

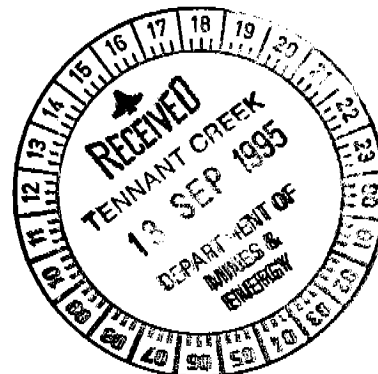


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THIRD ANNUAL REPORT
FOR EXPLORATION LICENCE 7821
FOR THE PERIOD 14/8/94 TO 13/8/95
TENNANT CREEK DISTRICT, NORTHERN TERRITORY
BARKLY SOUTH PROSPECT
TENNANT CREEK 1:250,000 SHEET SE 53-14

VOLUME 1 OF 1

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DATE: SEPTEMBER 1995

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COMMODITIES: Gold

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REPORT NO:

TITLE:

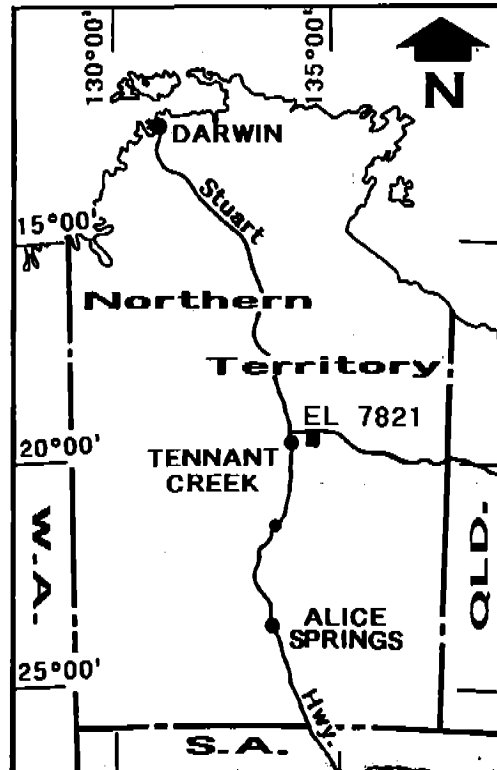
THIRD ANNUAL REPORT FOR EXPLORATION LICENCE 7821
FOR THE PERIOD 14/8/94 TO 13/8/95, TENNANT CREEK
DISTRICT, NORTHERN TERRITORY, BARKLY SOUTH
PROSPECT

AUTHOR:

G M LOWE

DATE:

SEPTEMBER 1995



1. SUMMARY

Exploration Licence 7821 (Barkly South Prospect) is located 19km ENE of Tennant Creek township. During the third year of tenure all bedrock and palaeosol geochemical assays collected during vacuum drilling in years two and three of tenure were assessed.

Both sets of assays supported a weakly anomalous geochemical zone trending west-north-west through the centre of the grid. Work undertaken on EL 7821 during year three included an infill vacuum drilling programme comprising 58 holes for 590 metres, designed to validate the previous bedrock geochemistry and define the tenor of the inferred anomaly prior to deeper drill testing. Drilling intersected a sequence of Cambrian sandstone, cherts and silcrete, interpreted to overly Warramunga sediments at depth. No geochemical values of significance were returned from this drilling, and it is concluded that the initial low level anomalism is also attributed to background values in the Cambrian basin sediments.

2. INTRODUCTION

2.1 Location and Access

Exploration Licence 7821 (Barkly South Prospect) is located approximately 19km ENE of Tennant Creek township (refer Figure 1). Access to the licence area from Tennant Creek township is ENE by winding station tracks via Lone Star Mine to Gigantic Mine and then north for approximately two kilometres.

2.2 Climate and Physiography

The climate of the Tennant Creek area is mild to warm and dry throughout autumn, winter and spring. The summers are hot (often in excess of 35°C) with associated seasonal rainfall between December and March which frequently impedes field work programmes.

The majority of EL 7821 covers a flat lying area comprising an extensive clay pan devoid of vegetation to the south. The central and northern portion of the licence consists of dense eucalyptic bushland associated with the discharge of Tennant Creek after heavy rainfall. Access to this area is difficult and best traversed via a fenceline trending east-west through the centre of the licence area. The eastern margin of the licence area hosts low lying hills which drain along their western margin where several waterholes exist along a seasonal creek bed.

2.3 Tenure

Exploration Licence 7821 (EL 7821) was granted to Poseidon Gold Limited (PosGold) on 14 August 1992, for a period of six years. The licence originally consisted of 18 graticular blocks and was reduced to nine and five graticular blocks at the end of the second and third years of tenure respectively, in accordance with Section 26 of the Mining Act. The covenant for the third year of tenure totalled \$6,750.

2.4 Previous Exploration

Prior to PosGold acquiring EL 7821 no known exploration had been conducted within the Barkly South prospect. During the first year of tenure work conducted by PosGold included the compilation of airborne magnetic data, photogeological mapping, geomorphological mapping and regional vacuum drilling, followed by regional and prospect-scale interpretation in year two of tenure (refer Worland, 1993, 1994).

3. REGIONAL GEOLOGY

The Tennant Creek Inlier comprises gneissic basement successively overlain by unconformable Proterozoic sediments of the Warramunga Group, Hatches Creek Group and Tomkinson Creek Beds. These sediments have been intruded by Proterozoic aged granites, and subsequently overlain by Cambrian sediments (Le Messurier *et al*, 1990). The Warramunga Group contains all of the economically viable mineral deposits in the Tennant Creek region.

The Warramunga Group is overlain by the Flynn Sub-Group. The Warramunga Group comprises a sequence of argillaceous sedimentary rocks including siliceous greywacke, siltstone, shale and haematite shale with zones of disseminated haematite-magnetite

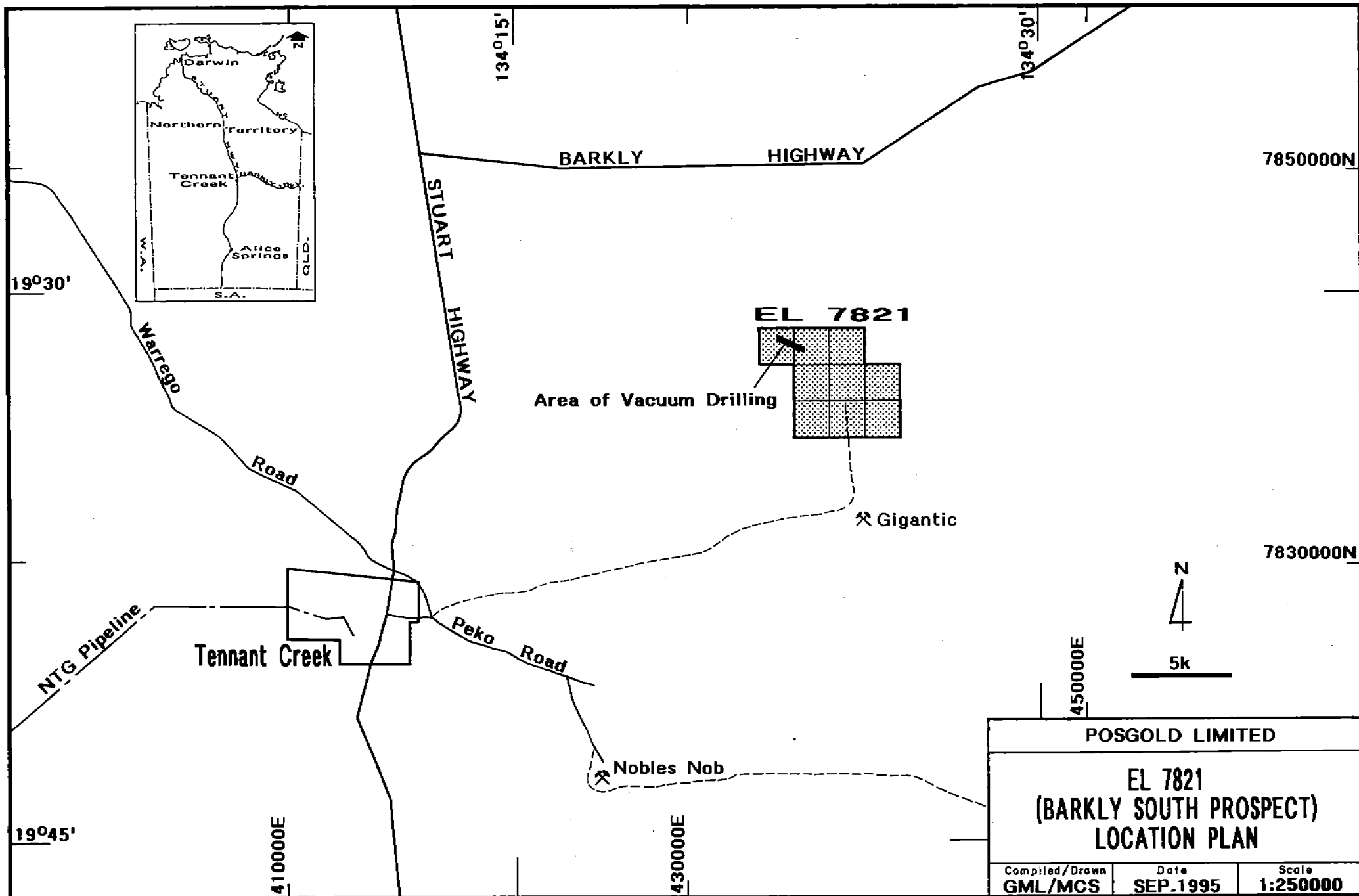


Figure No. 1

being common throughout. Quartz-feldspar porphyry lenses occur as both cross-cutting and conformable units within the sedimentary sequences. The Flynn Sub-Group comprises a sequence of argillaceous to quartz-rich arenaceous sedimentary rocks, coarser up sequence, with abundant quartz veining. All of the mineralised ironstones are contained in the Warramunga Group.

The Warramunga Group exhibits three deformational phases and is metamorphosed to greenschist facies. The first deformational episode resulted in tight to isoclinal, upright folds with east-west axes. Two later episodes of faulting consist of WNW trending faults and shear zones with south-side-up movement, and NW trending faults often filled with quartz, showing sinistral movement.

4. LOCAL GEOLOGY

Exploration Licence 7821 covers an area mainly consisting of a flat lying alluvial flood plain controlled by the seasonal discharge from Tennant Creek which flows east into the licence area. Aeromagnetic data suggests that beneath cover lies an array of rock types including Warramunga Group sedimentary rocks, Proterozoic granites and Cambrian sedimentary rocks. In the east of the licence area a low-lying range of mostly flat lying Cambrian sedimentary rocks trends north-south and contains small outcrop areas of Warramunga Group rocks.

5. EXPLORATION UNDERTAKEN DURING THE PERIOD 14/8/94 TO 13/8/95

The first year of exploration identified a series of intersecting structural lineaments in the aeromagnetic data, which were geochemically and geologically tested by a regional vacuum drilling programme. The area tested consists of a combination of Cambrian Gum Ridge Formation, Warramunga Group sedimentary rocks and granite concealed by an overlying sequence of alluvial gravel, sand and silcrete lenses. The bedrock geochemistry shows anomalous Au, Cu and Bi trends coincident with both a north trending and an east-south-east trending lineament identified from the aeromagnetic data (Worland, 1993).

During the second year of tenure results for the overburden samples collected during the vacuum drilling programme were received. The 56 overburden samples collected were wet screened prior to the -2mm, +100µm fraction undergoing heavy mineral concentration (HMC). The HMC samples were then analysed for Au, Cu, Bi, Fe, Mn, Pb, Zn, Ag, Cd and Mo at low detection limits by Analabs, Perth. The results offered some encouragement with peak assays of 13 ppb Au, 933 ppm Cu, 8 ppm Bi, 990 ppm Zn and 4,740 ppm Mn.

Both the bedrock and HMC assay results indicated a coincident zone of anomalism which trends WNW through the centre of the grid and is represented by bedrock assays of up to 4 ppb Au, 24 ppm Cu and 5 ppm Bi, as well as HMC assays of up to 13 ppb Au, 533 ppm Cu, 990 ppm Zn and 4,740 ppm Mn.

Based on an interpretation of the low tenor WNW trending geochemical anomaly, a programme of infill bedrock vacuum drilling was planned and implemented to test the coherence of the interpreted anomaly, and validate the initial drilling.

A total of 58 holes (BKSv-057 to BKSv-114) were drilled for 590 metres (average 10.2m/hole). Vacuum drilling was undertaken by Tracey's Drilling of Tennant Creek

using a tractor mounted Edson rig, and holes were spaced at 50m intervals along 12 lines spaced at 125 metres. A total of 58 bedrock samples were collected from the bottom of each hole.

Drilling revealed a sequence of dark grey, highly siliceous chert, sandstones, and saprolitic siltstone beneath variably thick silcrete and calcrete. Several holes were drilled to refusal at 4 to 8 metres in the cherts. These are interpreted to belong to the Cambrian Gum Ridge Formation. Minor saprolitic siltstone was also interpreted possibly belonging to the Warramunga Group.

All bedrock samples were submitted to ALS in Alice Springs for determination of Au, Cu, Bi, Fe and Mn by aqua regia AAS (methods PM205 and G001).

All samples returned very low assay values, with all Au reporting below detection (1 ppb) and peak values of 16 ppm Cu, 5 ppm Bi, 3.63% Fe and 263 ppm Mn.

A total of 12 original vacuum holes were redrilled during this programme. Reinterpretation of the original logs revealed that several of these holes were logged as silicified sediment siltstone/sandstone, and probably inferred to be Warramunga Group when in fact the holes probably intersected silicified cherts of the Cambrian Gum Ridge Formation.

This is reflected in the infill bedrock geochemistry, which did not support the inferred WNW trending zone of subtle anomalism.

6. CONCLUSIONS AND RECOMMENDATIONS

The exploration conducted to date on EL 7821 has identified Warramunga Group rocks overlain by Cambrian Gum Ridge Formation cherts in the central portion of the licence. A weakly anomalous geochemical zone was tested with further infill vacuum drilling, and was not upgraded. Consequently no further work will be undertaken on this prospect.

7. EXPENDITURE STATEMENT FOR THE PERIOD 14/8/94 TO 13/8/95

During the third year of tenure EL 7821 incurred an expenditure of \$8,324 compared with a covenant of \$6,750. A breakdown of the expenditure is detailed below:

EXPENSE	COST
Employee Costs	\$ 1,796
Overheads	\$ 1,310
Assays	\$ 933
Operating Costs	\$ 906
Tenement Costs	\$ 405
Research	\$ 24
Drilling	\$ 2,950
TOTAL	\$ 8,324

8. FUTURE EXPLORATION PROGRAMME

8.1 Proposed Exploration from 14/8/95 to 13/8/96

The exploration programme proposed for EL 7821 for the fourth year of tenure will concentrate on investigation of subtle magnetic anomalies in the eastern section of the licence, which may be representative of ironstones or iron-rich Warramunga Group sediments, which are overlain by outcropping Cambrian basin sediments. Exploration proposed includes geological mapping, rock chip and soil sampling, and a ground magnetics survey to determine the depth and possible source of the magnetic features.

8.2 Proposed Expenditure from 14/8/95 to 13/8/96

To complete the exploration programme for EL 7821 detailed in section 8.1, the expenditure in year four of tenure is anticipated as follows:

EXPENSE	COST
Employee Costs	\$ 2,000
Overheads	\$ 500
Assays	\$ 1,000
Operating Costs	\$ 1,000
Specialist Services	\$ 1,000
Research	\$ 500
	<hr/>
TOTAL	\$ 6,000
	<hr/>

9. REFERENCES

Le Messurier, P. Williams, B.T. and Blake, D.H., 1990. Tennant Creek Inlier - Regional Geology and Mineralisation. *Geology of the Mineral Deposits of Australia and Papua New Guinea* (Ed. F E Hughes), pp 829-838 (The Australasian Institute of Mining and Metallurgy).

Worland, R.J., 1993. Annual Report for EL 7821 for the Period 14/8/92 to 13/8/93, Tennant Creek District. Report to the NTDME. PosGold Limited.

Worland, R.J., 1994. Second Annual Report for Exploration Licence 7821 for the Period 14/8/93 to 13/8/94, Tennant Creek District, NT. Report to the NTDME. No. 13498. PosGold Limited.

APPENDIX ONE

EL 7821 - BARKLY SOUTH PROSPECT
VACUUM DRILLHOLE INFORMATION

EL 7821 - BARKLY SOUTH
VACUUM DRILLHOLE INFORMATION
Vacuum Downhole Lithology

BHID	Easting (AMG)	Northing (AMG)	Sample Number	From (m)	To (m)	Lithology Code
BKSV-057	434500.	7841200.	551771.	1.20	4.00	CHT/Si
BKSV-058	434500.	7841250.	551772.	3.00	5.00	CHT/Si
BKSV-059	434500.	7841300.	551773.	6.00	8.00	CHT/Si
BKSV-060	434500.	7841351.	551774.	5.00	8.00	VOLC/CAL
BKSV-061	434500.	7841400.	551775.	4.00	8.00	SS
BKSV-062	434500.	7841450.	551776.	3.00	7.00	SL/Si
BKSV-063	434500.	7841500.	551777.	4.00	13.00	SL
BKSV-064	434500.	7841551.	551778.	3.00	5.00	SAP/SL
BKSV-065	434375.	7841600.	551779.	5.00	12.00	SAP/clay
BKSV-066	434375.	7841551.	551780.	4.00	6.00	SS/bl
BKSV-067	434375.	7841500.	551781.	3.00	4.00	CHT/Si
BKSV-068	434375.	7841450.	551782.	3.00	8.00	CALCR
BKSV-069	434375.	7841400.	551783.	4.00	5.00	CHT/Si
BKSV-070	434375.	7841351.	551784.	5.00	6.00	CHT/Si
BKSV-071	434375.	7841300.	551785.	5.00	7.00	CHT/Si
BKSV-072	434750.	7841151.	551786.	5.00	8.00	SS/lam
BKSV-073	434750.	7841200.	551787.	4.00	8.00	SL/bl
BKSV-074	434750.	7841250.	551788.	3.00	10.00	SL/SS
BKSV-075	434750.	7841300.	551789.	2.00	23.00	SILC/SAP
BKSV-076	434625.	7841400.	551790.	3.00	15.00	SILC/SAP
BKSV-077	434625.	7841351.	551791.	4.00	8.00	SILCR/SS
BKSV-078	434625.	7841300.	551792.	3.00	11.00	SILCR/SS
BKSV-079	434625.	7841250.	551793.	4.00	8.00	SAP/SL
BKSV-080	434625.	7841200.	551794.	4.00	9.00	SILC/CHT
BKSV-081	434875.	7841050.	551795.	5.00	9.00	CHT/SS
BKSV-082	434875.	7841100.	551796.	5.00	22.00	CHT/V/qv
BKSV-083	434875.	7841151.	551797.	4.00	41.00	NBR
BKSV-084	434875.	7841200.	551798.	4.00	6.00	CHT/SS
BKSV-085	435000.	7841151.	551799.	4.00	9.00	SS/SILCR
BKSV-086	435000.	7841100.	551800.	3.00	5.00	SILC/CHT
BKSV-087	435000.	7841050.	551801.	3.00	6.00	CHT/SS
BKSV-088	435000.	7841000.	551802.	4.00	5.00	CALC/CHT
BKSV-089	435125.	7840900.	551803.	8.00	17.00	SILC/SAP
BKSV-090	435125.	7840951.	551804.	3.00	6.00	SILCR
BKSV-091	435125.	7841000.	551805.	4.00	11.00	SILCR/SS
BKSV-092	435125.	7841050.	551806.	6.00	6.10	NBR
BKSV-093	435125.	7841100.	551807.	6.00	19.00	SL/S
BKSV-094	435250.	7840975.	551808.	5.00	9.00	SAP/SS
BKSV-095	435250.	7840925.	551809.	6.00	21.00	SILC/CHT
BKSV-096	435375.	7840900.	551810.	6.00	10.00	CHT/Si
BKSV-097	435250.	7840875.	551811.	4.00	9.00	NBR
BKSV-098	435250.	7840825.	551812.	4.00	10.00	NBR
BKSV-099	435375.	7840850.	551813.	8.00	21.00	SILC/CHT
BKSV-100	435375.	7840800.	551814.	8.00	11.00	SILCR/Si
BKSV-101	435375.	7840751.	551815.	9.00	9.10	NBR
BKSV-102	435500.	7840700.	551816.	12.00	16.00	SAP/SL
BKSV-103	435500.	7840751.	551817.	6.00	12.00	SLCR
BKSV-104	435500.	7840800.	551818.	6.00	17.00	SILC/CHT
BKSV-105	435500.	7840850.	551819.	8.00	10.00	SILCR
BKSV-106	435625.	7840850.	551820.	6.00	10.00	SILC/CL

EL 7821 - BARKLY SOUTH
VACUUM DRILLHOLE INFORMATION
Vacuum Downhole Lithology

BHID	Easting (AMG)	Northing (AMG)	Sample Number	From (m)	To (m)	Lithology Code
BKSV-107	435625.	7840800.	551821.	8.00	16.00	SILCR/SS
BKSV-108	435625.	7840751.	551822.	8.00	8.10	NBR
BKSV-109	435625.	7840700.	551823.	14.00	17.00	SL
BKSV-110	435625.	7840650.	551824.	10.00	17.00	SILCR/SS
BKSV-111	435750.	7840600.	551826.	6.00	13.00	SILCR
BKSV-112	435750.	7840650.	551827.	10.00	10.10	NBR
BKSV-113	435750.	7840700.	551828.	13.00	13.10	NBR
BKSV-114	435750.	7840751.	551829.	4.00	10.00	SILCR/SS

BHID = DRILLHOLE IDENTIFICATION

LITHOLOGICAL LEGEND

ROCK TYPE: CHT - CHERT
SL - SILTSTONE
SS - SANDSTONE
SILCR - SILCRETE
CALCR - CALCARETE
VOLC - VOLCANIC
SAP - SAPROLITE
NBR - NO BEDROCK INTERSECTED

MINERALOGY/ALTERATION:

clay - CLAY
si - SILICIFICATION
bl - BLEACHED
lam - LAMINATED
qV - QUARTZ VEIN

APPENDIX TWO

EL 7821 - BARKLY SOUTH PROSPECT
VACUUM DRILLHOLE BEDROCK GEOCHEMISTRY

EL 7821 - BARKLY SOUTH
VACUUM DRILLHOLE INFORMATION
Vacuum Assay Bedrock Data

BHID	Sample Number	From (m)	To (m)	AU ppb 1	CU ppm 1	BI ppm 1	FE % 0.01	MN ppm 5
Detection Limit :								
BKSV-057	551771.	1.20	4.00	TR	16.00	TR	1.95	148.00
BKSV-058	551772.	3.00	5.00	TR	5.00	TR	1.51	73.00
BKSV-059	551773.	6.00	8.00	TR	2.00	TR	1.48	91.00
BKSV-060	551774.	5.00	8.00	TR	6.00	TR	1.95	16.00
BKSV-061	551775.	4.00	8.00	TR	3.00	TR	1.87	14.00
BKSV-062	551776.	3.00	7.00	TR	2.00	TR	2.06	12.00
BKSV-063	551777.	4.00	13.00	TR	1.00	TR	1.33	TR
BKSV-064	551778.	3.00	5.00	TR	4.00	TR	1.04	54.00
BKSV-065	551779.	5.00	12.00	TR	1.00	TR	1.20	17.00
BKSV-066	551780.	4.00	6.00	TR	4.00	5.00	0.99	165.00
BKSV-067	551781.	3.00	4.00	TR	4.00	TR	1.15	18.00
BKSV-068	551782.	3.00	8.00	TR	2.00	TR	0.16	7.00
BKSV-069	551783.	4.00	5.00	TR	8.00	TR	1.57	17.00
BKSV-070	551784.	5.00	6.00	TR	7.00	TR	2.10	113.00
BKSV-071	551785.	5.00	7.00	TR	15.00	TR	1.10	263.00
BKSV-072	551786.	5.00	8.00	TR	6.00	TR	1.78	21.00
BKSV-073	551787.	4.00	8.00	TR	5.00	3.00	1.02	23.00
BKSV-074	551788.	3.00	10.00	TR	4.00	1.00	1.38	24.00
BKSV-075	551789.	2.00	23.00	TR	3.00	TR	0.96	21.00
BKSV-076	551790.	3.00	15.00	TR	3.00	TR	0.25	TR
BKSV-077	551791.	4.00	8.00	TR	4.00	TR	1.06	15.00
BKSV-078	551792.	3.00	11.00	TR	4.00	TR	0.81	22.00
BKSV-079	551793.	4.00	8.00	TR	5.00	TR	0.95	95.00
BKSV-080	551794.	4.00	9.00	TR	4.00	1.00	0.93	20.00
BKSV-081	551795.	5.00	9.00	TR	3.00	TR	1.55	19.00
BKSV-082	551796.	5.00	22.00	TR	3.00	TR	0.75	25.00
BKSV-083	551797.	4.00	41.00	TR	7.00	TR	1.47	141.00
BKSV-084	551798.	4.00	6.00	TR	6.00	TR	1.19	39.00
BKSV-085	551799.	4.00	9.00	TR	12.00	TR	0.41	8.00
BKSV-086	551800.	3.00	5.00	TR	7.00	TR	1.16	31.00
BKSV-087	551801.	3.00	6.00	TR	4.00	TR	1.43	14.00
BKSV-088	551802.	4.00	5.00	TR	5.00	TR	1.36	34.00
BKSV-089	551803.	8.00	17.00	TR	1.00	TR	0.17	6.00
BKSV-090	551804.	3.00	6.00	TR	5.00	TR	0.84	17.00
BKSV-091	551805.	4.00	11.00	TR	4.00	TR	1.42	149.00
BKSV-092	551806.	6.00	6.10	TR	5.00	TR	1.77	27.00
BKSV-093	551807.	6.00	19.00	TR	1.00	TR	1.49	18.00
BKSV-094	551808.	5.00	9.00	TR	4.00	1.00	1.80	23.00
BKSV-095	551809.	6.00	21.00	TR	2.00	TR	1.15	8.00
BKSV-096	551810.	6.00	10.00	TR	6.00	TR	1.73	35.00
BKSV-097	551811.	4.00	9.00	TR	7.00	TR	2.07	41.00
BKSV-098	551812.	4.00	10.00	TR	6.00	TR	1.92	41.00
BKSV-099	551813.	8.00	21.00	TR	2.00	TR	0.72	219.00
BKSV-100	551814.	8.00	11.00	TR	3.00	TR	1.84	14.00
BKSV-101	551815.	9.00	9.10	TR	3.00	TR	3.63	65.00
BKSV-102	551816.	12.00	16.00	TR	7.00	TR	1.92	16.00
BKSV-103	551817.	6.00	12.00	TR	3.00	TR	2.33	147.00
BKSV-104	551818.	6.00	17.00	TR	5.00	TR	1.36	25.00
BKSV-105	551819.	8.00	10.00	TR	7.00	TR	1.42	27.00

EL 7821 - BARKLY SOUTH
VACUUM DRILLHOLE INFORMATION
Vacuum Assay Bedrock Data

BHID	Sample Number	From (m)	To (m)	AU ppb 1	CU ppm 1	BI ppm 1	FE % 0.01	MN ppm 5
Detection Limit :								
BKSV-106	551820.	6.00	10.00	TR	3.00	TR	2.08	45.00
BKSV-107	551821.	8.00	16.00	TR	8.00	TR	0.84	50.00
BKSV-108	551822.	8.00	8.10	TR	4.00	TR	1.98	42.00
BKSV-109	551823.	14.00	17.00	TR	3.00	TR	1.93	10.00
BKSV-110	551824.	10.00	17.00	TR	3.00	TR	2.37	13.00
BKSV-111	551826.	6.00	13.00	TR	7.00	TR	2.57	105.00
BKSV-112	551827.	10.00	10.10	TR	6.00	TR	2.80	32.00
BKSV-113	551828.	13.00	13.10	TR	4.00	TR	3.01	149.00
BKSV-114	551829.	4.00	10.00	TR	4.00	TR	1.98	21.00

TR = LESS THAN DETECTION

APPENDIX THREE

BIBLIOGRAPHIC DATA SHEET

BIBLIOGRAPHIC DATA-SHEET

REPORT NUMBER

REPORT NAME

THIRD ANNUAL REPORT FOR EXPLORATION
LICENCE 7821 FOR THE PERIOD 14/8/94 TO
13/8/95, TENNANT CREEK DISTRICT, NORTHERN
TERRITORY, BARKLY SOUTH PROSPECT

PROSPECT NAME(S)

EL 7821
BARKLY SOUTH PROSPECT

OWNER/JV PARTNERS

POSGOLD LIMITED

KEYWORDS

VACUUM DRILLING
GEOCHEMICAL SAMPLING
WARRAMUNGA GROUP
GUM RIDGE FORMATION

COMMODITIES

GOLD

TECTONIC UNIT

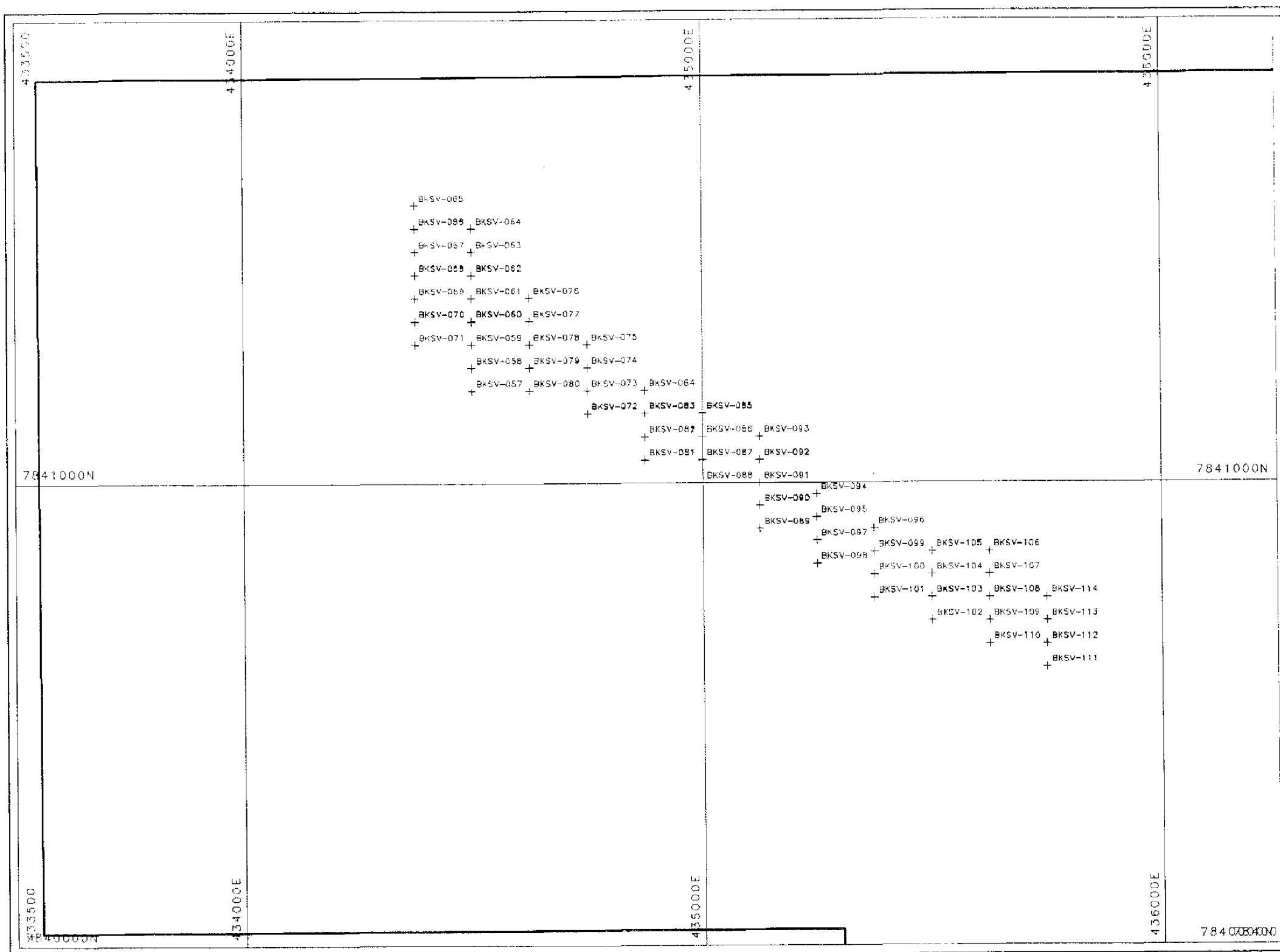
TENNANT CREEK INLIER
GEORGINA BASIN

1:250,000 MAP SHEET

TENNANT CREEK SE 53-14

1:100,000 MAP SHEET

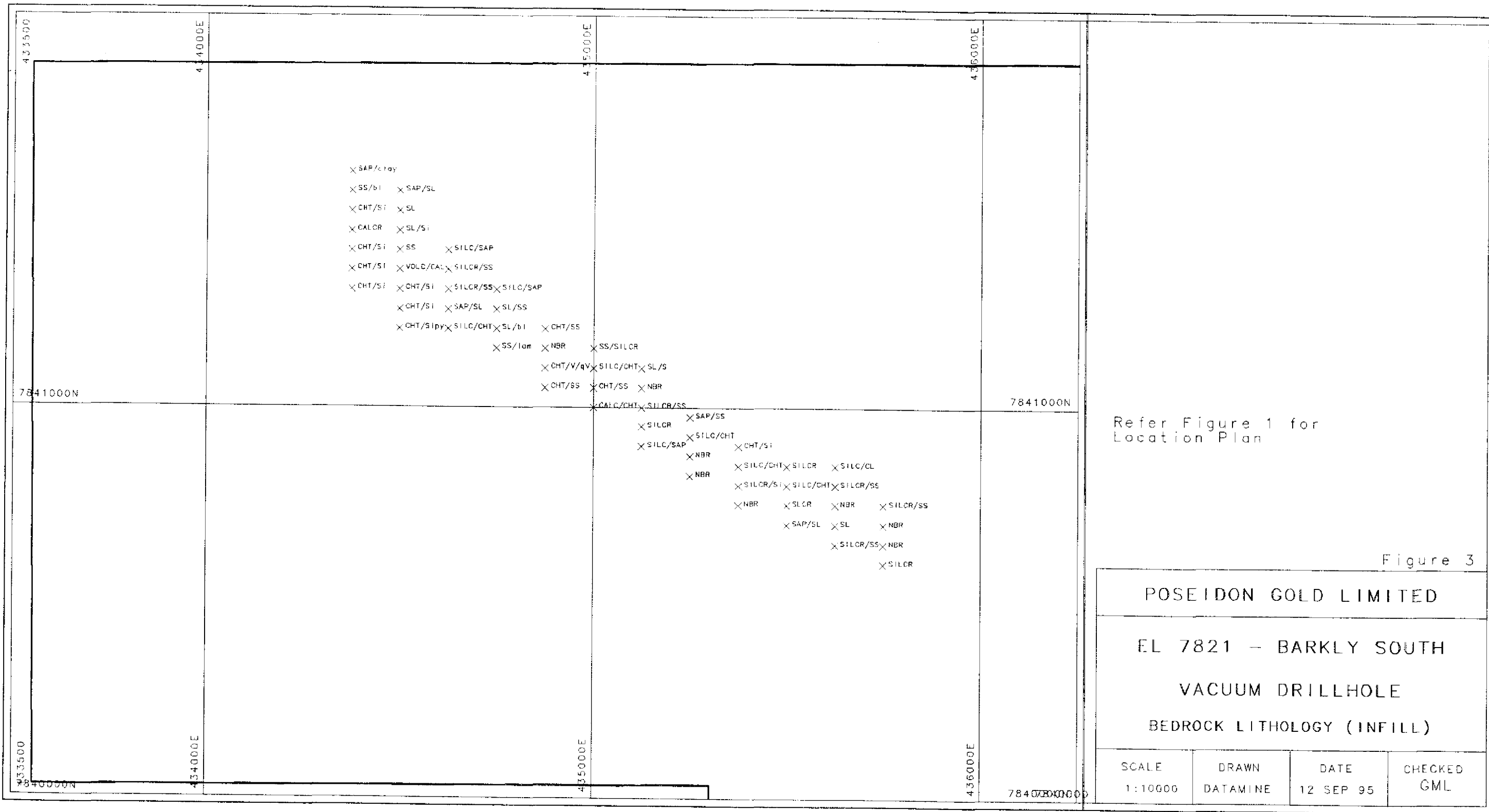
TENNANT CREEK 52/5

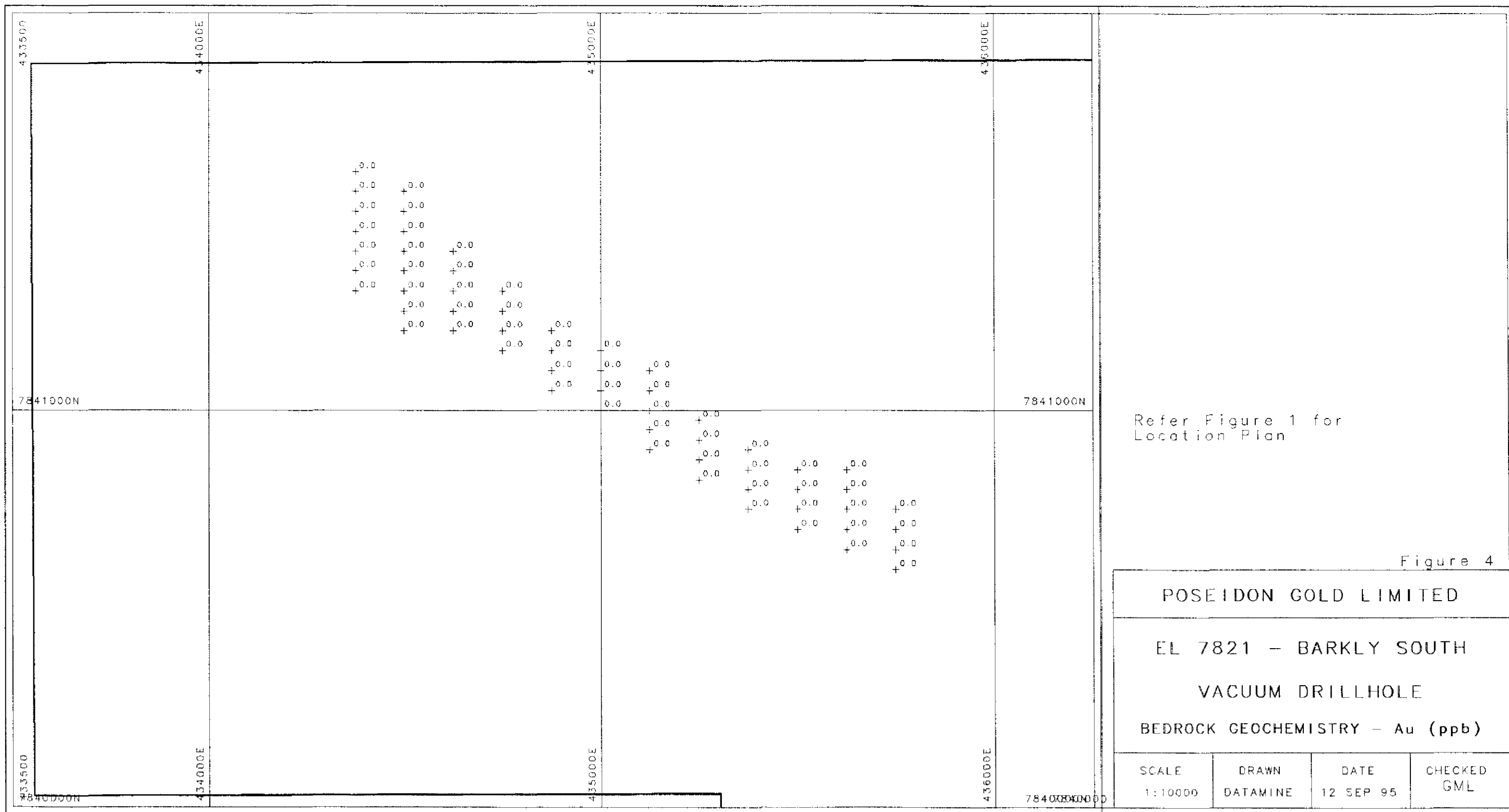


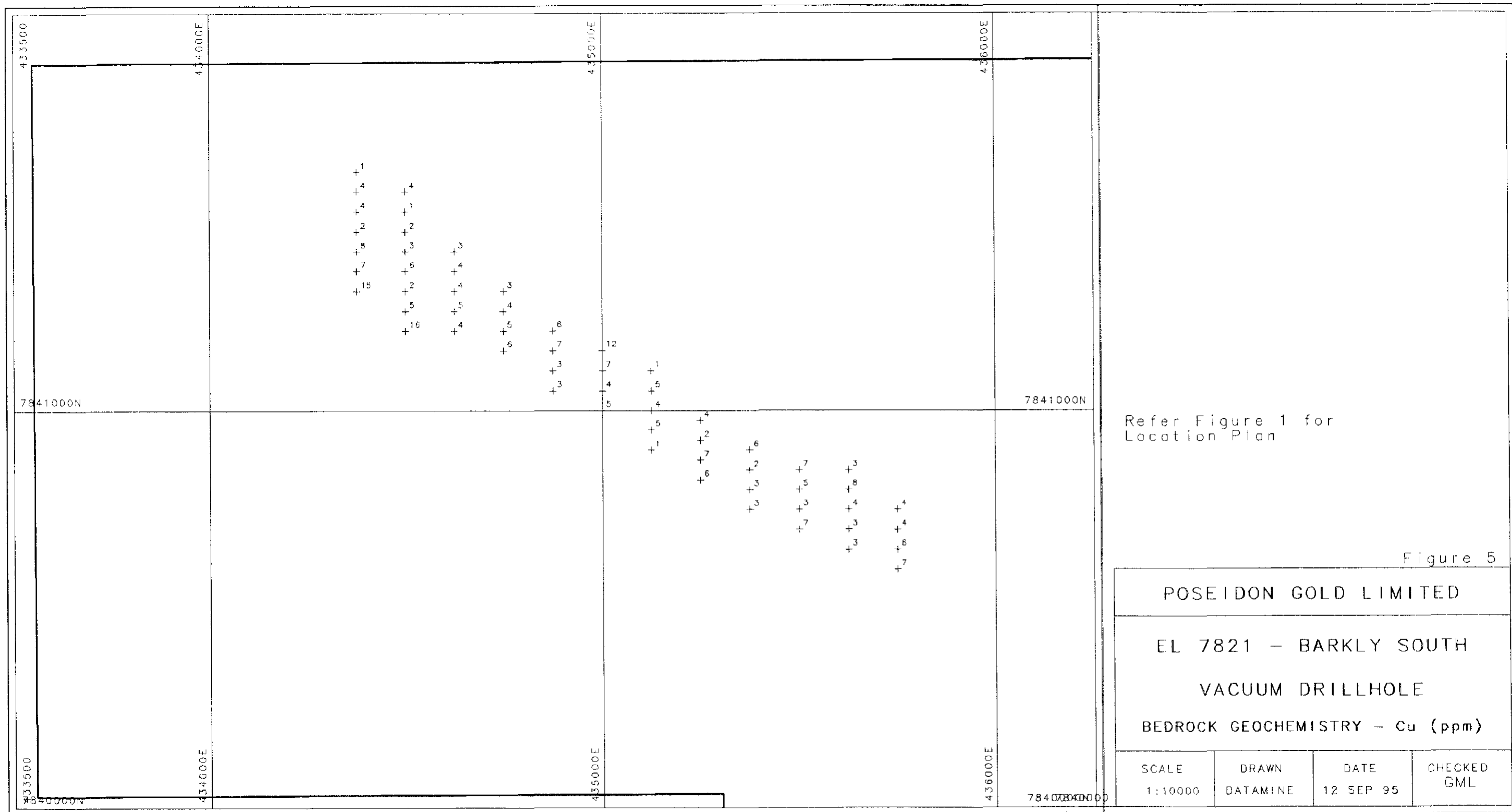
Refer Figure 1 for
Location Plan

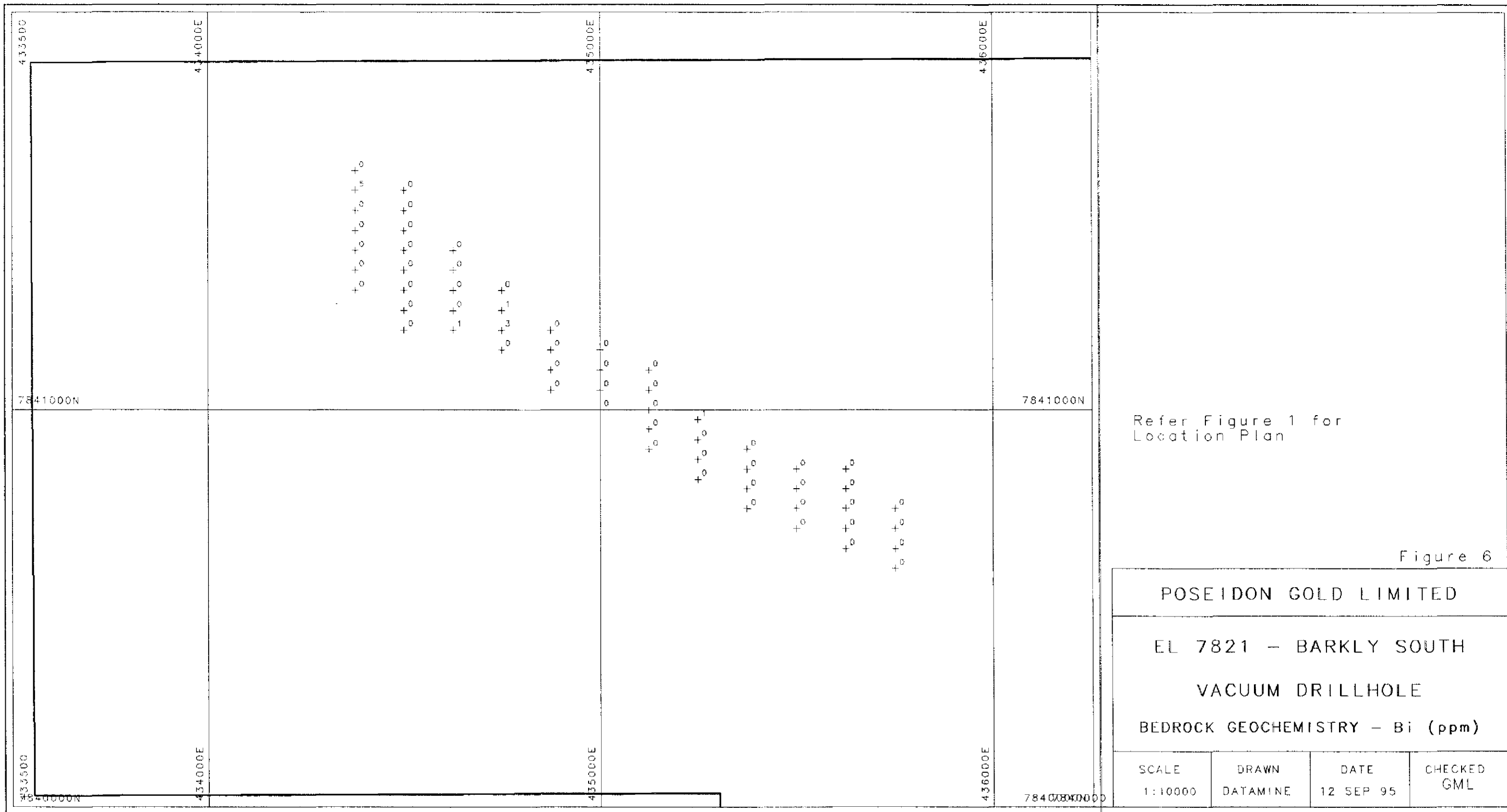
Figure 2

POSEIDON GOLD LIMITED			
EL 7821 - BARKLY SOUTH			
VACUUM DRILLHOLE			
LOCATION PLAN (INFILL)			
SCALE 1:10000	DRAWN DATAMINE	DATE 12 SEP 95	CHECKED GML









Refer Figure 1 for
Location Plan

Figure 6

