

WESTERN MINING CORPORATION LIMITED
EXPLORATION DIVISION

REPORT ON AREA RELINQUISHED FROM

E.L. 7636 (GIGANTIC EAST)

MARCH 1994

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Pasadena, S.A.
June 1994

Distribution:

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Map Reference:

1:250,000 SE 53-14 TENNANT CREEK
1:100,000 5658 TENNANT CREEK

CR 94/587

SUMMARY

Exploration Licence 7636 is located approximately 30 kilometres east of Tennant Creek. This is a report on the four sub-blocks which were relinquished from the EL on its second anniversary, 12 March 1994.

A 500 x 500 metre gravity survey which was begun in 1992 was continued in 1993. Processing of the data yielded little encouragement in the area being relinquished.

All of the area being relinquished was flown with a detailed aeromagnetic and radiometric survey in June 1993. Line spacing was 80 metres and mean terrain clearance was 60 metres. Digital data is included in this report.

Outcrop within the area being relinquished is for the most part comprised of rocks later than the target Warramunga Group or equivalents. Although the possibility of discoveries of mineralised magnetic or non magnetic ironstone (or other styles of mineralisation for that matter) beneath the cover rocks cannot be discounted, the area being under report is by far the least prospective of the Exploration Licence and hence is being relinquished to meet statutory requirements.

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} Not located

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2	Digital data for aeromagnetic survey

685/46770

Henry - 2/27
Missy - 2/27

1. LOCATION

The area which is the subject of this report lies approximately 30 kilometres east of Tennant Creek (Figure 1).

Access is via a four wheel drive track originating near the Tennant Creek microwave repeater and which then follows the 'Lone Star' trend of workings to the 'Gigantic' workings. At the 'Gigantic' the track splits to the south (eventually returning to Nobles Nob), east (to the Gum Ridge trig point and area under report) and north-east.

2. TENURE

EL 7636 (Gigantic East) of 9 blocks (26 km²) was granted to WMC and GRM (a 80-20 Joint Venture) on the 13th of March 1992 for a period of 6 years. The EL was applied for to cover the easterly extension of the Gigantic ironstone system and other prospective areas which had not previously been explored by the JV.

The four blocks under report were relinquished on the second anniversary of the EL.

3. REGIONAL GEOLOGY

The regional geology of the Tennant Creek field has been detailed in many recent publications and will not be repeated here. Papers contained in AusIMM Monograph 14 (Geology of the Mineral Deposits of Australia and Papua New Guinea), Volume 1, pp 829-861 would give the reader a good introduction to the regional geology and styles of gold-copper mineralisation of the area.

4. WORK UNDERTAKEN

4.1 SUB REGIONAL GRAVITY SURVEY

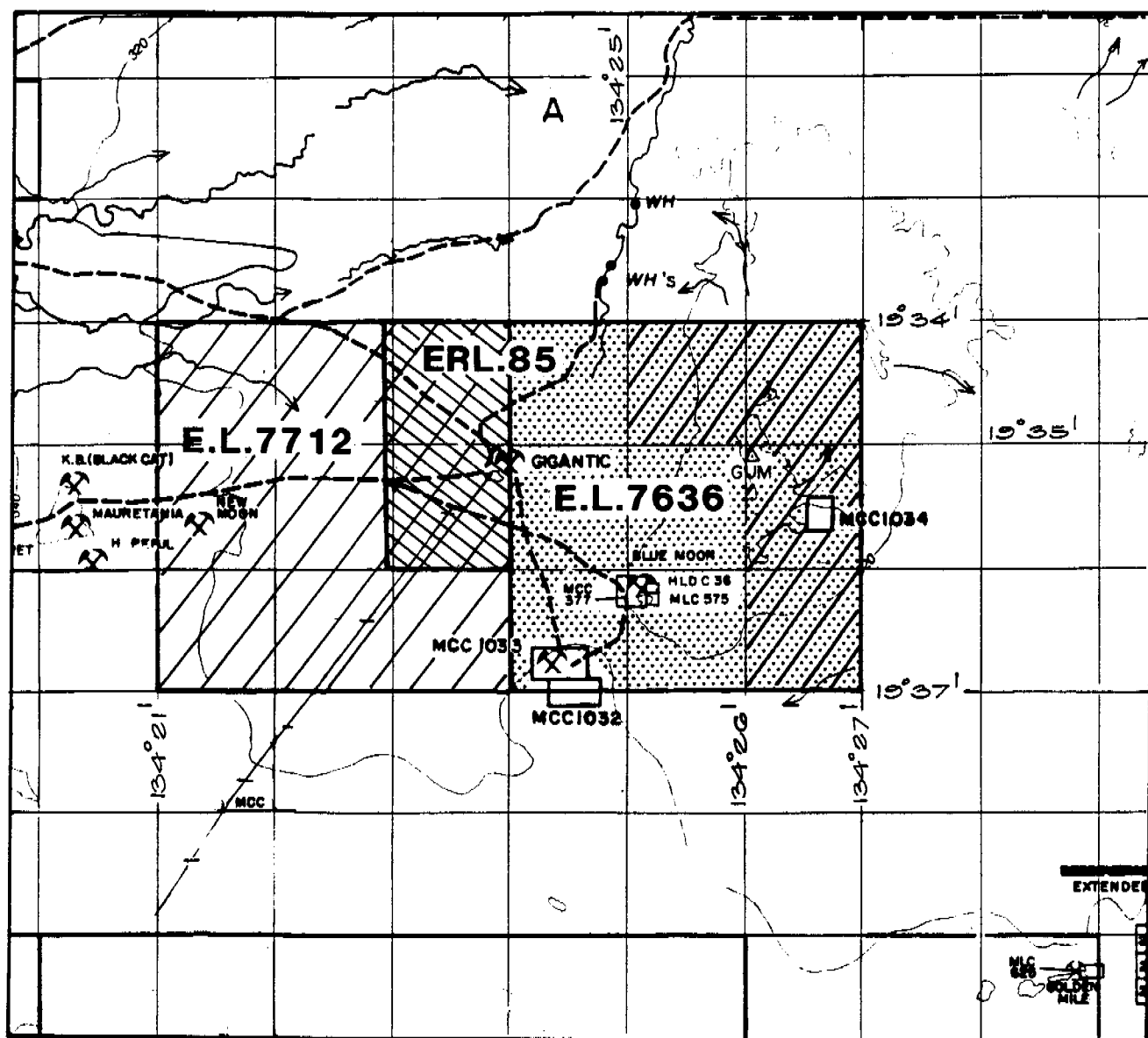
A 500 x 500 metre sub regional gravity survey which was begun in 1992 was completed in 1993. A LaCoste-Romberg G747 gravity meter was used in conjunction with three digital barometers. Comparison to levelled survey points found that the barometer elevations were precise to ± 1 metre, and often better than < 1 metre. AMG position was controlled using a MAGELLAN NAVPRO GPS unit using version 5000 software.

A gravity base station at 7833002 N, 437200 E was used, with an elevation of 302.19 metres and a gravity value of 978536.56 mgals. This base station has been tied into the BMR base gravity station at Tennant Creek airport.

The data (including some open file data) are presented in Appendix 1. Included are AMG and latitude/longitude co-ordinates, observed and bouguer gravity, time and GMT time shift, earth tide data and elevations. Bouguer gravity is presented in contour form in Figure 2.

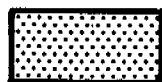
4.2 AEROMAGNETIC SURVEY

In June 1993 the area under report was flown with a detailed aeromagnetic survey. Critical specifications of the aeromagnetic survey were :



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Short Range 52/1	Flynn 52/2	Barkly 52/3
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E.L. 7636



AREA of THIS REPORT
RELINQUISHED MARCH 1994

WESTERN MINING CORPORATION LIMITED - EXPLORATION DIVISION

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GIGANTIC AREA
E.L. 7636.

TENNANT CREEK JOINT VENTURE N.T.

Scale 1:100 000

Figure No. 1

Plan No.
7005/124

Contactor : Austirex International Limited (Job Number 2145)
Flight lines : Traverse lines 80 m apart, bearing 180 - 360 degrees AMG
Tie lines 800 metres apart, bearing 90 - 270 degrees AMG
Mean terrain clearance 60 metres
Magnetometer : Split beam caesium Scintrex V2321
Resolution : 0.001 nanotesla
Cycle rate : 0.1 seconds
Sample interval : 6.0 metres
Navigation : Syledis UHF radio

Standard 1:10,000 plans showing contours of TMI and the flight line diagram are given in Figures 3 and 4. Digital data for the survey, plus radiometrics collected during the survey, are given in Appendix 2.

APPENDIX 1
GRAVITY DATA

Western Mining Corporation - Exploration Division
Tennant Creek Joint Venture
Gravity data for ELs 7636
WMC + open file data
Relinquished area 1994

Base station location : 437200 E, 7833002 N
Base station gravity value : 978522.19 mgal
Base station elevation : 310.50 m
Gravity meter : Lacoste Romberg G747

Survey Id	Line Id	Time No	Station No	Line No	Easting	Northing	Elevation	Raw Dial Divisions	Observed Gravity	Bouguer	Latitude	Longitude	Amg Zone	Density	Date	GMT Time Shift (hr)	Earth Tide
PNC	0		0	1114	0	441700.0	7834250.0	328.600	0.000	978516.438	-31.240	-19.585807	134.444115	53	2.67	0	0.00
PNC	0		0	1113	0	440700.0	7834250.0	348.400	0.000	978511.125	-32.657	-19.585777	134.434580	53	2.67	0	0.00
GNTC	0	1353		1134		439000.0	7835500.0	310.580	2171.450	978515.750	-34.817	-19.574430	134.418412	53	2.67	921021	-9.5
GNTC	0	1402		1135		439500.0	7835500.0	315.590	2170.820	978515.063	-34.482	-19.574445	134.423179	53	2.67	921021	-9.5
GNTC	0	1409		1136		440000.0	7835500.0	319.120	2170.480	978514.750	-34.139	-19.574460	134.427946	53	2.67	921021	-9.5
GNTC	0	1417		1137		440500.0	7835500.0	335.900	2167.170	978511.375	-34.235	-19.574475	134.432713	53	2.67	921021	-9.5
GNTC	0	1423		1138		441000.0	7835500.0	335.910	2167.490	978511.688	-33.908	-19.574490	134.437480	53	2.67	921021	-9.5
GNTC	0	1432		1139		441500.0	7835500.0	329.520	2169.510	978513.750	-33.096	-19.574505	134.442247	53	2.67	921021	-9.5
GNTC	0	1439		1140		441500.0	7836000.0	329.880	2168.740	978512.938	-33.559	-19.569986	134.442262	53	2.67	921021	-9.5
GNTC	0	1445		1141		441000.0	7836000.0	331.900	2167.540	978511.750	-34.391	-19.569972	134.437495	53	2.67	921021	-9.5
GNTC	0	1452		1142		440500.0	7836000.0	333.700	2166.240	978510.375	-35.370	-19.569957	134.432729	53	2.67	921021	-9.5
GNTC	0	1500		1143		440000.0	7836000.0	319.430	2169.310	978513.563	-35.030	-19.569942	134.427962	53	2.67	921021	-9.5
GNTC	0	1508		1144		439500.0	7836000.0	314.800	2170.130	978514.375	-35.099	-19.569927	134.423195	53	2.67	921021	-9.5
GNTC	0	1514		1145		439000.0	7836000.0	312.240	2170.420	978514.688	-35.304	-19.569911	134.418428	53	2.67	921021	-9.5
GNTC	0	745		1156		441500.0	7835000.0	331.350	2169.730	978514.063	-32.704	-19.579023	134.442231	53	2.67	921022	-9.5
GNTC	0	752		1157		441000.0	7835000.0	335.620	2168.330	978512.625	-33.292	-19.579008	134.437464	53	2.67	921022	-9.5
GNTC	0	759		1158		440500.0	7835000.0	327.780	2169.420	978513.750	-33.711	-19.578993	134.432697	53	2.67	921022	-9.5
GNTC	0	806		1159		440000.0	7835000.0	318.190	2171.390	978515.750	-33.572	-19.578978	134.427930	53	2.67	921022	-9.5
GNTC	0	812		1160		439500.0	7835000.0	314.470	2171.890	978516.250	-33.786	-19.578963	134.423163	53	2.67	921022	-9.5
GNTC	0	821		1161		439000.0	7835000.0	311.010	2172.850	978517.250	-33.476	-19.578948	134.418396	53	2.67	921022	-9.5
GNTC	0	935		1170		441000.0	7834500.0	333.890	2169.360	978513.688	-32.784	-19.583527	134.437448	53	2.67	921022	-9.5
GNTC	0	942		1171		441500.0	7834500.0	328.240	2171.110	978515.500	-32.102	-19.583541	134.442216	53	2.67	921022	-9.5
GNTC	0	950		1172		441500.0	7834000.0	331.940	2171.010	978515.375	-31.734	-19.588060	134.442200	53	2.67	921022	-9.5
GNTC	0	957		1173		441000.0	7834000.0	341.880	2168.370	978512.688	-32.484	-19.588045	134.437433	53	2.67	921022	-9.5
GNTC	0	1141		1186		441000.0	7833500.0	341.360	2169.980	978514.313	-31.234	-19.592563	134.437417	53	2.67	921022	-9.5
GNTC	0	1148		1187		441500.0	7833500.0	330.900	2172.450	978516.813	-30.766	-19.592578	134.442185	53	2.67	921022	-9.5
GNTC	0	1155		1188		441500.0	7833000.0	330.480	2173.340	978517.750	-30.199	-19.597096	134.442169	53	2.67	921022	-9.5
GNTC	0	1204		1189		441000.0	7833000.0	330.490	2173.180	978517.563	-30.367	-19.597082	134.437401	53	2.67	921022	-9.5
GNTC	0	1339		1202		441000.0	7832500.0	323.550	2175.250	978519.625	-29.944	-19.601600	134.437386	53	2.67	921022	-9.5
GNTC	0	1347		1203		441500.0	7832500.0	322.560	2175.410	978519.750	-29.982	-19.601615	134.442153	53	2.67	921022	-9.5
GNTC	0	1355		1204		441500.0	7832000.0	317.460	2177.280	978521.688	-29.332	-19.606133	134.442138	53	2.67	921022	-9.5
GNTC	0	1407		1205		441000.0	7832000.0	317.680	2177.520	978521.938	-29.050	-19.606118	134.437370	53	2.67	921022	-9.5
GNTC	0	910		1212		441500.0	7831500.0	314.510	2178.490	978523.000	-28.839	-19.610651	134.442122	53	2.67	921023	-9.5
GNTC	0	919		1213		441000.0	7831500.0	315.060	2178.400	978522.938	-28.816	-19.610637	134.437354	53	2.67	921023	-9.5
GNTC	0	1046		1226		441000.0	7831000.0	313.410	2179.460	978524.063	-28.289	-19.615155	134.437339	53	2.67	921023	-9.5
GNTC	0	1052		1227		441500.0	7831000.0	313.210	2179.570	978524.125	-28.217	-19.615170	134.442107	53	2.67	921023	-9.5
		959		1006		441000.0	7831500.0	315.830	2179.370	978523.023	-28.582	-19.610637	134.437354	53	2.67	930716	-9.5
		1004		1007		441500.0	7831500.0	314.520	2179.620	978523.280	-28.584	-19.610651	134.442122	53	2.67	930716	-9.5
		1010		1008		442000.0	7831500.0	312.680	2180.090	978523.762	-28.464	-19.610666	134.446890	53	2.67	930716	-9.5
		1118		1017		442000.0	7831000.0	311.450	2180.990	978524.682	-28.044	-19.615184	134.446875	53	2.67	930716	-9.5

1126	1018	441500.0	7831000.0	312.680	2180.530	978524.209	-28.274	-19.615170	134.442107	53	2.67	930716	-9.5-	0.029
1131	1019	441000.0	7831000.0	313.450	2180.380	978524.054	-28.277	-19.615155	134.437339	53	2.67	930716	-9.5-	0.028

APPENDIX 2

DIGITAL DATA FOR AEROMAGNETIC SURVEY