ACACIA RESOURCES LIMITED

ENNIS OPTION
MCN's 3996 and 4031

ANNUAL REPORT
FOR THE YEAR ENDING 20TH FEBRUARY, 1995.

AUTHOR: C Spurway

REPORT NO: 08.7522

DATE: May 1995

COPY NO: Original

DISTRIBUTION

Original : NT Department of Mines & Energy
Copy 1 : Acacia Resources - Melbourne
2 : Acacia Resources - Darwin
3 : Acacia Resources - URGM
4 : Acacia Resources - Field

CONTENTS

LIST OF FIGURES

LIST OF APPENDICES

1.0 INTRODUCTION

Acacia Resources Limited is exploring Mineral Claims (MCN's) 3996 and 4031 under an option agreement with the current title holder R.M. Biddlecombe. This report documents all work carried out in the above tenements in the year ending 20th February 1995. For convenience, work carried out in MCN 4203, entirely incorporated within MCN 3996 and part of the same exploration programme, is included.

2.0 LOCATION AND ACCESS

The tenements, known collectively as the Ennis option, are located approximately 24km NNW of Pine Creek, Northern Territory (Figure 1). MCN 3996 covers 32.44 Ha in a north-south oriented rectangle. MCN 4031 covers 9.31 Ha and lies immediately to the west of MCN 3996. MCN 4203 covers 2.4 Ha in a NNW oriented rectangle and is entirely incorporated within MCN 3996 (Figure 2).

Access is via the Spring Hill road turning east off the Stuart Highway approximately 22km north of Pine Creek. A narrow 4WD track turns south off the Spring Hill Road about 1.7km SW of the intersection of the Spring Hill and Mt Wells Roads.

3.0 REGIONAL SETTING

The Ennis option is located centrally within the Pine Creek Geosyncline (Figure 3). The geosyncline contains Early Proterozoic metasedimentary rocks resting on an Archean basement of gniess and granites. The metasediments represent a preserved basinal sequence up to 14km thick (Needham et all, 1980). These rocks were tightly folded and metamorphosed to greenschist facies (in some places amphibolite) at about 1899 - 1870 Ma (Ferguson, 1980).

The geosynclinal sequence is intruded by transitional igneous rocks, including predeformational dolerite lopoliths and dykes and post deformational granites. Largely undeformed platform cover of Middle and late Proterozoic, Cambro-Ordovician and Mesozoic strata rest on these with marked unconformity.

The Ennis option lies at the northern end of a neck of metasediments which separate two lobes of the Cullen Batholith (Figure 3). This metasedimentary neck, which is dominated by the turbiditic Burrell Creek Formation, plays host to both the Pine Creek and Union Reefs ore bodies as well as numerous areas of historic workings, including Spring Hill (Au), Flora Belle (Ag, Pb), McKinlay (Ag, Pb), Esmeralda (Au) and Elizabeth (Au).

4.0 TENEMENT GEOLOGY

The area is dominated by turbidite shales and greywackes of the Lower Proterozoic Burrell Creek Formation, lying on the eastern limb of a large southerly plunging anticline. The majority of bedding strikes NNW and appears to dip steeply to the east. Over much of the area bedrock is obscured by 1-2 metres of alluvial and eluvial cover.

Mineralisation occurs as narrow, roughly bedding parallel quartz vein systems, with a visually significant weathered sulphide component. A number of these systems have been worked in the past, most recently in 1992 when two exploration shafts were sunk by Kevin Ennis.

5.0 WORK COMPLETED

5.1 Mapping

A detailed mapping program was completed during 1994, covering MCN's 3996 and 4031 (Figure 4). The mapping reveals that:

- The source of the linear Au in soil anomaly, (as reported in report number 08.6669, Figure 5) is an approximate grid north-south quartz vein system consisting of several sets of veins, each with several metres of outcrop. The area exhibits the morphology of a shear system and is similar to that seen at Union Reefs, although evidence of actual shearing was not present.

- There are two dominant vein directions

  - those roughly parallel to bedding and subvertical,
  - grid NNE to NE striking and steeply easterly dipping.

- The McKinlay (Pb, Ag) workings and the southern most of Ennis's shafts are located within greywacke units in a south plunging anticlinal hinge zone. The fold axis strikes at approximately 330deg (magnetic) and is subvertical to steeply west dipping. The eastern vein system appears to lie in the west dipping limb of a second anticline and vein orientations suggest it is steeply east dipping.

- The northern most of Ennis's shafts appears to be located close to a synclinal closure. This set of shafts includes one vertical and 2 inclined at approximately 45° to the south. The larger of the inclined shafts intersects the vertical shaft and has been used for ventilation. The stoped out volume is not known. The workings are centred on a 1-2m wide quartz sulfide lode with limited surface exposure. It appears to be a narrow shoot, plunging toward grid south at about 45°. This plunge corresponding with the intersection of bedding and cleavage and the two dominant vein orientations in the area. These southerly plunging shoots may represent narrow fold hinge dilatational zones.

5.2 Costeaning

Costeaning (200m total) was completed over known anomalous Au in soil values as defined from the 1993 work (Figure 5) and reported on previously. The best gold values were found to correspond with a quartz vein set outcropping further to the north of the costeans and continuing to strike along at depth below the soil cover.

Costean assay results are presented in Appendix 1 and the geology is plotted in Figure 6.

5.3 Drilling

Reverse circulation drill testing was undertaken in September of 1994 across the limited gold mineralisation indicated by the 1993 soil sampling (Figure 7). Five shallow RC percussion drill holes (300m total) intersected a narrow zone of low grade Au bearing, quartz vein hosted mineralization.

Drillhole Geology and assays are plotted in Figures 8 - 13. Drillhole logs are also presented in Appendix 2, with assays in Appendix 3

The best results are tabled below:

ENP 016	1m @ 0.61 from 9m
ENP 017	1m @ 0.70 from 50m
ENP 019	2m @ 0.37 from 27m
ENP 020	4m @ 0.31 from 47m

6.0 ENVIRONMENTAL

Application for substantial disturbance was lodged for the proposed costeaning and drilling programs on the 25th July and 17th August 1994 respectively.

Costeans were backfilled with excavated soil and rock and allowed to revegetate naturally.

All reverse circulation percussion holes were capped on completion and an effort made to ensure long-term stabilisation of soil adjacent to the drill hole collars. Drill pads were allowed to revegetate naturally.

7.0 EXPENDITURE

7.1 Expenditure Year Ending 20 February, 1995

	$
Project Management/Staffing	9,973
Tenement	5,940
Geology	3,050
Assays/Geochemistry	1,393
Survey/Access	2,055
Drilling	9,465
Administration	3,188
Total	$35,064

7.2 Proposed Program Year Ending 20 February, 1996

- Extension of existing soil sampling grid 200m to the north and sampling (17 soil samples).
- Geological mapping of northern grid extension.
- Approximately 100m of costeaning over mineralised quartz veining defined from previous mapping and costeaning.
- RC Drilling dependent on soil and mapping results on northern grid extension.
- Additional drilling of the quartz vein zone intersected in the southern Ennis shafts

7.3 Proposed Expenditure Year Ending 20 February, 1996

	$
Staffing	8,000
Vehicles	960
Drilling	2,500
Assays	
Soils	1,120
Drilling	1,000
	13,580

8.0 REFERENCES

FERGUSON J, 1980. Metamorphism in the Pine Creek Geosyncline and its bearing on stratigraphic correlations. In FERGUSON J, & GOLBY AB, (Editors) - URANIUM IN THE PINE CREEK GEOSYNCLINE.

International Atomic Energy Agency, Vienna, 91-100.

NEEDHAM RS, CRICK IH, & STUART-SMITH PG, 1980. Regional geology of the Pine Creek Geosyncline. In FERGUSON J, & GOLEBY AB, (Editors) - URANIUM IN THE PINE CREEK GEOSYNCLINE.

International Atomic Energy Agency, Vienna, 1-22.

GILES, D., 1994. Annual Report for the Ennis Option MCN's 3996 & 4031, for the Year Ending 20th February 1994 by Union Reefs Gold Mine Ltd. Unpublished report for NTDME 08.6669.

APPENDIX 1

Costean Assays

UR11 | UR07 (4) Costeans Ennis / Elizabeth

ASSAYCORP PTY LTD

A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16295

Union Reefs Gold Mine

Distribution

Client Reference:
Project :
Cost Code:

Date Received: 02/09/1994
Number of Samples: 96

Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA50	Acc. ± 15%	0.01	ppm
Au(R)	FA50	Acc. ± 15%	0.01	ppm

Authorisation: Ray Wooldridge
Report Dated: 10/09/1994

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16295

Sample	Au (ppm)	Au(R) (ppm)
0190213	<0.01	
0190214	0.01	<0.01
0190215	<0.01	
0190216	<0.01	
0190217	0.07	0.06
0190218	<0.01	
0190219	<0.01	
0190220	<0.01	<0.01
0190221	<0.01	
0190222	<0.01	
0190223	<0.01	
0190224	<0.01	
0190225	<0.01	<0.01

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16295

Sample	Au (ppm)	Au(R) (ppm)
0190226	<0.01	
0190227	<0.01	
0190228	<0.01	
0190229	<0.01	
0190230	<0.01	<0.01
0190231	<0.01	
0190232	<0.01	
0190233	<0.01	
0190234	<0.01	
0190235	<0.01	
0190236	<0.01	
0190237	<0.01	<0.01
0190238	<0.01	
0190239	0.08	0.05
0190240	<0.01	<0.01
0190241	0.01	
0190242	0.01	
0190243	<0.01	
0190244	<0.01	
0190245	<0.01	
0190246	<0.01	

APPENDIX 2

Drillhole Logs

Prospect	Hole Name	From	To	Sample No.	Summary	Colour	Texture	Gw%	Sh%	Qz%	Wthring	Return	Water	Sulphide	Pyrite	Arsenopyrite	Galena	Limonite	Carbonate	Other Min	O Min%	Alteration	Comments
ENNIS	ENP020	0	1	4020001	Gw	GnBn	Md	98	2		W	L	D										
ENNIS	ENP020	1	2	4020002	GwQz	GnBn	Md	70		30	W	G	D	0.1				100					
ENNIS	ENP020	2	3	4020003	Gw	GnBn	Md	90	10		W	G	D										
ENNIS	ENP020	3	4	4020004	Gw	GnBn	MdCs	100			W	G	D										
ENNIS	ENP020	4	5	4020005	Gw	GnBn	Cs	100			W	G	D	0.2				100					
ENNIS	ENP020	5	6	4020006	Gw	GnBn	Cs	100			W	G	D	0.1				100					
ENNIS	ENP020	6	7	4020007	Gw	GnBn	MdCs	100			W	G	D	0.1				100					
ENNIS	ENP020	7	8	4020008	Gw	GnBn	MdCs	100			W	G	D										
ENNIS	ENP020	8	9	4020009	Gw	GnBn	MdCs	100			W	G	D	0.1				100					
ENNIS	ENP020	9	10	4020010	Gw	PlGnBn	Md	79	20	1	T	G	D	0.3	10			90				Se	
ENNIS	ENP020	10	11	4020011	Gw	GnBn	MdCs	93		7	W	G	D	0.2				100				Se	
ENNIS	ENP020	11	12	4020012	Gw	GnBn	Cs	100			W	G	D	0.1				100					
ENNIS	ENP020	12	13	4020013	Gw	GnBn	Cs	100			W	G	D										
ENNIS	ENP020	13	14	4020014	Gw	BlBn	Cs	100			W	G	D										
ENNIS	ENP020	14	15	4020015	Gw	PlBlBn	Cs	100			W	G	D										
ENNIS	ENP020	15	16	4020016	Gw	PlBlGr	Cs	100			T	G	D										
ENNIS	ENP020	16	17	4020017	Gw	PlBlGr	Cs	100			T	G	D										
ENNIS	ENP020	17	18	4020018	Sh	PlBlGr	Fn	10	90		T	G	D										
ENNIS	ENP020	18	19	4020019	Gw	Gr	Md	100			F	G	D										
ENNIS	ENP020	19	20	4020020	Gw	BlGr	Md	100			F	G	D										
ENNIS	ENP020	20	21	4020021	Gw	BlGr	Cs	99		1	F	G	D										
ENNIS	ENP020	21	22	4020022	Gw	BlGr	Cs	97	3		F	G	D										
ENNIS	ENP020	22	23	4020023	Sh	GnGr	Md	15	85		F	G	D										
ENNIS	ENP020	23	24	4020024	ShGw	GnGr	FnMd	40	60		F	G	D										
ENNIS	ENP020	24	25	4020025	GwSh	GnGr	FnMd	70	30		F	G	D										
ENNIS	ENP020	25	26	4020026	Gw	GnGr	Md	90	10		F	G	D										
ENNIS	ENP020	26	27	4020027	Sh	GnGr	Md	25	75		F	G	D										
ENNIS	ENP020	27	28	4020028	Gw	GnGr	MdCs	100			F	G	D										
ENNIS	ENP020	28	29	4020029	Gw	GnGr	MdCs	100			F	G	M										
ENNIS	ENP020	29	30	4020030	Gw	Gr	Cs	100			F	G	D										
ENNIS	ENP020	30	31	4020031	Gw	GnGr	Cs	100			F	G	D										
ENNIS	ENP020	31	32	4020032	Gw	GnGr	Cs	98		2	F	G	M										
ENNIS	ENP020	32	33	4020033	Gw	GnGr	Cs	100		0.5	F	G	D										
ENNIS	ENP020	33	34	4020034	Gw	GnGr	MdCs	100		0.5	F	G	M										
ENNIS	ENP020	34	35	4020035	Gw	GnGr	Cs	99		1	F	G	W										
ENNIS	ENP020	35	36	4020036	Gw	GnGr	Cs	100			F	G	D										
ENNIS	ENP020	36	37	4020037	GwQz	GnGr	Cs	60		40	F	G	D										
ENNIS	ENP020	37	38	4020038	Gw	GnGr	MdCs	100		0.5	F	G	D										
ENNIS	ENP020	38	39	4020039	Gw	GnGr	MdCs	100			F	G	D										
ENNIS	ENP020	39	40	4020040	Gw	GnGr	Md	100		0.5	F	G	M										
ENNIS	ENP020	40	41	4020041	GwSh	GnGr	FnMd	70	30		F	L	W										
ENNIS	ENP020	41	42	4020042	Gw	DkGnGr	MdCs	100		0.5	F	G	W	0.1	100								
ENNIS	ENP020	42	43	4020043	Gw	DkGnGr	Md	98		2	F	G	W										
ENNIS	ENP020	43	44	4020044	GwSh	DkGnGr	Fn	60	40	0.5	F	G	W	0.1		100							
ENNIS	ENP020	44	45	4020045	Gw	DkGnGr	FnMd	90	10		F	G	W										
ENNIS	ENP020	45	46	4020046	GwQz	DkGnGr	MdCs	50		50	F	G	W	0.1	100								
ENNIS	ENP020	46	47	4020047	Gw	DkGnGr	Md	97		3	F	G	W	0.1	50	50							
ENNIS	ENP020	47	48	4020048	Gw	GnGr	Md	80		20	F	G	W	0.1	100								
ENNIS	ENP020	48	49	4020049	GwQz	GnGr	Md	60	5	35	F	G	W	0.3	20	80							
ENNIS	ENP020	49	50	4020050	ShQz	GnGr	Fn	10	60	30	F	G	W	0.2	90	10							
ENNIS	ENP020	50	51	4020051	ShQz	GnGr	Fn		60	40	F	G	W	0.2	100								
ENNIS	ENP020	51	52	4020052	GwSh	GnGr	Fn	50	48	2	F	G	W										
ENNIS	ENP020	52	53	4020053	GwSh	GnGr	Fn	55	40	5	F	G	W										
ENNIS	ENP020	53	54	4020054	Gw	DkGnGr	FnMd	79	20	1	F	G	W										
ENNIS	ENP020	54	55	4020055	Sh	DkGnGr	Fn	5	75	20	F	G	W										
ENNIS	ENP020	55	56	4020056	Sh	DkGnGr	Fn		98	2	F	P	W										SPOTTY SHALE

Prospect	Hole Name	From	To	Sample No.	Summary	Colour	Texture	Gw%	Sh%	Qz%	Wthring	Return	Water	Sulphide	Pyrite	Arsenopyrite	Galena	Limonite	Carbonate	Other Min	O_Min%	Alteration	Comments
ENNIS	ENP019	0	1	4019001	GwSh	PlGnBn	Fn	50	50		W	P	D										
ENNIS	ENP019	1	2	4019002	GwSh	PlGnBn	FnMd	50	50		W	G	D										
ENNIS	ENP019	2	3	4019003	Gw	PlGnBn	Md	80	20		W	G	D										
ENNIS	ENP019	3	4	4019004	GwSh	PlGnBn	Md	70	30		W	G	D										
ENNIS	ENP019	4	5	4019005	Gw	Bn	Md	98	2		W	G	D										
ENNIS	ENP019	5	6	4019006	Sh	Bn	Fn		100		W	G	D										
ENNIS	ENP019	6	7	4019007	Sh	Bn	Fn	25	75		W	G	D										
ENNIS	ENP019	7	8	4019008	Sh	Bn	Fn	7	90	3	W	G	D	0.1				100					
ENNIS	ENP019	8	9	4019009	Gw	Bn	Md	75	25		W	G	D	0.1				100					
ENNIS	ENP019	9	10	4019010	Gw	Bn	Md	80	20		W	G	D										
ENNIS	ENP019	10	11	4019011	Sh	Bn	Fn	5	95		W	G	D										
ENNIS	ENP019	11	12	4019012	Gw	GnBn	Md	90	10	0.5	W	G	D										
ENNIS	ENP019	12	13	4019013	Sh	GnBn	Md	5	95		W	G	D										
ENNIS	ENP019	13	14	4019014	Gw	BlBn	MdCs	98	2		W	G	D										
ENNIS	ENP019	14	15	4019015	Gw	GnBn	Md	95	2	3	W	G	D	0.1				100					
ENNIS	ENP019	15	16	4019016	Gw	BlBn	Md	100			W	G	D										
ENNIS	ENP019	16	17	4019017	Gw	BlBn	Md	100			T	G	D										
ENNIS	ENP019	17	18	4019018	Gw	BlBn	MdCs	100			T	G	D										
ENNIS	ENP019	18	19	4019019	Gw	BlBn	Md	100			T	G	D										
ENNIS	ENP019	19	20	4019020	Gw	Bl	Md	90	10		T	G	D										
ENNIS	ENP019	20	21	4019021	Gw	BlGr	Cs	100			T	G	D										
ENNIS	ENP019	21	22	4019022	Gw	PlGr	Cs	95		5	F	G	D	0.1		100				Trm	1	Se	BLACK, BLOCKY VEIN MIN. TOUR
ENNIS	ENP019	22	23	4019023	Gw	PlGr	Md	97		3	F	G	D									Se	
ENNIS	ENP019	23	24	4019024	Gw	PlGr	Md	90		10	F	G	D									Se	
ENNIS	ENP019	24	25	4019025	Gw	PlGr	Cs	98		2	F	G	D	0.1	100							Se	
ENNIS	ENP019	25	26	4019026	Gw	Gr	Md	95	5		F	G	D										
ENNIS	ENP019	26	27	4019027	Gw	Gr	FnMd	90	10		F	G	D										
ENNIS	ENP019	27	28	4019028	Sh	GnGr	Fn	19	80	1	F	G	D	0.2	100								SPOTTED SHALE, Chlorite after Cord
ENNIS	ENP019	28	29	4019029	Sh	GnGr	Fn	5	90	5	F	G	D	0.3	30	70							SPOTTED SHALE, Chlorite after Cord
ENNIS	ENP019	29	30	4019030	Sh	GnGr	Fn	5	95	0.2	F	G	D	0.2		100							SPOTTED SHALE, Chlorite after Cord
ENNIS	ENP019	30	31	4019031	Sh	GnGr	Fn		100		F	G	D										SPOTTED SHALE, Chlorite after Cord
ENNIS	ENP019	31	32	4019032	ShQz	GnGr	Fn		70	30	F	G	D	0.1	100					Trm	3		SPOTTED SHALE, Chlorite after Cord
ENNIS	ENP019	32	33	4019033	GwSh	DkGnGr	Md	70	30		F	G	D										
ENNIS	ENP019	33	34	4019034	Sh	GnGr	Fn	5	95	0.2	F	G	D										
ENNIS	ENP019	34	35	4019035	Sh	GnGr	Fn	1	99		F	G	D										
ENNIS	ENP019	35	36	4019036	Sh	GnGr	Fn	10	90		F	G	D										
ENNIS	ENP019	36	37	4019037	Sh	Gr	Fn	5	95		F	G	D										
ENNIS	ENP019	37	38	4019038	Sh	Gr	Fn		100		F	G	M	0.7	95	5				Trm	2		Su in narrow BkGn veins, Trm?
ENNIS	ENP019	38	39	4019039	Sh	Gr	Fn		100		F	G	M										
ENNIS	ENP019	39	40	4019040	Sh	Gr	Fn		100		F	G	M										
ENNIS	ENP019	40	41	4019041	Sh	Gr	Fn	10	90		F	G	W										
ENNIS	ENP019	41	42	4019042	Sh	Gr	Fn	10	87	3	F	G	W										Pink Qz
ENNIS	ENP019	42	43	4019043	ShGw	Gr	Fn	50	50		F	G	M										
ENNIS	ENP019	43	44	4019044	Sh	Gr	Fn	5	95		F	G	M										
ENNIS	ENP019	44	45	4019045	Gw	Gr	FnMd	85	15		F	G	M	0.4	100								
ENNIS	ENP019	45	45	4019046	Sh	Gr	Fn	10	90		F	G	M	0.1	100								
ENNIS	ENP019	46	47	4019047	Sh	GnGr	Fn		99	1	F	G	W	0.1	100								Pink Qz
ENNIS	ENP019	47	48	4019048	ShGw	GnGr	Fn	50	50		F	G	W										
ENNIS	ENP019	48	49	4019049	Sh	Gr	Fn		98	2	F	G	W										
ENNIS	ENP019	49	50	4019050	Sh	GnGr	Fn		100		F	G	W										
ENNIS	ENP019	50	51	4019051	Sh	GnGr	Fn	2	98		F	G	W										
ENNIS	ENP019	51	52	4019052	Sh	GnGr	Fn		100		F	G	W										
ENNIS	ENP019	52	53	4019053	GwSh	GnGr	Fn	60	40		F	G	W										
ENNIS	ENP019	53	54	4019054	Sh	GnGr	Fn		100		F	G	W										
ENNIS	ENP019	54	55	4019055	Sh	Gr	Fn		100		F	G	W										
ENNIS	ENP019	55	56	4019056	Sh	Gr	Fn	5	95	0.1	F	G	W										
ENNIS	ENP019	56	57	4019057	ShGw	GnGr	Fn	30	70		F	G	W										
ENNIS	ENP019	57	58	4019058	Sh	Gr	Fn		100		F	G	W										

Prospect	Hole Name	From	To	Sample No.	Summary	Colour	Texture	Gw%	Sh%	Qz%	Wthring	Return	Water	Sulphide	Pyrite	Arsenopyrite	Galena	Limonite	Carbonate	Other Min	O Min%	Alteration	Comments
ENNIS	ENP018	0	1	4018001	ShGw	Bn	Md	50	49	1	W	P	D										V.SMALL SAMPLE, FEW CHIPS
ENNIS	ENP018	1	2	4018002	GwQz	RdBn	Md	60	10	30	W	G	D	0.1				100					ALUVIAL COVER
ENNIS	ENP018	2	3	4018003	Gw	RdBn	Md	87	10	3	W	G	D										ALUVIAL COVER
ENNIS	ENP018	3	4	4018004	ShGw	OnKk	Fn	30	69	1	W	G	D										BEDROCK
ENNIS	ENP018	4	5	4018005	Gw	Kk	Md	90	10		W	G	D										
ENNIS	ENP018	5	6	4018006	Sh	PlGnBn	Fn		100		W	G	D										
ENNIS	ENP018	6	7	4018007	Sh	PlGnBn	Fn		100		W	G	D										
ENNIS	ENP018	7	8	4018008	ShGw	OnBn	Fn	40	58	2	W	G	D	0.3				100					
ENNIS	ENP018	8	9	4018009	Sh	OnBn	Fn		75	25	W	G	D	0.2				100					
ENNIS	ENP018	9	10	4018010	Gw	GnBn	Md	95	5		W	G	D										
ENNIS	ENP018	10	11	4018011	Gw	BlBn	Cs	100			W	G	D										
ENNIS	ENP018	11	12	4018012	Gw	BnBl	Cs	100			W	G	D	0.1				100					
ENNIS	ENP018	12	13	4018013	Gw	BlBn	Cs	100			T	G	D										
ENNIS	ENP018	13	14	4018014	Gw	BlBn	Cs	100			T	G	D										
ENNIS	ENP018	14	15	4018015	Gw	BlBn	Md	100			T	G	D										
ENNIS	ENP018	15	16	4018016	Gw	BlGr	MdCs	80	20		T	G	D										
ENNIS	ENP018	16	17	4018017	GwSh	BlBn	Fn	50	50		T	G	D	0.5	90			10					
ENNIS	ENP018	17	18	4018018	Gw	Gr	Cs	100			T	G	D										
ENNIS	ENP018	18	19	4018019	Gw	GrBn	MdCs	100			T	G	D										
ENNIS	ENP018	19	20	4018020	Gw	Gr	Cs	100			F	G	D										
ENNIS	ENP018	20	21	4018021	Gw	Gr	MdCs	100			F	G	D										
ENNIS	ENP018	21	22	4018022	Gw	GnGr	MdCs	85	15		F	G	D										
ENNIS	ENP018	22	23	4018023	Gw	Gr	MdCs	100			T	G	D										
ENNIS	ENP018	23	24	4018024	Gw	Gr	Cs	100			T	G	D										
ENNIS	ENP018	24	25	4018025	Gw	DkGnGr	MdCs	100			T	G	D										
ENNIS	ENP018	25	26	4018026	Gw	DkGnGr	FnMd	84	15	1	F	G	D	0.1	100								
ENNIS	ENP018	26	27	4018027	Gw	DkGnGr	Md	85	15		F	G	D										
ENNIS	ENP018	27	28	4018028	GwSh	DkGnGr	Md	50	50		F	G	D										
ENNIS	ENP018	28	29	4018029	Sh	DkGnGr	Fn	10	90		F	G	D										
ENNIS	ENP018	29	30	4018030	ShGw	DkGnGr	Md	50	50		F	G	D										
ENNIS	ENP018	30	31	4018031	Sh	DkGnGr	Fn	10	90		F	G	D	0.1	100								
ENNIS	ENP018	31	32	4018032	Sh	PlGnGr	Fn		100		F	G	M										
ENNIS	ENP018	32	33	4018033	ShGw	GnGr	Fn	50	50		F	G	M										
ENNIS	ENP018	33	34	4018034	Gw	Gr	FnMd	80	20		F	G	M										
ENNIS	ENP018	34	35	4018035	Gw	Gn	MdCs	85	10	5	F	G	M										
ENNIS	ENP018	35	36	4018036	Gw	GnGr	Md	90	10		F	G	M										
ENNIS	ENP018	36	37	4018037	Gw	Gr	Md	100		0.2	F	G	M										
ENNIS	ENP018	37	38	4018038	Gw	Gr	FnMd	100			F	G	M										
ENNIS	ENP018	38	39	4018039	Gw	GnGr	Md	85	10	5	F	G	W										
ENNIS	ENP018	39	40	4018040	GwSh	GnGr	Fn	50	49	1	F	G	W										
ENNIS	ENP018	40	41	4018041	Sh	GnGr	Fn	30	69	1	F	G	W										20% RdBn Sh CONTAM ?
ENNIS	ENP018	41	42	4018042	Gw	GnGr	Md	98	2	0.5	F	G	W										1% CONTAM ?
ENNIS	ENP018	42	43	4018043	Gw	GnGr	FnMd	98	2	0.5	F	G	W										
ENNIS	ENP018	43	44	4018044	Gw	GnGr	FnMd	100			F	G	W										
ENNIS	ENP018	44	45	4018045	Sh	GnGr	Fn	20	80		F	G	W										
ENNIS	ENP018	45	46	4018046	Sh	GnGr	Fn		100		F	G	W										
ENNIS	ENP018	46	47	4018047	Gw	GnGr	Md	100			F	G	W										
ENNIS	ENP018	47	48	4018048	Gw	Gr	Cs	100			F	G	W										3% CONTAM ?
ENNIS	ENP018	48	49	4018049	Gw	Gr	MdCs	100			F	G	W										
ENNIS	ENP018	49	50	4018050	Gw	Gr	MdCs	90	10		F	G	W										
ENNIS	ENP018	50	51	4018051	Gw	Gr	Md	50	50		F	G	W										
ENNIS	ENP018	51	52	4018052	Gw	Gr	Md	80	20		F	G	W										
ENNIS	ENP018	52	53	4018053	Gw	Gr	Md	100			F	G	W										
ENNIS	ENP018	53	54	4018054	Gw	GnGr	FnMd	100			F	G	W										
ENNIS	ENP018	54	55	4018055	Gw	GnGr	Md	100			F	G	W										
ENNIS	ENP018	55	56	4018056	Gw	GnGr	FnMd	95		5	F	G	W	0.1	100								
ENNIS	ENP018	56	57	4018057	Gw	GnGr	FnMd	95	5		F	G	W										
ENNIS	ENP018	57	58	4018058	Gw	GnGr	FnMd	95	5		F	G	W										

Prospect	Hole Name	From	To	Sample No.	Summary	Colour	Texture	Gw%	Sh%	Qz%	Wthring	Return	Water	Sulphide	Pyrite	Arsenopyrite	Galena	Limonite	Carbonate	Other Min	O_Min%	Alteration	Comments
ENNIS	ENP017	0	1	4017001	Gw	YeBn	Md	85	5	10	W	P	D	0.1				100					ALLUVIAL COVER
ENNIS	ENP017	1	2	4017002	Gw	YeBn	Md	85	10	5	W	G	D	0.1				100					ALLUVIAL COVER
ENNIS	ENP017	2	3	4017003	Gw	GnBn	Fn	90	10		W	G	D										
ENNIS	ENP017	3	4	4017004	GwSh	GnBn	Fn	50	50		W	G	D										
ENNIS	ENP017	4	5	4017005	Sh	Kk	Fn	20	80		W	G	D										
ENNIS	ENP017	5	6	4017006	Gw	Kk	Fn	80	20		W	G	D										WHITE CLAY AFTER Gw ?
ENNIS	ENP017	6	7	4017007	Sh	PlGnBn	Fn	10	90		W	G	D										
ENNIS	ENP017	7	8	4017008	Sh	GnBn	Fn		100		W	G	D										
ENNIS	ENP017	8	9	4017009	Sh	Bn	Fn	5	95		W	G	D										
ENNIS	ENP017	9	10	4017010	Sh	GnBn	Fn		100		W	G	D										
ENNIS	ENP017	10	11	4017011	Sh	PlGrBn	Fn	10	90		W	G	D										
ENNIS	ENP017	11	12	4017012	ShGw	BnGr	FnMd	50	50		W	G	D										
ENNIS	ENP017	12	13	4017013	ShGw	Bn	Fn	30	70		W	G	D										
ENNIS	ENP017	13	14	4017014	GwSh	YeBn	Md	70	30		W	G	D										
ENNIS	ENP017	14	15	4017015	Sh	GnBn	Fn	20	80		W	G	D										
ENNIS	ENP017	15	16	4017016	ShGw	PlGnBn	Fn	30	70		W	G	D										
ENNIS	ENP017	16	17	4017017	ShGw	GnBn	Fn	30	70		W	G	D										
ENNIS	ENP017	17	18	4017018	Gw	BlBn	Fn	90	10		W	G	D										
ENNIS	ENP017	18	19	4017019	Sh	PlGr	Fn	10	90		T	G	D										
ENNIS	ENP017	19	20	4017020	Sh	PlGnGr	Fn		100		T	G	D										
ENNIS	ENP017	20	21	4017021	Sh	PlGnGr	Fn	10	90		T	G	D										
ENNIS	ENP017	21	22	4017022	Sh	PlGr	Fn	10	90		T	G	D										
ENNIS	ENP017	22	23	4017023	Sh	PlGr	Fn		100		T	G	D										
ENNIS	ENP017	23	24	4017024	Sh	GnGr	Fn	5	95		T	G	D										
ENNIS	ENP017	24	25	4017025	Sh	Gr	Fn		100		T	G	D										
ENNIS	ENP017	25	26	4017026	Sh	BlGr	Fn		100		T	G	D										
ENNIS	ENP017	26	27	4017027	Sh	BlGr	Fn		100		T	G	D										
ENNIS	ENP017	27	28	4017028	Sh	BlGr	Fn	10	90		T	G	D										
ENNIS	ENP017	28	29	4017029	Sh	BlGr	Fn	20	80		T	G	W										
ENNIS	ENP017	29	30	4017030	Gw	GnGr	Fn	85	15		T	G	D										
ENNIS	ENP017	30	31	4017031	Gw	Gr	Md	100			T	G	D										
ENNIS	ENP017	31	32	4017032	GwSh	GnGr	Fn	50	50		T	G	D										
ENNIS	ENP017	32	33	4017033	Gw	GnGr	Fn	100			T	G	D										
ENNIS	ENP017	33	34	4017034	Gw	GnGr	Fn	90	10		T	G	D										
ENNIS	ENP017	34	35	4017035	Gw	GnGr	Md	100			T	G	W										
ENNIS	ENP017	35	36	4017036	ShGw	GnGr	Fn	40	60		T	G	W										
ENNIS	ENP017	36	37	4017037	Gw	GnGr	Md	90	10		F	G	W	0.1	100								
ENNIS	ENP017	37	38	4017038	Sh	GnGr	Fn	5	95		F	G	W										20% RdBn Sh CONTAM ?
ENNIS	ENP017	38	39	4017039	Sh	GnGr	Fn	15	85		F	G	W										1% RdBn Sh CONTAM ?
ENNIS	ENP017	39	40	4017040	Sh	GnGr	Fn	10	90		F	G	W										
ENNIS	ENP017	40	41	4017041	Sh	DkGnGr	Fn	5	95		F	L	W										5% CONATAM
ENNIS	ENP017	41	42	4017042	Sh	DkGnGr	Fn		100		F	L	W										
ENNIS	ENP017	42	43	4017043	Sh	DkGnGr	Fn		100		F	L	W										
ENNIS	ENP017	43	44	4017044	Sh	DkGnGr	Fn	2	98		F	L	W										
ENNIS	ENP017	44	45	4017045	Sh	DkGnGr	Fn	5	95		F	L	W										
ENNIS	ENP017	45	46	4017046	Sh	DkGnGr	Fn		100		F	L	W										
ENNIS	ENP017	46	47	4017047	Sh	DkGnGr	Fn	5	95		F	L	W										2% CONTAM
ENNIS	ENP017	47	48	4017048	Sh	DkGnGr	Fn		100		F	L	W										1% CONTAM
ENNIS	ENP017	48	49	4017049	Sh	DkGnGr	Fn	5	95		F	L	W										
ENNIS	ENP017	49	50	4017050	Sh	DkGnGr	Fn	10	90		F	L	W										
ENNIS	ENP017	50	51	4017051	Sh	DkGnGr	Fn		95	5	F	L	W										
ENNIS	ENP017	51	52	4017052	Sh	DkGnGr	Fn	5	90	5	F	L	W	0.1	100								
ENNIS	ENP017	52	53	4017053	Sh	DkGnGr	Fn		99	1	F	L	W										
ENNIS	ENP017	53	54	4017054	Sh	DkGnGr	Fn	5	95		F	L	W										
ENNIS	ENP017	54	55	4017055	Sh	DkGnGr	Fn		100		F	L	W										
ENNIS	ENP017	55	56	4017056	Sh	DkGnGr	Fn		99	1	F	L	W										
ENNIS	ENP017	56	57	4017057	Sh	DkGnGr	Fn	2	98	0.5	F	L	W										
ENNIS	ENP017	57	58	4017058	Sh	DkGnGr	Fn	5	95		F	L	W										

Prospect	Hole Name	From	To	Sample No.	Summary	Colour	Texture	Gw%	Sh%	Qz%	Wthring	Return	Water	Sulphide	Pyrite	Arsenopyrite	Galena	Limonite	Carbonate	Other Min	O Min%	Alteration	Comments
ENNIS	ENP016	0	1	4016001	Gw	Bn	Md	75	25		W	G	D										ALLUVIAL COVER
ENNIS	ENP016	1	2	4016002	Gw	PlBn	Md	99		1	W	G	D	0.2				100					ALLUVIAL COVER
ENNIS	ENP016	2	3	4016003	Gw	PlBn	Md	88		10	W	G	D	2				100					FEW CHIPS, LOTS CLAY
ENNIS	ENP016	3	4	4016004	Gw	PlBn	Cs	90		10	W	G	D	0.5				100					FEW CHIPS, LOTS CLAY
ENNIS	ENP016	4	5	4016005	Gw	Kk	Md	100			W	G	D										FEW CHIPS, LOTS CLAY
ENNIS	ENP016	5	6	4016006	Gw	Kk	Md	100			W	G	D										NO CHIPS, CLAY RICH SOIL
ENNIS	ENP016	6	7	4016007	Gw	Kk	Md	100			W	G	D										NO CHIPS, CLAY RICH SOIL
ENNIS	ENP016	7	8	4016008	Gw	Kk	Md	100			W	G	D										FEW CHIPS
ENNIS	ENP016	8	9	4016009	Gw	Kk	Md	100			W	G	D										NO CHIPS
ENNIS	ENP016	9	10	4016010	GwQz	Kk	Md	50		50	W	G	D	0.2				100					Qz OVEREST ?, LARGE CLAY %
ENNIS	ENP016	10	11	4016011	GwQz	Kk	Md	55		45	W	G	D										Qz OVEREST ?, LARGE CLAY %
ENNIS	ENP016	11	12	4016012	Gw	GnBn	Cs	100			W	G	D										
ENNIS	ENP016	12	13	4016013	Gw	GnBn	Md	100			W	G	D										
ENNIS	ENP016	13	14	4016014	Gw	GnBn	FnMd	95	5		W	G	D										
ENNIS	ENP016	14	15	4016015	Gw	GnKk	Md	100			W	G	D										
ENNIS	ENP016	15	16	4016016	Gw	GnBn	MdCs	90		10	W	G	D	0.1				100					
ENNIS	ENP016	16	17	4016017	Gw	BlBn	Cs	98		2	T	G	W	0.1				100					
ENNIS	ENP016	17	18	4016018	Gw	BlBn	Cs	100			T	G	D										
ENNIS	ENP016	18	19	4016019	Gw	BlGr	Cs	100			T	G	D										
ENNIS	ENP016	19	20	4016020	Gw	BlGr	MdCs	100			T	G	D										
ENNIS	ENP016	20	21	4016021	Gw	BlGr	FnMd	92	5	3	F	G	D	0.1	100								
ENNIS	ENP016	21	22	4016022	Gw	PlGr	MdCs	100			F	G	D	0.1	100								
ENNIS	ENP016	22	23	4016023	Gw	PlBlGr	Cs	100			F	G	D										
ENNIS	ENP016	23	24	4016024	Gw	PlBlGr	Cs	90	10		F	G	D										
ENNIS	ENP016	24	25	4016025	Gw	PlBlGr	Cs	99		1	F	G	D										
ENNIS	ENP016	25	26	4016026	Gw	PlBlGr	V.Cs	95	5		F	G	D										
ENNIS	ENP016	26	27	4016027	Gw	GnGr	V.Cs	100			F	G	D										
ENNIS	ENP016	27	28	4016028	Gw	GnGr	V.Cs	100			F	G	D										
ENNIS	ENP016	28	29	4016029	Gw	GnGr	Cs	100			F	G	D										
ENNIS	ENP016	29	30	4016030	Gw	GnGr	V.Cs	100			F	G	D										
ENNIS	ENP016	30	31	4016031	Gw	GnGr	Cs	100			F	L	D										
ENNIS	ENP016	31	32	4016032	Gw	GnGr	V.Cs	99		1	F	G	D										
ENNIS	ENP016	32	33	4016033	Gw	GnGr	Cs	100			F	G	W	0.1	100								
ENNIS	ENP016	33	34	4016034	Gw	GnGr	Cs	99		1	F	G	W										4% CONTAM.
ENNIS	ENP016	34	35	4016035	Gw	GnGr	Cs	100			F	G	W										20% Bn Sh CONTAM ?
ENNIS	ENP016	35	36	4016036	GwQz	Gn	Cs	60		40	F	G	W										4% Bn Sh CONTAM ?
ENNIS	ENP016	36	37	4016037	Gw	Gn	Cs	74	1	25	F	G	W	0.1	100								4% Bn Sh CONTAM ?
ENNIS	ENP016	37	38	4016038	Gw	GnGr	Cs	99		1	F	G	W	0.1	100								
ENNIS	ENP016	38	39	4016039	Gw	PlGnGr	Cs	100		0.5	F	G	W										
ENNIS	ENP016	39	40	4016040	Gw	GnGr	Cs	100			F	G	W	0.1			100						
ENNIS	ENP016	40	41	4016041	Gw	GnGr	Cs	93		7	F	G	W	0.1	50		50						10% RdBn Sh CONTAM ?
ENNIS	ENP016	41	42	4016042	Gw	GnGr	MdCs	99		1	F	G	W										
ENNIS	ENP016	42	43	4016043	Gw	GnGr	Md	100		0.5	F	G	W										
ENNIS	ENP016	43	44	4016044	Gw	DkGnGr	MdCs	100		0.5	F	G	W										
ENNIS	ENP016	44	45	4016045	Gw	GnGr	Cs	100		0.5	F	G	W	0.2	100								
ENNIS	ENP016	45	46	4016046	GwShQz	GnGr	Fn	35	30	35	F	G	W										Su IN Bx Qz VEIN
ENNIS	ENP016	46	47	4016047	Sh	GnGr	Fn	5	94	1	F	G	W										
ENNIS	ENP016	47	48	4016048	GwSh	DkGnGr	Fn	59	40	1	F	G	W										
ENNIS	ENP016	48	49	4016049	Gw	DkGnGr	FnMd	95	4	1	F	G	W										5% RdBn Sh CONTAM ?
ENNIS	ENP016	49	50	4016050	Gw	DkGnGr	Cs	99		1	F	G	W	0.1	100								
ENNIS	ENP016	50	51	4016051	Sh	DkGnGr	Fn	20	78	2	F	G	W	0.1	100								
ENNIS	ENP016	51	52	4016052	Gw	DkGnGr	Md	99		1	F	G	W	0.1	100								
ENNIS	ENP016	52	53	4016053	Gw	GnGr	MdCs	100		0.5	F	G	W										
ENNIS	ENP016	53	54	4016054	Gw	GnGr	Md	100		0.5	F	G	W										
ENNIS	ENP016	54	55	4016055	Gw	GnGr	MdCs	99		1	F	G	W										
ENNIS	ENP016	55	56	4016056	Gw	GnGr	Cs	100		0.5	F	G	W										
ENNIS	ENP016	56	57	4016057	Gw	GnGr	Md	99		1	F	G	W	0.1	100								
ENNIS	ENP016	57	58	4016058	Gw	GnGr	FnMd	99		1	F	G	W	0.1	50	50							

APPENDIX 3

Drillhole Assays

V anterea of

ASSAYCORP PTY LTD
A.C.N. 052 962 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16575

Union Reefs Gold Mine

Distribution
D.GILES

Client Reference: 23239
Project :
Cost Code:

Date Received: 14/09/1994
Number of Samples: 58

Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA50	Acc. ± 15%	0.01	ppm
Au(C)	FA50	Acc. ± 15%	0.01	ppm
Au(R)	FA50	Acc. ± 15%	0.01	ppm

RC

ENNIS

ENPU16

Authorisation: Ray Wooldridge

Report Dated: 18/09/1994

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16575

Sample	Au (ppm)	Au(C) (ppm)	Au(R) (ppm)
4016001	0.05		
4016002	0.07		
4016003	0.02		
4016004	<0.01		
4016005	0.02		
4016006	0.02		
4016007	0.01		
4016008	<0.01		
4016009	0.02		
4016010	0.62	0.61	
4016011	0.04		
4016012	<0.01		
4016013	0.04		
4016014	0.01		
4016015	<0.01		
4016016	0.05		
4016017	0.04		
4016018	0.01		
4016019	0.01		
4016020	0.07	0.05	
4016021	0.02		
4016022	0.01		
4016023	<0.01		
4016024	0.05		
4016025	0.02		

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16575

Sample	Au (ppm)	Au(C) (ppm)	Au(R) (ppm)
4016026	<0.01		
4016027	0.01		
4016028	<0.01		
4016029	<0.01		
4016030	0.01	0.01	
4016031	<0.01		
4016032	<0.01		
4016033	<0.01		
4016034	0.02		
4016035	0.01		
4016036	0.03		
4016037	0.04		
4016038	0.12		
4016039	0.10		
4016040	0.01	0.04	
4016041	0.07		
4016042	0.02		0.02
4016043	0.01		
4016044	0.06		
4016045	<0.01		
4016046	<0.01		
4016047	<0.01		
4016048	0.02		0.03
4016049	0.08		0.10
4016050	<0.01	<0.01	

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16575

Sample	Au (ppm)	Au(C) (ppm)	Au(R) (ppm)
4016051	<0.01		
4016052	<0.01		
4016053	<0.01		<0.01
4016054	<0.01		
4016055	<0.01		
4016056	<0.01		
4016057	<0.01		
4016058	<0.01		

✓ entered

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16587

Union Reefs Gold Mine

Distribution
DAVID GILES

Client Reference: 23239
Project :
Cost Code:

Date Received: 14/09/1994
Number of Samples: 58

Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA50	Acc. ± 15%	0.01	ppm
Au(C)	FA50	Acc. ± 15%	0.01	ppm
Au(R)	FA50	Acc. ± 15%	0.01	ppm

ENNIS
ENQ 017

John Wilkinson

Authorisation: Ray Wooldridge

Report Dated: 18/09/1994

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16587

Sample	Au (ppm)	Au(C) (ppm)	Au(R) (ppm)
4017001	0.02		0.02
4017002	0.07		
4017003	0.01		
4017004	0.01		
4017005	0.02		
4017006	<0.01		<0.01
4017007	0.02		
4017008	0.01		
4017009	0.03		
4017010	0.02	0.01	
4017011	0.01		
4017012	0.01		
4017013	0.01		
4017014	0.01		
4017015	0.01		
4017016	0.02		
4017017	0.01		
4017018	0.01		
4017019	0.02		
4017020	0.01	0.01	
4017021	0.01		
4017022	0.01		
4017023	0.02		
4017024	0.01		
4017025	0.01		

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16587

Sample	Au (ppm)	Au(C) (ppm)	Au(R) (ppm)
4017026	0.01		
4017027	0.01		
4017028	0.01		
4017029	<0.01		<0.01
4017030	<0.01	<0.01	
4017031	0.02		
4017032	0.01		
4017033	0.01		
4017034	0.01		
4017035	0.02		
4017036	0.01		
4017037	0.01		
4017038	<0.01		
4017039	0.01		
4017040	0.01	0.01	
4017041	0.02		
4017042	0.01		
4017043	<0.01		
4017044	0.01		
4017045	<0.01		
4017046	<0.01		
4017047	<0.01		
4017048	<0.01		
4017049	<0.01		
4017050	<0.01	<0.01	

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16587

Sample	Au (ppm)	Au(C) (ppm)	Au(R) (ppm)
4017051	0.79		0.62
4017052	0.11		0.11
4017053	0.15		
4017054	<0.01		
4017055	<0.01		
4017056	<0.01		
4017057	<0.01		<0.01
4017058	<0.01		

Contained.

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16576

Union Reefs Gold Mine

Distribution
D.GILES

Client Reference: 23239
Project :
Cost Code:

Date Received: 14/09/1994
Number of Samples: 58

Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA50	Acc. ± 15%	0.01	ppm
Au(C)	FA50	Acc. ± 15%	0.01	ppm
Au(R)	FA50	Acc. ± 15%	0.01	ppm

ENNIS
ENP 018

Authorisation: Ray Wooldridge

Report Dated: 18/09/1994

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16576

Sample	Au (ppm)	Au(C) (ppm)	Au(R) (ppm)
4018001	0.01		
4018002	0.06		0.05
4018003	0.02		
4018004	<0.01		
4018005	0.01		
4018006	0.01		
4018007	<0.01		
4018008	<0.01		
4018009	0.01		
4018010	<0.01	<0.01	
4018011	<0.01		
4018012	<0.01		
4018013	0.01		
4018014	0.01		
4018015	0.01		
4018016	0.01		
4018017	0.01		
4018018	0.01		
4018019	<0.01		0.01
4018020	0.01	0.01	
4018021	0.01		
4018022	0.01		
4018023	<0.01		
4018024	0.01		
4018025	0.01		

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16576

Sample	Au (ppm)	Au(C) (ppm)	Au(R) (ppm)
4018026	0.01		
4018027	<0.01		
4018028	0.01		
4018029	<0.01		
4018030	<0.01	0.01	
4018031	0.01		
4018032	<0.01		
4018033	0.01		
4018034	0.01		
4018035	0.01		
4018036	<0.01		
4018037	0.02		<0.01
4018038	<0.01		
4018039	0.01		
4018040	0.02	0.02	
4018041	<0.01		
4018042	0.01		
4018043	0.01		
4018044	0.01		
4018045	<0.01		
4018046	<0.01		
4018047	<0.01		
4018048	<0.01		
4018049	<0.01		
4018050	<0.01	<0.01	

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16576

Sample	Au (ppm)	Au(C) (ppm)	Au(R) (ppm)
4018051	<0.01		
4018052	<0.01		0.01
4018053	<0.01		
4018054	<0.01		
4018055	<0.01		
4018056	0.10		0.08
4018057	<0.01		
4018058	<0.01		

✓ entered

ASSAYCORP PTY LTD

A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16553

Union Reefs Gold Mine

Distribution

D.GILES

Client Reference:
Project :
Cost Code:

Date Received: 13/09/1994
Number of Samples: 172

Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA50	Acc. ± 15%	0.01	ppm
Au(C)	FA50	Acc. ± 15%	0.01	ppm
Au(R)	FA50	Acc. ± 15%	0.01	ppm

Ennis
ENP019
020
Elizabeth 025

Authorisation: Ray Wooldridge
Report Dated: 18/09/1994

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16553

Sample	Au (ppm)	Au(C) (ppm)	Au(R) (ppm)
4019001	<0.01		
4019002	<0.01		
4019003	<0.01		
4019004	<0.01		
4019005	<0.01		
4019006	<0.01	<0.01	
4019007	<0.01		
4019008	<0.01		
4019009	<0.01		
4019010	<0.01		
4019011	<0.01		
4019012	<0.01	<0.01	
4019013	<0.01		
4019014	<0.01		
4019015	<0.01		
4019016	<0.01		
4019017	<0.01		
4019018	<0.01		
4019019	<0.01	<0.01	
4019020	<0.01		
4019021	<0.01		
4019022	<0.01		
4019023	<0.01		
4019024	0.02	0.05	
4019025	<0.01		

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16553

Sample	Au (ppm)	Au(C) (ppm)	Au(R) (ppm)
4019026	<0.01		
4019027	<0.01		
4019028	0.35		0.45
4019029	0.37		0.31
4019030	0.03	0.05	
4019031	<0.01		
4019032	<0.01		
4019033	<0.01		
4019034	<0.01		
4019035	<0.01		
4019036	<0.01		
4019037	<0.01		
4019038	<0.01		
4019039	<0.01	<0.01	
4019040	<0.01		
4019041	<0.01		
4019042	<0.01		
4019043	<0.01	<0.01	
4019044	<0.01		
4019045	<0.01		
4019046	<0.01		
4019047	0.17		
4019048	<0.01		
4019049	<0.01		
4019050	<0.01		

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16553

Sample	Au (ppm)	Au(C) (ppm)	Au(R) (ppm)
4019051	0.02		<0.01
4019052	<0.01		
4019053	<0.01		
4019054	<0.01	<0.01	
4019055	<0.01		
4019056	<0.01		
4019057	<0.01		
4019058	<0.01	<0.01	
4020001	<0.01		
4020002	<0.01		
4020003	<0.01		
4020004	<0.01		
4020005	<0.01		
4020006	0.02		<0.01
4020007	<0.01		
4020008	<0.01		
4020009	<0.01		
4020010	0.05	0.05	
4020011	0.29		0.35
4020012	0.02		
4020013	<0.01		
4020014	0.01		
4020015	<0.01		
4020016	<0.01		
4020017	<0.01		

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

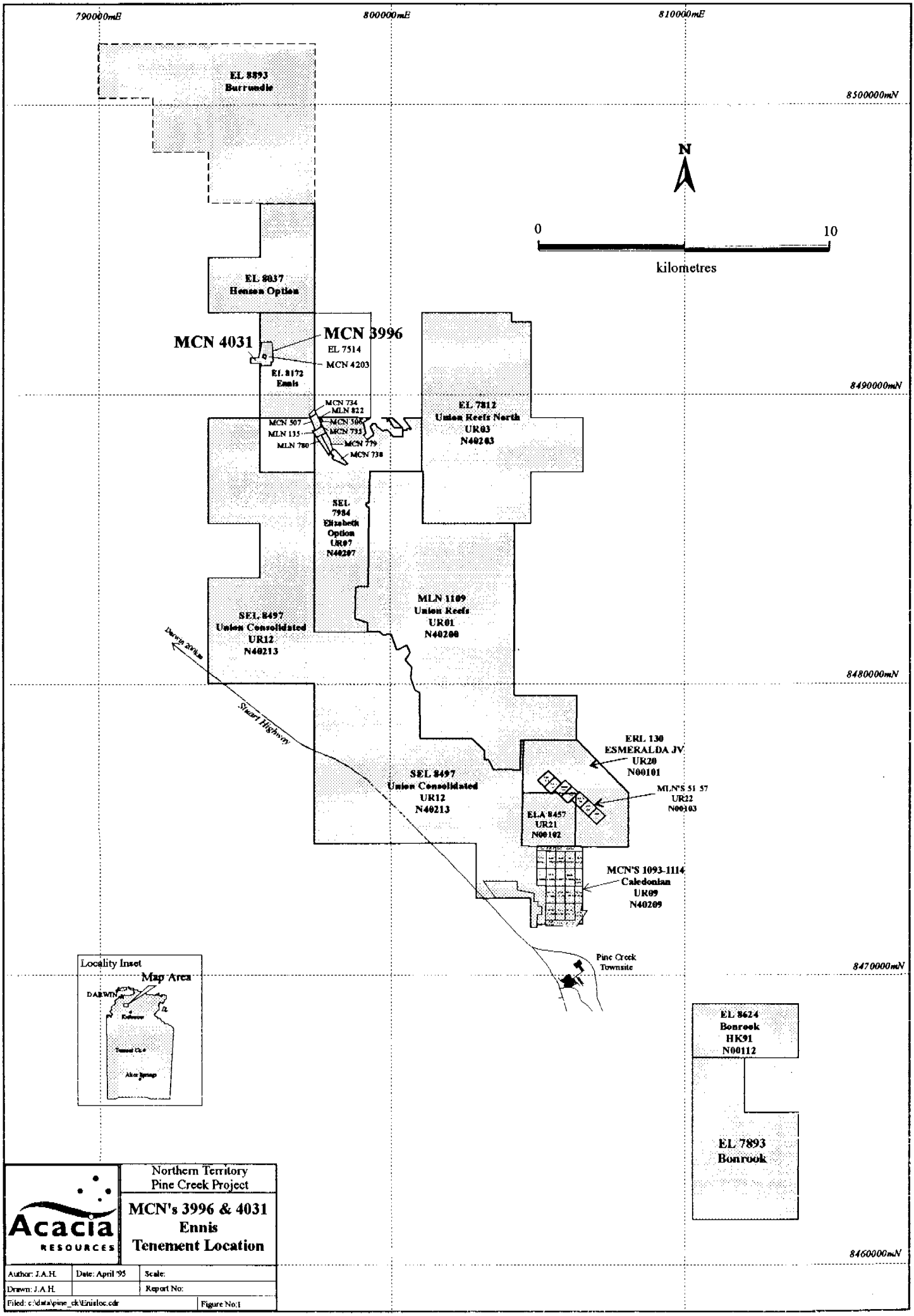
ASSAY CODE: AC 16553

Sample	Au (ppm)	Au(C) (ppm)	Au(R) (ppm)
4020018	<0.01		
4020019	<0.01		
4020020	0.04		0.03
4020021	<0.01	<0.01	
4020022	<0.01		
4020023	<0.01		
4020024	<0.01		
4020025	<0.01		
4020026	<0.01		
4020027	<0.01		
4020028	<0.01		
4020029	<0.01		
4020030	<0.01		
4020031	<0.01		
4020032	<0.01	<0.01	
4020033	<0.01		
4020034	0.02		
4020035	0.02		
4020036	<0.01		
4020037	0.01	<0.01	
4020038	<0.01		
4020039	<0.01		
4020040	<0.01		
4020041	0.01		
4020042	<0.01		

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 16553

Sample	Au (ppm)	Au(C) (ppm)	Au(R) (ppm)
4020043	<0.01		
4020044	<0.01	<0.01	
4020045	<0.01		
4020046	0.04		
4020047	0.05		
4020048	0.42		0.38
4020049	0.25		0.20
4020050	0.23		0.31
4020051	0.37		0.33
4020052	0.07	0.03	
4020053	<0.01		
4020054	<0.01		
4020055	<0.01		
4020056	<0.01		


790000mE
800000mE
810000mE
8500000mN
8490000mN
8480000mN
8470000mN
8460000mN
EL 8593
Burrundie
N
0
10
kilometres
EL 8037
Henson Option
MCN 4031
MCN 3996
EL 7514
MCN 4203
EL 8172
Ennis
MCN 734
MLN 822
MCN 507
MCN 306
MLN 135
MCN 733
MLN 780
MCN 779
MCN 738
EL 7812
Union Reefs North
UR03
N40283
SEL
7984
Elizabeth
Option
UR07
N40207
MLN 1109
Union Reefs
UR01
N40200
SEL 8497
Union Consolidated
UR12
N40213
Darwin 200km
Stuart Highway
ERL 130
ESMERALDA JV
UR20
N00101
MLN'S 51 57
UR22
N00103
ELA 8457
UR21
N00102
MCN'S 1093-1114
Caledonian
UR09
N40209
Pine Creek
Townsite
Locality Inset
Map Area
DARWIN
EL 8624
Bonrook
HK91
N00112
EL 7893
Bonrook
Acacia
RESOURCES
Northern Territory
Pine Creek Project
MCN's 3996 & 4031
Ennis
Tenement Location
Author: J.A.H.
Date: April '95
Scale:
Drawn: J.A.H.
Report No:
Filed: c:\data\pine_ck\Ennisloc.cdr
Figure No:1

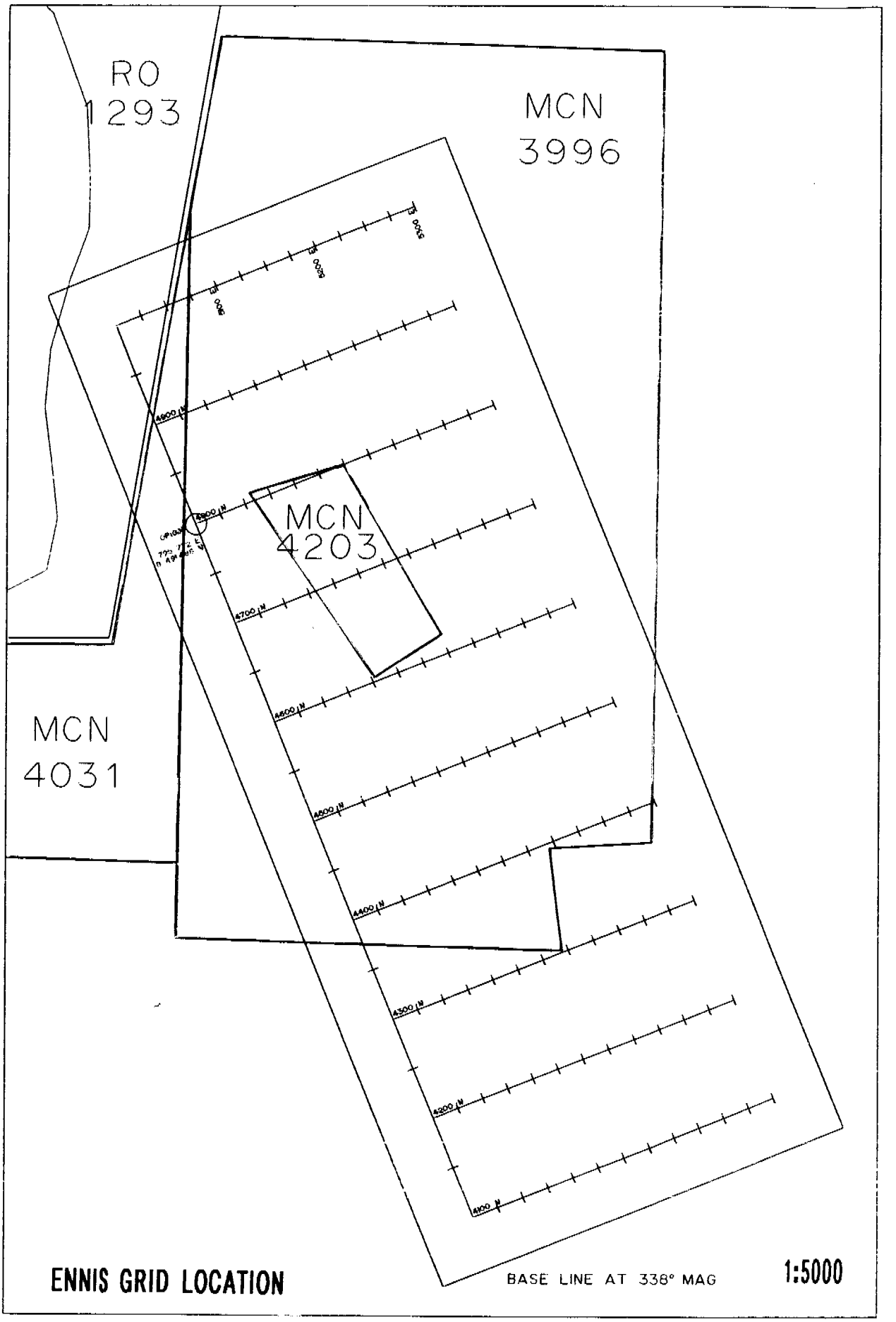

RO
1293
MCN
3996
MCN
4203
MCN
4031
4800 N
4700 N
4600 N
4500 N
4400 N
4300 N
4200 N
4100 N
ENNIS GRID LOCATION
BASE LINE AT 338° MAG
1:5000

Figure 2

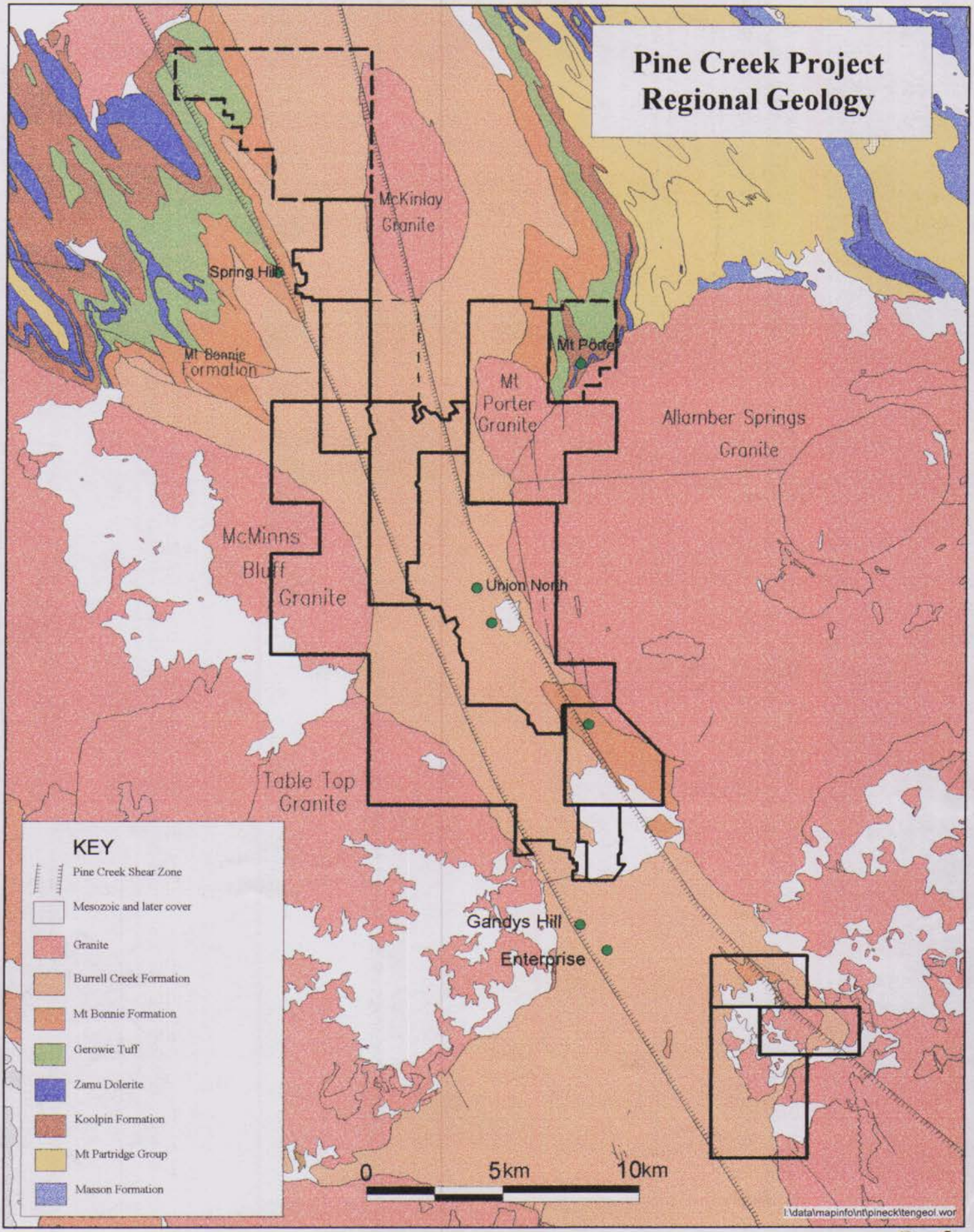

Pine Creek Project
Regional Geology
McKinlay Granite
Spring Hill
Mt Bonnie Formation
Mt Porter Granite
Mt Porter
Allamber Springs Granite
McMinns Bluff Granite
Union North
Table Top Granite
Gandys Hill
Enterprise
KEY
Pine Creek Shear Zone
Mesozoic and later cover
Granite
Burrell Creek Formation
Mt Bonnie Formation
Gerowie Tuff
Zamu Dolerite
Koolpin Formation
Mt Partridge Group
Masson Formation
0
5km
10km
I:\data\mapinfo\nt\pineck\tengeol.wor

FIG. 3

795700 mE
795800 mE
795900 mE
796000 mE
796100 mE
796200 mE
796300 mE
796400 mE

MCN 3996

8491800 mN
8491700 mN
8491600 mN
8491500 mN
8491400 mN
8491300 mN
8491200 mN
8491100 mN
8491000 mN
8490900 mN

5000E
4900N
4800N
4700N
4600N
4500N
4400N
4300N
4200N
4100N

>128 Au ppb
>64 Au ppb
>32 Au ppb

PKGCHEM by Auav_ppb
1024 to 10000
512 to 1024
256 to 512
128 to 256
64 to 128
32 to 64
16 to 32
8 to 16
4 to 8
-10 to 4
sample not recieved
no sample

MCN 4203

MCN 4031

0 0.05 0.1
Kilometers

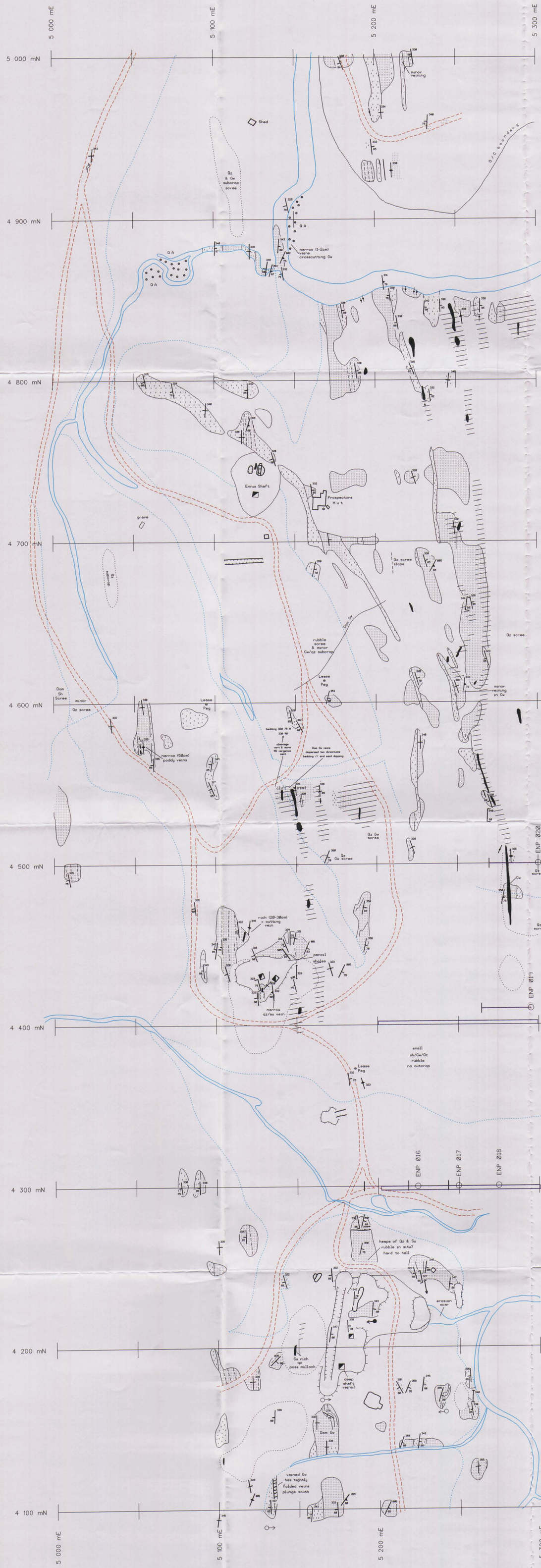
CR95/378

CR95/378

Acacia Resources
Pine Creek Project

Ennis Mcn's 3996 & 4031
Soil Sampling
Au Contours

Fig. 4



CR95/378

LEGEND

- Shale (Sh)
- Greywacke (Gw)
- Quaternary Alluvium (QA)
- Cutting
- Waste Dump
- track
- River
- Qz vein
- Vein < 5cm
- Quartz Float
- Dip & Strike of Cleavage
- Dip & Strike of Foliation
- Dip & Strike
- Shaft
- Pit

CR95/378

Scale 1:1000

metres 25 0 50 100 metres

G N

Acacia RESOURCES

Northern Territory
Pine Creek Project

ENNIS GRID

GEOLOGICAL FACT MAP

Author: D.G	Office: DWN	Scale: 1:1000
Drawn: I.G.	Date: APR/95	Revised:
Plotted Date: 4/5/1995		Report No:
Filed: ENISGEOL.DGN		Figure No: 5

5 225 mE

5 250 mE

5 275 mE

5 300 mE

Ennis Costean 4

5210 mE 5215 5220 5225 5230 5235 5240 5245 5250 5255 5260 5265 5270 5275 5280 5285 5290 5295 5300 mE

4 400 mN

Massive Gw

Massive Gn/Bn Gw

Subvert closures?

A 3-5cm larger//

Ib Dom Gw

Ib Silty Shale +Silt+Fn Gw Dom Sh+Silt

Ib Si+Sh

Dom Gw some Ib Si

Closure?

Ib Gw/Sh/Si

1
2
3

Iron rich Sh sheared? all East dipping

Thinnly Ib Sh,Si,Gw Sh,Si,Dom

East dipping Dom,Gw Minor Ib,Si/Sh

Flat lying fault offset <3cm

Fn Grained Silty Gw/Si bedded= 5cm trans b/w sh

Dom bedded Gw

Massive Gw

Thinnly Ib FnGw+Si minor Sh

Strongly foliated Gw

NB: some contact 1m east in South wall → bedding at 45° to costean. Similar relationship though not as clear at other contacts.

Ib,Si + minor Gw increasing to east

Minor Ib Si + Sh

1-2cm Iron rich set of // veins

2-3cm layer

3-5cm vein A

Bedded Gw+Si minor Sh

Fn grained Ib Si/Gw & Sh at 1-5cm

bedding subvertical to west dipping

Ennis Costean 3

5200 mE 5205 5210 5215 5220 5225 5230 5235 5240 5245 5250 5255 5260 5265 5270 5275 mE

4300 mN

TOO WET TO SAMPLE

GN

LEGEND

- Shale
- Greywacke
- Qz rich Alluvium
- Brecciated
- Sheared
- Qz vein
- Vein < 5cm
- 60 Dip & Strike
- S Suprolite
- Mottled Gw?

Horizontal Scale 1:250

metres 5 0 5 10 15 metres

Vertical Scale 1:100

metres 1 0 2 4 5 metres

Acacia RESOURCES

Northern Territory
Pine Creek Project

ENNIS PROSPECT
COSTEAN 3 & 4
GEOLOGY

Author: D.G.	Office: DWN	Scale: 1:250
Drawn: I.G.	Date: APR/95	Revised:
Plotted Date: 24/4/1995		Report No:
Filed: ENNIS3.DGN		Figure No: 6

795500 mE
796000 mE
796500 mE
797000 mE
797500 mE

0 0.25 0.5
Kilometers

8492500 mN
8492000 mN
8491500 mN
8491000 mN
8490500 mN
8490000 mN
8489500 mN

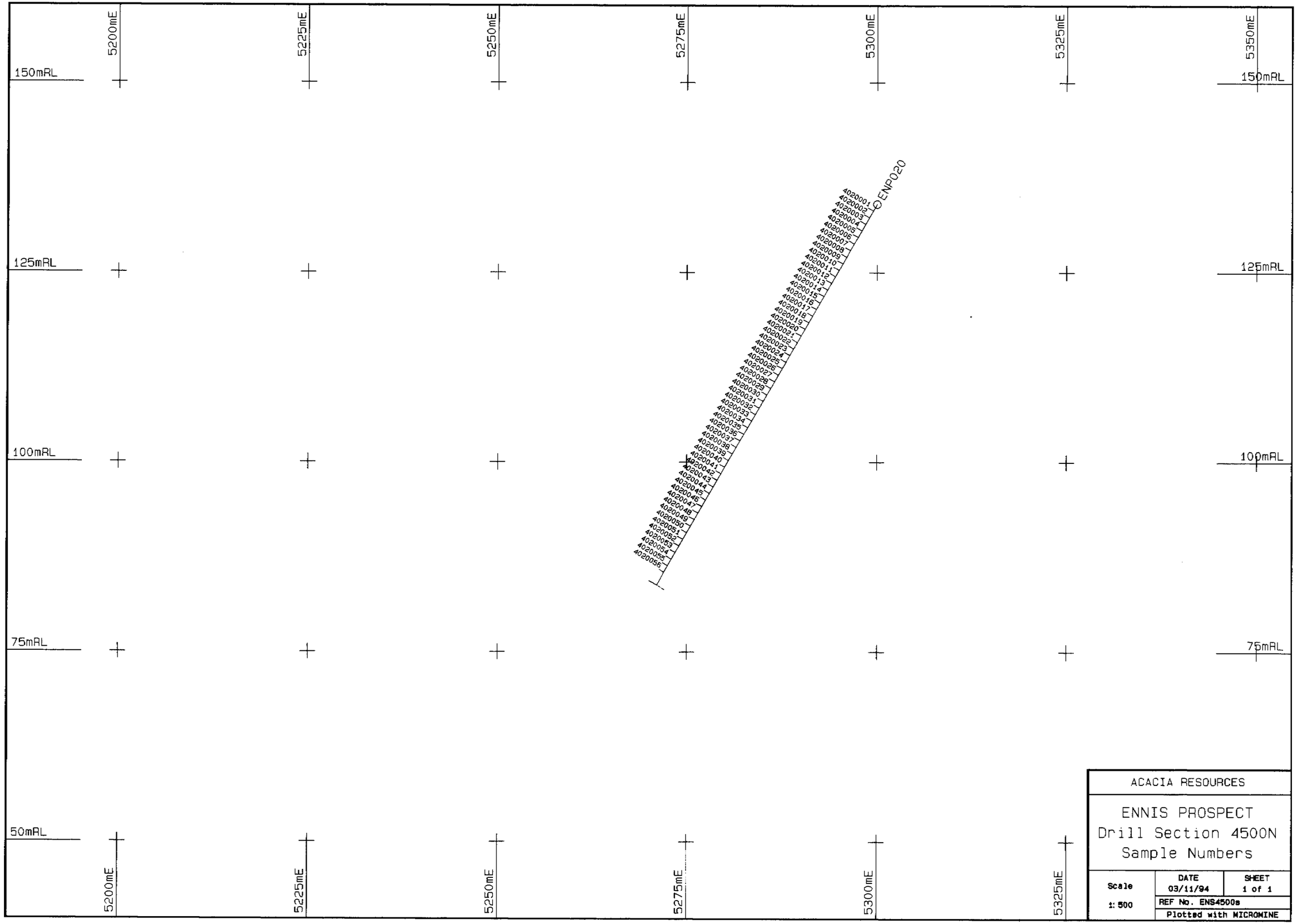
Acacia Resources
Pine Creek Project
Soil Geochemistry
Au ppb
Ennis Grid

PKGCHEM by Auav_ppb
- 1024 to 10000
- 512 to 1024
- 256 to 512
- 128 to 256
- 64 to 128
- 32 to 64
- 16 to 32
- 8 to 16
- 4 to 8
- -10 to 4
- sample not recieved
- no sample

MLN856

Filed:M:\nt\pineck\soils\enssoils.wor

Fig. 7



ACACIA RESOURCES

ENNIS PROSPECT
Drill Section 4500N
Sample Numbers

Scale	DATE	SHEET
1:500	03/11/94	1 of 1
	REF No. ENS4500s	
	Plotted with MICROMINE	

Fig. 8

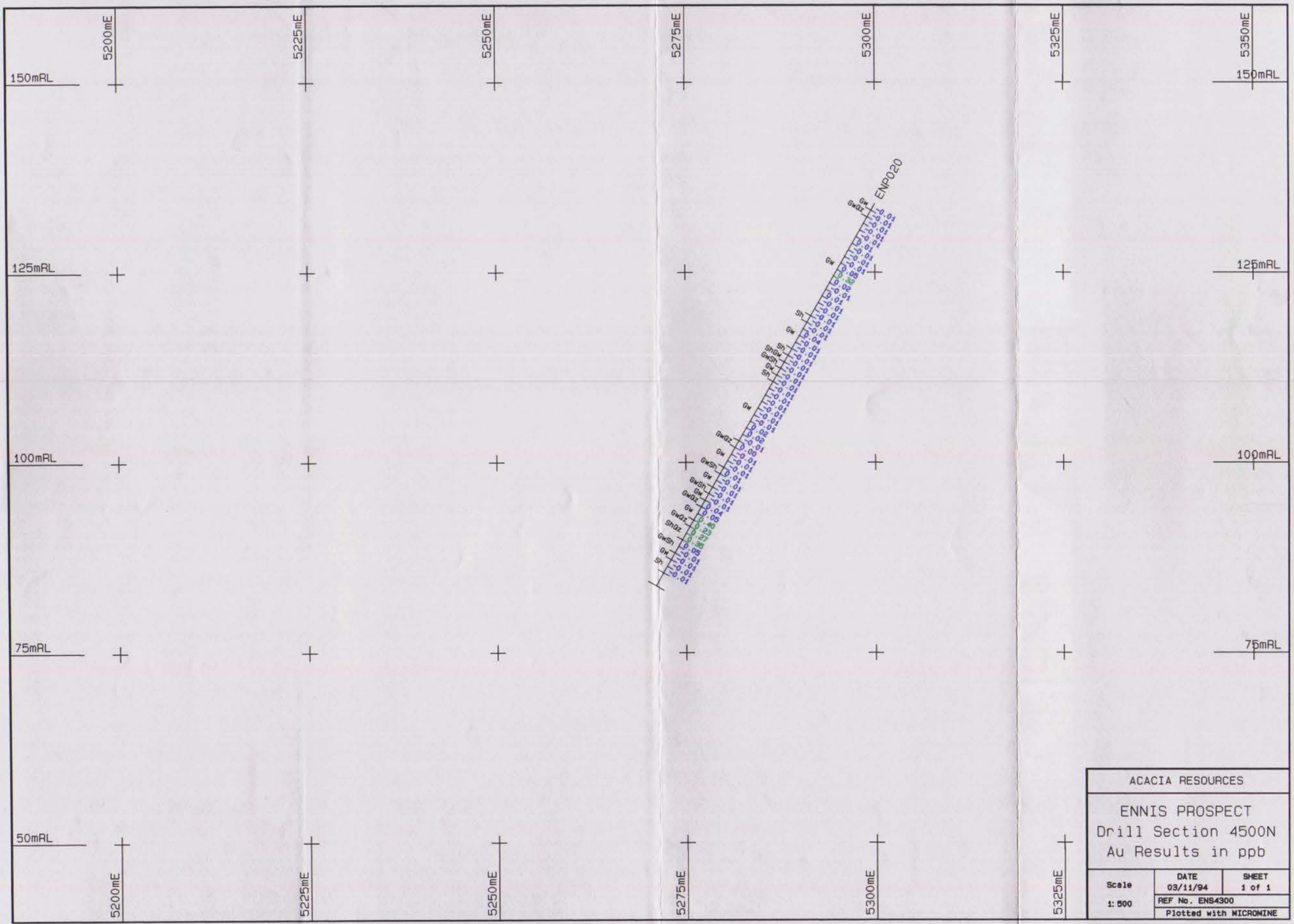

5200mE
5225mE
5250mE
5275mE
5300mE
5325mE
5350mE
150mRL
125mRL
100mRL
75mRL
50mRL
ENP020
ACACIA RESOURCES
ENNIS PROSPECT
Drill Section 4500N
Au Results in ppb
Scale
1:500
DATE
03/11/94
SHEET
1 of 1
REF No. ENS4300
Plotted with MICROMINE

Fig. 9

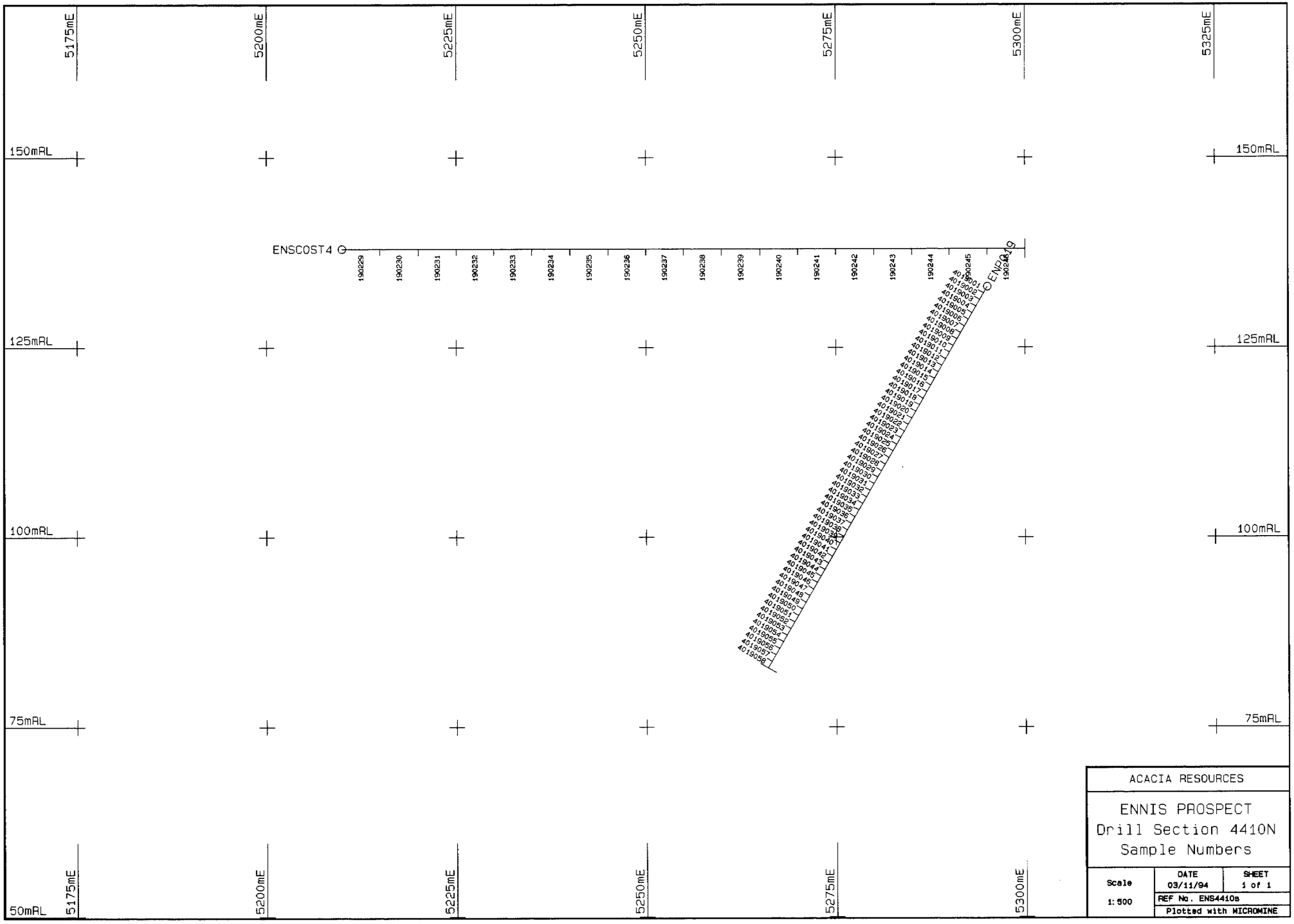

5175mE
5200mE
5225mE
5250mE
5275mE
5300mE
5325mE
150mRL
125mRL
100mRL
75mRL
50mRL
ENSCOST4
190229
190230
190231
190232
190233
190234
190235
190236
190237
190238
190239
190240
190241
190242
190243
190244
190245
190246
ENS019
ACACIA RESOURCES
ENNIS PROSPECT
Drill Section 4410N
Sample Numbers
Scale
1:500
DATE
03/11/94
SHEET
1 of 1
REF No. ENS4410s
Plotted with MICROMINE

FIG 10

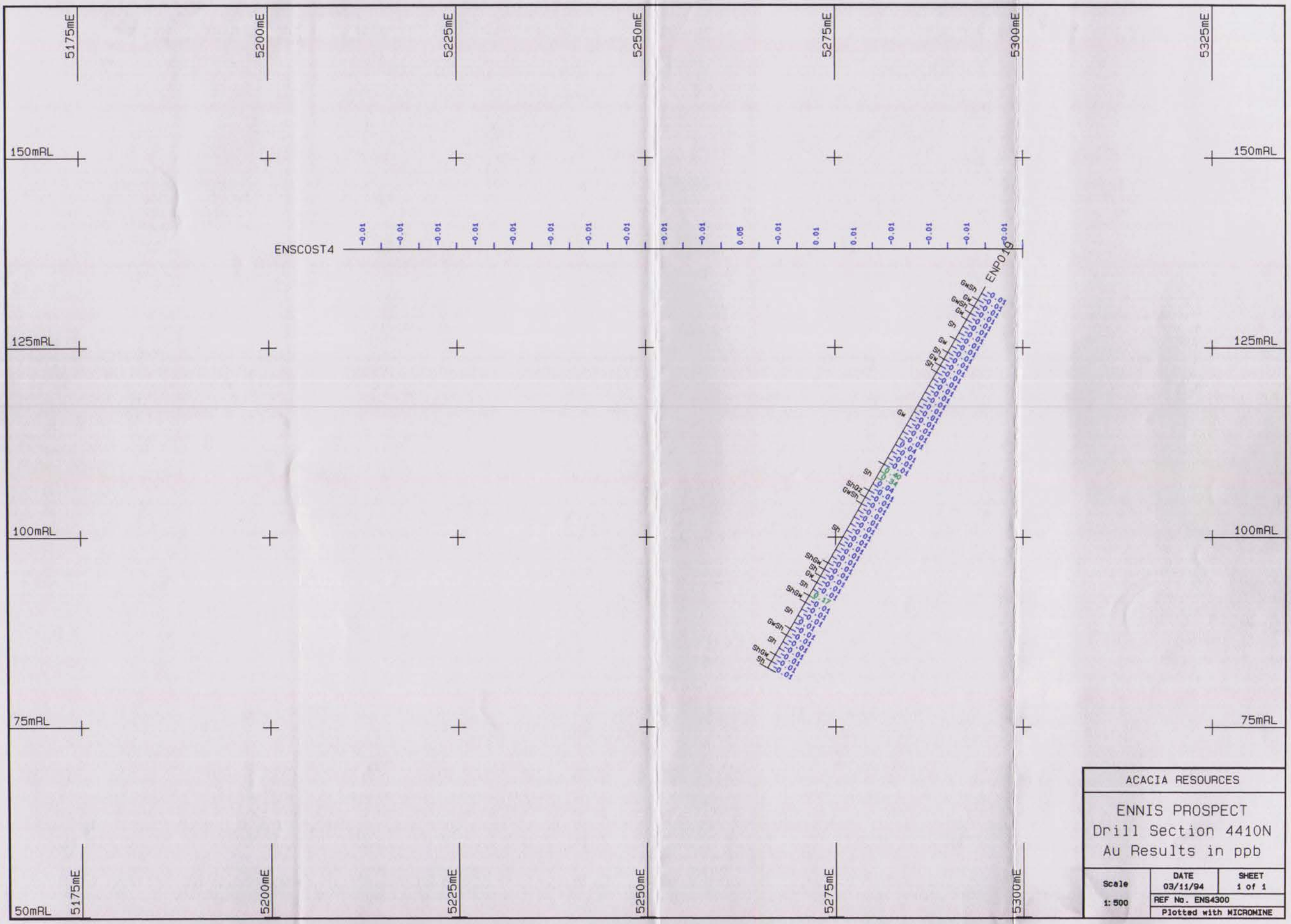

5175mE
5200mE
5225mE
5250mE
5275mE
5300mE
5325mE
150mRL
125mRL
100mRL
75mRL
50mRL
ENSCOST4
ENP019
ACACIA RESOURCES
ENNIS PROSPECT
Drill Section 4410N
Au Results in ppb
Scale
1:500
DATE
03/11/94
SHEET
1 of 1
REF No. ENS4300
Plotted with MICROMINE

Fig. 11

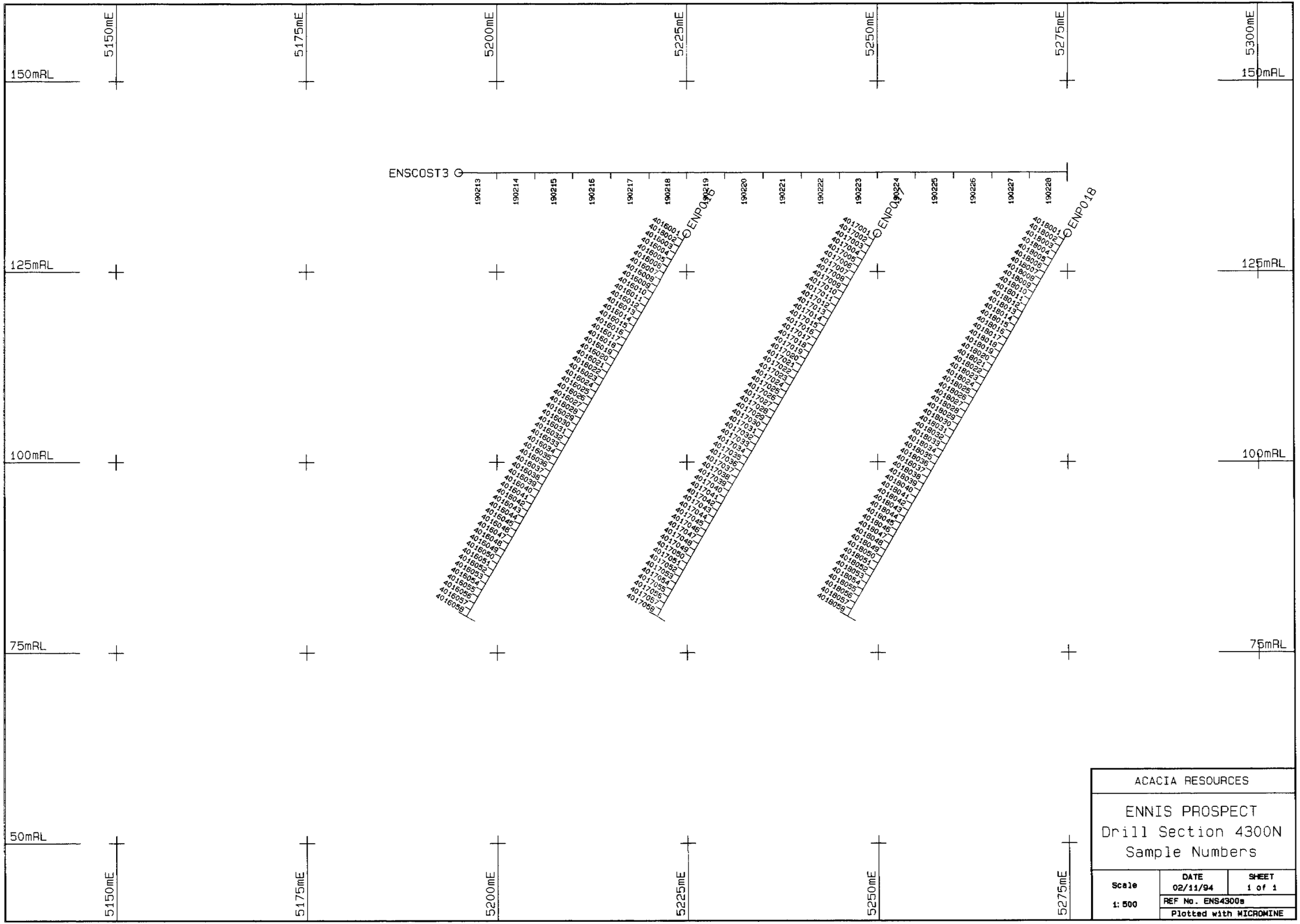
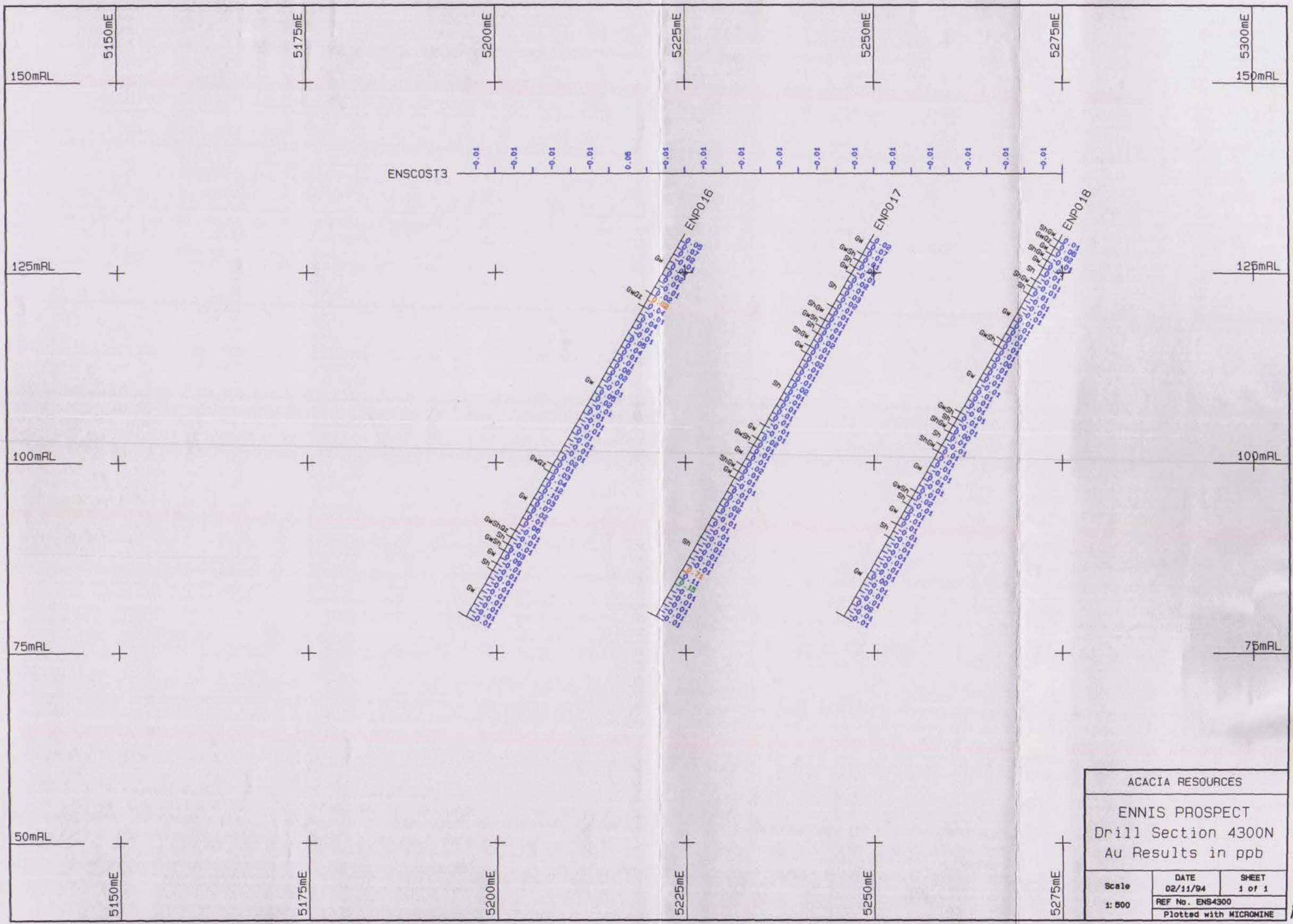

5150mE
5175mE
5200mE
5225mE
5250mE
5275mE
5300mE
150mRL
125mRL
100mRL
75mRL
50mRL
ENSCOST3
190213
190214
190215
190216
190217
190218
190219
190220
190221
190222
190223
190224
190225
190226
190227
190228
ENP018
ENP017
ENP018
ACACIA RESOURCES
ENNIS PROSPECT
Drill Section 4300N
Sample Numbers
Scale
1:500
DATE
02/11/94
SHEET
1 of 1
REF No. ENS4300s
Plotted with MICROMINE

Fig. 12



ACACIA RESOURCES		
ENNIS PROSPECT Drill Section 4300N Au Results in ppb		
Scale 1:500	DATE 02/11/94	SHEET 1 of 1
	REF No. ENS4300	
	Plotted with MICROMINE	

FIG. 13