R666

REPORT ON GRAVITY SURVEY

BENTON PROPERTY AREA, ONTARIO

for

Entourage Metals Ltd

by

ALLAN SPECTOR AND ASSOCIATES LIMITED
TORONTO CANADA

October 2011

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1.1 Terms of Reference and Objectives of this Work

This work was initiated in response to a request from John Florek, to conduct a reconnaissance gravity survey of the Benton Property for purposes of gold exploration. The object of the gravity survey was to locate geologic features such as major lithologic breaks that could favour gold mineralization. The gravity survey corresponds in space and time with an SGH survey.

Figure 1a shows the location of the gravity survey located 150 km north of Sudbury, Ontario. It is reached using the Sultan Industrial Road running west from Hwy 144.

Figure 1b shows the outline of the gravity survey on a regional OGS geological map that shows the area is underlain by early Precambrian volcanic rocks constituting the Swayze Greenstone Belt (SGB). The map is comprised of OGS geological maps 2503 and 2504 published in 1987. As shown in Figure 1a, the Jerome Gold Mine is located about 15 km ESE of the Benton Block. 62,000 oz of gold were produced from Jerome in the period 1937-1945.

Figure 1c is a regional gravity map compiled from GSC data. It shows the project area to be located on the south flank of the SGB, a 35 mgal gravity anomaly that indicates a 10 km thick layer of volcanic rocks

1.2 Gravity Survey and Data Reduction

The surveying was conducted by this author assisted Tyler Boudreau. Surveying was done in the period October 21-26, 2011. Measurements were taken at 100 to 300m intervals on existing logging trails. The X-Y-Z positioning of the measurements was determined by GPS surveying with control performed by Total Exploration of Timmins.

235 gravity measurements were taken using a thermostatically controlled Sodin gravimeter; model 286-T. It restson a 0.7 m. high tripod. Temperature setting was 25 degrees Celsius. The instrument has a sensitivity of ±0.01 milligals (mgal). The survey base was located at a field camp located at 389 km W and 5282 km N (UTM coordinates zone 17, NAD83), shown in Figure 1a. The 235 measurements were supplemented by 90 regional GSC gravity measurements

1.2.1 Drift and Instrument Scale Correction.

All gravity traverses commenced and ended by a reading at the survey base station located at the field camp. Instrument readings were converted to milligals using the instrument constant;

0.10062 mgal/instrument division

1.2.2 Latitude Correction

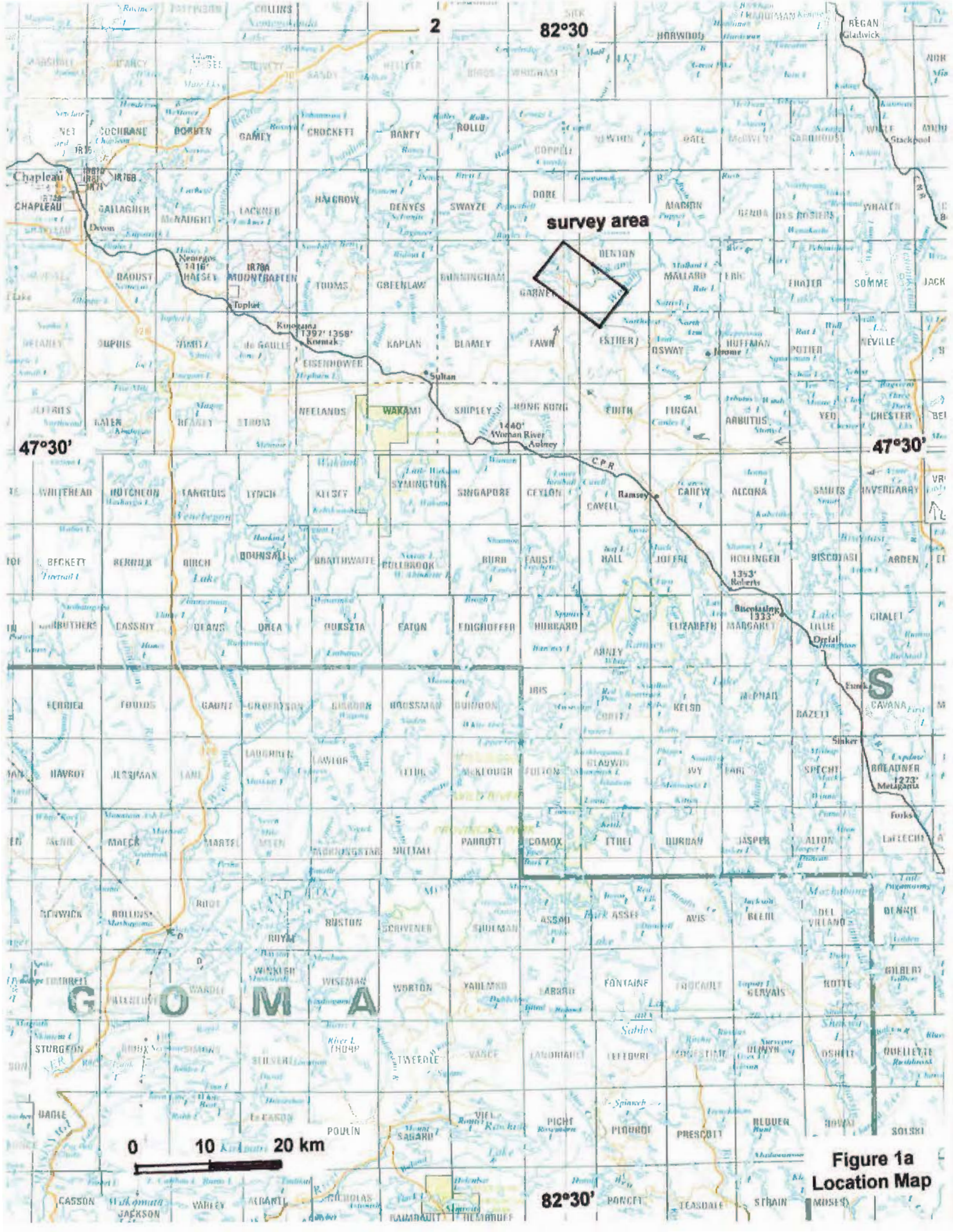
The data was corrected for northerly gravity increase; 0.8085 mgal/km.

1.2.3 Elevation Correction

Gravity decreases rapidly with distance from the centre of the earth. This decrease is also partly dependent on the density of the material underlying the gravity station.

The elevation correction may be written as + 0.3086 -0.04186ó mgal/meter,

where ó is the density of the material between the gravity station and the minimum elevation of the survey. The selected density was 2.7 gm/cc.


survey area
82°30
47°30'
0
10
20 km
Figure 1a
Location Map

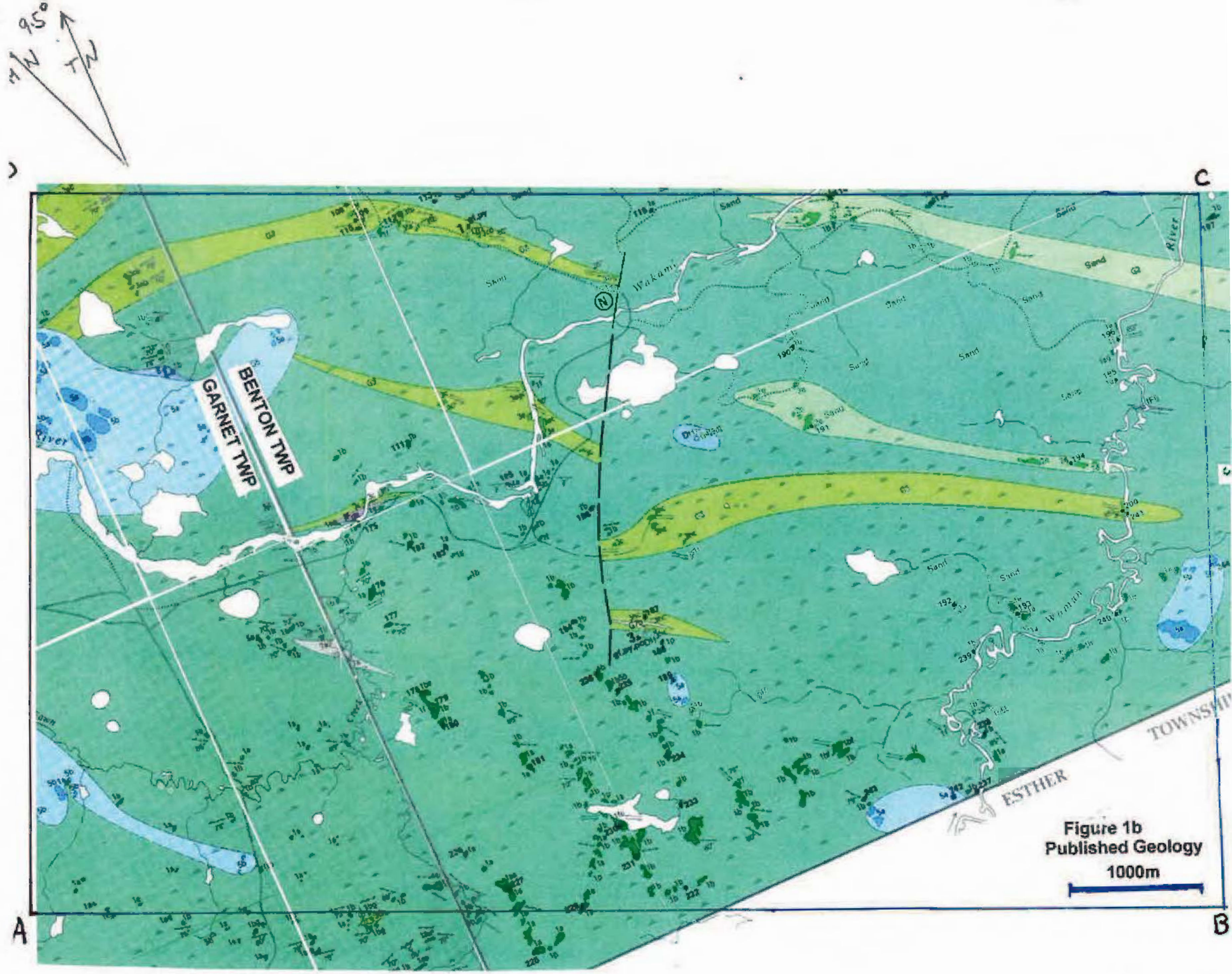


Figure 1b
Published Geology

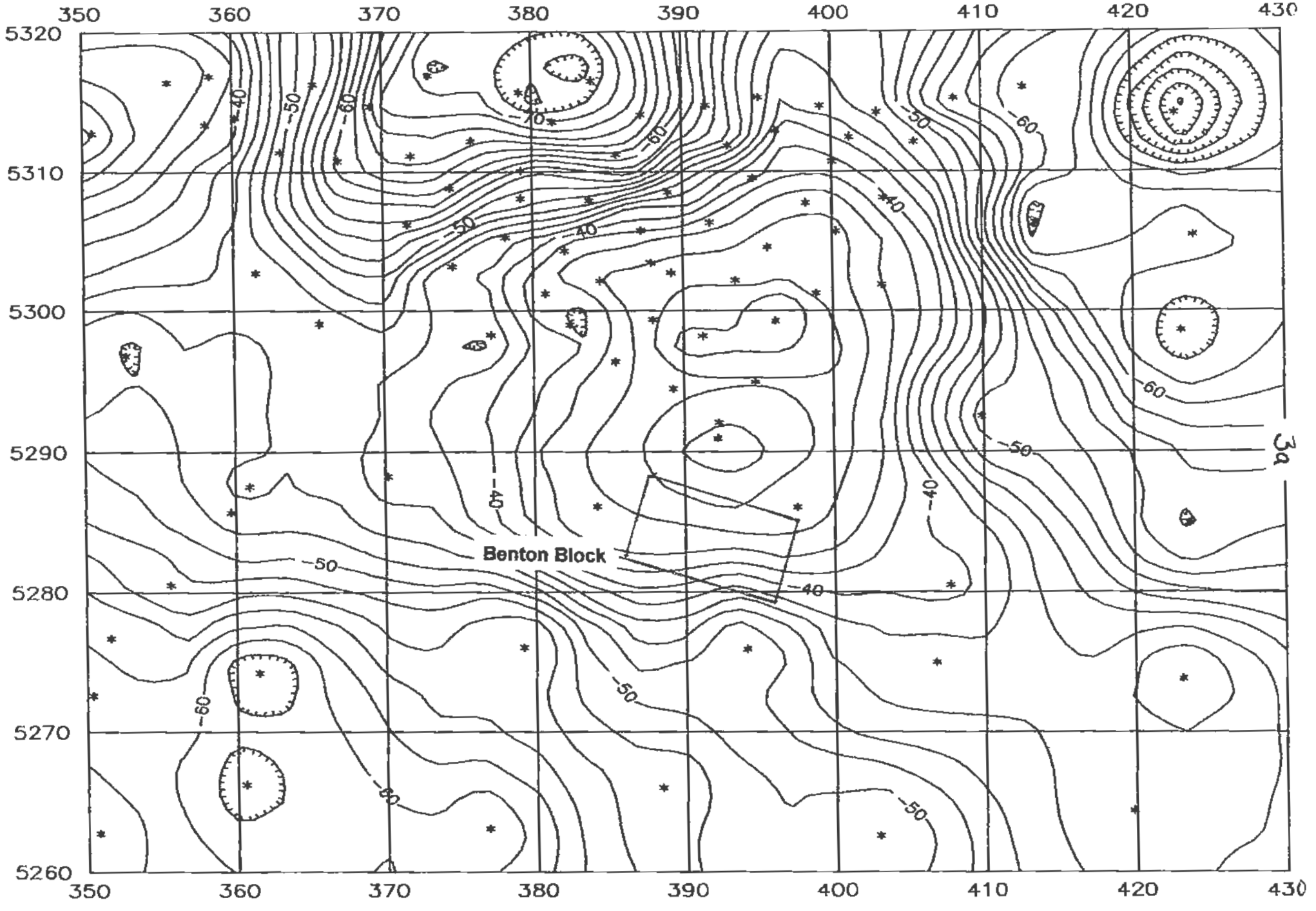


Figure 1c. Regional Gravity

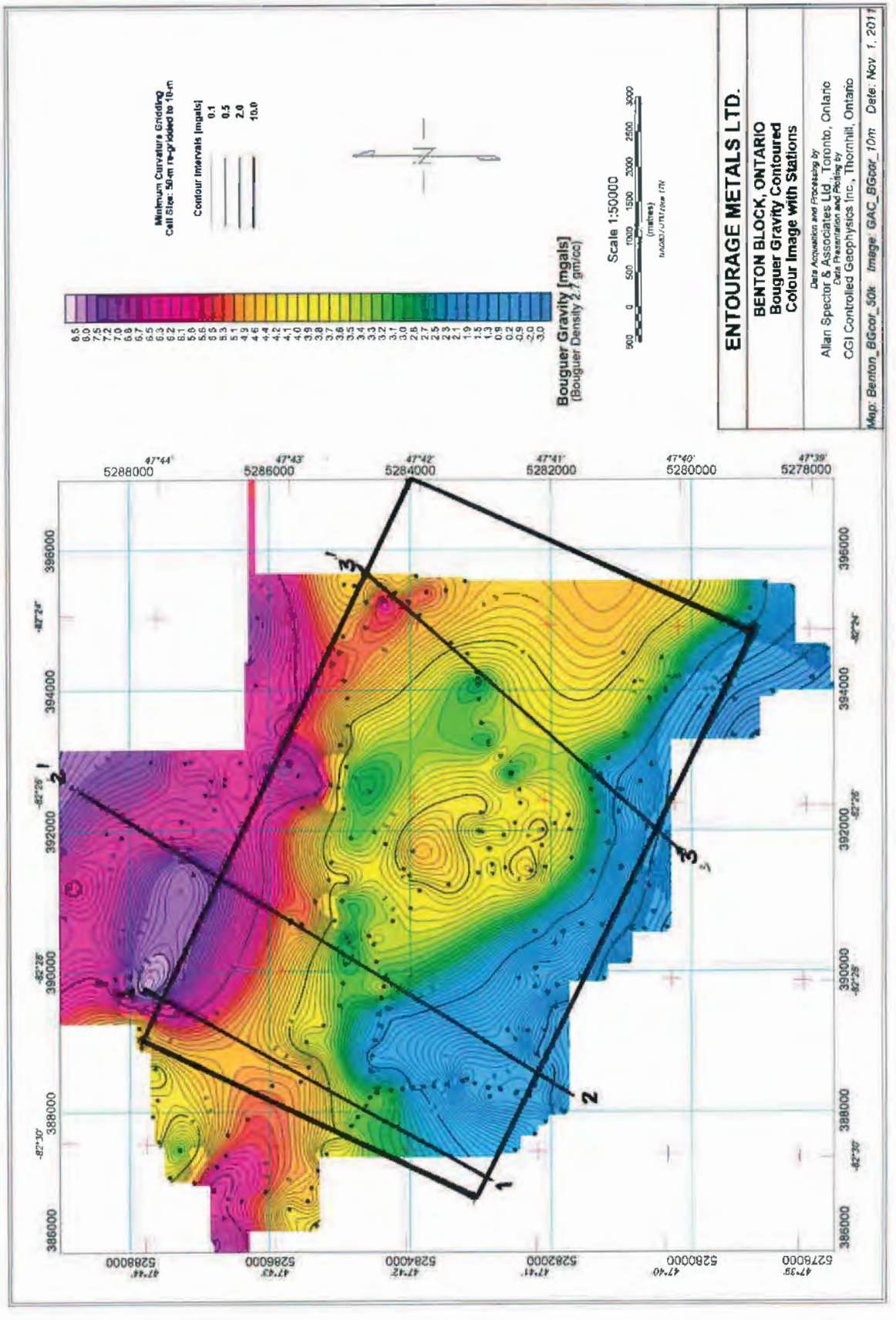

ENTOURAGE METALS LTD.
BENTON BLOCK, ONTARIO
Bouguer Gravity Contoured
Colour Image with Stations
Data Acquisition and Processing by
Allan Spector & Associates Ltd., Toronto, Ontario
Data Presentation and Plotting by
CGI Controlled Geophysics Inc., Thornhill, Ontario
Map: Benton_BGcor_50k Image: GAC_BGcor_10m Date: Nov 1, 2017
Bouguer Gravity [mgals]
(Bouguer Density 2.7 gm/cc)
Scale 1:50000
Minimum Curvature Gridding
Cell Size: 50-m regridded to 10-m
Contour Intervals [mgals]
0.1
0.5
2.0
10.0
47°44'
47°43'
47°42'
47°41'
47°40'
47°39'
5288000
5286000
5284000
5282000
5280000
5278000
396000
394000
392000
390000
388000
386000
1
2
3

Figure 2.2

2.4 Data Compilation

A principal product of this survey is a digital recording of the reduced Bouguer gravity data in ASCII file GAC.dat . It contains 6 columns of information;

1. station number
2. UTM easting in kilometers, Zone 17, NAD83
3. UTM northing in kilometers Zone 17, NAD83
4. station elevation in meters,
5. Bouguer gravity in milligals.

No gravity measurements were taken in areas of severe topography. Terrain corrections were not required.

Maps showing contoured Bouguer gravity and distribution of measurements at 1:10,000 and 1:25,000 scales, in UTM co-ordinates, accompany this report as Figures 2.1 and 2.2.

2. Aeromagnetic Data

The area is covered by an airborne geophysical survey conducted for the OGS by Questor Surveys in 1981. The combined INPUT and magnetometer survey consisted of north-south lines at 200m spacing and 130 m terrain clearance (OGS Map 80 547, issued 1982).

Figure 3 shows the published data at 1:50,000 scale. Geomagnetic statistics for the 1983 survey are as follows;

Intensity ; 56,400 nT
Declination; 9.5° west of north
Inclination; 73.5°

In order to help in identifying geological features, the magnetic and radar altimeter data were profiled at 1:10,000 scale and with the aid of model curves, were analysed to determine the following information;

1. Magnetic anomaly amplitude,
2. Magnetic contacts
3. Magnetic bedding dip

Figure 4 shows the magnetic contour map together with the results of this profile analysis at 1:10,000 scale.

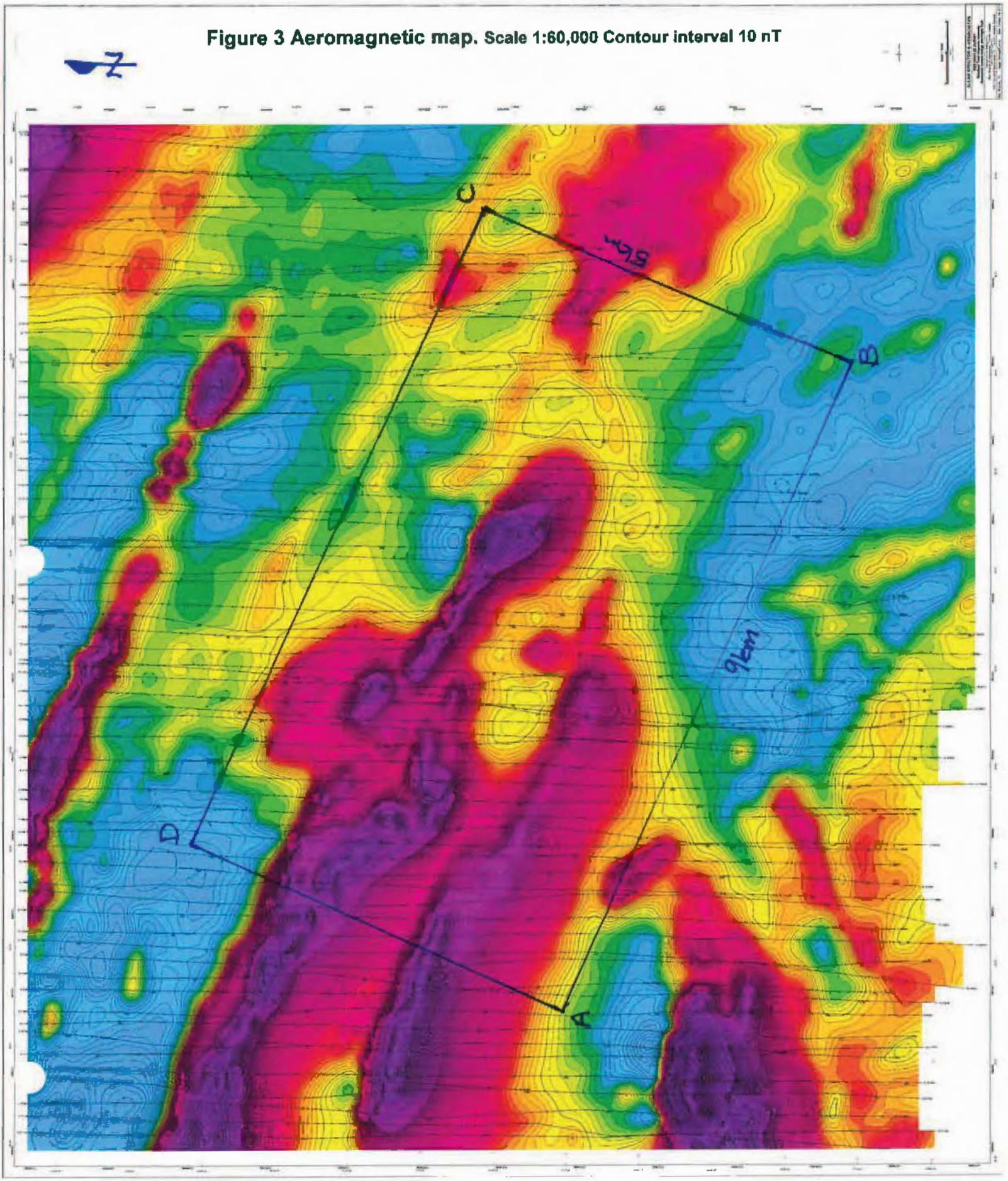
2.1 Magnetic Findings

Magnetized rocks underlie about 40% of the project area. These rocks are mostly oriented in WNW-ESE direction. Minimum discernible width of these magnetic rocks is about 150m the flying height of the survey aircraft.

Six distinguishable rock units were discerned from the magnetic data;

Magnetization	magnetic relief	interpreted lithology
high	300 to 500nT	mafic intrusives
very high	500 to 2000 nT	ultramafic intrusives and iron formation
moderate	20 to 100 nT	mafic volcanics
reversed	-20 to –50 nT	" "
moderate	50 to 100 nT	diabase dykes
nil	0 to 10 nT	unmetamorphosed rocks

Figure 3 Aeromagnetic map. Scale 1:60,000 Contour interval 10 nT



These units are traced in map Figure 5 together with the findings of the gravity interpretation.

2.1.1 Rocks displaying high and very high magnetization
Most prominent magnetic anomalies in the area are those associated with labelled as units **m1, m2, m3, m4** and **m5,** located in the central and west parts of the map.

Unit m1 exhibits the most intense anomaly; 2000 nT It most likely is due to iron formation.

Units **m2 to m5** which are associated with 500 to 1000 nT relief are associated with outcropping mafic to ultramafic intrusive rocks.

2.1.2 Rocks displaying moderate magnetization
Scattered over the map are several magnetic beds that exhibit moderate; 20 to 100 nT relief. They are correlated with mafic volcanics and sills.
Magnetic zone **m6** attracts interest because it is associated with a major gravity break; **CG2**.

2.1.3 Rocks displaying reversed magnetization
A band of reversely magnetised volcanic rocks are evident near the north edge of the map.

2.1.4 Dyke-like magnetic anomalies
A discordant NW-SE trending anomaly 50 nT in relief is traced in the northeast corner of the map; unit **d1.** It is probably a diabase dyke that is younger in age than the Archean rocks they intrude.

2.1.5 Non-magnetic rocks
Metasedimentary rocks and metaclastics underly 60% of the map. The lack of magnetization is also related to felsic volcanic rocks having very low iron content or rocks that are poorly metamorphosed.

2.2 Structure
A major dislocation of magnetic rocks appears to have resulted as a result of north-trending faults **F1 and F2.** Dislocation is seen as right-lateral.

Most of the magnetic anomalies display an asymetry indicative of a NE dipping attitude.
The exception is unit **m5** which displays a SW dipping attitude, possibly implying the existence of an anticlinal structure.

2.3 Overburden thickness (OB)
Estimates of overburden thickness from an analysis of the magnetic data were found to be in the range of 0 to 40m with an accuracy of $\pm$20m.....with one exception.
A zone of thick overburden, approaching 100m is mapped in the central part of the map largely corresponding with a swampy area.

3.Gravity Findings (Figure 5)

The gravity method is basically a means of density mapping; distinguishing rock units according to their density. The following is a list of Ontario rocks and their typical densities, according to Gupta and Grant (1985);

	Density gm/cc
gabbro, basalt ,diabase	2.9-3.0
intermediate volcanics	2.8-2.9.
felsic volcanics	2.7-2.8
metasediments	2.7-2.8
granodiorite, granite	2.7

Although the gravity survey was reconnaissance in scope with large gaps in coverage, some important geological findings are inherent in the data, particularly structure, as a result of these density contrasts. It is recommended that these structures will be more adequately defined by more detailed surveying.

3.1 Gravity Breaks, CG1, CG2 and CG3

Most dominant feature expressed in the data is a southwest to northwest increase in gravity of about 10 mgal. This increase is accomplished in 2 or 3 "steps" where there is a noticeable jump in Bouguer gravity. Substantial increase in greenstone thickness is ascribed to these steps

In the case of CG1, an almost 10mgal gravity increase is observed. In the case of CG2, a 5 mgal increase is observed. An increase of 3 mgal is associated with CG3.

Figure 6 shows profiles across the gravity map; 1-1', 2-2' and 3-3', to help illustrate these "steps.

The very large changes in greenstone thickness at CG1, CG2 and CG3 is attributed to vertical displacement due to faulting. Thus these density contacts are considered as **breaks** that may have served as channels for gold mineralization. We await presentation of the results of the SGH survey to verify the significance of these features. However it should be pointed out that faulting at these locations is not shown in the published OGS mapping.

3.2 Unit LDZ; Felsic Metavolcanics and Thick Overburden

A gravity low, unit **LDZ**, located on the southwest flank of CG2 can be linked to thick overburden. A 100m thick layer of overburden (density 2.0 gm/cc) would result in a –1.5 mgal gravity depression.

An additional explanation for at least part of this gravity low is the presence of lower density felsic metavolcanics that according to the published mapping are exposed in part of this zone.

Figure 6a offers the alternative possibility of a low density intrusive body that has penetrated the greenstone section. This body may have served as a heat source for the mobilization of gold bearing flux.

3.3 Cross Faults F1 and F2

Northerly trending, right lateral faults that were traced from the aeromagnetic data are corroborated by features in the gravity data.

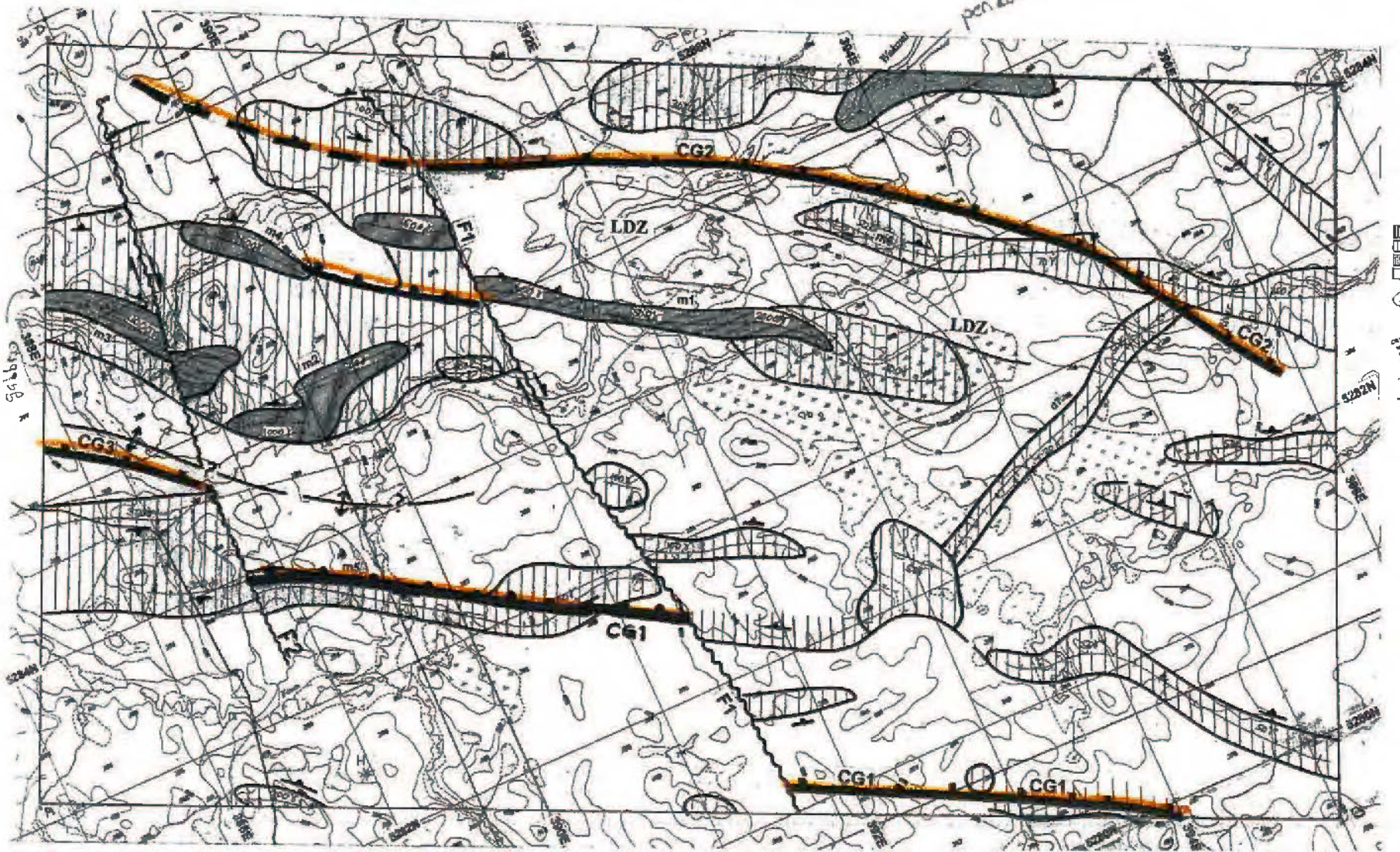


Figure 8

ENTOURAGE METALS Ltd.

BENTON BLOCK
GEOPHYSICAL FINDINGS

Scale: 1:10,000
UTM coordinates (NAD83)

Allan Spooner and Associates Ltd. 708011

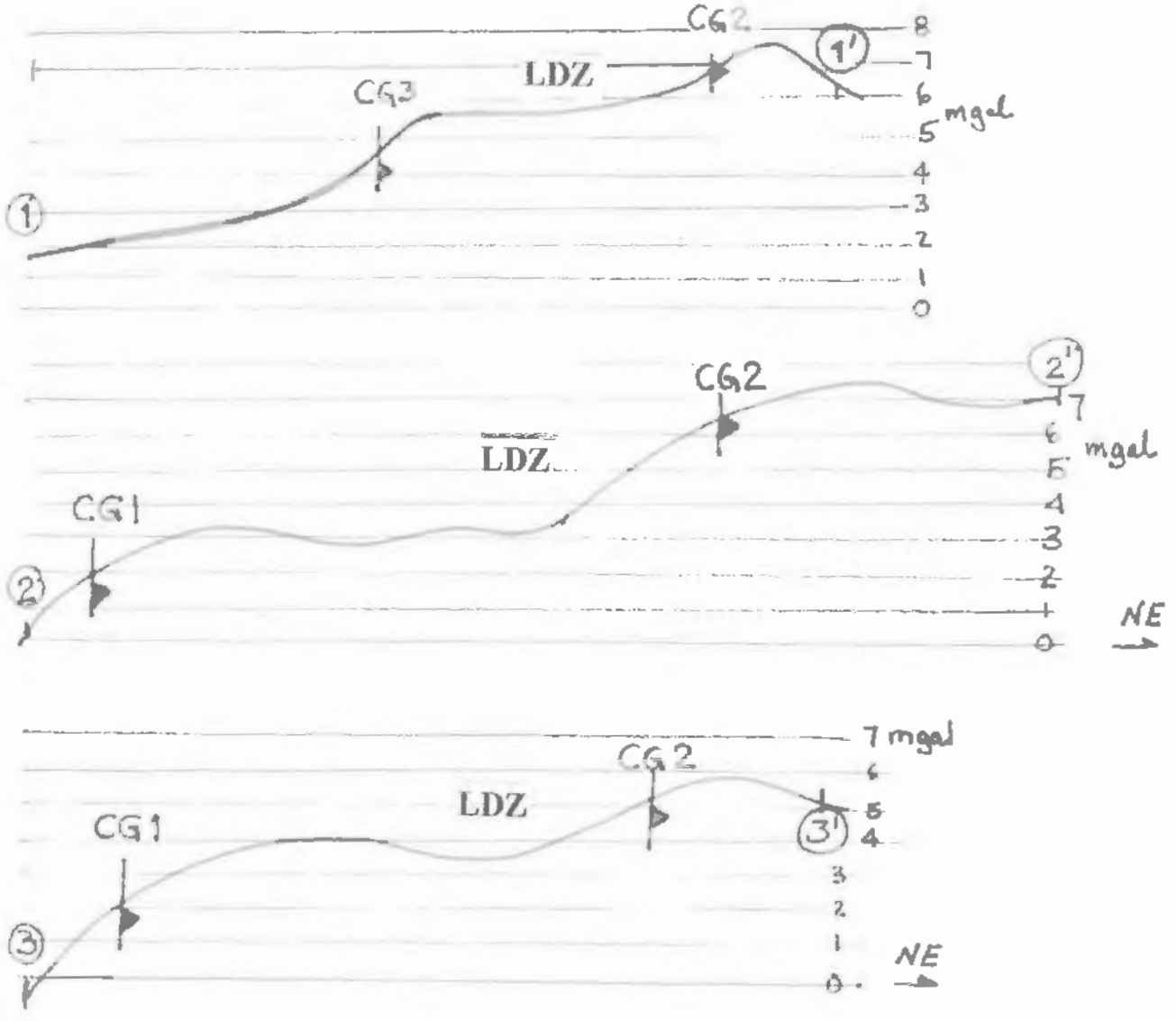
INTERPRETATION LEGEND

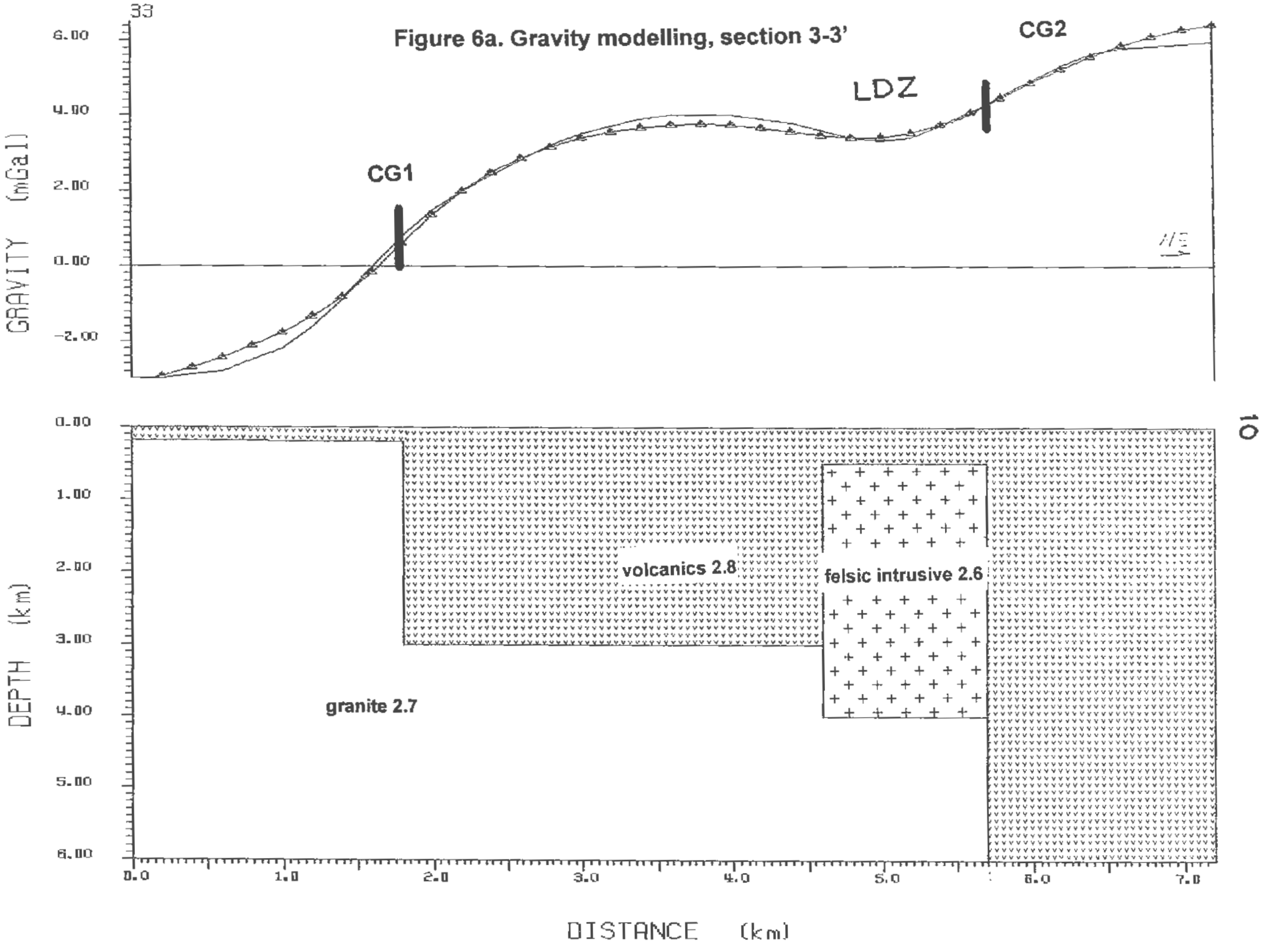
- high magnetization, mafic intrusive, flow formation
- moderate magnetization, mafic volcanics
- reversed magnetization, volcanics
- nil magnetization, felsic to intermediate volcanics
- magnetic anomaly axis and intensity amplitude
- magnetic contact
- magnetic bedding dip direction
- CG1 gravity contact, higher density side indicated
- interpreted fault
- conductive thickness

8a

FIGURE 6; Bouguer gravity profiles 1, 2 and 3.

Scale 1:50,000




33
Figure 6a. Gravity modelling, section 3-3'
CG2
LDZ
CG1
6.00
4.00
2.00
0.00
-2.00
GRAVITY (mGal)
0.00
1.00
2.00
3.00
4.00
5.00
6.00
DEPTH (km)
volcanics 2.8
felsic intrusive 2.6
granite 2.7
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
DISTANCE (km)
10

4. Recommendations; Detailed Gravity Surveying

The existing gravity data reviewed in this study must be regarded as only reconnaissance in scope.

However certain structures evident in this data merit further definition, particularly the CG1, CG2 and CG3 breaks. More detailed gravity surveying consisting of lines at 200m spacing, is recommended to adequately define these features.

Respectfully submitted,

Allan Spector Ph.D.
Toronto October 31, 2011

5. References

Gupta, V.K. and Grant F.S. 1983 Mineral exploration aspects of gravity and aeromagnetic surveys in the Sudbury-Cobalt area. Utility of regional gravity and magnetic maps. SEG Special Publication. W.J. Hinze editor,

388.211	5282.885	389.0	0.27	12	1
388.396	5283.097	386.1	0.61	13	1
388.427	5283.266	396.8	0.33	14	1
388.385	5283.487	401.1	1.32	15	1
388.360	5283.675	399.4	1.58	16	1
388.348	5283.826	401.3	1.95	17	1
388.336	5283.976	400.6	1.88	18	1
388.325	5284.116	400.9	2.58	19	1
388.308	5284.280	400.4	2.85	20	1
388.263	5284.476	396.3	3.12	21	1
388.200	5284.578	395.7	3.08	22	1
388.291	5284.478	395.8	3.00	23	1
388.589	5284.571	385.3	2.13	24	1
388.793	5284.544	385.5	1.84	25	1
389.011	5284.507	385.6	2.14	26	1
389.218	5284.423	384.3	2.14	27	1
389.388	5284.449	385.8	2.27	28	1
389.460	5284.310	383.2	2.25	29	1
389.618	5284.413	386.9	3.12	30	1
389.780	5284.382	390.0	3.50	31	1
389.911	5284.357	385.9	3.07	32	1
390.131	5284.486	392.9	3.29	33	1
390.376	5284.525	387.9	3.48	34	1
390.499	5284.590	388.1	3.46	35	1
388.083	5284.636	396.4	3.25	36	1
387.927	5284.751	393.5	3.22	37	1
387.795	5284.838	394.1	3.23	38	1
387.645	5284.944	397.6	3.98	39	1
387.391	5285.199	391.2	3.68	40	1
387.162	5285.325	397.4	4.69	41	1
386.912	5285.415	393.0	4.56	42	1
386.727	5285.467	395.2	4.70	43	1
386.373	5285.341	394.5	3.92	44	1
386.610	5285.730	399.3	4.23	45	1
386.857	5286.069	394.2	5.38	46	1
386.726	5286.410	390.5	5.66	47	1
386.489	5286.670	391.5	6.12	48	1
386.135	5286.795	395.5	6.87	49	1
386.880	5286.810	389.0	6.17	50	1
386.989	5287.089	389.8	5.10	51	1
387.218	5286.765	387.4	5.69	52	1
387.381	5286.633	386.6	5.54	53	1
387.668	5286.607	388.9	5.03	54	1
387.896	5286.329	389.8	5.29	55	1
388.212	5286.069	386.9	5.15	56	1
388.369	5285.975	387.4	5.04	57	1
388.426	5285.567	388.6	4.84	58	1
388.637	5285.452	387.4	4.64	59	1
388.992	5285.481	390.2	3.45	60	1
389.225	5285.238	390.0	3.61	61	1
389.510	5285.008	391.0	3.14	62	1
389.829	5284.963	399.8	3.20	63	1

390.096	5284.927	397.7	2.99	64	1
390.479	5284.904	390.6	2.82	65	1
390.716	5285.079	392.2	3.84	66	1
390.999	5284.975	388.7	3.17	67	1
391.258	5284.903	387.8	4.03	68	1
391.298	5285.161	389.8	4.11	69	1
391.550	5285.126	388.4	3.86	70	1
390.991	5285.360	400.9	4.94	71	1
390.674	5285.553	394.7	5.20	72	1
390.722	5285.698	396.5	4.89	73	1
389.893	5288.208	393.2	6.34	74	1
389.927	5288.003	401.5	7.33	75	1
389.696	5287.805	402.2	8.20	76	1
389.419	5287.827	405.4	5.54	77	1
389.190	5287.864	397.8	4.66	78	1
388.918	5287.834	401.3	4.78	79	1
388.613	5287.634	403.0	3.87	80	1
388.794	5287.294	398.4	4.70	81	1
388.173	5287.605	391.5	4.16	82	1
387.934	5287.672	394.8	4.24	83	1
387.573	5287.590	394.3	4.16	84	1
387.457	5287.289	394.4	3.12	85	1
387.068	5287.432	394.3	3.79	86	1
390.713	5284.259	393.4	3.41	87	2
390.892	5284.005	391.2	3.72	88	2
391.147	5283.877	389.4	3.74	89	2
391.362	5284.020	386.7	4.15	90	2
391.451	5284.104	386.8	4.09	91	2
391.809	5284.355	389.1	3.65	92	2
391.983	5284.514	392.6	3.35	93	2
391.892	5284.849	388.4	3.21	94	2
392.316	5284.953	388.2	3.59	95	2
392.615	5285.027	386.4	3.71	96	2
392.912	5284.916	393.6	3.53	97	2
393.226	5284.998	392.4	4.63	98	2
393.497	5284.892	388.6	4.07	99	2
393.888	5284.897	387.5	4.76	100	2
391.706	5283.967	392.1	4.60	101	2
391.231	5283.467	395.5	4.17	102	2
391.399	5283.052	392.7	3.85	103	2
391.512	5282.849	394.7	3.65	104	2
391.749	5282.893	397.1	3.93	105	2
391.933	5282.685	392.0	3.60	106	2
392.112	5282.523	392.8	3.79	107	2
392.397	5282.446	404.0	3.71	108	2
392.586	5282.455	389.3	3.92	109	2
391.993	5283.039	389.5	3.43	110	2
392.259	5283.006	397.5	4.05	111	2
391.473	5282.665	399.1	3.93	112	2
391.426	5282.293	407.4	4.20	113	2
391.483	5282.088	404.6	3.60	114	2
391.793	5282.140	400.3	3.89	115	2

392.013	5282.125	399.2	4.11	116	2
392.101	5281.957	394.2	3.82	117	2
392.014	5281.742	393.0	3.56	118	2
392.228	5281.764	394.3	3.74	119	2
392.268	5281.341	395.1	2.73	120	2
392.584	5281.444	400.2	2.94	121	2
392.796	5281.295	391.5	2.32	122	2
392.591	5281.017	394.2	1.91	123	2
393.031	5281.191	389.5	2.64	124	2
393.382	5280.953	387.4	3.11	125	2
392.696	5280.734	394.5	1.31	126	2
392.943	5280.580	393.2	1.32	127	2
392.274	5281.046	393.9	1.73	128	2
391.608	5281.716	399.7	3.33	129	2
391.414	5281.409	399.3	2.39	130	2
391.490	5281.005	398.3	1.21	131	2
391.565	5280.720	403.1	0.62	132	2
391.944	5280.498	401.4	0.07	133	2
392.061	5280.639	414.8	1.11	134	2
391.826	5281.194	412.6	2.26	135	2
391.544	5280.576	398.4	-0.08	136	2
391.212	5280.608	400.4	-0.17	137	2
390.844	5280.551	405.3	-0.80	138	2
390.597	5280.679	404.4	-0.77	139	2
390.621	5280.352	400.8	-2.33	140	2
390.598	5280.854	402.8	-0.19	141	2
390.658	5281.277	397.5	1.09	142	2
390.664	5281.574	399.7	1.56	143	2
390.560	5281.837	398.4	1.53	144	2
390.396	5281.953	395.6	1.68	145	2
390.569	5282.236	396.8	2.29	146	2
390.141	5280.898	410.5	-1.29	147	2
389.889	5281.251	398.4	-0.27	148	2
389.916	5281.582	404.1	0.63	149	2
389.799	5281.921	393.3	0.70	150	2
389.699	5282.059	391.7	0.81	151	2
389.780	5282.236	392.5	1.22	152	2
389.900	5282.468	389.9	1.39	153	2
390.043	5282.227	390.3	1.03	154	2
389.482	5281.946	386.4	-0.08	155	2
392.811	5282.583	389.0	2.90	157	3
393.063	5282.734	388.6	3.70	158	3
393.272	5282.902	389.6	3.01	159	3
393.535	5283.002	392.3	3.31	160	3
393.872	5283.033	389.0	3.13	161	3
394.172	5283.052	388.8	2.93	162	3
394.255	5283.079	390.4	3.41	163	3
394.519	5283.204	390.4	3.77	164	3
394.676	5283.436	389.2	4.16	165	3
394.858	5283.709	393.3	4.69	166	3
395.064	5283.882	399.4	4.81	167	3
395.260	5284.034	397.3	5.36	168	3

395.392	5283.783	393.9	5.30	169	3
395.420	5283.508	394.1	4.91	170	3
395.553	5283.236	392.8	4.72	171	3
395.623	5283.924	391.5	4.62	172	3
395.388	5284.219	394.6	4.78	173	3
395.275	5284.382	394.1	5.74	174	3
394.886	5284.645	394.2	5.27	175	3
395.254	5284.635	396.7	4.78	176	3
395.488	5284.799	387.8	4.59	177	3
395.503	5284.945	385.5	4.53	178	3
394.762	5284.961	393.3	5.00	179	3
394.524	5285.019	395.7	5.38	180	3
394.371	5285.102	390.4	5.36	181	3
394.134	5284.940	384.6	5.25	182	3
389.953	5289.943	398.0	7.11	183	3
390.740	5289.440	395.8	7.01	184	3
390.779	5288.933	408.2	6.50	185	3
391.193	5288.863	397.3	5.91	186	3
391.725	5288.953	396.0	6.92	187	3
391.966	5288.322	397.9	6.55	188	3
391.908	5288.113	399.4	6.50	189	3
391.948	5287.687	397.7	6.51	190	3
391.802	5287.498	398.1	6.49	191	3
391.569	5287.251	400.6	7.63	192	3
391.756	5287.157	397.9	6.63	193	3
391.380	5287.094	398.6	7.72	194	3
383.986	5286.752	402.4	4.16	195	3
393.092	5293.051	395.3	10.56	196	3
392.982	5287.693	396.5	7.23	197	4
392.966	5287.211	398.0	6.30	198	4
392.714	5286.836	398.0	6.52	199	4
392.643	5286.642	396.8	6.16	200	4
392.779	5286.270	400.5	6.20	201	4
392.903	5286.043	400.3	6.68	202	4
392.964	5285.735	398.1	6.74	203	4
392.782	5285.595	397.9	6.71	204	4
393.377	5285.673	394.3	5.54	205	4
393.768	5285.713	396.3	6.14	206	4
394.070	5286.200	397.7	6.18	207	4
394.422	5286.285	398.2	6.87	208	4
395.035	5286.170	397.4	7.01	209	4
392.647	5285.133	391.5	5.33	210	4
392.521	5285.344	399.9	5.94	211	4
392.325	5285.543	393.8	5.42	212	4
392.515	5286.916	398.3	6.68	213	4
387.996	5281.807	401.1	-0.71	214	4
387.851	5282.088	399.5	0.69	215	4
387.676	5282.243	400.2	0.80	216	4
387.447	5282.522	401.1	1.51	217	4
387.399	5282.752	398.4	1.67	218	4
394.585	5278.097	409.4	-2.84	219	4
394.179	5278.308	412.5	-3.64	220	4

393.973	5278.862	410.4	-3.23	221	4
393.868	5279.397	410.6	-2.45	222	4
393.661	5279.696	397.0	-1.48	223	4
393.357	5279.414	387.7	-4.78	224	4
393.365	5279.075	388.1	-6.22	225	4
393.759	5279.893	410.5	-0.07	226	4
394.196	5280.223	391.9	2.86	227	4
394.460	5280.429	389.2	3.24	228	4
394.004	5280.377	389.8	2.81	229	4
393.885	5280.606	388.1	3.14	230	4
394.115	5280.819	391.0	3.58	231	4
394.528	5280.979	390.5	4.31	232	4
395.458	5278.582	402.5	1.09	233	4
395.487	5278.974	402.3	2.03	234	4
395.160	5279.188	402.5	2.66	235	4
350.761	5263.004	445.9	-19.48	1	7025
402.865	5262.834	422.2	-14.21	2	6095
376.762	5263.326	438.3	-23.74	3	6114
419.835	5264.615	400.5	-4.82	4	2235
360.514	5266.471	445.3	-25.51	5	7030
388.368	5266.243	408.1	-15.72	6	6113
350.373	5272.838	438.0	-21.31	7	8556
361.456	5274.417	416.7	-26.71	8	6116
423.096	5274.019	381.3	-2.36	9	6088
406.703	5275.185	384.4	-5.22	10	6094
379.164	5276.246	411.2	-18.89	11	6115
351.618	5276.921	414.5	-20.76	12	8552
394.068	5276.142	388.6	-12.78	13	6093
355.597	5280.750	406.3	-14.27	14	8553
407.668	5280.727	384.7	-1.36	15	6089
359.677	5285.895	408.7	-9.54	16	8554
423.618	5285.128	390.5	-18.58	17	6087
384.125	5286.337	389.2	3.83	18	6092
397.503	5286.271	383.4	4.94	19	6090
360.909	5287.737	397.2	-7.23	20	8555
370.167	5288.486	399.6	-5.44	21	6081
392.218	5291.185	392.3	11.07	22	6091
392.314	5292.294	392.9	6.79	23	673
409.857	5292.736	377.0	-13.63	24	6086
389.287	5294.705	386.1	4.06	25	693
394.776	5295.176	377.0	3.40	26	674
352.756	5297.057	422.5	-10.75	27	6080
385.467	5296.614	393.9	2.69	28	692
377.131	5298.526	388.9	-7.10	29	6082
391.268	5298.448	387.7	12.09	30	694
365.668	5299.337	382.5	-7.50	31	78
382.450	5299.250	378.0	-4.13	32	699
423.175	5298.843	383.7	-27.82	33	6144
387.946	5299.604	391.0	4.36	34	695
396.140	5299.506	381.6	10.77	35	675
380.799	5301.489	387.6	2.87	36	698
398.894	5301.478	378.0	5.41	37	676

384.422	5302.397	390.8	4.62	38	696
361.462	5302.939	377.0	-6.42	39	8583
403.270	5302.106	335.9	1.37	40	6084
393.475	5302.427	381.1	5.03	41	682
389.183	5302.952	387.3	5.21	42	683
374.592	5303.417	372.9	-2.26	43	647
387.838	5303.683	380.7	6.83	44	6083
382.096	5304.538	375.8	2.96	45	697
395.650	5304.815	373.7	4.91	46	681
378.152	5305.509	373.7	-3.16	47	648
387.197	5305.993	374.9	1.02	48	688
371.616	5306.429	389.7	-17.65	49	646
400.232	5305.957	378.4	4.95	50	677
424.013	5305.687	392.6	-23.23	51	6142
391.782	5306.572	375.8	1.96	52	684
413.560	5306.576	404.5	-28.00	53	6085
383.801	5308.136	372.0	-10.83	54	689
379.207	5308.305	377.3	-12.13	55	2223
398.236	5307.974	383.0	5.35	56	680
403.449	5308.329	373.7	-0.95	57	678
389.033	5308.755	368.6	-8.18	58	687
374.490	5309.054	388.8	-24.50	59	649
394.693	5309.742	384.1	0.09	60	685
379.250	5310.323	395.5	-16.29	61	650
367.023	5311.019	415.6	-22.98	62	645
371.864	5311.391	422.5	-30.73	63	644
363.153	5311.666	424.9	-12.31	64	629
400.056	5310.944	371.4	-0.57	65	679
385.611	5311.454	384.2	-27.95	66	672
375.908	5312.414	441.7	-27.25	67	643
393.056	5312.107	383.0	-15.13	68	686
405.495	5312.353	361.0	-9.93	69	662
401.207	5312.703	335.6	-4.95	70	2224
358.157	5313.603	409.4	1.76	71	2222
396.237	5313.161	347.6	-2.19	72	669
360.162	5314.128	407.6	-1.24	73	619
381.376	5313.819	417.8	-35.78	74	651
387.273	5314.312	381.6	-31.20	75	671
369.180	5314.917	446.7	-31.76	76	630
403.041	5314.487	328.9	-10.13	77	661
422.884	5314.410	400.5	-39.23	78	6143
391.591	5314.988	360.1	-23.64	79	670
399.254	5314.905	331.5	-8.40	80	660
395.110	5315.535	394.2	-6.33	81	659
379.155	5315.903	407.3	-39.70	82	642
408.196	5315.459	394.9	-23.41	83	663
355.669	5316.630	412.6	5.29	84	810
365.382	5316.468	413.3	-12.32	85	620
358.491	5317.079	407.3	2.83	86	801
383.962	5316.713	387.2	-39.18	87	652
412.835	5316.220	400.5	-24.98	88	2225
373.085	5317.109	427.3	-35.14	89	631

350.672	5313.032	430.1	8.85	90	8589