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**MICROFILMED**  
FICHE No.015/06-

**GLADSTONE**  
**EL15/95**

**RELINQUISHMENT AND**  
**FINAL REPORT**  
**FOR THE PERIOD 11/11/98 - 11/06/99**

*August 1999*

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## 1.0 SUMMARY

Two programs of field activities were undertaken on E15/95 at Gladstone during the reporting period. A Mobile Metal Ion sampling program over targets considered to be structurally favourable settings for hosting gold mineralisation was carried out over the Empress and Bluebell prospects. These targets were identified from the earlier aeromagnetic interpretation conducted during 1998. Samples were submitted to Australian Laboratory Services in Perth pending instructions for analyses to be carried out. During the course of this program, 5 rock chip samples were also collected in the vicinity of the Empress prospect. As a result of encouraging results received from two of these rock chip samples which yielded up to 4.67g/t gold, a trenching program was undertaken as a preliminary test of the Empress Prospect. Results were equivocal.

Following a rationalisation of the company's lease holding in North East Tasmania and a review of all exploration data it was decided to voluntarily surrender the Exploration Licence.

## **2.0 TENEMENT INFORMATION**

### **2.1 Location**

E.L. 15/95 "Gladstone" is located in the far north east of Tasmania, containing the township of Gladstone in the south west corner of the licence (Figure 1).

### **2.2 Tenure**

The licence was granted to Anglo Australian Resources N.L. on the 10th of November, 1995. The licence covers an area of 167 square kilometres.

### **2.3 Land Status/Usage**

The land is almost entirely private freehold and is mostly used for sheep farming. One property, Rushy Lagoon, occupies approximately 80% of the licence area. The south-west corner of the licence area covers the small township of Gladstone, with numerous buildings. Around the township of Gladstone there are many old mine workings associated with both gold and tin deposits.

### **2.4 Topography/Vegetation**

The majority of the licence area is relatively flat and less than 100 metres above sea-level, except for the extreme south-west corner which rises up some 300 metres near Mount Cameron. The northern half has been mostly cleared to pasture, whilst the southern half is vegetated by open eucalypt forest, although denser near watercourses.

### **2.5 Access**

Access is very good. There are many tracks in and around the township of Gladstone, whilst at Rushy Lagoon there is free access through paddocks as well as along the network of roads and tracks servicing the property.

## **3.0 SUMMARY OF PREVIOUS EXPLORATION**

Work carried out prior to Anglo Australian Resources is summarised in the 1996 annual report.

Work conducted by Anglo Australian Resources in year one included sampling of mullock heaps with some promising results. Seven samples returned assays of over 30g/t Au, with a high of 125.7 g/t from the Portland mine.

Two short diamond drill holes were targeted on the Royal Tasman No. 2 reef, near the Gladstone township, beneath the reported depth of old workings to test the idea that reported drops in grade with depth were metallurgical. Both holes intersected the reef which is white

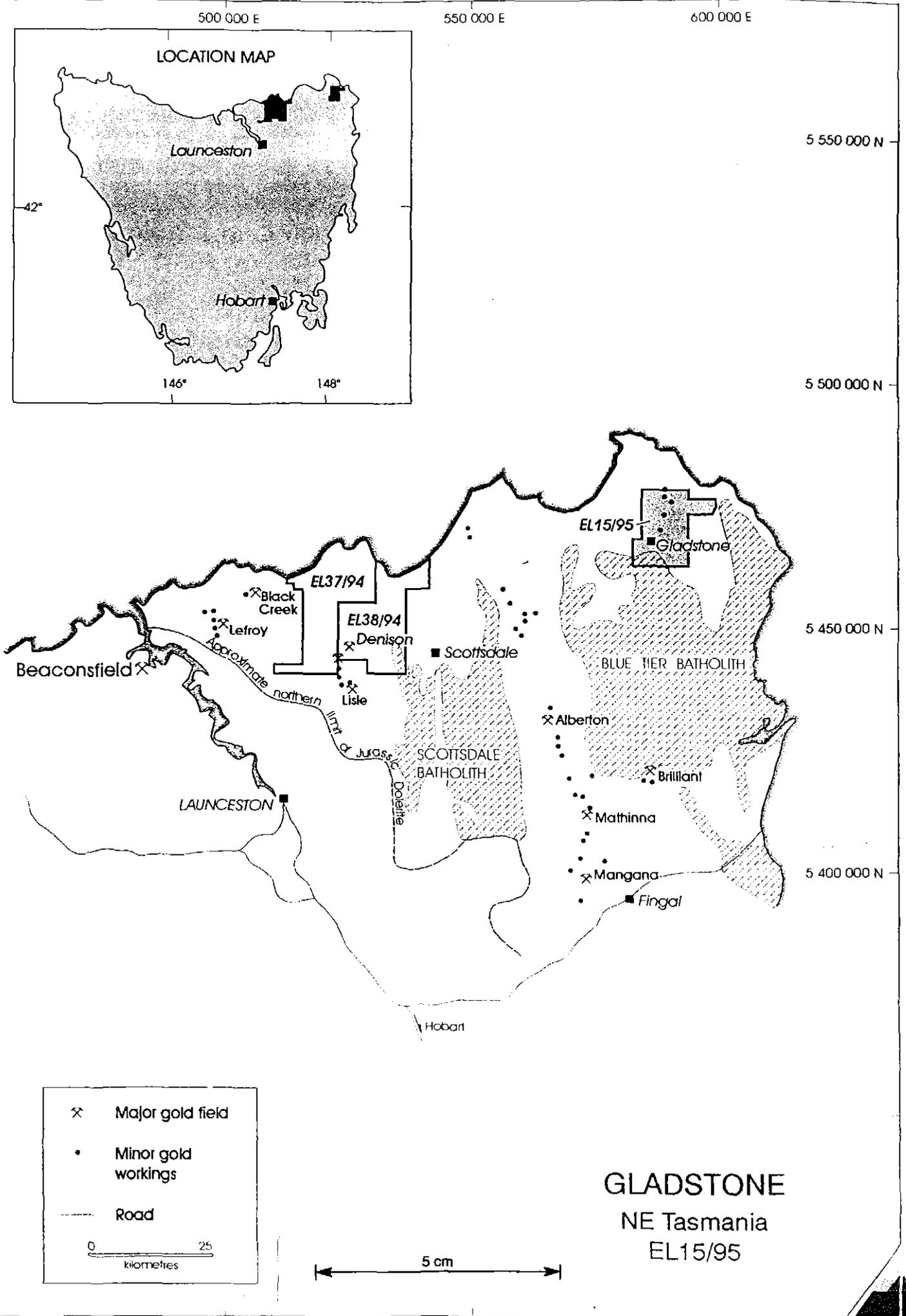


Figure 1.

microcrystalline quartz with little sulphide or ferruginisation. Gold assays in both cases were very low.

In year two work undertaken included taking 496 hand-augered soils samples in the area between the Bluebell mine and the Grand Flaneur workings and to the north of the Grand Flaneur workings, and the digging of about 140 metres of trenches, two trenches located south of the Grand Flaneur and four near the Portland mine. Soil results showed anomalous gold and arsenic in the environs of the old Bluebell, Prince Imperial and Grand Flaneur mines and an area of anomalous arsenic in an area near the Grand Flaneur with no old workings apparent. The anomaly was apparently spurious as trenching indicated at least 4.5 metres of transported overburden. Transported gravels and sands were encountered on most lines and preclude any further hand-augered soil sampling.

The trenching returned relatively low values for gold with all metre channel samples below 0.8 g/t and most below 50 ppb. Arsenic gave a better vector to the Portland reef from both the north and south, exhibiting an increase from >50 metres away.

In July 1997, a detailed ground magnetic survey was carried out at the Bluebell and Portland prospects by a third year exploration geophysics group from the University of Tasmania, supervised by Dr. Michael Roach. The report is included as Appendix A. Data was acquired at a line spacing of 10 metres and the survey successfully delineated faults associated with known gold mineralisation as well as faults with no known mineralisation cross-cutting stratigraphic magnetic features. Magnetite destruction and remobilisation is interpreted as alteration associated with the Portland reef. This work showed that if further ground magnetic surveying is undertaken, a maximum line spacing of 20 metres should be used. The study also showed that the best possible helicopter magnetics would not show up the subtle magnetic and structural features at a local scale.

An interpretation of magnetic, radiometric and gravity data was completed in April 1998 by John Ashley of Southern Geoscience Consultants. The main source of data was the MRT Netgold database and the data acquired from the detailed ground magnetic survey (outlined in 4.1) was also used. John Ashley's report is included as Appendix B. Although suggesting that there is "no distinctive signature obviously related to gold mineralisation", John Ashley's study has confirmed the work of Michael Roach in inferring that the Bluebell and Portland gold mineralisation occurs over or adjacent to an anticlinal fold axis. He further infers a 'regional' fault (F2) adjacent to the anticlinal axis and suggests that the area adjacent to F2 is of exploration interest, especially where a series of north-east trending faults intersect both F2 and magnetic lithologies to the east (the Empress prospect). A similar structural setting exists about six kilometres to the east of the Bluebell where north-east trending faults intersect magnetic lithologies between two north-south trending faults, F5 and F6. Other specific areas of exploration interest are near the Big Musselroe mine, where a north-east trending fault intersects magnetic lithologies; zones to the south-east and south-west of the Portland where disrupted magnetic lithologies may indicate alteration; and a magnetic feature three kilometres east-south-east of the Portland which may be related to skarn mineralisation.

TOL 98-  
4245ATOL 98-  
4245B

## **4.0 WORK COMPLETED DURING THE REPORT PERIOD**

### **4.1 Mobile Metal Ion Sampling Program**

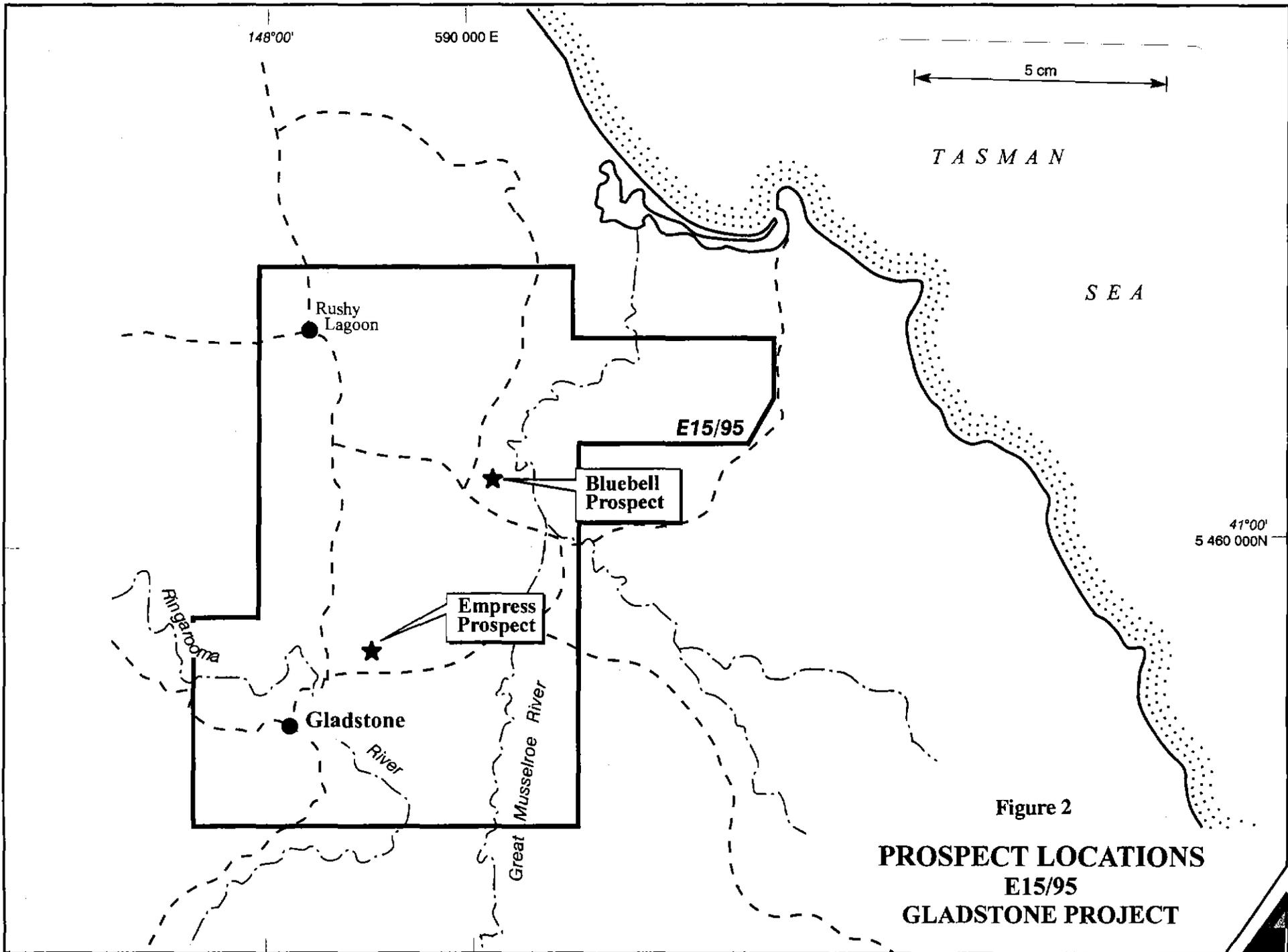
A program of soil sampling for Mobile Metal Ion (MMI) analysis was carried out at both the Empress and Bluebell prospect areas (Figure 2). These programs were initiated as a result of target areas identified from the aeromagnetic interpretation described above as being favourable for hosting gold mineralisation. Samples were collected on a 50m x 200m grid spacing by hand held soil auger to a depth of 30m, placed in sealed plastic bags and dispatched to Australian Laboratory Services in Perth pending MMI analysis. Sample locations are shown in Figures 3a and 3b and sample coordinates are presented in Appendices A and B.

Following a rationalisation of the company's lease holding in North East Tasmania and a review of all exploration data, it was decided not to proceed with the MMI analyses of the samples and to voluntarily surrender the tenement.

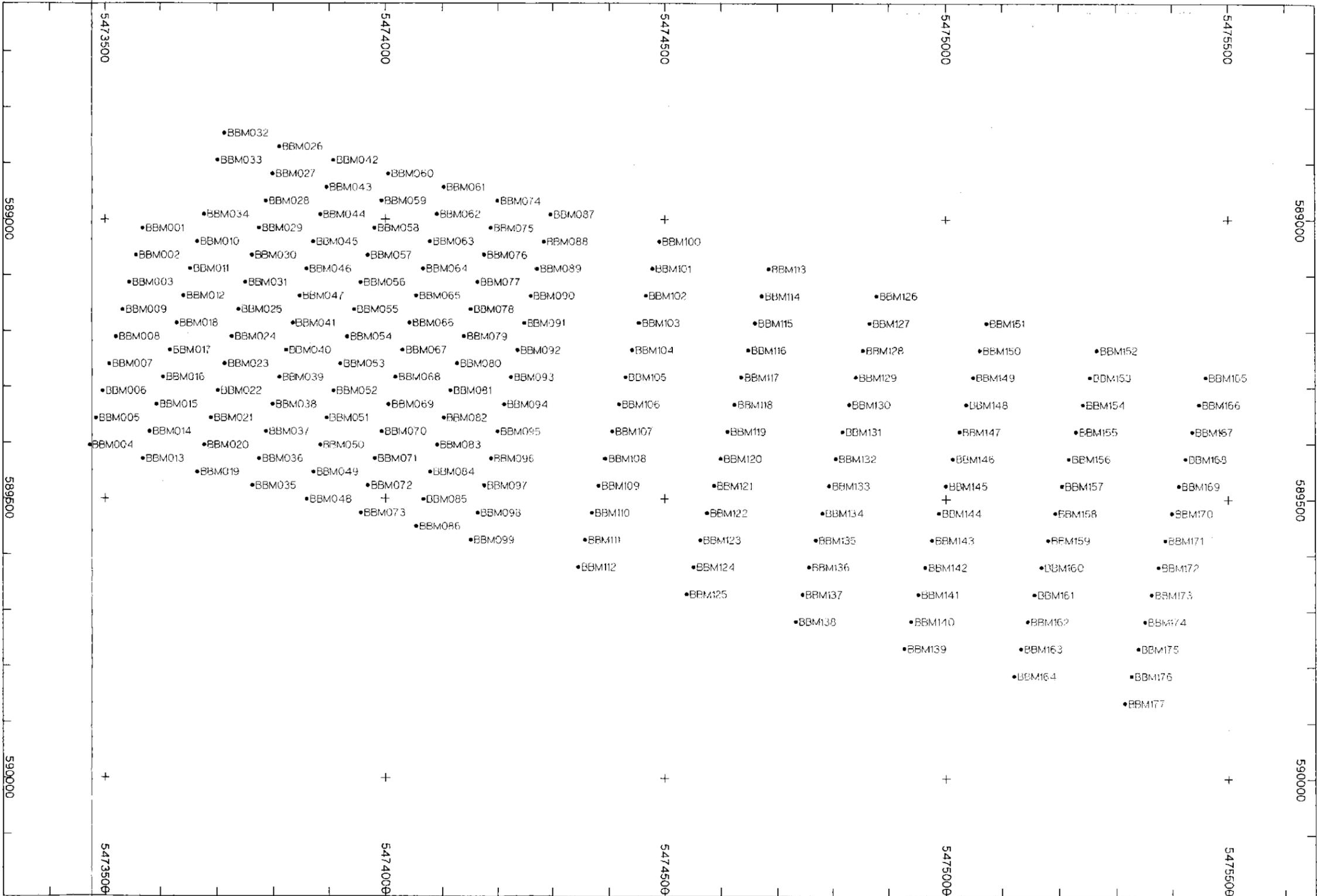
### **4.2 Trenching Program – Empress Prospect**

During the MMI sampling program, 5 rock chip samples (EMP001 – EMP005) were collected from small, isolated sandstone/siltstone outcrops in the vicinity of the Empress Prospect. Sample locations are shown in Figure 4 and assay results are shown in Appendix C. One of these samples, EMP003 and EMP004 returned a highly anomalous gold value of 4.67g/t. Three trenches some 50m in length were excavated at 50m intervals over 100m across the projected lithological strike at the location of EMP003. Trench locations are shown in Figure 5. Trenches were excavated to bedrock, channel sampled at 1 meter intervals and geologically mapped (Figures 6, 7 & 8). All samples from EMPT1 and alternate samples from EMPT2 and EMPT3 were submitted to Analabs in Burnie for gold analysis with a lower detection limit of 10ppb. Assay results are shown in Appendix D.

The tenor of the gold results received was disappointing. Repeatability problems were encountered with selected intervals in EMPT1 and EMPT2. These variations in results recorded clearly indicates the presence of coarse gold. Also of concern was the lack of repeatability of the surface rock chip result of 4.67g/t (coincident with the interval 15m – 16m in EMPT1) which yielded a bedrock value of 0.04g/t at a depth of 0.5m. Interpretation of results suggest a north–south mineralised strike orientation to the south of EMPT1. Clearly this trend is not evident in EMPT3 where neither geology nor mineralisation correlate with EMPT1 and EMPT2. This suggests the presence of a discontinuity between EMPT1 and EMPT3 which either closes or offsets mineralisation to the north.



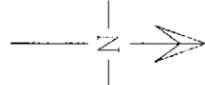
182009



5 cm



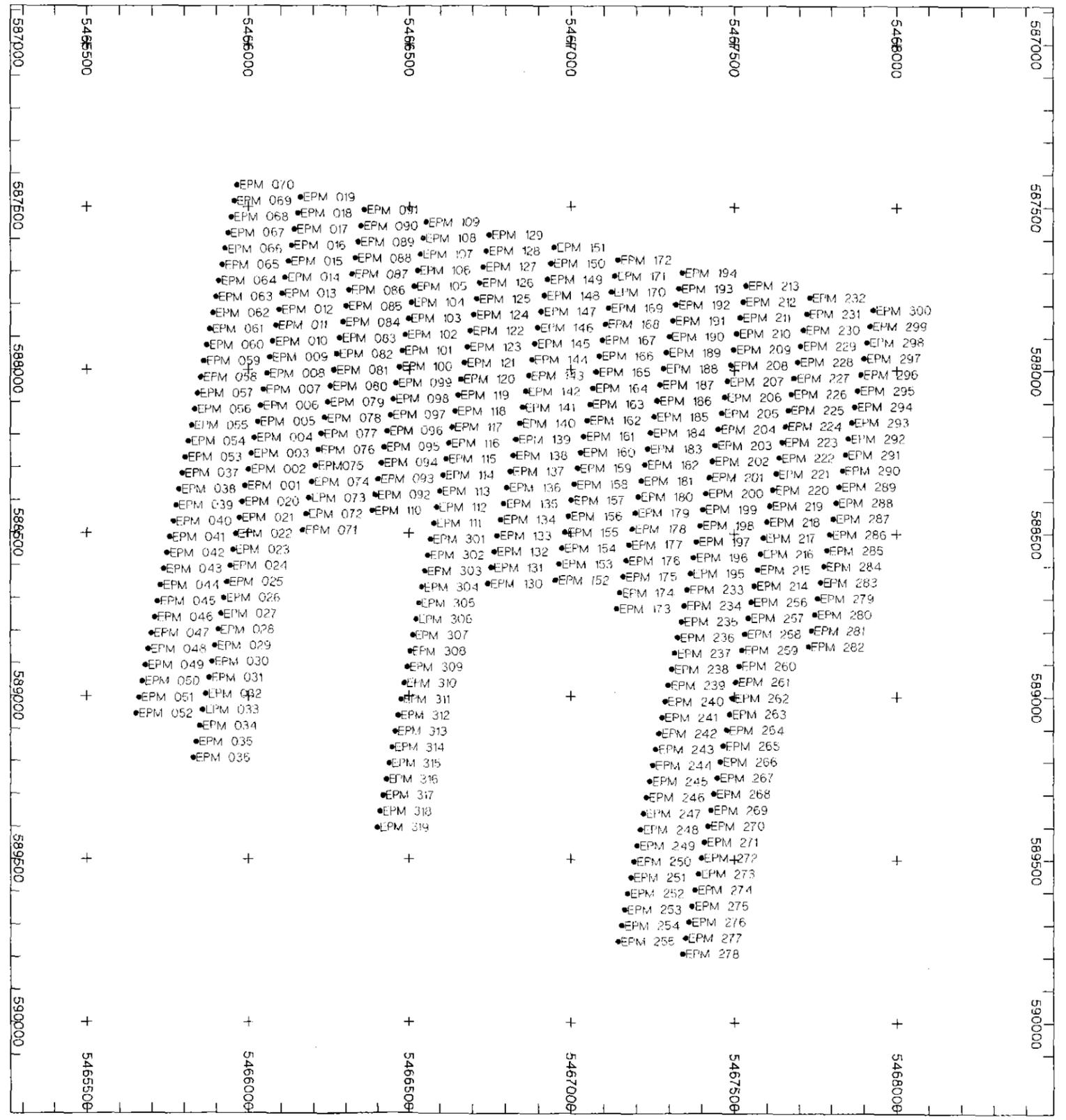
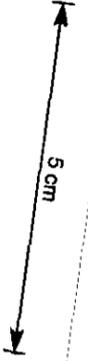
INTERDEX



**ANGLO AUSTRALIAN RESOURCES NL**  
 E15/95 - Gladstone  
 Bluebell Prospect  
 MMI Sample Locations

GEO: D. Kruger    SCALE 1:7500    REPORT:  
 DRAWN: D. Kruger    DATE: 19-08-1999    PLAN: Fig. 3a

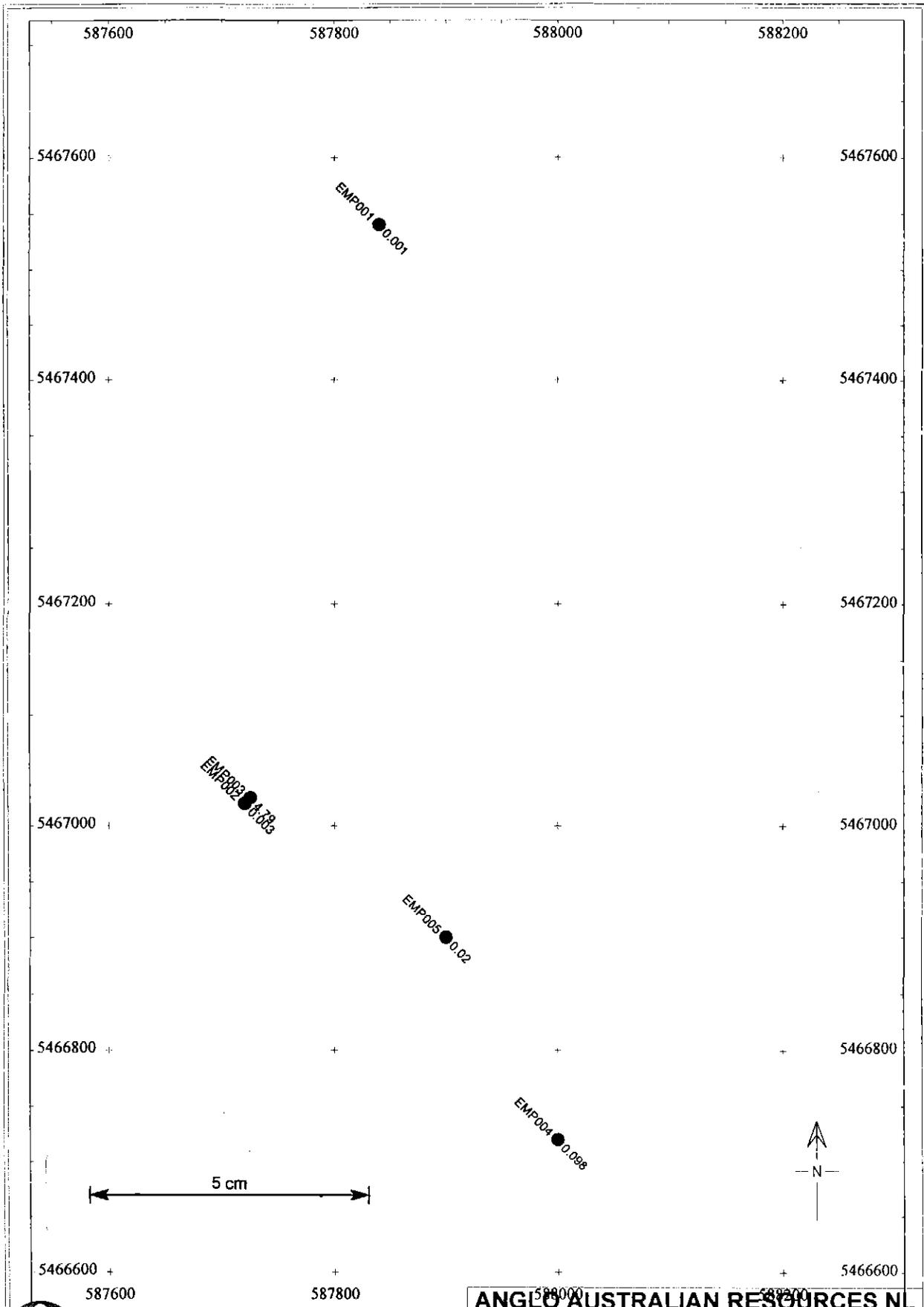
182010



**ANGLO AUSTRALIAN RESOURCES NL**  
 E15/95 - Gladstone  
 Empress Prospect  
 MMI Sample Locations

GEO: D. Kruger SCALE 1:15000 REPORT:  
 DRAWN: D. Kruger DATE: 18-08-1999 PLAN: Fig. 3b

182011



ANGLO AUSTRALIAN RESOURCES NL

E15/95  
 Gladstone  
 North East Tasmania  
 Rock chip sample locations  
 Gold values in ppm



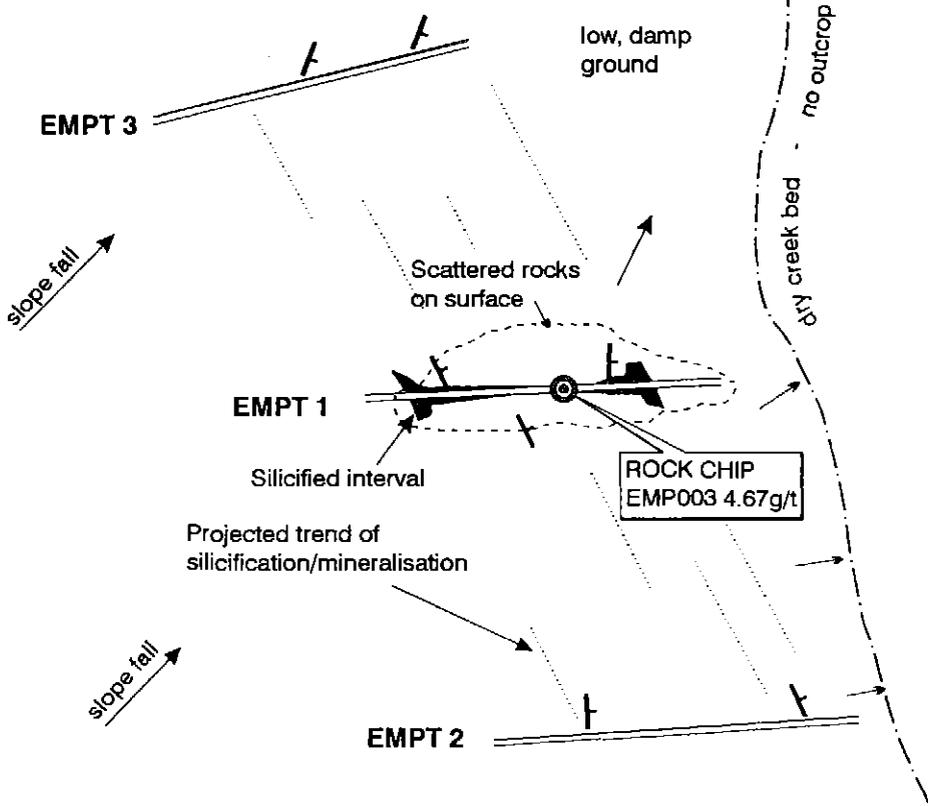
GEO: D. Kruger	SCALE 1:5000	REPORT:
DRAWN: D. Kruger	DATE: 17-08-1999	PLAN: Fig. 4

587 650mE

587 750mE

5 467 100mN

5 467 000mN



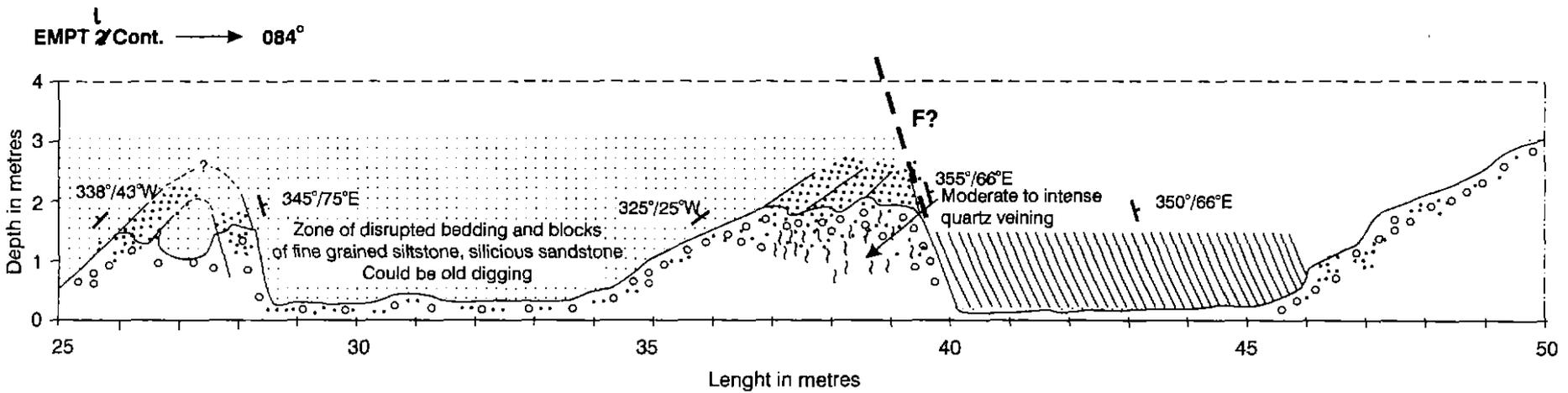
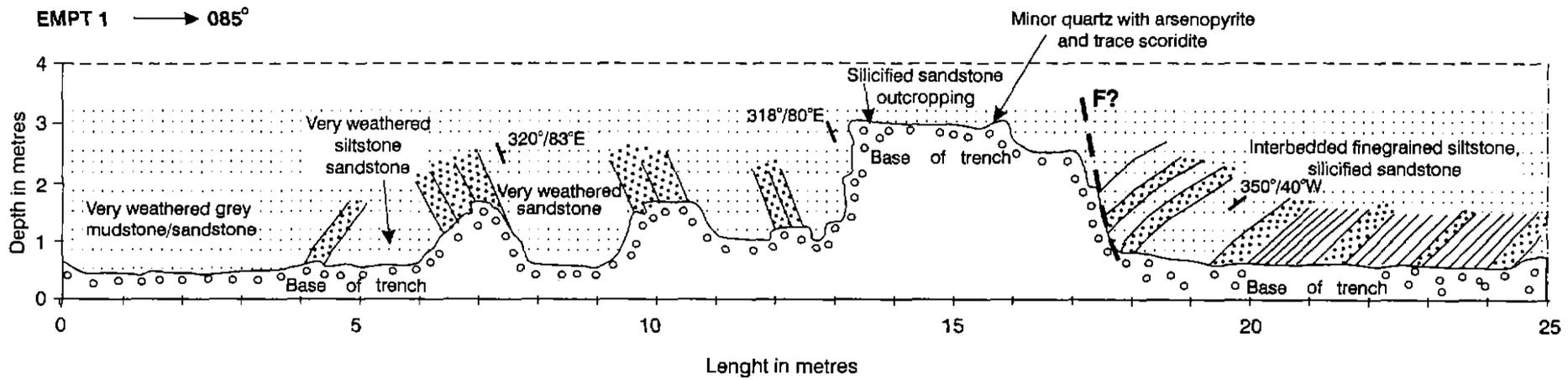
**GLADSTONE PROJECT**  
**E15/95**  
**Empress Prospect**  
**Trench Locations**

Figure 5

5 cm

0 30m

1:100



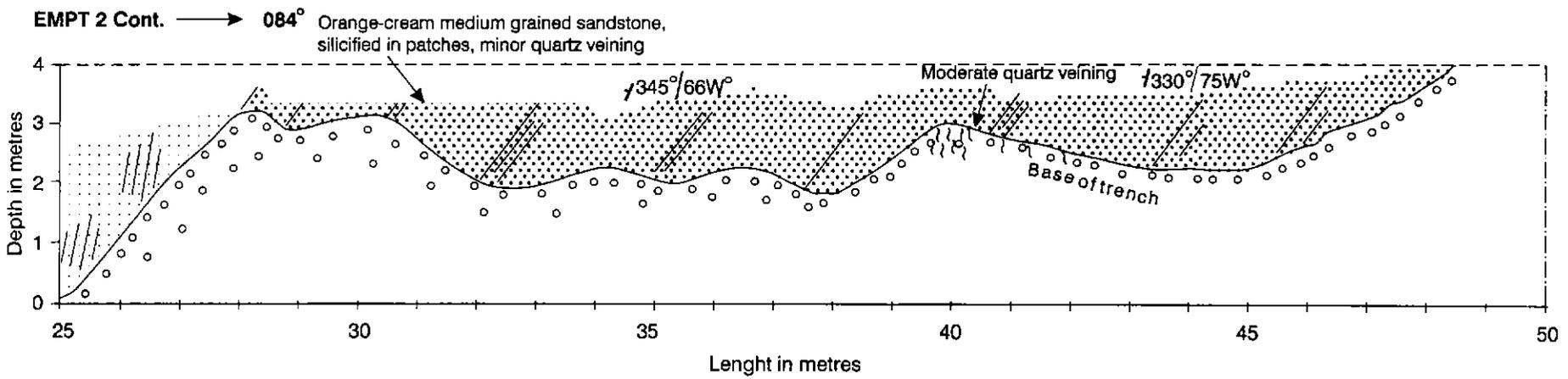
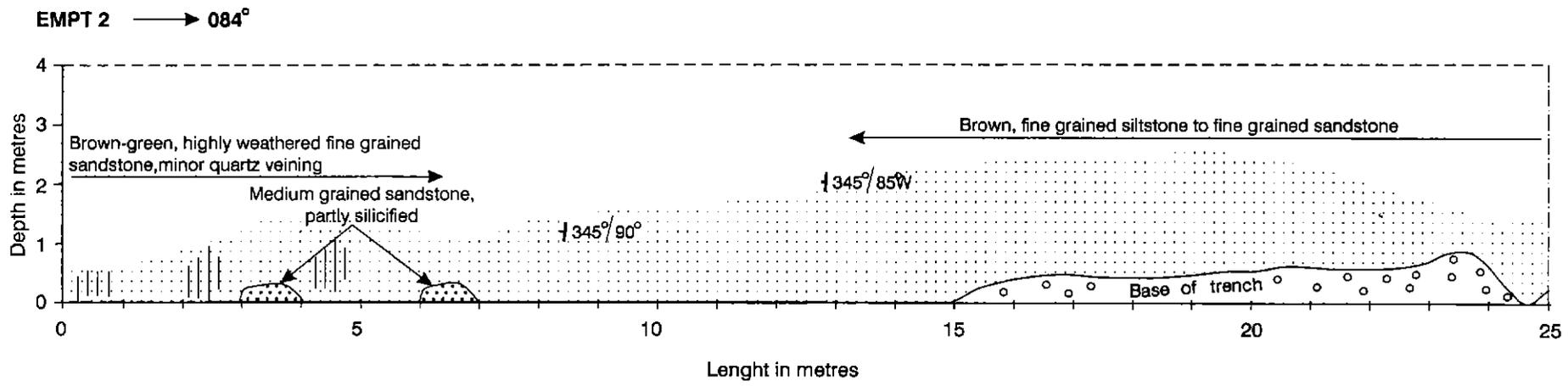
-  Fine grained mudstone/siltstone/sandstone
-  Strongly foliated siltstone/fine grained sandstone
-  Very strongly silicified medium-coarse grained sandstone

5 cm

Figure 6  
**EMPRESS PROSPECT**  
**EMPT 1**  
 Scale 1:100

0 5m

Empt1.cdr



-  Fine grained mudstone/siltstone/sandstone
-  Strongly foliated siltstone/fine grained sandstone
-  Very strongly silicified medium-coarse grained sandstone

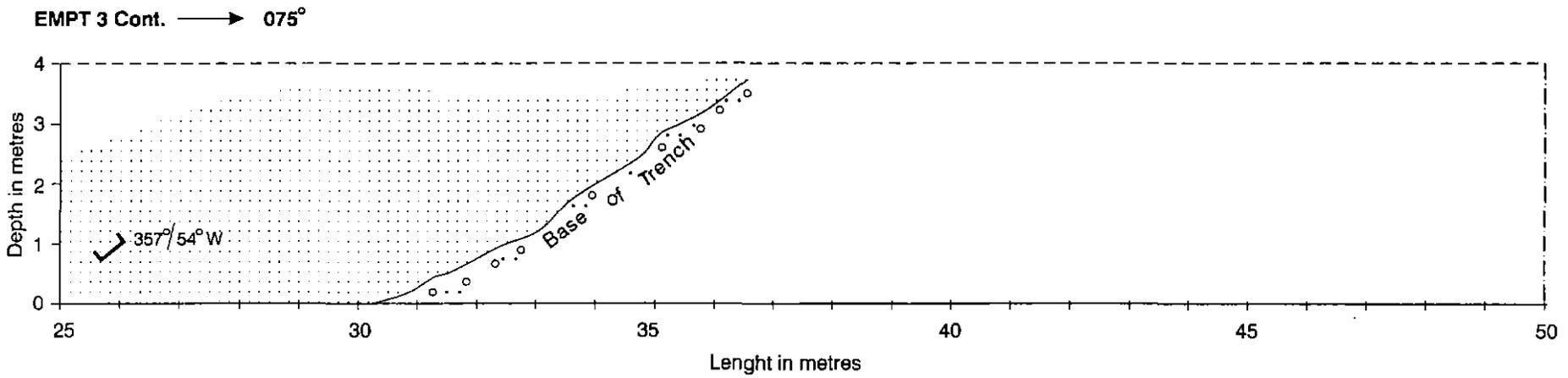
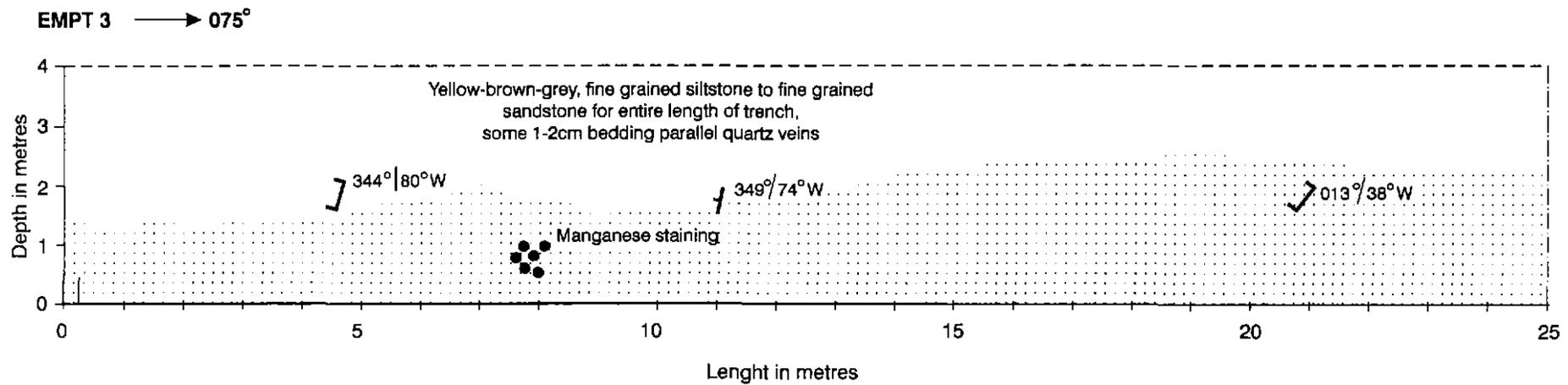
5 cm

0 5m

Figure 7  
**EMPRESS PROSPECT**  
**EMPT 2**  
 Scale 1:100

Empt2.cdr

182015



-  Fine grained mudstone/siltstone/sandstone
-  Strongly foliated siltstone/fine grained sandstone
-  Very strongly silicified medium-coarse grained sandstone

5 cm

0 5m

Figure 8  
**EMPRESS PROSPECT**  
**EMPT 3**  
 Scale 1:100

182016

## 5.0 DISCUSSION

Due to the equivocal results received from the trenching program and following a rationalisation of the company's lease holding in North East Tasmania, it was decided not to proceed with the processing of the MMI analysis of samples collected at both the Empress and Bluebell prospects and to voluntarily surrender the lease.

**APPENDIX A**

**Bluebell Prospect  
MMI Sample Coordinates**

SAMPLE	EAST	NORTH	EAST(amg)	NORTH(amg)
BBM001	5600	5000	589016.682	5473568.648
BBM002	5650	5000	589065.197	5473556.552
BBM003	5700	5000	589113.712	5473544.456
BBM004	6000	5000	589404.8	5473471.879
BBM005	5950	5000	589356.286	5473483.975
BBM006	5900	5000	589307.771	5473496.071
BBM007	5850	5000	589259.256	5473508.167
BBM008	5800	5000	589210.741	5473520.263
BBM009	5750	5000	589162.227	5473532.36
BBM010	5600	5100	589040.874	5473665.677
BBM011	5650	5100	589089.389	5473653.581
BBM012	5700	5100	589137.904	5473641.485
BBM013	6000	5100	589428.993	5473568.909
BBM014	5950	5100	589380.478	5473581.005
BBM015	5900	5100	589331.963	5473593.101
BBM016	5850	5100	589283.448	5473605.197
BBM017	5800	5100	589234.933	5473617.293
BBM018	5750	5100	589186.419	5473629.389
BBM019	6000	5200	589453.185	5473665.938
BBM020	5950	5200	589404.67	5473678.034
BBM021	5900	5200	589356.155	5473690.13
BBM022	5850	5200	589307.64	5473702.227
BBM023	5800	5200	589259.126	5473714.323
BBM024	5750	5200	589210.611	5473726.419
BBM025	5700	5200	589162.096	5473738.515
BBM026	5400	5200	588871.007	5473811.091
BBM027	5450	5200	588919.522	5473798.995
BBM028	5500	5200	588968.037	5473786.899
BBM029	5550	5200	589016.552	5473774.803
BBM030	5600	5200	589065.067	5473762.707
BBM031	5650	5200	589113.581	5473750.611
BBM032	5400	5100	588846.815	5473714.062
BBM033	5450	5100	588895.33	5473701.966
BBM034	5550	5100	588992.36	5473677.773
BBM035	6000	5300	589477.377	5473762.968
BBM036	5950	5300	589428.862	5473775.064
BBM037	5900	5300	589380.347	5473787.16
BBM038	5850	5300	589331.833	5473799.256
BBM039	5800	5300	589283.318	5473811.352
BBM040	5750	5300	589234.803	5473823.448
BBM041	5700	5300	589186.288	5473835.544
BBM042	5400	5300	588895.2	5473908.121
BBM043	5450	5300	588943.714	5473896.025
BBM044	5500	5300	588992.229	5473883.929
BBM045	5550	5300	589040.744	5473871.833
BBM046	5600	5300	589089.259	5473859.737
BBM047	5650	5300	589137.773	5473847.64
BBM048	6000	5400	589501.569	5473859.997
BBM049	5950	5400	589453.054	5473872.093
BBM050	5900	5400	589404.54	5473884.19

SAMPLE	EAST	NORTH	EAST(amg)	NORTH(amg)
BBM051	5850	5400	589356.025	5473896.286
BBM052	5800	5400	589307.51	5473908.382
BBM053	5750	5400	589258.995	5473920.478
BBM054	5700	5400	589210.48	5473932.574
BBM055	5650	5400	589161.966	5473944.67
BBM056	5600	5400	589113.451	5473956.766
BBM057	5550	5400	589064.936	5473968.862
BBM058	5500	5400	589016.421	5473980.958
BBM059	5450	5400	588967.907	5473993.054
BBM060	5400	5400	588919.392	5474005.151
BBM061	5400	5500	588943.584	5474102.18
BBM062	5450	5500	588992.099	5474090.084
BBM063	5500	5500	589040.614	5474077.988
BBM064	5550	5500	589089.128	5474065.892
BBM065	5600	5500	589137.643	5474053.796
BBM066	5650	5500	589186.158	5474041.7
BBM067	5700	5500	589234.673	5474029.604
BBM068	5750	5500	589283.187	5474017.507
BBM069	5800	5500	589331.702	5474005.411
BBM070	5850	5500	589380.217	5473993.315
BBM071	5900	5500	589428.732	5473981.219
BBM072	5950	5500	589477.247	5473969.123
BBM073	6000	5500	589525.761	5473957.027
BBM074	5400	5600	588967.776	5474199.21
BBM075	5450	5600	589016.291	5474187.114
BBM076	5500	5600	589064.806	5474175.017
BBM077	5550	5600	589113.32	5474162.921
BBM078	5600	5600	589161.835	5474150.825
BBM079	5650	5600	589210.35	5474138.729
BBM080	5700	5600	589258.865	5474126.633
BBM081	5750	5600	589307.38	5474114.537
BBM082	5800	5600	589355.894	5474102.441
BBM083	5850	5600	589404.409	5474090.345
BBM084	5900	5600	589452.924	5474078.249
BBM085	5950	5600	589501.439	5474066.153
BBM086	6000	5600	589549.954	5474054.057
BBM087	5400	5700	588991.968	5474296.239
BBM088	5450	5700	589040.483	5474284.143
BBM089	5500	5700	589088.998	5474272.047
BBM090	5550	5700	589137.513	5474259.951
BBM091	5600	5700	589186.027	5474247.855
BBM092	5650	5700	589234.542	5474235.759
BBM093	5700	5700	589283.057	5474223.663
BBM094	5750	5700	589331.572	5474211.567
BBM095	5800	5700	589380.087	5474199.47
BBM096	5850	5700	589428.601	5474187.374
BBM097	5900	5700	589477.116	5474175.278
BBM098	5950	5700	589525.631	5474163.182
BBM099	6000	5700	589574.146	5474151.086
BBM100	5400	5900	589040.353	5474490.298

SAMPLE	EAST	NORTH	EAST(amg)	NORTH(amg)
BBM101	5450	5900	589088.867	5474478.202
BBM102	5500	5900	589137.382	5474466.106
BBM103	5550	5900	589185.897	5474454.01
BBM104	5600	5900	589234.412	5474441.914
BBM105	5650	5900	589282.927	5474429.818
BBM106	5700	5900	589331.441	5474417.722
BBM107	5750	5900	589379.956	5474405.626
BBM108	5800	5900	589428.471	5474393.53
BBM109	5850	5900	589476.986	5474381.434
BBM110	5900	5900	589525.501	5474369.337
BBM111	5950	5900	589574.015	5474357.241
BBM112	6000	5900	589622.53	5474345.145
BBM113	5400	6100	589088.737	5474684.358
BBM114	5450	6100	589137.252	5474672.261
BBM115	5500	6100	589185.767	5474660.165
BBM116	5550	6100	589234.281	5474648.069
BBM117	5600	6100	589282.796	5474635.973
BBM118	5650	6100	589331.311	5474623.877
BBM119	5700	6100	589379.826	5474611.781
BBM120	5750	6100	589428.341	5474599.685
BBM121	5800	6100	589476.855	5474587.589
BBM122	5850	6100	589525.37	5474575.493
BBM123	5900	6100	589573.885	5474563.397
BBM124	5950	6100	589622.4	5474551.3
BBM125	6000	6100	589670.915	5474539.204
BBM126	5400	6300	589137.121	5474878.417
BBM127	5450	6300	589185.636	5474866.321
BBM128	5500	6300	589234.151	5474854.224
BBM129	5550	6300	589282.666	5474842.128
BBM130	5600	6300	589331.181	5474830.032
BBM131	5650	6300	589379.695	5474817.936
BBM132	5700	6300	589428.21	5474805.84
BBM133	5750	6300	589476.725	5474793.744
BBM134	5800	6300	589525.24	5474781.648
BBM135	5850	6300	589573.755	5474769.552
BBM136	5900	6300	589622.269	5474757.456
BBM137	5950	6300	589670.784	5474745.36
BBM138	6000	6300	589719.299	5474733.264
BBM139	5000	6500	589767.683	5474927.323
BBM140	5950	6500	589719.168	5474939.419
BBM141	5900	6500	589670.654	5474951.515
BBM142	5850	6500	589622.139	5474963.611
BBM143	5800	6500	589573.624	5474975.707
BBM144	5750	6500	589525.109	5474987.803
BBM145	5700	6500	589476.595	5474999.899
BBM146	5650	6500	589428.08	5475011.995
BBM147	5600	6500	589379.565	5475024.091
BBM148	5550	6500	589331.05	5475036.188
BBM149	5500	6500	589282.535	5475048.284
BBM150	5450	6500	589234.021	5475060.38

SAMPLE	EAST	NORTH	EAST(amg)	NORTH(amg)
BBM151	5400	6500	589185.506	5475072.476
BBM152	5400	6700	589233.89	5475266.535
BBM153	5450	6700	589282.405	5475254.439
BBM154	5500	6700	589330.92	5475242.343
BBM155	5550	6700	589379.435	5475230.247
BBM156	5600	6700	589427.949	5475218.151
BBM157	5650	6700	589476.464	5475206.054
BBM158	5700	6700	589524.979	5475193.958
BBM159	5750	6700	589573.494	5475181.862
BBM160	5800	6700	589622.009	5475169.766
BBM161	5850	6700	589670.523	5475157.67
BBM162	5900	6700	589719.038	5475145.574
BBM163	5950	6700	589767.553	5475133.478
BBM164	6000	6700	589816.068	5475121.382
BBM165	5400	6900	589282.275	5475460.594
BBM166	5450	6900	589330.789	5475448.498
BBM167	5500	6900	589379.304	5475436.402
BBM168	5550	6900	589427.819	5475424.306
BBM169	5600	6900	589476.334	5475412.21
BBM170	5650	6900	589524.849	5475400.114
BBM171	5700	6900	589573.363	5475388.018
BBM172	5750	6900	589621.878	5475375.921
BBM173	5800	6900	589670.393	5475363.825
BBM174	5850	6900	589718.908	5475351.729
BBM175	5900	6900	589767.422	5475339.633
BBM176	5950	6900	589815.937	5475327.537
BBM177	6000	6900	589864.452	5475315.441

**APPENDIX B**  
**Empress Prospect**  
**MMI Sample Coordinates**

EAST	NORTH	SAMPLE	EAST(amt)	NORTH(amt)
5000	4400	EPM 001	588356	5465991
4950	4400	EPM 002	588306	5466001
4900	4400	EPM 003	588257	5466010
4850	4400	EPM 004	588208	5466020
4800	4400	EPM 005	588159	5466029
4750	4400	EPM 006	588110	5466039
4700	4400	EPM 007	588061	5466048
4650	4400	EPM 008	588012	5466058
4600	4400	EPM 009	587963	5466067
4550	4400	EPM 010	587914	5466077
4500	4400	EPM 011	587865	5466086
4450	4400	EPM 012	587816	5466096
4400	4400	EPM 013	587767	5466106
4350	4400	EPM 014	587717	5466115
4300	4400	EPM 015	587668	5466125
4250	4400	EPM 016	587619	5466134
4200	4400	EPM 017	587570	5466144
4150	4400	EPM 018	587521	5466153
4100	4400	EPM 019	587472	5466163
5050	4400	EPM 020	588405	5465981
5100	4400	EPM 021	588454	5465972
5150	4400	EPM 022	588503	5465962
5200	4400	EPM 023	588552	5465953
5250	4400	EPM 024	588601	5465943
5300	4400	EPM 025	588650	5465934
5350	4400	EPM 026	588699	5465924
5400	4400	EPM 027	588748	5465915
5450	4400	EPM 028	588797	5465905
5500	4400	EPM 029	588846	5465896
5550	4400	EPM 030	588895	5465886
5600	4400	EPM 031	588944	5465877
5650	4400	EPM 032	588994	5465867
5700	4400	EPM 033	589043	5465857
5750	4400	EPM 034	589092	5465848
5800	4400	EPM 035	589141	5465838
5850	4400	EPM 036	589190	5465829
5000	4200	EPM 037	588317	5465795
5050	4200	EPM 038	588366	5465785
5100	4200	EPM 039	588416	5465776
5150	4200	EPM 040	588465	5465766
5200	4200	EPM 041	588514	5465757
5250	4200	EPM 042	588563	5465747
5300	4200	EPM 043	588612	5465737
5350	4200	EPM 044	588661	5465728
5400	4200	EPM 045	588710	5465718
5450	4200	EPM 046	588759	5465709
5500	4200	EPM 047	588808	5465699
5550	4200	EPM 048	588857	5465690
5600	4200	EPM 049	588906	5465680
5650	4200	EPM 050	588955	5465671

EAST	NORTH	SAMPLE	EAST(amg)	NORTH(amg)
5700	4200	EPM 051	589004	5465661
5750	4200	EPM 052	589054	5465652
4950	4200	EPM 053	588268	5465804
4900	4200	EPM 054	588219	5465814
4850	4200	EPM 055	588170	5465823
4800	4200	EPM 056	588121	5465833
4750	4200	EPM 057	588072	5465842
4700	4200	EPM 058	588023	5465852
4650	4200	EPM 059	587974	5465861
4600	4200	EPM 060	587925	5465871
4550	4200	EPM 061	587876	5465881
4500	4200	EPM 062	587827	5465890
4450	4200	EPM 063	587777	5465900
4400	4200	EPM 064	587728	5465909
4350	4200	EPM 065	587679	5465919
4300	4200	EPM 066	587630	5465928
4250	4200	EPM 067	587581	5465938
4200	4200	EPM 068	587532	5465947
4150	4200	EPM 069	587483	5465957
4100	4200	EPM 070	587434	5465966
5100	4600	EPM 071	588492	5466168
5050	4600	EPM 072	588443	5466178
5000	4600	EPM 073	588394	5466187
4950	4600	EPM 074	588345	5466197
4900	4600	EPM 075	588296	5466206
4850	4600	EPM 076	588246	5466216
4800	4600	EPM 077	588197	5466226
4750	4600	EPM 078	588148	5466235
4700	4600	EPM 079	588099	5466245
4650	4600	EPM 080	588050	5466254
4600	4600	EPM 081	588001	5466264
4550	4600	EPM 082	587952	5466273
4500	4600	EPM 083	587903	5466283
4450	4600	EPM 084	587854	5466292
4400	4600	EPM 085	587805	5466302
4350	4600	EPM 086	587756	5466311
4300	4600	EPM 087	587707	5466321
4250	4600	EPM 088	587657	5466330
4200	4600	EPM 089	587608	5466340
4150	4600	EPM 090	587559	5466350
4100	4600	EPM 091	587510	5466359
4950	4800	EPM 092	588383	5466393
4900	4800	EPM 093	588334	5466403
4850	4800	EPM 094	588285	5466412
4800	4800	EPM 095	588236	5466422
4750	4800	EPM 096	588186	5466431
4700	4800	EPM 097	588137	5466441
4650	4800	EPM 098	588088	5466450
4600	4800	EPM 099	588039	5466460
4550	4800	EPM 100	587990	5466470

EAST	NORTH	SAMPLE	EAST(amtg)	NORTH(amtg)
4500	4800	EPM 101	587941	5466479
4450	4800	EPM 102	587892	5466489
4400	4800	EPM 103	587843	5466498
4350	4800	EPM 104	587794	5466508
4300	4800	EPM 105	587745	5466517
4250	4800	EPM 106	587696	5466527
4200	4800	EPM 107	587647	5466536
4150	4800	EPM 108	587597	5466546
4100	4800	EPM 109	587548	5466555
5000	4800	EPM 110	588432	5466384
5000	5000	EPM 111	588470	5466580
4950	5000	EPM 112	588421	5466590
4900	5000	EPM 113	588372	5466599
4850	5000	EPM 114	588323	5466609
4800	5000	EPM 115	588274	5466618
4750	5000	EPM 116	588225	5466628
4700	5000	EPM 117	588176	5466637
4650	5000	EPM 118	588126	5466647
4600	5000	EPM 119	588077	5466656
4550	5000	EPM 120	588028	5466666
4500	5000	EPM 121	587979	5466675
4400	5000	EPM 122	587881	5466694
4450	5000	EPM 123	587930	5466685
4350	5000	EPM 124	587832	5466704
4300	5000	EPM 125	587783	5466714
4250	5000	EPM 126	587734	5466723
4200	5000	EPM 127	587685	5466733
4150	5000	EPM 128	587636	5466742
4100	5000	EPM 129	587587	5466752
5150	5200	EPM 130	588655	5466748
5100	5200	EPM 131	588606	5466757
5050	5200	EPM 132	588557	5466767
5000	5200	EPM 133	588508	5466776
4950	5200	EPM 134	588459	5466786
4900	5200	EPM 135	588410	5466795
4850	5200	EPM 136	588361	5466805
4800	5200	EPM 137	588312	5466814
4750	5200	EPM 138	588263	5466824
4700	5200	EPM 139	588214	5466834
4650	5200	EPM 140	588165	5466843
4600	5200	EPM 141	588116	5466853
4550	5200	EPM 142	588066	5466862
4500	5200	EPM 143	588017	5466872
4450	5200	EPM 144	587968	5466881
4400	5200	EPM 145	587919	5466891
4350	5200	EPM 146	587870	5466900
4300	5200	EPM 147	587821	5466910
4250	5200	EPM 148	587772	5466919
4200	5200	EPM 149	587723	5466929
4150	5200	EPM 150	587674	5466939

EAST	NORTH	SAMPLE	EAST(amt)	NORTH(amt)
4100	5200	EPM 151	587625	5466948
5100	5400	EPM 152	588644	5466954
5050	5400	EPM 153	588595	5466963
5000	5400	EPM 154	588546	5466973
4950	5400	EPM 155	588497	5466982
4900	5400	EPM 156	588448	5466992
4850	5400	EPM 157	588399	5467001
4800	5400	EPM 158	588350	5467011
4750	5400	EPM 159	588301	5467020
4700	5400	EPM 160	588252	5467030
4650	5400	EPM 161	588203	5467039
4600	5400	EPM 162	588154	5467049
4550	5400	EPM 163	588105	5467059
4500	5400	EPM 164	588056	5467068
4450	5400	EPM 165	588006	5467078
4400	5400	EPM 166	587957	5467087
4350	5400	EPM 167	587908	5467097
4300	5400	EPM 168	587859	5467106
4250	5400	EPM 169	587810	5467116
4200	5400	EPM 170	587761	5467125
4150	5400	EPM 171	587712	5467135
4100	5400	EPM 172	587663	5467144
5150	5600	EPM 173	588732	5467140
5100	5600	EPM 174	588683	5467150
5050	5600	EPM 175	588634	5467159
5000	5600	EPM 176	588584	5467169
4950	5600	EPM 177	588535	5467179
4900	5600	EPM 178	588486	5467188
4850	5600	EPM 179	588437	5467198
4800	5600	EPM 180	588388	5467207
4750	5600	EPM 181	588339	5467217
4700	5600	EPM 182	588290	5467226
4650	5600	EPM 183	588241	5467236
4600	5600	EPM 184	588192	5467245
4550	5600	EPM 185	588143	5467255
4500	5600	EPM 186	588094	5467264
4450	5600	EPM 187	588045	5467274
4400	5600	EPM 188	587996	5467283
4350	5600	EPM 189	587946	5467293
4300	5600	EPM 190	587897	5467303
4250	5600	EPM 191	587848	5467312
4200	5600	EPM 192	587799	5467322
4150	5600	EPM 193	587750	5467331
4100	5600	EPM 194	587701	5467341
5000	5800	EPM 195	588623	5467365
4950	5800	EPM 196	588574	5467375
4900	5800	EPM 197	588524	5467384
4850	5800	EPM 198	588475	5467394
4800	5800	EPM 199	588426	5467403
4750	5800	EPM 200	588377	5467413

EAST	NORTH	SAMPLE	EAST(amt)	NORTH(amt)
4700	5800	EPM 201	588328	5467423
4650	5800	EPM 202	588279	5467432
4600	5800	EPM 203	588230	5467442
4550	5800	EPM 204	588181	5467451
4500	5800	EPM 205	588132	5467461
4450	5800	EPM 206	588083	5467470
4400	5800	EPM 207	588034	5467480
4350	5800	EPM 208	587985	5467489
4300	5800	EPM 209	587936	5467499
4250	5800	EPM 210	587886	5467508
4200	5800	EPM 211	587837	5467518
4150	5800	EPM 212	587788	5467527
4100	5800	EPM 213	587739	5467537
5000	6000	EPM 214	588661	5467562
4950	6000	EPM 215	588612	5467571
4900	6000	EPM 216	588563	5467581
4850	6000	EPM 217	588514	5467590
4800	6000	EPM 218	588464	5467600
4750	6000	EPM 219	588415	5467609
4700	6000	EPM 220	588366	5467619
4650	6000	EPM 221	588317	5467628
4600	6000	EPM 222	588268	5467638
4550	6000	EPM 223	588219	5467647
4500	6000	EPM 224	588170	5467657
4450	6000	EPM 225	588121	5467667
4400	6000	EPM 226	588072	5467676
4350	6000	EPM 227	588023	5467686
4300	6000	EPM 228	587974	5467695
4250	6000	EPM 229	587925	5467705
4200	6000	EPM 230	587876	5467714
4150	6000	EPM 231	587826	5467724
4100	6000	EPM 232	587777	5467733
5050	5800	EPM 233	588672	5467356
5100	5800	EPM 234	588721	5467346
5150	5800	EPM 235	588770	5467337
5200	5800	EPM 236	588819	5467327
5250	5800	EPM 237	588868	5467318
5300	5800	EPM 238	588917	5467308
5350	5800	EPM 239	588966	5467299
5400	5800	EPM 240	589015	5467289
5450	5800	EPM 241	589064	5467279
5500	5800	EPM 242	589113	5467270
5550	5800	EPM 243	589163	5467260
5600	5800	EPM 244	589212	5467251
5650	5800	EPM 245	589261	5467241
5700	5800	EPM 246	589310	5467232
5750	5800	EPM 247	589359	5467222
5800	5800	EPM 248	589408	5467213
5850	5800	EPM 249	589457	5467203
5900	5800	EPM 250	589506	5467194

EAST	NORTH	SAMPLE	EAST(amg)	NORTH(amg)
5950	5800	EPM 251	589555	5467184
6000	5800	EPM 252	589604	5467174
6050	5800	EPM 253	589653	5467165
6100	5800	EPM 254	589702	5467155
6150	5800	EPM 255	589752	5467146
5050	6000	EPM 256	588710	5467552
5100	6000	EPM 257	588759	5467543
5150	6000	EPM 258	588808	5467533
5200	6000	EPM 259	588857	5467523
5250	6000	EPM 260	588906	5467514
5300	6000	EPM 261	588955	5467504
5350	6000	EPM 262	589004	5467495
5400	6000	EPM 263	589053	5467485
5450	6000	EPM 264	589103	5467476
5500	6000	EPM 265	589152	5467466
5550	6000	EPM 266	589201	5467457
5600	6000	EPM 267	589250	5467447
5650	6000	EPM 268	589299	5467438
5700	6000	EPM 269	589348	5467428
5750	6000	EPM 270	589397	5467419
5800	6000	EPM 271	589446	5467409
5850	6000	EPM 272	589495	5467399
5900	6000	EPM 273	589544	5467390
5950	6000	EPM 274	589593	5467380
6000	6000	EPM 275	589642	5467371
6050	6000	EPM 276	589692	5467361
6100	6000	EPM 277	589741	5467352
6150	6000	EPM 278	589790	5467342
5000	6200	EPM 279	588699	5467758
5050	6200	EPM 280	588748	5467748
5100	6200	EPM 281	588797	5467739
5150	6200	EPM 282	588846	5467729
4950	6200	EPM 283	588650	5467767
4900	6200	EPM 284	588601	5467777
4850	6200	EPM 285	588552	5467787
4800	6200	EPM 286	588503	5467796
4750	6200	EPM 287	588454	5467806
4700	6200	EPM 288	588404	5467815
4650	6200	EPM 289	588355	5467825
4600	6200	EPM 290	588306	5467834
4550	6200	EPM 291	588257	5467844
4500	6200	EPM 292	588208	5467853
4450	6200	EPM 293	588159	5467863
4400	6200	EPM 294	588110	5467872
4350	6200	EPM 295	588061	5467882
4300	6200	EPM 296	588012	5467892
4250	6200	EPM 297	587963	5467901
4200	6200	EPM 298	587914	5467911
4150	6200	EPM 299	587865	5467920
4100	6200	EPM 300	587816	5467930

EAST	NORTH	SAMPLE	EAST(amg)	NORTH(amg)
5050	5000	EPM 301	588519	5466570
5100	5000	EPM 302	588568	5466561
5150	5000	EPM 303	588617	5466551
5200	5000	EPM 304	588666	5466542
5250	5000	EPM 305	588715	5466532
5300	5000	EPM 306	588764	5466523
5350	5000	EPM 307	588814	5466513
5400	5000	EPM 308	588863	5466504
5450	5000	EPM 309	588912	5466494
5500	5000	EPM 310	588961	5466485
5550	5000	EPM 311	589010	5466475
5600	5000	EPM 312	589059	5466466
5650	5000	EPM 313	589108	5466456
5700	5000	EPM 314	589157	5466446
5750	5000	EPM 315	589206	5466437
5800	5000	EPM 316	589255	5466427
5850	5000	EPM 317	589304	5466418
5900	5000	EPM 318	589353	5466408
5950	5000	EPM 319	589403	5466399

**APPENDIX C**

**Empress Prospect  
Rock Chip Sample Coordinates  
and Assay Results**

Sample No	Easting	Northing	Au1 (ppm)	Au2(ppm)	Au4 (ave)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	As (ppm)	Bi (ppm)	Mo (ppm)	Sb (ppm)
EMP001	587840	5467540	0.001			54	127	25	0	5	10	7	0
EMP002	587720	5467020	0.003			15	4	9	0	93	0	11	0
EMP003	587725	5467025	4.79	5	4.67	20	8	6	1	6260	2	23	7
EMP004	588000	5466720	0.098			19	5	8	0	848	0	17	0
EMP005	587900	5466900	0.02			13	2	4	0	28	0	23	0



# ANALYTICAL REPORT

CONTACT: MR D KRUGER  
CLIENT: ANGL0 AUSTRALIAN RESOURCES N L  
ADDRESS: 1ST FLOOR 44 ORD STREET  
WEST PERTH WA 6005

LABORATORY: PERTH  
BATCH NUMBER: PH12990  
SUB BATCH: 0  
No. OF SAMPLES: 55  
DATE RECEIVED: 28/01/99  
DATE COMPLETED: 03/02/99

ORDER No.: 110317

SAMPLE TYPE: RC DRILL CHIP

PROJECT:

SAMPLE NUMBER	ELEMENT UNIT METHOD L.O.R.	No ppm IC205	Sb ppm IC205	Au ppm PM205	Au PM205 ppm CHECKS	Au PM205 ppm CHECKS	Au PM205 ppm CHECKS
		1	2	0.001	0.001	0.02	0.02

EMP 1	7	<2	0.001			
EMP 2	11	<2	0.003			
EMP 3	23	7	>0.500		4.79	4.55 A.67
EMP 4	17	<2	0.098			
EMP 5	23	<2	0.020			

COMMENTS:

• This is the Final Report which supersedes any preliminary reports with this batch number.

• Results apply to sample(s) as submitted by client.

Alice Springs Laboratory  
Phone: (08) 8952 6020 Fax: (08) 8952 6028  
Bendigo Laboratory  
Phone: (03) 5446 1390 Fax: (03) 5446 1389  
Brisbane Laboratory  
Phone: (07) 3243 7222 Fax: (07) 3243 7218  
Charters Towers Laboratory

Cloncurry Laboratory  
Phone: (077) 42 1323 Fax: (077) 42 1685  
Kalgoorlie Laboratory  
Phone: (08) 9021 1457 Fax: (08) 9021 6253  
New Zealand Laboratory  
Phone: (07) 575 7654 Fax: (07) 575 7641  
Orange Laboratory

Perth Laboratory  
Phone: (08) 9249 2988 Fax: (08) 9249 2942  
Townsville Laboratory  
Phone: (077) 79 9155 Fax: (077) 79 9729

**ANALYTICAL REPORT**

CONTACT: MR D KRUGER  
CLIENT: ANGLIO AUSTRALIAN RESOURCES N L  
ADDRESS: 1ST FLOOR 44 ORD STREET  
WEST PERTH WA 6005

LABORATORY: PERTH  
BATCH NUMBER: PH12990  
SUB BATCH: 0  
No. OF SAMPLES: 55  
DATE RECEIVED: 28/01/99  
DATE COMPLETED: 03/02/99

ORDER No.: 110317

SAMPLE TYPE: RC DRILL CHIP

PROJECT:

SAMPLE NUMBER	ELEMENT UNIT METHOD L.O.R.	Cu ppm IC205 1	Pb ppm IC205 1	Zn ppm IC205 1	Ag ppm IC205 0.2	As ppm IC205 1	Bi ppm IC205 2
---------------	----------------------------	----------------	----------------	----------------	------------------	----------------	----------------

EMP 1	54	127	25	<0.2	5	10
EMP 2	15	4	9	<0.2	93	<2
EMP 3	20	8	6	1.3	6260	2
EMP 4	19	5	8	<0.2	648	<2
EMP 5	13	2	4	<0.2	28	<2

COMMENTS:

• This is the Final Report which supersedes any preliminary reports with this batch number.

• Results apply to sample(s) as submitted by client.

Alice Springs Laboratory  
Phone: (08) 8952 6020 Fax: (08) 8952 6028  
Bendigo Laboratory  
Phone: (03) 5446 1390 Fax: (03) 5446 1389  
Brisbane Laboratory  
Phone: (07) 3243 7222 Fax: (07) 3243 7218  
Charters Towers Laboratory

Cloncurry Laboratory  
Phone: (077) 42 1323 Fax: (077) 42 1685  
Kalgoorlie Laboratory  
Phone: (08) 9021 1457 Fax: (08) 9021 6253  
New Zealand Laboratory  
Phone: (07) 575 7654 Fax: (07) 575 7641  
Orange Laboratory

Perth Laboratory  
Phone: (08) 9249 2988 Fax: (08) 9249 2942  
Townsville Laboratory  
Phone: (077) 79 9155 Fax: (077) 79 9729

All pages of this report have been checked and approved for release.

**APPENDIX D**

**Empress Prospect  
Trenching Assay Results**



Our reference : BU015941  
 Your reference : 2169  
 Project code : Trenches  
 Date received : 03/03/99  
 Date reported : 11/03/99

Analabs Pty. Ltd.  
 ACN 004 591 664  
 14 Thirkell St, Burnie  
 Tasmania 7320  
 Telephone : (03) 6431 6837  
 Facsimile : (03) 6431 8890

Dennis Kruger  
 Managing Geologist  
 Exploration  
 Anglo Australian Resources  
 Level 1  
 44 Ord Street  
 West Perth  
 WA 6005  
 Australia

Number of pages of results : 2  
 Number of Samples : 79  
 First Sample : EMPT 1 0-1  
 Last Sample : EMPT 3 28-29

Electronic Data Transmission :  
 Modern Y 11/03/99  
 Facsimile / /  
 Disk Report / /

Authorised by .....  
 On behalf of: .....

Rob Chapman  
 Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory  
 for preparation and/or analysis as requested by the client.



Our reference : BU015941  
 Your reference : 2169  
 Project code : Trenches  
 Report date : 11/03/99  
 Report status : Final  
 Page : 1 of 2

Analabs Pty. Ltd.  
 ACN 004 591 664  
 14 Thirkell St, Burnie  
 Tasmania 7320  
 Telephone : (03) 6431 6837  
 Facsimile : (03) 6431 8890

### ANALYTICAL DATA

Sample	Au	Au(R)	Au(R2)	Au(R3)	As	As
EMPT 1 0-1	<0.01	--	--	--	<50	1
EMPT 1 2-3	<0.01	--	--	--	326	N.A.
EMPT 1 4-5	0.01	--	--	--	173	N.A.
EMPT 1 5-6	0.02	--	--	--	52	N.A.
EMPT 1 6-7	2.18	1.86	1.39	4.03	236	N.A.
EMPT 1 7-8	0.66	0.56	--	--	622	N.A.
EMPT 1 8-9	0.53	0.51	--	--	1355	N.A.
EMPT 1 9-10	0.01	--	--	--	<50	28
EMPT 1 10-11	0.04	<0.01	--	--	<50	33
EMPT 1 11-12	<0.01	--	--	--	64	N.A.
EMPT 1 12-13	<0.01	--	--	--	<50	12
EMPT 1 13-14	0.02	--	--	--	94	N.A.
EMPT 1 14-15	<0.01	0.01	--	--	1420	N.A.
EMPT 1 15-16	0.04	--	--	--	2203	N.A.
EMPT 1 16-17	0.03	--	--	--	510	N.A.
EMPT 1 17-18	0.01	--	--	--	<50	14
EMPT 1 18-19	0.01	--	--	--	61	N.A.
EMPT 1 19-20	0.01	--	--	--	<50	26
EMPT 1 20-21	0.03	--	--	--	<50	15
EMPT 1 21-22	<0.01	--	--	--	<50	44
EMPT 1 22-23	<0.01	--	--	--	<50	31
EMPT 1 23-24	0.01	--	--	--	400	N.A.
EMPT 1 24-25	<0.01	--	--	--	<50	14
EMPT 1 25-26	<0.01	--	--	--	<50	16
EMPT 1 26-27	<0.01	--	--	--	65	N.A.
EMPT 1 27-28	<0.01	--	--	--	<50	14
EMPT 1 28-29	<0.01	--	--	--	57	N.A.
EMPT 1 29-30	<0.01	--	--	--	136	N.A.
EMPT 1 30-31	0.02	--	--	--	111	N.A.
EMPT 1 31-32	0.01	--	--	--	141	N.A.
EMPT 1 32-33	0.17	0.16	--	--	<50	33
EMPT 1 33-34	0.08	--	--	--	126	N.A.
EMPT 1 34-35	0.01	--	--	--	<50	30
EMPT 1 35-36	<0.01	<0.01	--	--	71	N.A.
EMPT 1 36-37	<0.01	--	--	--	271	N.A.
EMPT 1 37-38	<0.01	--	--	--	137	N.A.
EMPT 1 38-39	<0.01	--	--	--	168	N.A.
EMPT 1 39-40	<0.01	--	--	--	480	N.A.
EMPT 1 40-41	0.11	0.09	--	--	339	N.A.
EMPT 1 42-43	<0.01	--	--	--	<50	13
EMPT 1 44-45	0.01	--	--	--	95	N.A.
EMPT 2 1-2	0.36	1.37	2.17	0.68	156	N.A.
EMPT 2 3-4	0.02	<0.01	--	--	229	N.A.
EMPT 2 5-6	0.01	--	--	--	213	N.A.
EMPT 2 6-7	<0.01	--	--	--	<50	37
EMPT 2 8-9	0.02	--	--	--	<50	26
EMPT 2 10-11	0.01	--	--	--	<50	45
EMPT 2 12-13	<0.01	<0.01	--	--	<50	42
EMPT 2 14-15	<0.01	--	--	--	<50	25
EMPT 2 16-17	0.01	--	--	--	50	50
Method	F650	F650	F650	F650	A102	H102
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.01	0.01	0.01	50	1

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received



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## ANALYTICAL DATA

Sample	Au	Au(R)	Au(R2)	Au(R3)	As	As
EMPT 2 18-19	<0.01	--	--	--	<50	41
EMPT 2 20-21	<0.01	--	--	--	<50	31
EMPT 2 22-23	<0.01	--	--	--	170	N.A.
EMPT 2 24-25	<0.01	--	--	--	<50	<1
EMPT 2 26-27	<0.01	--	--	--	<50	27
EMPT 2 28-29	<0.01	--	--	--	<50	34
EMPT 2 30-31	<0.01	--	--	--	<50	32
EMPT 2 32-33	<0.01	--	--	--	<50	10
EMPT 2 34-35	0.01	0.01	--	--	<50	27
EMPT 2 36-37	<0.01	--	--	--	60	N.A.
EMPT 2 38-39	<0.01	--	--	--	210	N.A.
EMPT 2 40-41	<0.01	--	--	--	<50	33
EMPT 2 42-43	<0.01	--	--	--	<50	26
EMPT 2 44-45	<0.01	--	--	--	<50	<1
EMPT 3 0-1	<0.01	--	--	--	<50	9
EMPT 3 2-3	<0.01	--	--	--	<50	21
EMPT 3 4-5	<0.01	--	--	--	57	N.A.
EMPT 3 6-7	<0.01	--	--	--	<50	22
EMPT 3 8-9	<0.01	--	--	--	<50	29
EMPT 3 10-11	<0.01	--	--	--	<50	45
EMPT 3 12-13	<0.01	<0.01	--	--	<50	12
EMPT 3 14-15	<0.01	--	--	--	<50	27
EMPT 3 16-17	<0.01	--	--	--	67	N.A.
EMPT 3 18-19	<0.01	--	--	--	<50	39
EMPT 3 20-21	<0.01	--	--	--	<50	28
EMPT 3 22-23	<0.01	--	--	--	<50	28
EMPT 3 24-25	<0.01	--	--	--	<50	9
EMPT 3 26-27	<0.01	--	--	--	<50	39
EMPT 3 28-29	<0.01	--	--	--	<50	15
Method	F650	F650	F650	F650	A102	H102
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.01	0.01	0.01	50	1

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received