Open File Envelope No. 6975

EL 1447

TOLMER

PROGRESS REPORTS TO LICENCE EXPIRY FOR THE PERIOD 27/11/87 TO 26/5/88

Submitted by Tarcoola Gold Ltd 1988

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Enquiries: Customer Services

Ground Floor

101 Grenfell Street, Adelaide 5000

Telephone: (08) 8463 3000 Facsimile: (08) 8204 1880



MESA NO.

ENVELOPE 6975

TENEMENT:

EL 1447 Tolmer

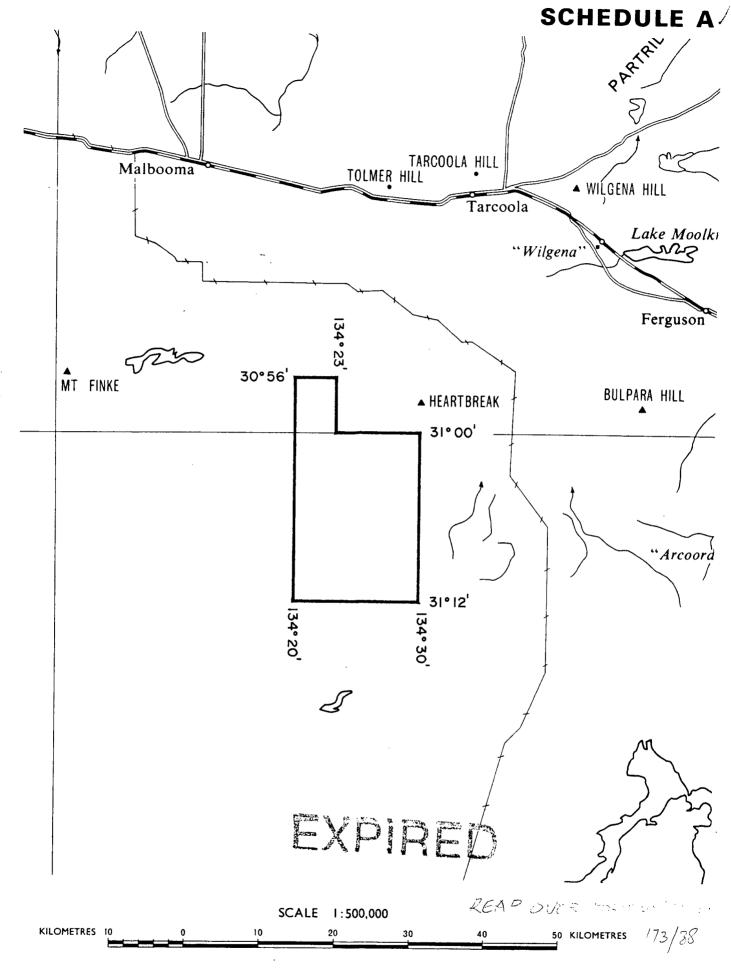
TENEMENT HOLDER:

Tarcoola Gold Limited

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APPLICANT:

TARCOOLA GOLD LTD.

DME 197/87

AREA:

388 square kilometres (approx.)

1:250000 PLANS:

TARCOOLA

CHILDARA

LOCALITY:

TOLMER AREA — approx. 40 km southwest of Tarcoola

DATE GRANTED: 27-11-87

DATE EXPIRED: 26-5-88

EL No: 1447

TARCOOLA GOLD LTD

FIRST QUARTERLY REPORT ON EXPLORATION LICENCE NO.1447
TOLMER,

SOUTH AUSTRALIA

FOR PERIOD

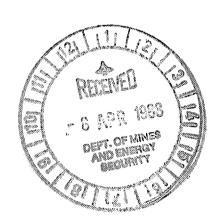
ENDING 26 FEBRUARY 1988

Adelaide February, 1988 Genesio Circosta Geologist

DISTRIBUTION

COPY

SA Department of Mines & Energy Tarcoola Gold Ltd ORIGINAL 1



KEYWORDS

TOLMER

EL 1449

GEOPHYSICAL INTERPRETATION

TRACK LOCATION

GROUND MAGNETOMETER SURVEY

CHILDARA SH 53-14

TARCOOLA SH 53-10

RAB DRILLING

CONTACT AUREOLES

GREENSTONES

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- 1. SUMMARY
- 2. INTRODUCTION
- 3. AEROMAGNETIC INTERPRETATION
- 4. GROUND MAGNETICS
- 5. FUTURE PROGRAM

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1. RAW GROUND MAGNETIC DATA

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3.	MAGNETIC INTENSITY DIAGRAM - SOUTH LINE 1,000 - 5,000 METRES, EL 1447 TOLMER	
4.	MAGNETIC INTENSITY DIAGRAM - SOUTH LINE 10,000 - 11,400 METRES, EL 1447, TOLMER	
5.	MAGNETIC INTENSITY DIAGRAM - NORTH LINE 7,000 - 12,000 METRES, EL 1447 TOLMER	

PLANS (IN POCKET)

PLATE 1. GEOPHYSICAL INTERPRETATION OF REGIONAL AEROMAGNETIC MAP OF THE TOLMER/SOUTH MOUNT FINKE AREA ELS 1447/1414. 1:100,000 scale.

1

1. SUMMARY

Only ground magnetics have been carried out in the Tolmer area to date. This work was concentrated on areas of high magnetism along two access tracks denoted the northern and southern lines. Due to absence of outcrop, bedrock geochemistry will involve the drilling of RAB holes to obtain fresh samples of bedrock.

2. INTRODUCTION

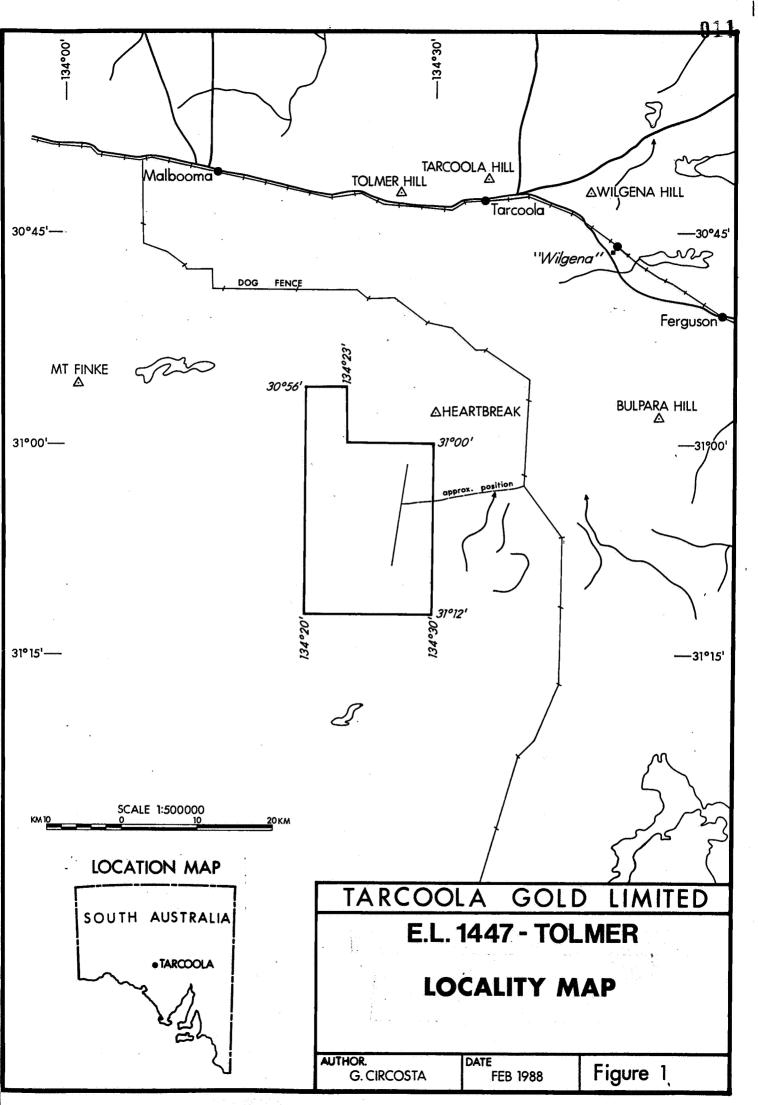
This is the first quarterly report to the South Australian Department of Mines and Energy for exploration Licence No. 1447, Tolmer, being for the period November 27th 1987, to February 26th 1988.

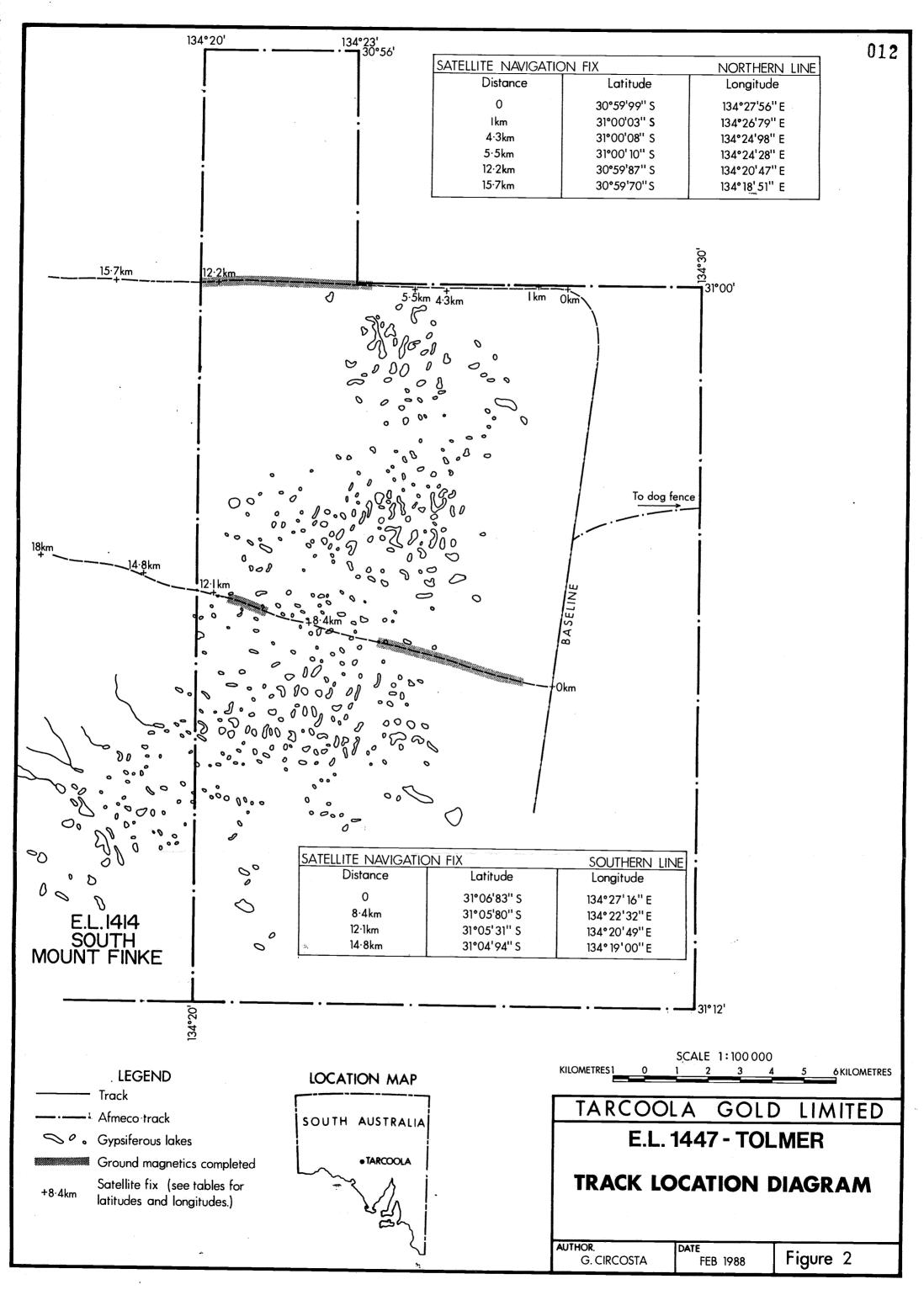
The Tolmer licence covers an area of about 388 square kilometres just to the east of EL 1414 Mount Finke South and approximately 35 kilometres southwest of Tarcoola. The licence was granted to Tarcoola Gold Ltd on 27 November 1987 for a period of six months.

The licence area is located on the Childara (SH53-14) and Tarcoola (SH53-10) 1:250,000 map sheets (Fig. 1). The lease is thought to be underlain by Hiltaba Granite and consists entirely of recent aeolian gypsiferous dunes and flats and aeolian sand dunes. No known outcrops of basement lithologies are known.

Access is from the Dog Fence to the east via a previous exploration track made by Afmeco in 1981 (Fig. 1). Tarcoola Gold has dozed tracks into its Mount Finke South lease (EL 1414). These tracks are denoted the northern and southern tracks in this report and are located on Fig. 2.

The area was applied for to compliment EL 1414 - Mount Finke South where reinterpretation of the published BMR aeromagnetic data indicated several interesting structures.





3. AEROMAGNETIC INTERPRETATION

An interpretation of existing regional aeromagnetic data was completed by Peter Woyzbun, consulting geophysicist. This interpretation included the South Mount Finke - Tolmer area. His work delineated two granite intrusions, presumably the Hiltaba Granite Suite, which are bounded on the eastern side by contact aureoles. These aureoles are marked by zones of high magnetism and have also been interpreted as greenstone belts. The main magnetic features are represented on Plate No. 1. which gives an overview of the magnetics in the Tolmer and Mount Finke South areas These arcuate zones have been tested by ground magnetics to locate drill targets.

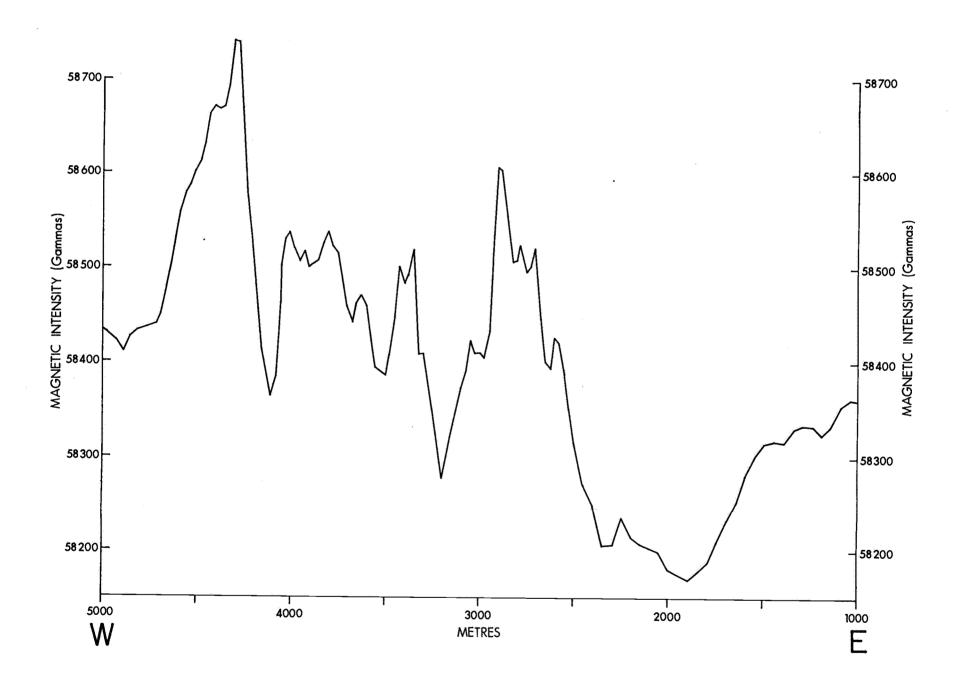
4. GROUND MAGNETICS

Ground magnetometer surveys were undertaken along the northern and southern access tracks. This work was completed over:

- 1) south line 1,000 5,000 metre marks to accurately define the zone of high magnetism.
- 2) south line 10,000 = 11,400 metre marks to try and locate the interpreted aeromagnetic fault line.
- 3) north line from 7,000 12,000 metre mark to accurately define the zone of magnetic high observed on the aeromagnetic data.

The location of these three zones is shown on Fig. 2. Profiles for each of the three areas above are represented on Figs. 3,4 and 5. Raw magnetic data appears as Appendix 1.

Each profile shows distinct highs and lows which will be tested by drilling once weather conditions are more suitable.



LOCATION MAP



TARCOOLA GOLD LIMITED

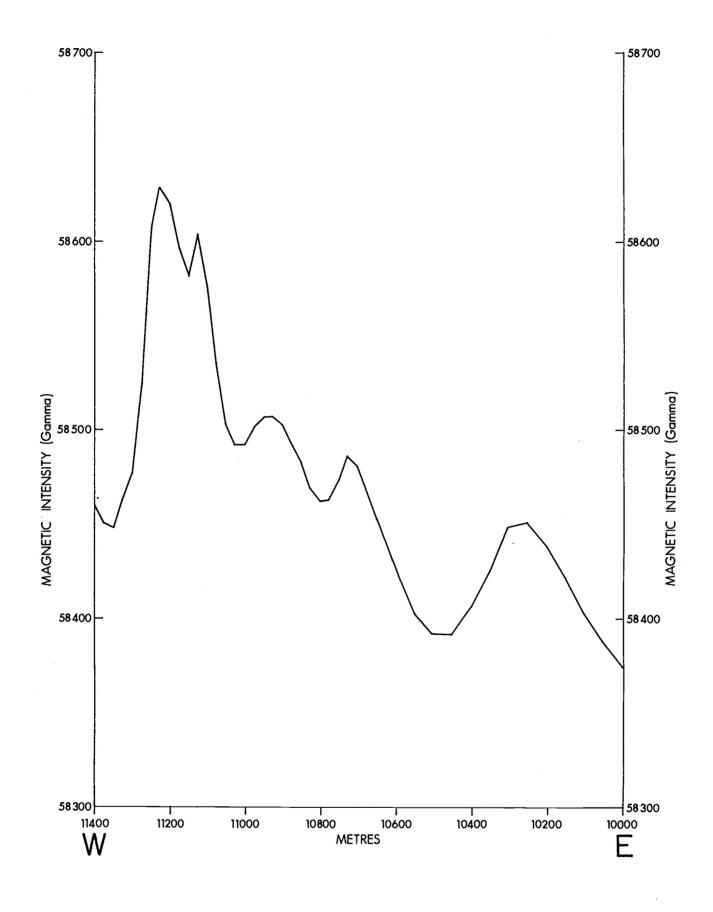
E.L. 1447 - TOLMER

MAGNETIC INTENSITY DIAGRAM

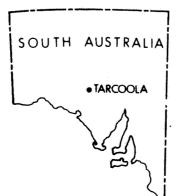
Southern Line
1000 - 5000 m

AUTHOR, G. CIRCOSTA DATE FEB 1988

Figure 3



LOCATION MAP



TARCOOLA GOLD LIMITED

E.L. 1447 - TOLMER

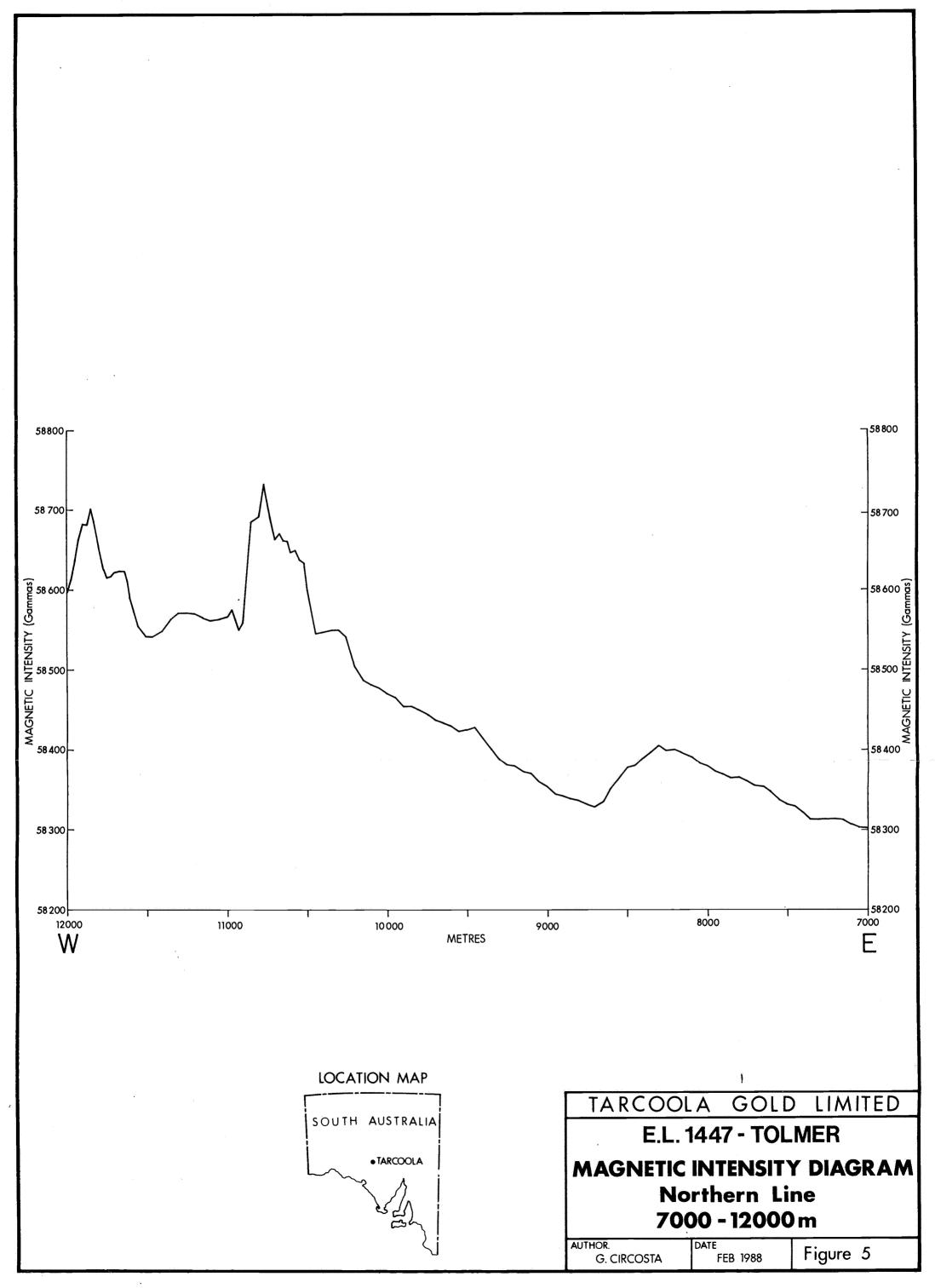
MAGNETIC INTENSITY DIAGRAM
Southern Line

FEB 1988

Figure 4

10000-11400m

G. CIRCOSTA



5. FUTURE PROGRAM

It is planned that bedrock geochemistry will be carried out in the Tolmer area. Due to the absence of outcrop this will involve drilling of RAB holes to obtain fresh bedrock samples

EL 1449

TOLMER

Statement of Expenditure Incurred from November 27th 1987 to February 26th 1988.

Geological & Geophysical cost Drilling Cost	2,858.86
Logistics	2,619.64
Depreciation Administration (5%)	273.93
TOTAL:	5,752.43
	And the second s

APPENDIX 1 MAGNETIC INTENSITY DATA SHEETS

TARCOOLA GOLD LTD

Ground Magnetics

Licence: EL 1447 / Tolmer

Area: 1000 - 5000 m mark of

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Loop Drift: -5.6 nTs Meter: Geometrics G856 Ab

Drift Rotte: 2.86 nTs/hour Date: 3/9/87

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		355.5	27-25	583556
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1250		330.16	30.44	58330.7
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1350		325.7	32:54	583261
		3/3/3	33:59	58313.7
1400	•	3/7.2	35.36	58 317.7
1450	•	3/2'0	36:41	58312.5
530	•	291.4	37.52	58300
' <u>550</u>	•	277:5	38-36	IS 278·1
·	•	254.0	39.36	582551
1650		229.9	40.21	58230.6
700	•	2.06.1	41.54	58206.9
750	4	/84·3	42.40	58 185.2
1800		176.6	44-11	58177.5
1850	*	165.7	45 29	58165.7
1900		1579	47.05	58158.9
1950		1706	47.51	58171.7
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Ground Magnetics

1447/ Tolmer Licence : EL

1000 - 5000 m mark of main Area :

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Operator:

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ine No neters)	Station No	Reading nT	Time	Reduced Value
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2200	•	2/2.4	.51.41	58213.7
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2300	•	201:2	53:39	58202.5
2350	*	2018	55:04	582 <i>03-</i> 2
2400	•	246.0	55.51	58247-4
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2450 2500	•	3/0.9	57.42	<i>5</i> 83/2:4
2525	31	348.3	8:59:55	583499
		385.4	9.00.22	58387·/
2550		4175	9.00.49	58419-2
2575		423.1	1.14	59424-8
_2600.		390.3	2:45	58 392.1
2625	مود شمار المدار المداري المستقد المستدالي	397:3	3:/3	58399.1
2650		743.5	3.44	58445-3
2675 2700		¥ 5/8:0	4.10	58519.9
•		4976	5.09	58499.5
2725	•	491.9	5.36	58493.9
2750	•	* 520.2	605	58522.2
2775		50×14	6.32	585064
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2850	مد د دیون کید د کشت میداد د		8.19	58601.0
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Ground Magnetics

Page 3 of 5

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Loop Drift:

Drift Rate:

hours

Operator:

~ T4

Meter

nts/hour

Date:

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2975		1 400.9	10.59	58403.1
3000		406:5	11.26	58408.7
3 <i>0</i> 2 <i>5</i>	•,	406.4	12:32	58408.7
3050		. 42010	13:07	58422.3
3 <i>075</i>	,	3876		58389.9
3100	54	368.3	14.02	58370.6
3150		313.9	16:19	583164
3200	• 	274.3	17.04	58276.8
		345,3	18.29	58347.9
32 <u>50</u>	•	406.5	19:40	58408.1
3325	59	456.4	21.26	58 408 · 1
3350	*	575.1	23,00	58517.9
		487.7	23.28	58490.5
3375		478.2	14.05	58481.0
3400		496.5	24.53	58 49Q·4
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347.5		401.7		58386.2
3500		383:3	26.25	58389.8
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3600.	•	466.2	29.52	58469.3
3625 3450	72	584181	9.30.20	58451.2

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Ground Magnetics

Page 4 of 5

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hours

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s Meter

nts/hour Date

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3725	y y a value a junt dissert in	487.9	32:24	58492.2
3750		5/0.0	32.53	58513.2
3775	•	519.3	33.2/	<i>5</i> 8522.5
38 9 0	. *	532.7	33.47	58536.0
382 <i>5</i>		5215	3 4 33	58524.8
3850		571.8	35.03	58505.1
	<u>.</u>	499.8	35.32	585031
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3900		511.3	36.34	<i>5</i> 8514•7
3925 2800	•	501.5	37.05	58505.0
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3975 4000	86	531.8	39:/2	58535.3
		5244	4042	58528.0
4025		4581	41.09	58461.7
4075	•	379.5	41.38	58383.1
4100	. <u> </u>	3579	42:06	58361-7
<u> </u>		407.5	4314	58411.3
4150-	a a series and a s		4400	58525:4
4200		521.6 Sev	46:00	58572:0
4225	-	568 <u>1</u> 663.0	46.27	586669
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Ground Magnetics

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		657:0	50:57	58661.1
425	2	625.U	51.25	58629.5
450	· ·	607.4	51:51	58611-5
1475 -500	<u>.</u>	595.2	52:16	58599.3
		581.5	52.46	58585.7
1525	6	572.9	5314	58577·I
4-550		553·V	9.53.42	<i>5</i> 8 5 5 7 · 6
<u>4575</u>	8	526.0	10.00.16	58 <i>530·5</i>
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4625	// o	472.5	2,37	58477.1
4650			3.0/	58448:0
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4700	2	433.2	4.50	<i>58434-</i> 3
4750	*	4246	532	58 431.0
4800	<u>.4</u>	476.2	6:55	58417.1
14850		4/2:3		58394.8
4900	<u> </u>	389.9	7.40	58409.1
4950		391.1	940	58 <i>4</i> 31.3
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Ground Magnetics

Page 1 of 2

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1447 / Tolmer

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Licence : EL

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11025		489.3	14.27	58493.3
11050		500:2	14.59	58504.2
11075		533'3	15.3/	58537.5
11400		573.2	16.01	58577.5
11125		599.8	16:55	58604.2
11150	***	5781/	1734	585826
11175		592.4	1803	58597:0
11200		6165	/8:30	58621.2
11225		624.8	19:17	58629.5
11250		604.2	19:47	58609.0
11275		520.0	2017_	585249
11300		472.9	2043	58477.9
11325		457.7	21.31	58462.8
11350		4442	22:03	. 58449.4
11375	and the same and t	446.1	22:32	5845T·4
11400		453.5	23.03	58459.9
10000m BASE	[63	58368.9	//·3/·2/	58375.7

IAKUWLA GOLD LID

Ground Magnetics

Page 1 of 9

(Loop #1)

Licence: EL 1447 / Tolmer/South Fruke

Area:

Northern Line

70-1203 Km.

Loop Time : 2.2

hours

Operator: Genesio. Greosta

Loop Drift:

4.5

nts

Meter: Geometrics 85644

Drift Rocte:

2.03 hts/hour

Date: 4/9/87

, T				
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Base Station	00 m . 288	58 363·8	7.44.45	58 303.8
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•	. 90	58 308.1	47.34	58308.2
7100	. 10	583131	4827	58313.2
7150	•	5% 3147	49.12	58314.8
7200		583136	50.17	58 313.7
7250			51.04	58312.8
7300	<u>.</u>	583126 583132	52.22	58313:4
73:50			53.08	58322.3
7400		583220		58328.9
7450		583286	54.02	58332.7
7590		<u>58 331·9</u>	54.48	58338.9
7550		583386	55.42	58348.9
7600	<u> </u>	<u>58 348 S</u>	<u>56-25</u>	58354·5
7650	•	58 3541	57.25	58354·3
7700	•	58 355.9	58.78	
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7800		£8 3666	8.00.35	58 367.1
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7900		58 367.9	<i>2</i> 13	58368.4
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8450		58 382·V	13.37	58382.9
8500	318	58 377.9	14.24	583784
8550	210	58 365.6	17.52	58366.7
8600	20	58 352.6	18 40	58353.7
8650		58 335.8	19.56	58336.9
8 700		<u>58 328.7</u>	20.46	58329.9
<u> </u>		28 331·1	22118	58332-3
<u> </u>		58 3351	23.09	58336•4
8850 8850		58 339·2	24.22	58 <i>3</i> 40·5
. 4., 1 		58 341·8	25.08	58343,2
8900		58 345·3	26.03	5&346-7
8950	•	58 555·3	26.49	58356.7
9000	•	58 360·S	27:48	58361.9
9050	720		28,33	58372.3
4100	330	58370.8 58275.2	29.37	58376.7
0.50	•	<u>583752</u> 5037815	30.25	58380.0
7200		58378·5	31,22	58381.4
9250		<u>58 379 '9</u> 58 388 '0	32:09	58389·6
9300 9350	•		8.33.07	58401.0
1534			المراجع والمنافذ والم	لليناه فيتمار والمتعارض

Ground Magnetics

Pag 3-69

Licence: EL 1447 / Tolmer/Str Finke

Area

Loop Time :

Loop Drift:

Drift Rocte:

hours

nts

nts/hour

Operator:

Meter:

Date:

Line No (meters)	Station No	Reading n.T	Time	Reduced Value
9400 Base Station		5844.1	8.33.56	58415.7
9450		58 427.1	35.0%	58428.8
9500		58 4235	26.00	58425.2
9550		58 4224	37.31	58424.1
9600	3/0	58 4300	38.19	58431.8
9650		58 432.4	39.33	58434.2
9700		58 4369	40.22	58438-7
9750		58 114.2	41.39	584-46.1
9800		58 418.2	42.27	58450.1
9850		58452.2	43.22	58454.1
9900		E8 453·D	44.09	58455'0
9950	•	58 463.0	4523	58 465:0
10000	34 8	=8 469.2	55114	58471.5
10050		58 475.6	56.43	58478'0
10/00		58 479.2	57:33	58481.6
10150		S8 483·3	58.27	5848517
10200		58 500·S	8:59:13	5850310
10250		58 539 ·I	9.00.14	585416
10300		58 5496	9.01.02	585521
10350		58 5500	9.02.24	585526
10400		58 544 9	9.03.12	58547.5
10450	* * * * * * * * * * * * * * * * * * *	58543`4	9.04.49	58546.0
10500	358	585957	9.05.36	58598.4

Ground Magnetics

Page and 9

Licence: EL 1447 / Tolmes/South Finke

(Leop #1)

Area:

Loop Time :

hours

Operator:

Loop Drift:

nts

Meter:

Drift Rocte:

nts/hour

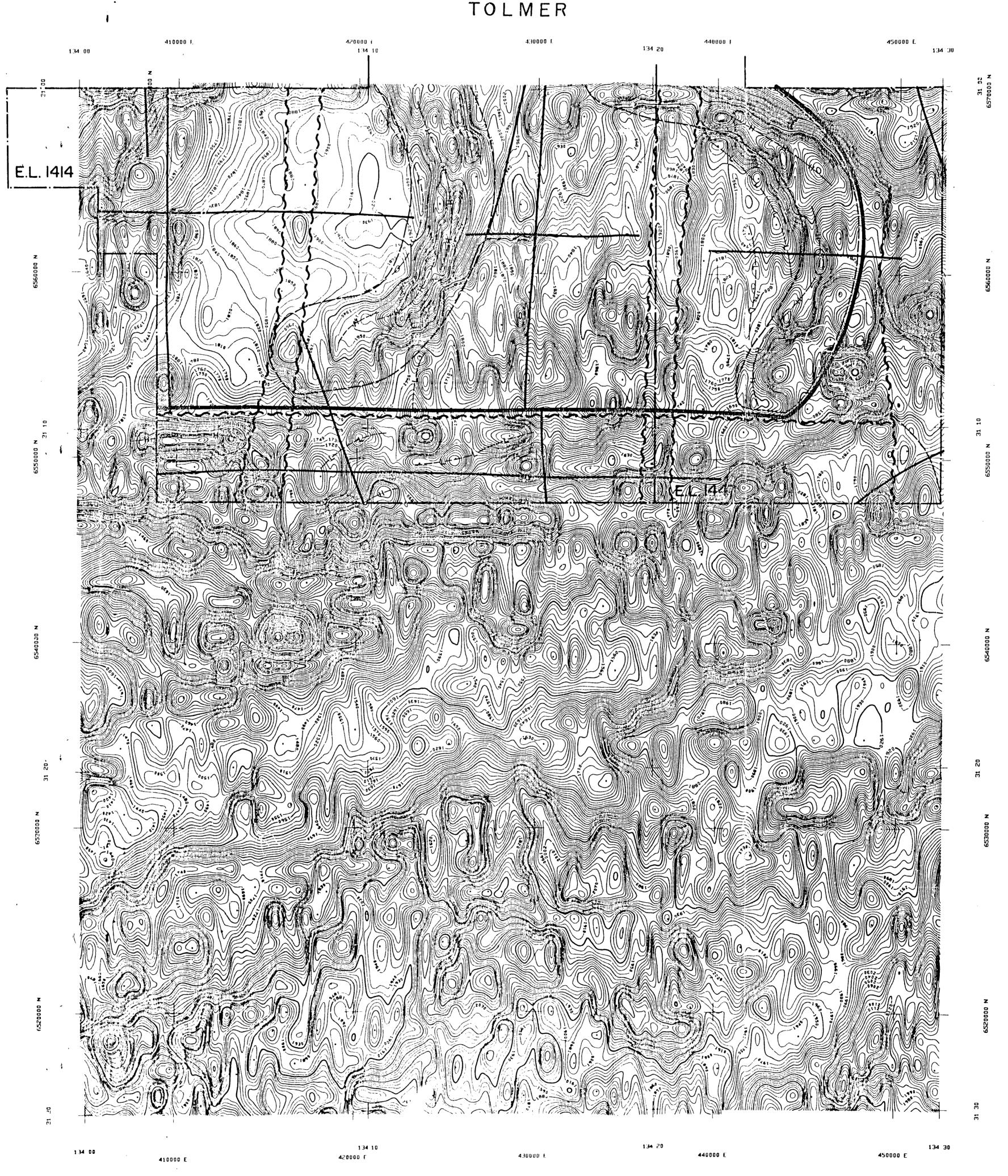
Date

	•	•		
Line No (meters)	Station No	Reading n.T	Time	Reduced Value
10525 Base Station	359	58 631.0	9.06.22	58 <i>5</i> 33·7
10550		58 636 8	07:35	58639.5
10575		58 649.0	08:05	58651.7
10600		58 644.7	08 33	5864-7.5
10625		58657:4	99:11	58660.2
10550		58 658.7	09:38	58661.5
10675		58 669.0	10.06	58671.8
10700_	<u> </u>	58 661.9	lo·37	58664.8
19725	•	58 6869	11:44	58689.8
	• • • • • • • • • • • • • • • • • • •	56 704 9	12.16	587078
19750	al a	£ 58 731·9	12.43	58734.8
10775		58 689 6	13.((58692·5
10825		58 683.4	14.31	28989.7
		58 683·0	15:03	58686.0
19850		58 610·0	15:42	58613.0
12875	<u></u>	58 555·o	1609	58558,0
10900		58 547·6	16:48	585506
10925	and the second s		17.18	58561.4
10950	<u> </u>	58 5583 58 5733	17.49	58576.4
10975	2 50		18.19	58566.2
11000	378	58 56311	19:50	58564.2
11050		58 561·1	20.36	58560.8
11100	•	58 561·6	21.58	58564.8
(1150		58566	9.22.45	58570.0
11200	?			and the second s

(Loop#1) 1447 / Tolner / South Finke Licence : EL Area Loop Time: Operator: hours Meter : Loop Drift: nts Date Drift Rocte: nTs/hour Reduced Value Reading Time Line No Station nT No (meters) 11250 585736 9.23.38 58 570.3 382 Base-Giation 585748 24.25 52 571.5 11300 58562·5 58 539.2 25.39 11350 58549.7 58 5463 26.29 11400 585425 58 5391 27.21 11450 585427 28.08 58 539.3 11500 58556·B **经** 5533 29.18 11550 58592.4. 52 588.9 20.12 11600 58609.7 391 30.51 58 6062 11625 58622.6 56 619.1 32.03 11050 58623.4 58 619.8 32.32 11675 58621.0 58 617.4 33.05 11700 58616.2 58 612.6 33.55 1/725 58615.8 34.24 58 612.3 11730 586250 58 621.4 34.51 11775 58654.7 35.21 58 6510 11 200 586857 36.05 58 6820 11825 587020 58 698.3 36.32 * 0 11:50 58630.7 36.59 58 (77°O 11875 586810 58677.3 37.26 11900 58662.9 38,06 586591 11925 586379 38,36 58 634D 11950 58615 1 39.01 11975 9.39.27 58598.1 58*5*943 <u> 28303'8</u> 17 000 9.57.06 58 2993 7000m Base It.

Ground Magnetics

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TARCOOLA GOLD LIMITED

PITT RESEARCH PTY.LTD. .

Suite 4, 250 Pacific Highway, Crows Nest, 2065, Australia.

DATA PROCESSING AND MAPPING Processed by: Pitt Research Pty Ltd. Contour maps compiled from data acquired by the Bureau of Mineral Resources.

Contour interval
Grid size

: 10 nT : 250m/250m

GEOPHYSICAL ZONE BOUNDARY GEOLOGICAL BOUNDARY MAGNETIC DISCONTINUITY

FAULT MAGNETIC HIGH TREND MAGNETIC LOW TREND

TOTAL MAGNETIC INTENSITY CONTOURS

2000 4000 6000 8000 10000 Metres

SCALE: 1:100,000

GEOPHYSICAL INTERPRETATION P. WOYZBUN, 1987

JELLABINNA	TOLMER	MEELERA
5635	5735	5835
KALAMBI	PUREBA	CHILDARA
5634	5734	5834

SHEET 5735-TOLMER



TARCOOLA GOLD LTD.

1st Fl., 68 North Terrace, Kent Town, South Australia 5067 Postal Address: P.O. Box 2010 Kent Town, South Australia 5071 Telex: AA88765 (Att. AD998) Facsimile: (08) 363 1920 Telephone: National (08) 363 1663 International + 618 363 1663

File ref: P.70.40

10 September 1988

Director-General Department of Mines & Energy PO Box 151 EASTWOOD SA 5063

Dear Sir,

SECOND QUARTERLY REPORT ON EL 1447, TOLMER, FOR PERIOD FEBRUARY 27TH TO MAY 26TH 1988

During this period no fieldwork was undertaken within the EL.

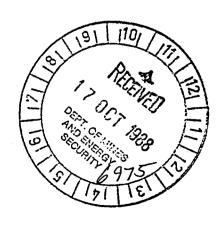
Reassessment of previous work within this and adjoining ELs has lead us to relinquish both this EL and EL 1414. Parts of these ELs have been incorporated within a new EL that we have applied for.

We are currently considering a RAB drilling program within this EL but work cannot commence until the details of the new EL have been finalized.

Yours faithfully,

JUSTIN GUM GEOLOGIST

jg:vc tolmer2q



EL 1447

TOLMER

Statement of Expenditure Incurred from February 28th to May 27th 1988

Geological and geophysical	\$775.50
Drilling	- v
Logistics	\$250.51
Depreciation	
Administration	
Total	\$1,026.01
Cumulative total	
Cumulative total 27th November 1987 to 27th May 1988	\$6,599.99