 31/03/95 12:07 PM		RL : 510	0	134°	150	-58°.
Completed :		AMG Grid	Local Grid			
Method : DIAMOND.		45522 mN	"	mN		
		583828 mE	"	mE		
Other Details :						

Hole Diameter	From	To	Samples Analysed							
			Sample Numbers	No of	Elements	Date Sent	LAB	Date Received	Date Checked	
TRI CANE	0	2.3	From	To	Samples					
HQ	2.20	8.00	52367	52372	6	Al, Cu, Pb, Zn, Ag	11/4/95	ALALABS-TAS		
	20.00	48.00	52373	52400	28			(LOOSE)		
	48.00	64.00	52201	52218	13					
	64.00	85.00	52214	52215	1					
	68.00	89.90	52216	52237	22					

743015

API GOLD DIAMOND DRILL HOLE LOG SHEET

Depth : 0 - 20		Date Logged : 02/04/95		Logged By : J. Duquela		Hole No : CRD#2	Sheet 1 of 3	Scale 1: 250
Metres	Texture	Rock Type	Mineralogy and Alteration	Core Angle	Structure	Sulphides	Core Description	
130		NS.					TRICONE TO 2.30M - NO SAMPLE.	
6.95	FR -	SSA (BRR)	fo, cy	Fr: 35 q: 35 Fr: 25, 70, 40	rsh q: Fr: 30%, fo	SS S X	2.30-6.95 - Heavily fractured and partially oxidized Arkosic sandstone. Ferruginous coatings on fractures. (after sulphides?). Quartz vein at 3.80m. Shearing on fracture planes with clay pug. 6.95-14.15 massive, unoxidized arkosic. weakly fractured. minor shearing on bedding planes.	
10	MM -	SSA	tr cy, fo	Fr/wsh: 60	Fr/wsh:		ox.	
14.15	MM -	SST	tr cy, fo	Fr: 70 Fr: 15 Fr: 20 Fr: 65 q: 65	fr: Fr + wsh: x bedded quartzite:	+ S S -	14.15 - 20.20 massive, crossbedded siltstone. minor fractures = clay. Quartz vein + moderate shear at 17.9.	
20.20	FR -	SSG	cy, fo	Fr: 20, 60 Fr: 20, 70	Fr: Fr: 20%, cy	+ S	20.20 - 23.45 Fractured, moderately sheared greywacke/siltstone. Clay on fracture surfaces.	
23.45	DX	SSA/SST	cy, fo	SSA/20: 65	DX/sh	-A- -A-	23.45 - 24.35: Decimated sandstone angular fragments 0.2 - 1.5cm in clay matrix. minor fine grey sulphides (galena + pyrite?)	
24.35	FR	SSA + Q	cy, fo, sil	q: 20 q: 35 Fr: 60, 25	quartzite: Ser, msh quartzite: Ser Fr: 50%	S S S	+ pyrite?	
26.17	MM/FR	SSA	cy, q	q: 25, 00 q: 45	quartzite: S	S	24.35 - 26.17: Heavily fractured sandstone with quartz - clay (fo) veins - laminated. Some darker margins = sulphides?	
28.65	MM	SST	cy, q, cb	q: 75 q: 20, 80	wsh/fo: q: cb	= S	sulphides??	
30.29.55	WSH.	SSG	cy, cb, sil	q, msh: 35 q, msh: 65	q, msh:	S	to sulphides	
31.0	WSH.	SST	cy, q, fo	q: 70, 20	q, msh:	S		
31.6	FR/WSH.	SSG/SST	cy (ser?), fo, q, cb	Fr: 35 q/fo: 40, 60 S: 70	quartzite: S quartzite: S quartzite: S	S S S	26.17 - 28.65: Arkosic sandstone with quartz veins and clay alteration on fractures.	
35.25	WSH	SST	cy, cb, q	q: 20, 40	quartzite: S	S	28.65 - 29.55 Siltstone top to graded bed. Parallel quartz carbonate veins (<1cm). Banded growths of dark material (sulphides)	
36.73	VM/FR	SSG	sil (q), cy (ser?),	q/sh: 15	SSh/qm	S	29.55 - 31.0: Greywacke. Bleached and quartz veined with clay alteration in sheared zones	
38.20	DX	QVM	q, cy, ser	q/sh: 20	q, sh:	S	31.0 - 31.6 moderately sheared and veined siltstone.	
38.60	FR/SH	SSG	cy, ser, fo, sil	q/sh: 20	q, sh:	S	31.6 - 35.25 quartz veined and fractured greywacke with siltstone layers. Thick quartz veins at 32.5, 34.5 (+carbonate?)	
40							35.25 - 36.73 moderately quartz - cy (carbonate?) veined siltstone. Shearing on margins. Fine grey sulphides?	
							36.73 - 38.20: Strongly veined and fractured wacke. Clay alteration in veins.	
							38.20 - 38.60 Decimated quartz lode + clay alth, green sericite?	

Sampling

2.30-3.00  
3.00 -

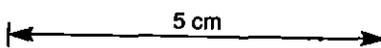
/m

- 8.00

20.0 -

/m

743016



PI GOLD DIAMOND DRILL HOLE LOG SHEET

Depth : 40 - 80		Date Logged : 4/24/95		Logged By : J Dugdale		Hole No : GRD 2.	Sheet 2 of 3	Scale 1:250
Metres	Texture	Rock Type	Mineralogy and Alteration	Core Angle	Structure	Sulphides	Core Description	
	FR/SIL	SSG	q: 2-3% Sil, Ser, cpy, + Fe, cb?	q: 20° q: 25° So/wh: 70° q: 30°	q: 2-3cm q: 1-1.5cm wh: 1-1.5cm q: 3cm	to sulphides (ox)	28.60 - 55.90 Variably bleached and sericite altered greywacke with fine quartz-carbonate veins and clay (pyg) zones. Significant quartz veins at 42.47m (10cm); 44m (2cm); 45.2 (3cm). Veins oxidized ex-sulphide spots on vein margins. Int-vegy carbonate-clay veins on quartz vein margins. Intense bleaching and silicification at 45.6-46.3; 51.2 to 53.2 with quartz veining; Quartz veins at 45.6, 46.3, 52.3, 55.0. Fine quartz ± carbonate veins with altered green sericite? + clay margins. Veins generally less than 5mm. Repeat 2-5% of the rock.	
50	FR/SIL	SSG	q: 1-5% q: 1-5%	q: 10° q: 15°	q: 1-5cm q: 2-5%		55.90 - 57.80 Siltstone layer. Bleached throughout. Thin fractures parallel to bedding/layering, with clay fill and quartz ± carbonate in open spaces.	
57.80	SIL/VN	SST	Sil - cb, cpy	MSH: 70° q: 20° So: 75°	MSH q: 2-3cm		57.80 - 60.16 massive, weakly veined greywacke.	
60	MM.	SSG	wh q	q: 20°	wh: 1-2cm		60.16 - 60.40 moderately sheared and siltstone with clay pyg in fine shear planes.	
60.16	MSH	SSG	cpy, sil, cb	MSH: 100°	MSH		60.40 - 64.10 massive, weakly veined greywacke. Quartz vein at 61m (3cm)	
60.40	MM.	SSG	wh q	q: 30° q: 20°	q: 1-2cm		64.10 - 65.00 - faulted, quartz veined, bleached zone. Quartz vein: 5cm at 64.20m	
64.10	FR/VN	SSG	q, ser, cpy, cb	FR: 60° q: 40°	q: 1-2cm		65.00 - 66.03 - massive, weakly veined greywacke.	
65.00	MM.	SSG	wh q	q: 35°			66.03 - 66.80 - weakly foliated siltstone. Minor shearing on margin.	
66.03	FR	SST	wh cpy	So: 85°			66.80 - 68.05 - moderately faulted and bleached greywacke.	
66.80	MM/FR	SSG	Ser - sil	So/wh: 80° MSH: 70°	MSH		68.05 - 69.05 Bleached and altered siltstone weakly veined	
68.05	MSH	SST	cpy - Ser - q	q: 30°	wh: 1-1.5cm		69.05 - 72.65 weakly veined and altered greywacke and siltstone. Fractures in siltstone with quartz carb. veins.	
70	MM/MSH	SSG/SST	q: 3-5, cpy	q: 30° So: 70° FR: 50° q: 5°	q: 1-1.5cm wh: 1-1.5cm	Aspy (fine)	72.65 - 73.05 Altered siltstone with Quartz-carbonate veins. Kaersolite stained. Anomalous vein at 51. (fine)	
72.65	VN	SST/Q	Ser, q, cpy	q: 15°	q: 1-1.5cm	Aspy (fine)	73.05 - 74.20 Bleached siltstone. Fine q-cb veins.	
73.05	MM/MSH	SSG	Ser, q, cpy	q: 40°	wh: 1-1.5cm	Aspy, vis Au.	74.20 - 77.40 Bleached wacke. Quartz veins + Aspy at 74.50 cm; 76.0m (15cm) - laminated vein with coarse Aspy + specks of Ws Au. Quartz 0.5%.	
73.70	FR/VN	SST	Ser, sil, cpy				77.40 - at 2/sil breccia, 5.5cm of silicified granite fragments with kaersolite + aspy.	
74.20	FR/SIL	SSG	Ser, sil, cb, q, cb, H.					
77.40		SSA/Q	Sil - q - cb, chl	MSH: 25°	q: 1-2cm	Aspy		

5 cm

1/m

var

61.0

64-65

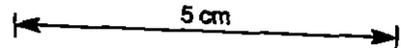
68-

1/m

74017

MPI GOLD DIAMOND DRILL HOLE LOG SHEET

Depth : 30 - 39.90		Date Logged : 6/4/95		Logged By : J. Dreyer / C. Sterling		Hole No : CAD 2	Sheet 3 of 3	Scale 1: 250
Metres	Texture	Rock Type	Mineralogy and Alteration	Core Angle	Structure	Sulphides	Core Description	
30		SSA/Q	sil-g-ch, chl.		S, vns	trcs, gnt		
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								



743018

APPENDIX 2

ANALABS PETROGRAPHIC DESCRIPTIONS GRD2

743020



Analabs Pty. Ltd.  
ACN 004 591 664  
50 Murray Rd. Welshpool  
Western Australia 6106.  
P.O. Box 210, Bentley, W.A. 6102  
Telephone: (619) 458 7999  
Telex: AA 92560  
Facsimile: (619) 458 2922

Jon Dugdale.

28-5-95

Mining Project Investors Pty Ltd,

1 Walker Ave,

W Perth

WA

our ref. 3226/5949

your ref. 3561

Preparation of three polished thin sections  
and mineragraphic/petrographic descriptions.  
(52407-9)

R Townend

A handwritten signature in black ink, appearing to read 'R Townend', written over the typed name.

SAMPLE 52407 78.6  
-----

ROCK SPECIMEN "silicified sandstone"

POLISHED THIN SECTION

A  
QUARTZ MAJOR  
MUSCOVITE MAJOR  
CHLORITE MINOR  
RUTILE ACCESSORY

B  
QUARTZ DOMINANT  
MUSCOVITE MINOR  
CHLORITE ACCESSORY  
RUTILE ACCESSORY  
ZIRCON TRACE

VEINS  
QUARTZ MAJOR  
CHLORITE MAJOR  
ALK. FELD. MAJOR  
CARBONATE MINOR  
ARSENOPYRITE TRACE  
GALENA TRACE  
"MIHARAITE?" TRACE

The slide features a banded mass of META SILTSTONE IN META MICACEOUS QUARTZ ARENITE. These are both crossed by several stages of VEINS.

The meta siltstone is composed of sub 0.1mm quartz, with equal amounts of moderately aligned fine muscovite, and subordinate chlorite. The rock measures roughly 4 x 1cm in the slide and towards one end changes to a non micaceous more ? cherty type. The coarse arenite surrounded this bed, and has a poorly sorted quartz texture with the larger sand grains showing a degree of rounding. The fine muscovite is matrix to this without alignment but there are a few coarse oriented flakes. Ores are confined to fine rutile.

The veining can be substantial. It is at least of two episodes, quartz followed by carbonate chlorite. The more abundant quartz can reach 3mm widths and is of the crack seal type. Parallel to it there are K feldspar veins which may be contemporaneous. The carbonate chlorite veins cross these and are much finer and irregular. There is minor disruption of the silt band by this later veining. The chlorite has Fe >Mg. (SEM).

A rare ore occurrence in the vein was a fragmented 0.2-0.3mm arsenopyrite mass. There was also some fine galena within the FE >>MgCa carbonate vein on the quartz margin. The SEM detected with it, a rare CuBiFe sulphide, ?Miharaite.

SAMPLE 52408 77.3  
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ROCK SPECIMEN "silicified sandstone"

POLISHED THIN SECTION

QUARTZ	DOMINANT
MUSCOVITE	MINOR
PLAGIOCLASE	ACCESSORY
CHLORITE	ACCESSORY
LEUCOXENE/	
RUTILE	ACCESSORY
ZIRCON	TRACE

VEINS	
QUARTZ	DOMINANT
K FELDSPAR	MAJOR
CHLORITE	MINOR
CARBONATE	MINOR
ARSENOPYRITE	ACCESSORY
CHALCOPYRITE	TRACE
GALENA	TRACE

The main lithology appears to be a CLASTIC METASEDIMENT, a SILTY SANDSTONE .This is crossed by various VEINS of a hydrothermal nature

It is dominantly composed of quartz of fine sand to coarse silt texture with a ubiquitous fine non oriented muscovite at quartz margins. There is a little chlorite and the occasional 0.1-0.2mm plagioclase. Fine translucent ores are common. These are TiO<sub>2</sub> rich , some very elongate to a mm and leucoxenic. There are rare zircons etc.

The sediment is host to numerous veins or fracture fillings. These have an erratic distribution and composition. The most common is composed of coarse quartz and fine chlorite. The chlorite has the characteristic vermiform habit of hydrothermal material. In some cases it is has been later replaced by carbonate . Some of this material occurs in blocky patches suggesting incipient brecciation or overall fracturing of the sediment. There are also veins dominated by K feldspar with a little carbonate. The margin of the slide contains part of a mm+ crystal of an untwinned K feldspar of uncertain origin.

Ores are negligible. Arsenopyrite occurs as a rare fragmented mass in carbonate in quartz, or smaller pieces with chalcopyrite in carbonate.

SAMPLE 52409 75.6m  
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ROCK SPECIMEN "quartz vein + sulphides and gold"

POLISHED THIN SECTION

QUARTZ	DOMINANT
CARBONATE	MINOR
OPAQUES	ACCESSORY
PYRITE	MAJOR
GALENA	MAJOR
SPHALERITE	MAJOR
ARSENOPYRITE	MINOR
GALENA	TRACE
GOLD	TRACE

The rock is composed of QUARTZ containing a little CARBONATE and uncommon SULPHIDES.

The texture of the quartz is variable from coarse bladed half cm crystals to almost cherty areas. Some of the coarser material exhibits faces. Its texture and purity support a VEIN.

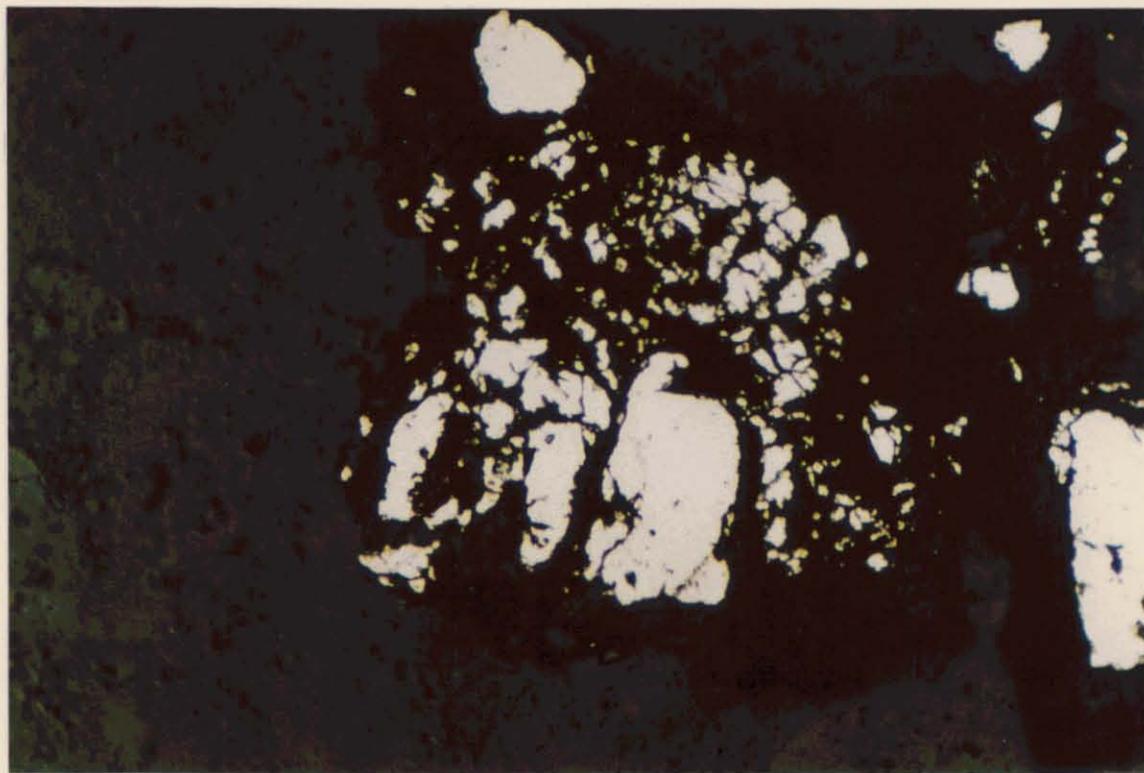
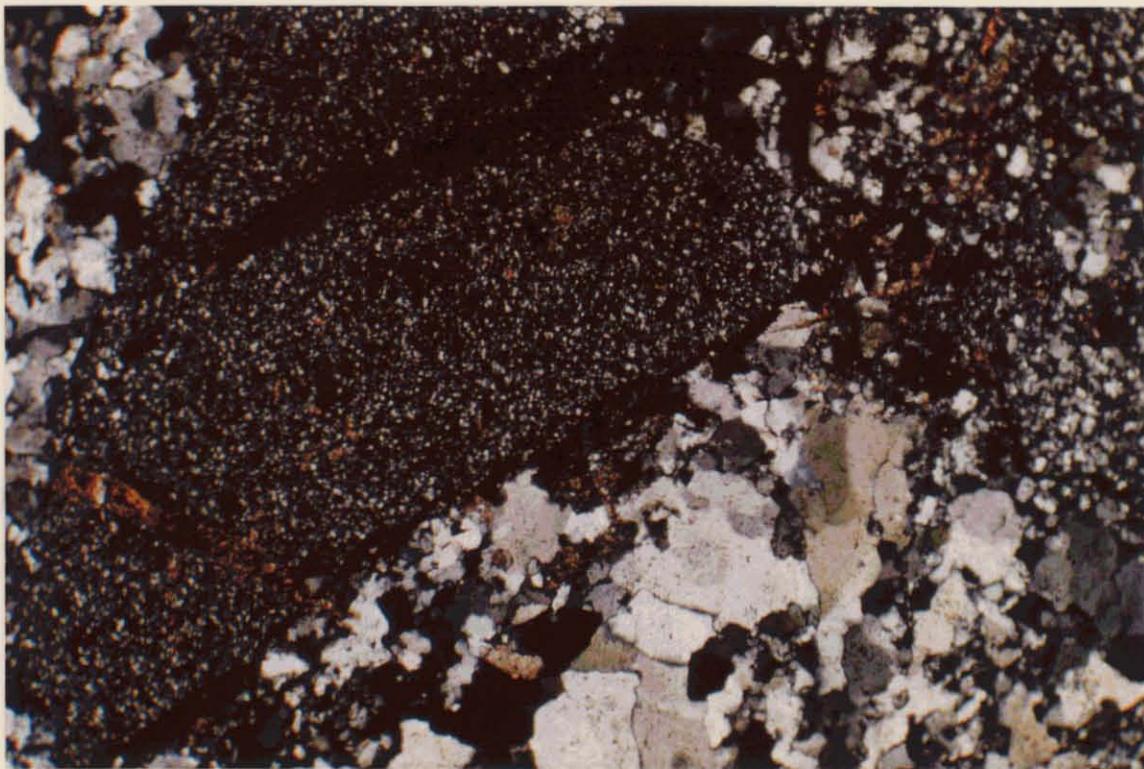
Quartz margins may be very digitated, and extinction strongly undulose. The carbonate (siderite, SEM) is associated with chert like veins in part, sometimes ores and a yellow microcrystalline substance.

The ores have an erratic distribution, with each being locally dominant. Galena forms masses to a mm, as does Fe sphalerite. Galena may be fine inclusions in the sphalerite. It can be closely associated with a carbonate, and relic like material is present in carbonate. The siderite varies in composition, with low levels of Mn, Zn and Ca sometimes present. This variation may be within a single mass, particularly where in contact with a sulphide.

The sphalerite can be composite with pyrite, the latter being anhedral against the anhedral zinc ore. In this sphalerite, the galena occurs as vein-like masses. Arsenopyrite was confined to a separate single 0.7mm rhomb that had inclusions of galena.

GOLD. There were two occurrences of gold. One was a single 70 micron mass in quartz., The other was a patch of golds over a mm with a carbonate vein. The largest piece measured 100 microns + , down to fines of 5 microns.

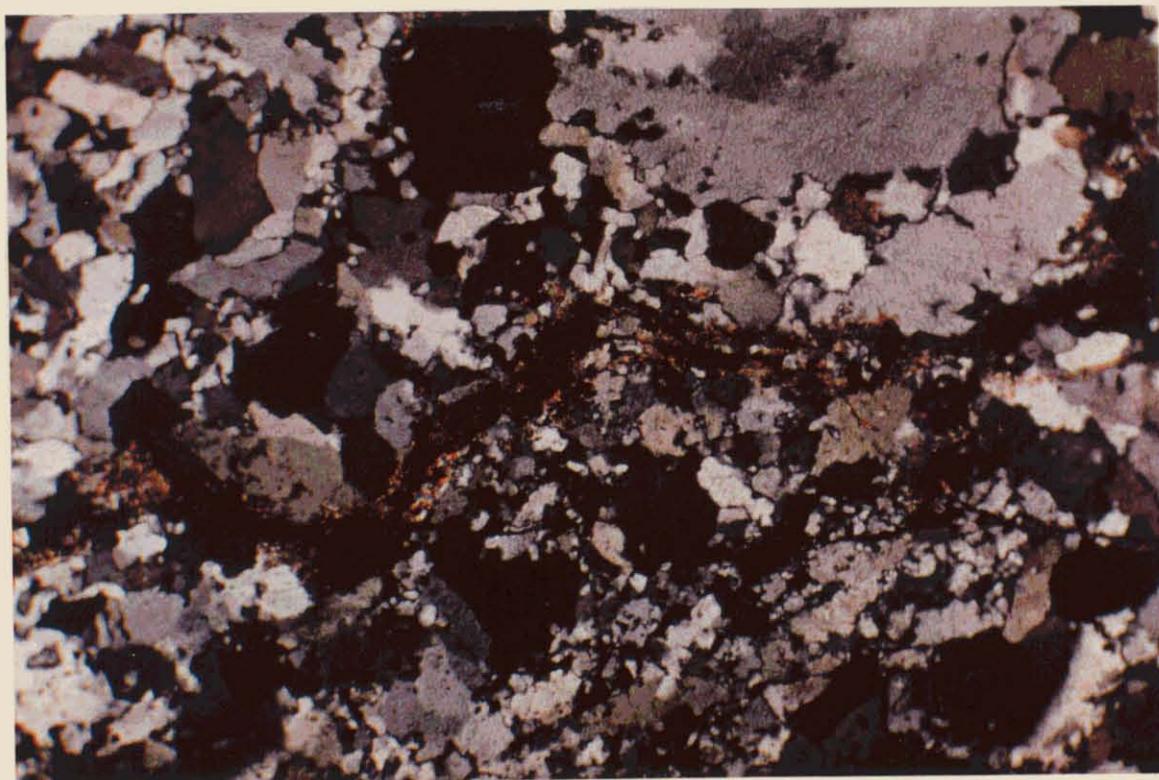
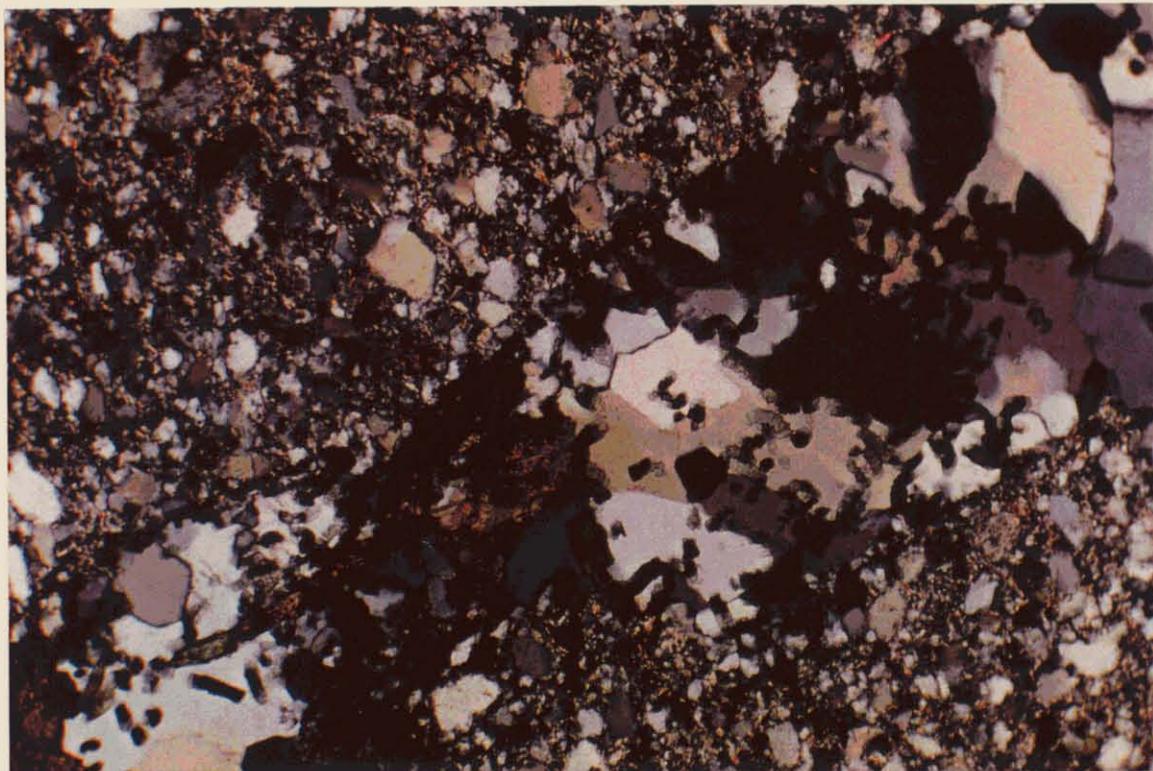
52407 SILTSTONE BLOCK AGAINST QUARTZ VEIN. NIC CROS. FIELD  
WIDTH 2MM



52407 FRAGMENTED ARSENOPYRITE IN CARBONATE IN QUARTZ . NIC  
UNC. FIELD WIDTH 0.54MM

743025

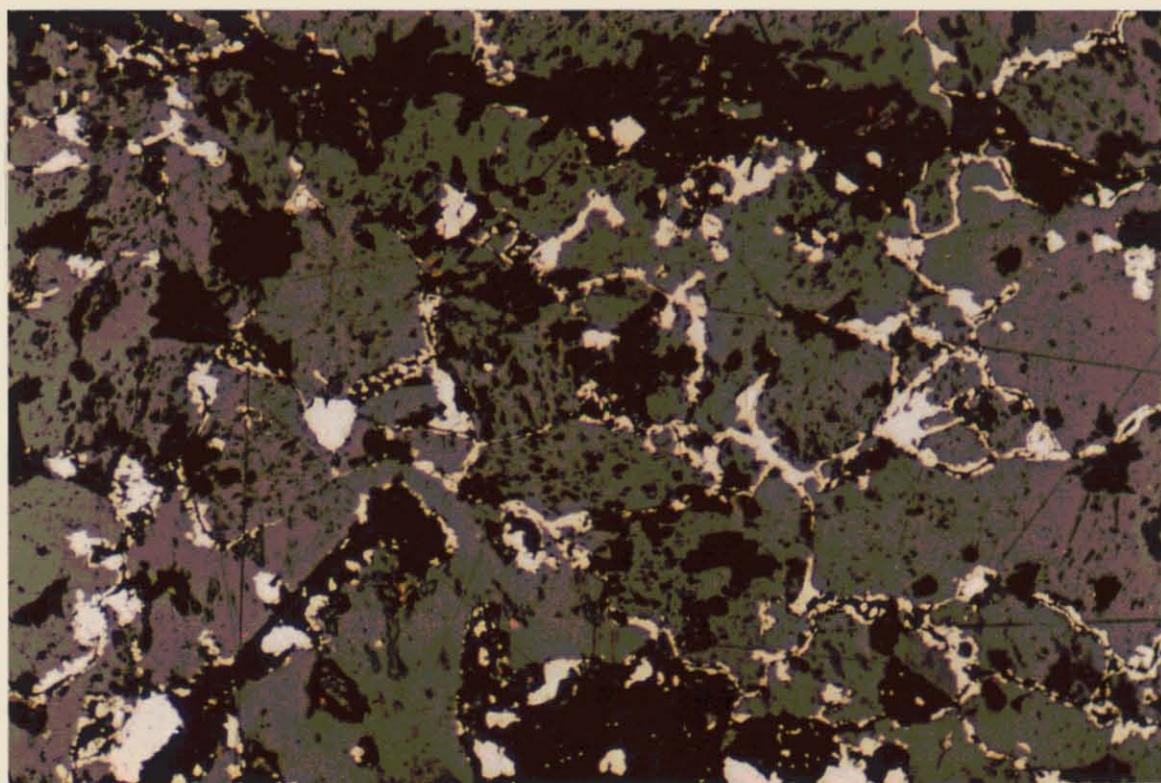
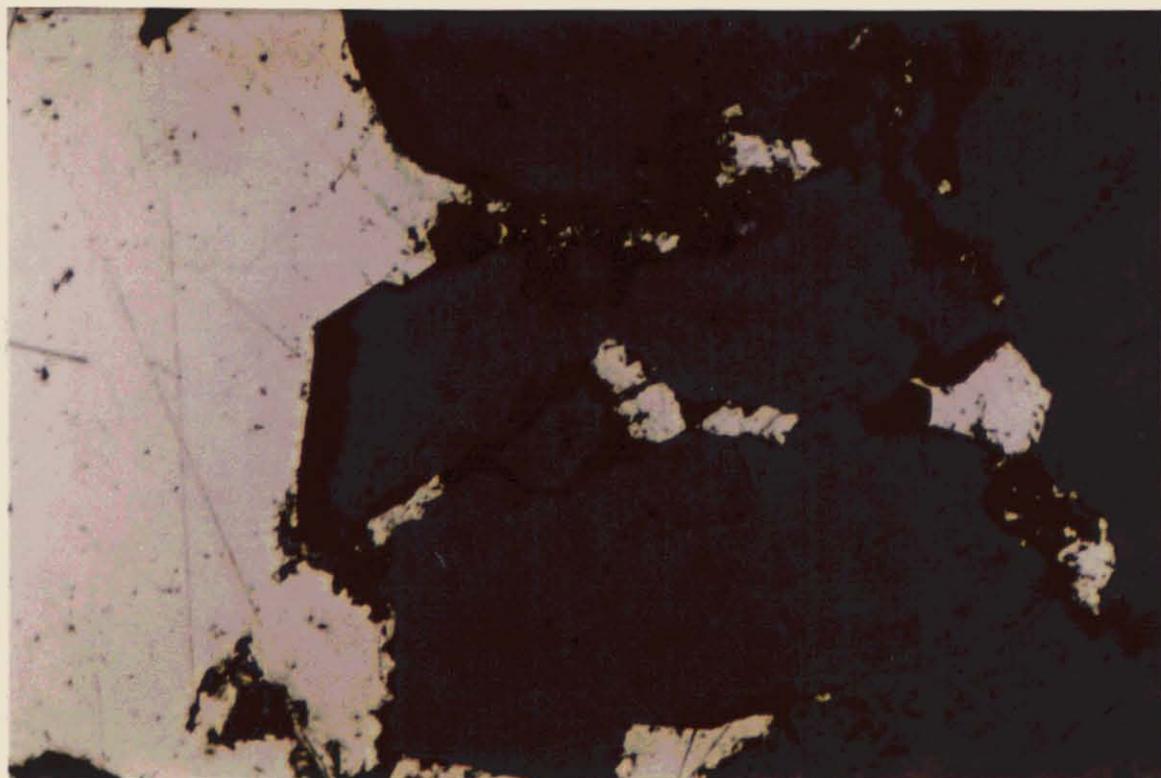
52408 QUARTZ CHLORITE CARBONATE VEIN THROUGH CLASTIC  
SEDIMENT. NIC CROS. FIELD WIDTH 2MM



52409 HETEROGENEOUS TEXTURED QUARTZ VEIN WITH LATER  
CARBONATE MICROVEINS. NIC CROS., FIELD WIDTH 2MM

743026

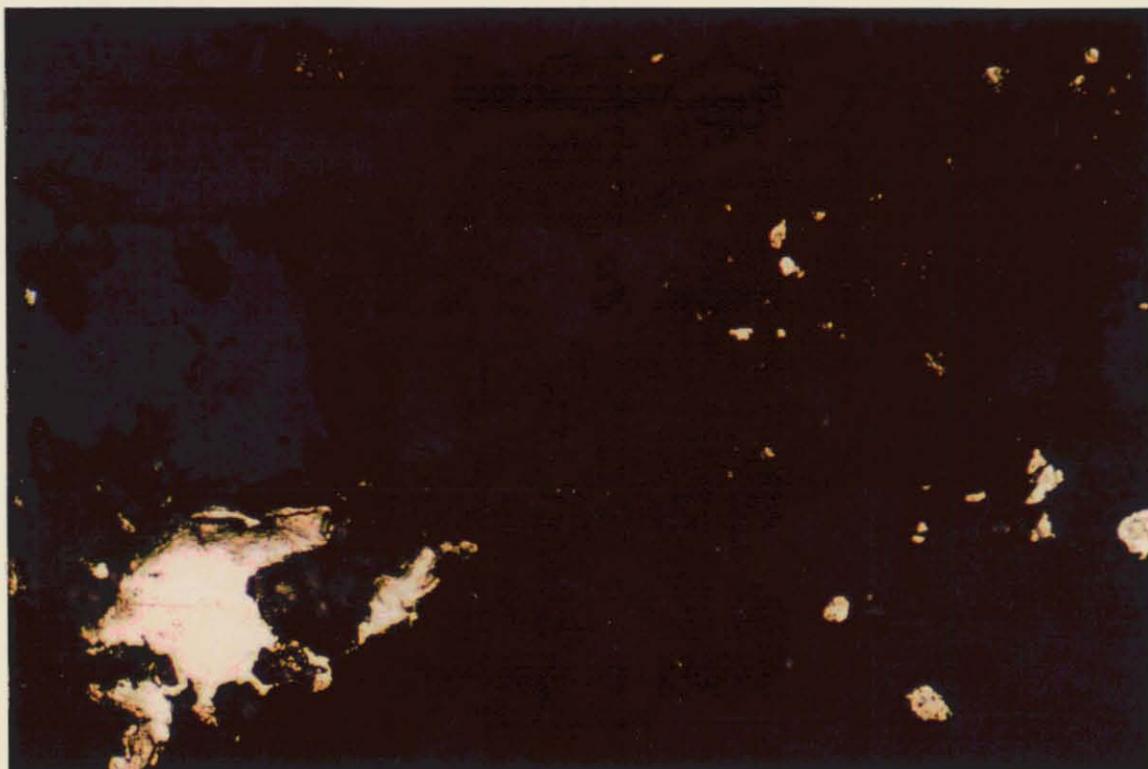
52409 COARSE GALENA AGAINST QUARTZ. NIC UNC. FIELD WIDTH  
0.54MM



52409 MASSIVE SPHALERITE WITH GALENA NETWORK. NIC UNC. FIELD  
WIDTH 0.54MM

743027

52409 COARSE AND FINE GOLD CONCENTRATION. NIC UNC. FIELD  
WIDTH 0.54MM



MT. YOUNG

5420 000 N

5415 000 N

580 000 E

590 000 E

To St Helens

To Fingal and Mathinna

RISKY RIDGE

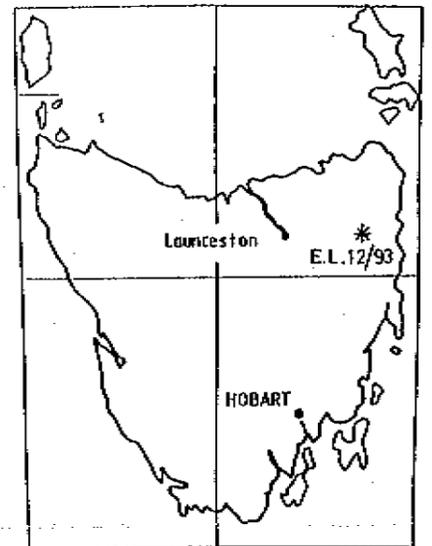
DOUBLE EVENT

TRAFALGAR HOGANS ROAD

GOLDEN RIDGE GOLDEN RIDGE BRILLIANT

QUEEN OF THE EARTH

Queen of the Earth Creek



MPI GOLD PTY LTD		
E.L. 12/93 GOLDEN RIDGE		
LOCATION PLAN		
AUTHOR : R.POLTOCK	OFFICE : TAS	DRAWING No.
DRAWN : O.HEDDITCH	DATE : 8 94	
REVISED :	DATE :	
SCALE : 1:50 000		

743028

✕ ABANDONED MINE  
 — SOIL SAMPLE TRAVERSE

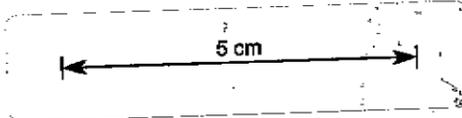
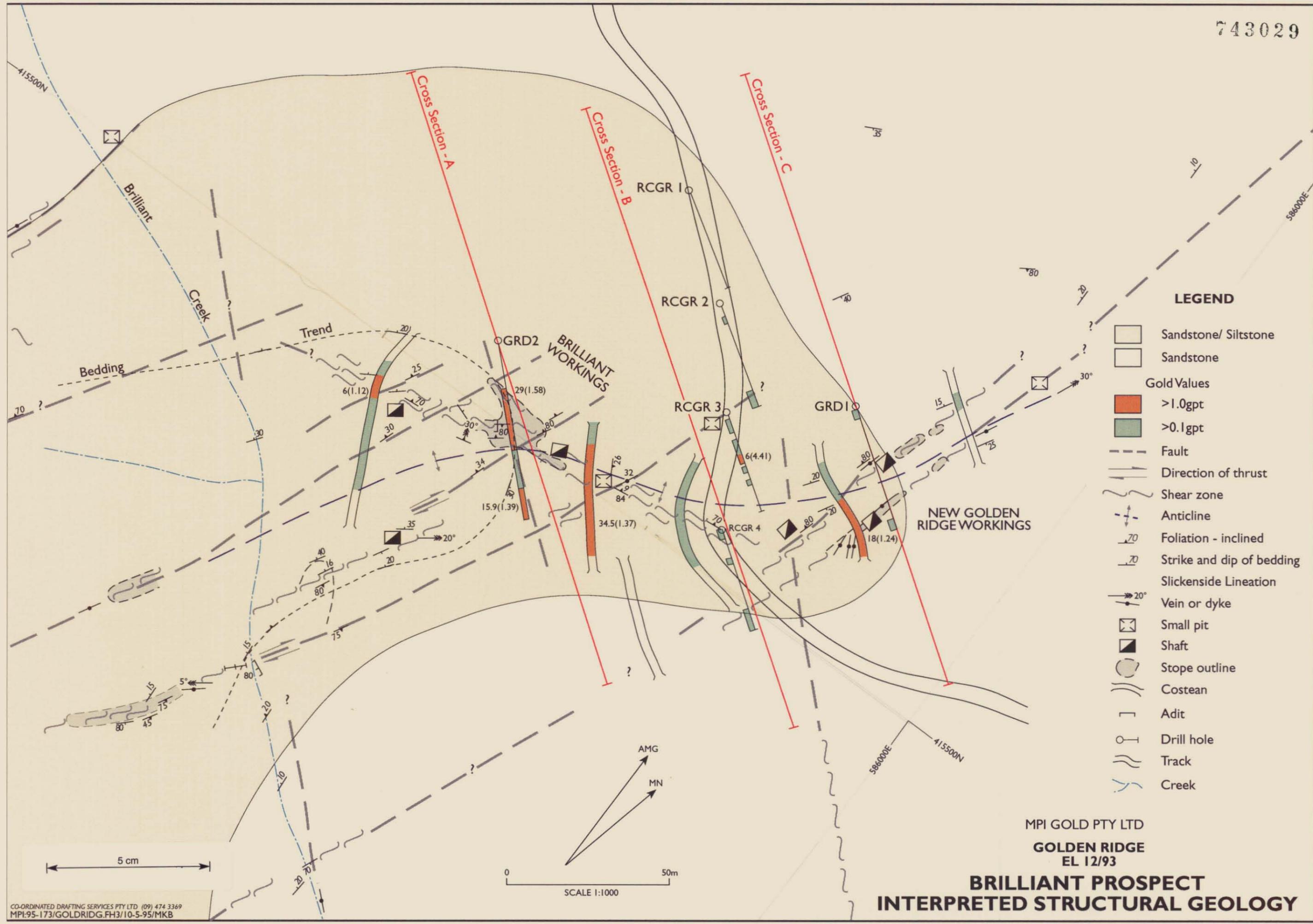


FIGURE 1



**LEGEND**

- Sandstone/ Siltstone
- Sandstone
- Gold Values**
- >1.0gpt
- >0.1gpt
- Fault
- Direction of thrust
- Shear zone
- Anticline
- Foliation - inclined
- Strike and dip of bedding
- Slickenside Lineation
- Vein or dyke
- Small pit
- Shaft
- Stope outline
- Costean
- Adit
- Drill hole
- Track
- Creek

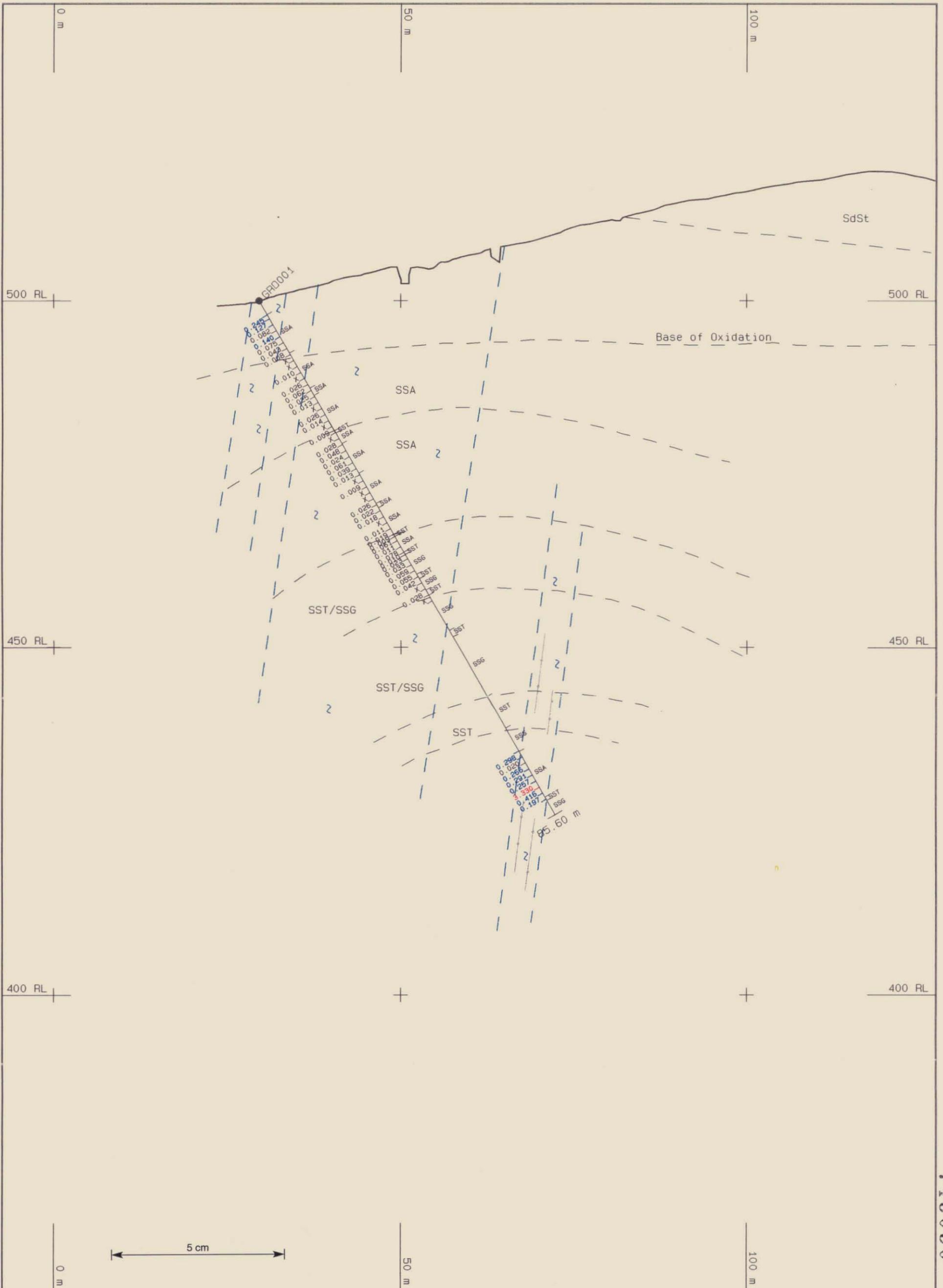
MPI GOLD PTY LTD  
GOLDEN RIDGE  
EL 12/93

**BRILLIANT PROSPECT  
INTERPRETED STRUCTURAL GEOLOGY**

5 cm

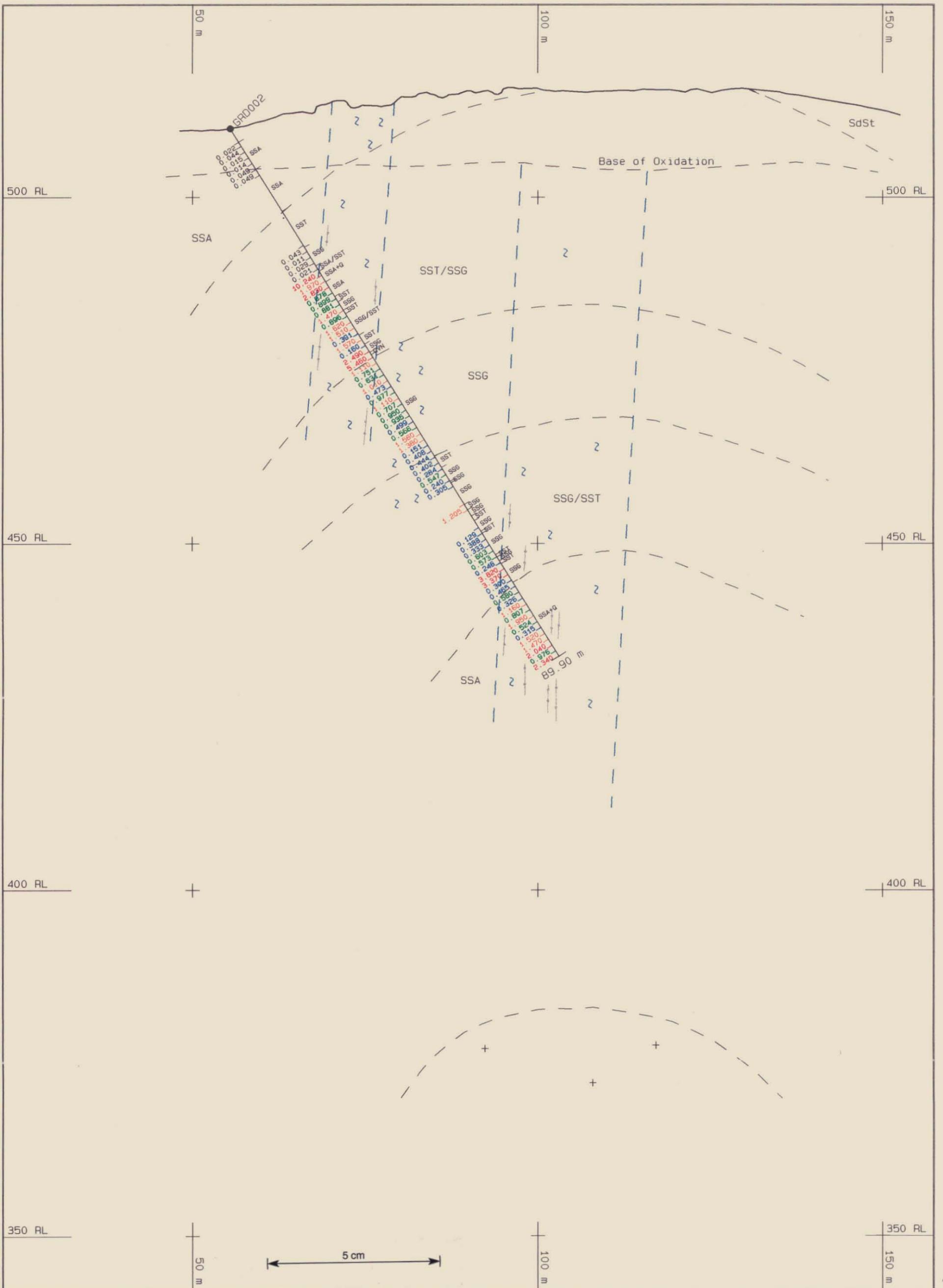
AMG  
MN  
0 50m  
SCALE 1:1000

Figure 2



	<b>Au (ppm)</b> 0.00 0.10 0.10 0.50 0.50 1.00 1.00 2.00 >= 2.00	SECTION AT 130 415680N 585820E - 415520N 586000E WINDOW Q20m  PLOTTED MPI, Perth	Scale	DATE	SHEET
			1:500	29/11/95	1 of 1
			REF No.	PLOT FILE	
			GRD1	FIGURE3	
			GRD001 Transform Section Au & LITHOLOGY <b>FIGURE 3</b>		
			MPI GOLD PTY LTD BRILLIANT PROSPECT GOLDEN RIDGE		

743030



	<b>Au (ppm)</b> 0.00 0.10 0.10 0.50 0.50 1.00 1.00 2.00 >= 2.00	SECTION AT 150 415690N 583740E - 415450N 583860E WINDOW q20m  PLOTTED MPI, Perth	Scale 1: 500	DATE 29/11/95	SHEET 1 of 1	<b>GRD002</b> Transform Section Au & LITHOLOGY <b>FIGURE 4</b>	<b>MPI GOLD PTY LTD</b> BRILLIANT PROSPECT GOLDEN RIDGE
		REF No. GRD2	PLOT FILE FIGURE4				

43031