

GLO1074

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MICROGEOPHYSICS CORPORATION

McCoy, NEVADA

GRAVITY SURVEY

January 1, 1980

Paul Larry Brown, President

Dave McManness

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1.0.0 INTRODUCTION

In July and October, 1979, MicroGeophysics Corporation performed a gravity survey in and around the McCoy Peak area, Nevada (Figure 1.1). The gravity survey of 1 square mile station density has elevation controls, USGS benchmarks, topographic elevations, and where neither existed, vertical control was achieved by barometric altimetry.

Gravity surveys are of particular importance when used as a tool to distinguish structure. The McCoy survey area is an area of complex structural geology. The data collected near McCoy indicates that the graben containing the Edwards Creek basin is considerably larger than its surface manifestations. In addition to the extended valley structure obtained from the data, a location of a north trending fault on the eastern boundary of the survey was established and a location of a northwest trending system on the northern area boundary was outlined.

2.0.0 FIELD PROCEDURE AND INSTRUMENTATION

2.1.0 Gravity

MicroGeophysics Corporation (MGC) began work on the McCoy, Nevada gravity project on June 25, 1979. Data was collected by MGC to add to that gravity data previously collected by AMAX geophysicists.

Gravity measurements were made using LaCoste and Romberg model G gravity meters numbers 473 (June-July), 370 (Oct.), and the

LOCATION AND INDEX MAP

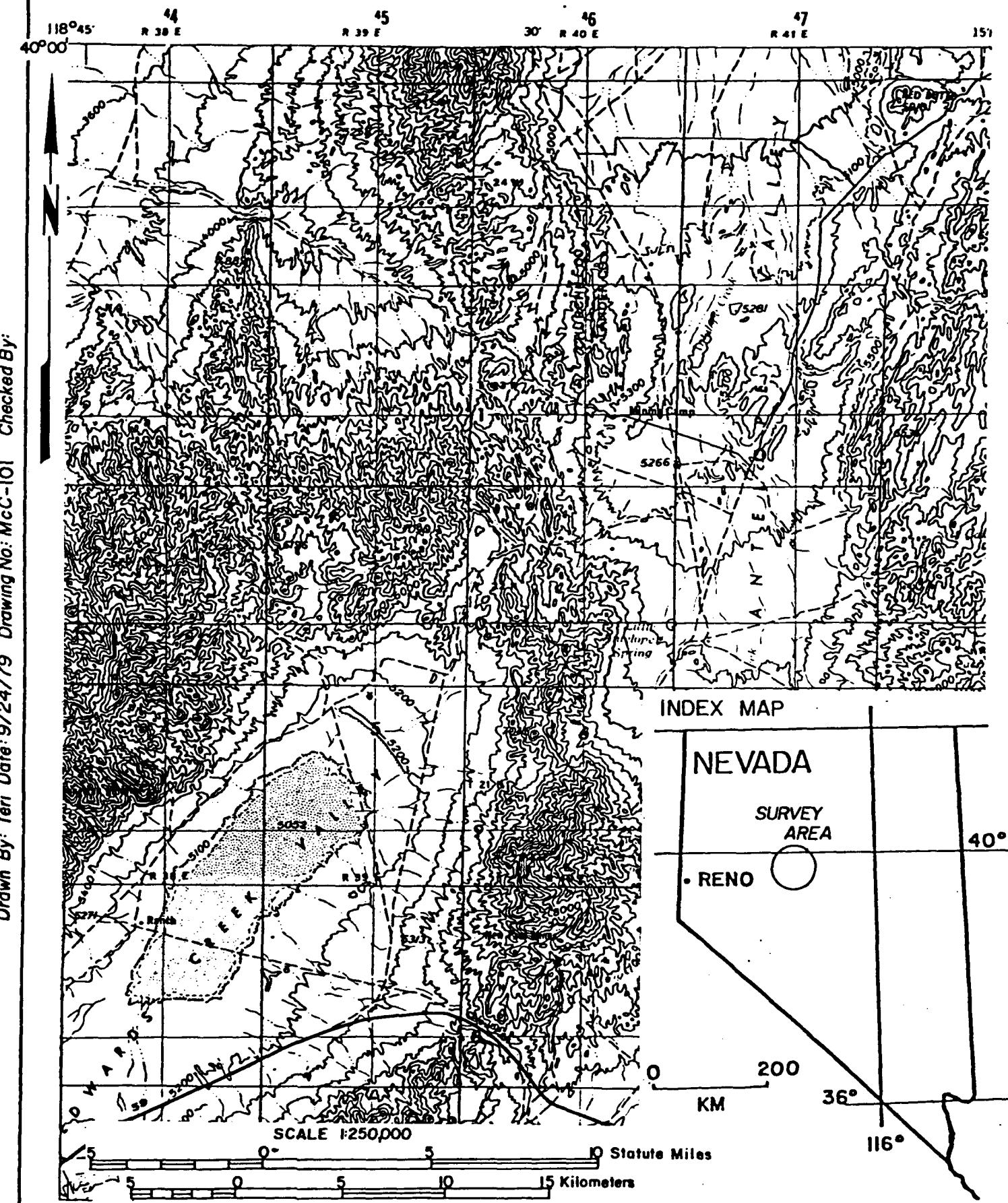


FIGURE I.I

AMAX gravimeter number 345. Upon preliminary processing of the combined MGC (from June-July) and AMAX data sets, several low station density areas were outlined for additional gravity coverage. In addition to these low station density areas, two anomalies with unreasonably high gradients were discovered. These two anomalies were N-S trending with one superimposed upon the Clan Alpine Range just south of "Hole in the Wall". The second parallel the first four miles to the east. Stations occupied highlighting both of these anomalies were confined to a single line each. The terrain along these lines was such as to require backpacking of the instrument. Temperatures in the area on both days were 100°F. We have postulated that for both lines the temperature within the case exceeded 48.3°C (119°F) operating temperature of the instrument, thereby causing it to become unstable. In the course of a gravity survey where base ties are frequent throughout the day, such errors are easily uncovered. However, on this network base ties were completed only early in the morning and after dark on the way to the base camp. With the time needed to hike out of an area and return to base the instrument probably cooled to its operating temperature thereby eliminating any evidence of instability during the day. Therefore in October 1979, a field crew returned to the McCoy area to increase the station density in the sparsely covered areas and to repeat the measurement points where the instrument had been unstable.

2.2.0 Altimetry

Barometric leveling was used in the McCoy area by MGC only during the October 1979 field work. Throughout the rest of the work, spot elevations and benchmarks provided the vertical control.

Several precautions were incorporated in the altimetry to insure accurate elevation determinations. A micro-baragraph was used to record changes in barometric pressure at the base for each loop. This base was always selected as close as possible spatially and vertically to the area to be surveyed. In addition both the altimeter and micro-baragraph were kept in coolers with the temperature controlled by the use of "Blue Ice". This was to eliminate drift due to incorrect thermal compensation.

3.0.0 INTERPRETATION

The free-air and Bouguer anomalies (Table 3.1) were calculated using the Geodetic Reference System, 1967. Exact determination of the Bouguer density was not made in this area. An assumed value of 2.67 g/cc was used for this survey area. Table 3.1 lists the observed and theoretical gravity, free-air, and Bouguer anomalies (simple), latitude, longitude and elevation for each station. Table 3.2 lists the simple Bouguer anomaly, terrain correction for the Hammer Zones D-M and the complete Bouguer anomaly. These values were used to generate the complete Bouguer anomaly map (Plate 2).

In both Plates 1 & 2 single point values that did not fit well with the near-by data trend were discarded in the final contour maps. As seen on both plates, the gravitational field changes a great deal (45^+ mgals) across the survey area. A contour interval of 5 mgals was therefore chosen in order to thoroughly outline gravitational trends without isolating too many single point anomalies.

Several major structural trends are seen on Plate 2. The first trend is an apparent northward extension of the gravitational low associated in the Edwards Creek basin. This low is bounded on the west and east-northeast by two major north-south lineations.

4.0.0 CONCLUSIONS AND RECOMMENDATIONS

The gravity method as employed near McCoy, Nevada produced very good results as to the structure of the Edwards Creek basin and its northern continuation. Any of the faults outlined are primary control to fluid flow in the area. Any further work in the McCoy area should be primarily centered around the faulted regions to the north and east of the project area. Of course, the gravity results should be used to limit or highlight the structural interpretation in the area.

TABLE 3.1

Station No.	Free Air Corr.	Simple Bouguer	Lat.	Long.	Elev. (Ft)
0049	-53.66	-182.88	39.937	117.679	3790.0
0050	-41.93	-173.47	39.930	117.663	3858.0
0051	-44.67	-181.16	39.921	117.629	4003.1
0052	-35.41	-185.80	39.913	117.588	4411.0
0053	-27.32	-185.80	39.876	117.550	4648.0
0054	14.96	-193.43	39.790	117.527	6112.0
0055	12.19	-191.13	39.780	117.525	5963.0
0056	12.00	-198.85	39.794	117.508	6184.0
0057	9.23	-192.65	39.803	117.513	5921.0
0058	0.20	-189.22	39.799	117.523	5555.3
0059	-21.84	-185.50	39.852	117.536	4800.0
0060	-16.62	-174.83	39.879	117.518	4640.0
0061	-6.58	-180.91	39.843	117.510	5112.8
0062	-3.16	-193.07	39.812	117.495	5570.0
0064	-15.64	-181.03	39.899	117.491	4850.7
0065	-10.43	-178.22	39.912	117.490	4921.0
0066	-9.30	-180.99	39.926	117.487	5035.5
0067	-10.07	-185.15	39.950	117.493	5135.0
0068	-28.93	-198.86	39.954	117.453	4984.0
0068	-28.78	-198.71	39.954	117.453	4984.0
0069	-27.24	-198.06	39.946	117.453	5010.0
0070	-19.15	-188.81	39.946	117.471	4976.0
0071	-20.02	-194.89	39.903	117.434	5129.0
0071	-20.04	-194.92	39.903	117.434	5129.0
0072	-21.21	-198.68	39.889	117.428	5205.0
0073	-21.97	-199.27	39.874	117.427	5200.0
0074	-24.84	-201.67	39.856	117.428	5186.0
0075	-23.83	-201.71	39.840	117.424	5217.0
0076	-18.69	-199.06	39.808	117.415	5290.0
0077	-18.87	-198.83	39.811	117.426	5278.0
0078	-37.81	-216.91	39.815	117.442	5253.0
0079	-21.03	-200.20	39.818	117.455	5255.0
0080	-16.78	-201.17	39.825	117.466	5408.0
0081	-12.93	-200.13	39.824	117.479	5490.6
0082	-4.43	-198.26	39.820	117.489	5685.0
0083	-8.93	-197.01	39.834	117.479	5516.0
0084	9.80	-187.10	39.853	117.472	5775.0
0085	-13.46	-195.67	39.941	117.480	5344.0
0086	-18.37	-197.78	39.734	117.565	5261.9
0087	-20.43	-198.24	39.736	117.577	5215.0
0088	-30.75	-207.14	39.709	117.616	5173.3
0089	-23.21	-202.35	39.726	117.612	5254.0
0090	-6.06	-192.96	39.746	117.636	5481.6
0091	7.62	-180.59	39.755	117.645	5520.0
0092	-16.87	-187.10	39.784	117.649	4992.7
0093	-15.55	-178.01	39.803	117.663	4764.9
0094	-24.61	-178.86	39.842	117.687	4524.0
0095	-16.38	-171.18	39.822	117.671	4540.0
0096	-23.64	-174.00	39.832	117.684	4410.0

Table 3.1 (cont'd)

Station No.	Free Air Corr.	Simple Bouguer	Lat.	Long.	Elev. (Ft.)
0002	8.12	-189.90	39.779	117.517	5808.0
0002	8.05	-189.98	39.779	117.517	5808.0
0002	8.13	-189.90	39.779	117.517	5808.0
0002	8.16	-189.87	39.779	117.517	5808.0
0002	8.18	-189.85	39.779	117.517	5808.0
0002	8.18	-189.85	39.779	117.517	5808.0
0002	8.23	-189.80	39.779	117.517	5808.0
0002	8.22	-189.81	39.779	117.517	5808.0
0002	8.25	-189.78	39.779	117.517	5808.0
0002	8.23	-189.80	39.779	117.517	5808.0
0002	8.16	-189.87	39.779	117.517	5808.0
0002	8.18	-189.85	39.779	117.517	5808.0
0002	8.42	-189.61	39.779	117.517	5808.0
0002	8.20	-189.83	39.779	117.517	5808.0
0003	6.36	-190.00	39.782	117.510	5759.0
0004	6.75	-187.45	39.815	117.524	5300.0
0005	-18.96	-188.08	39.838	117.533	4960.0
0006	-32.50	-187.98	39.866	117.542	4560.0
0007	-27.18	-178.53	39.884	117.543	4439.0
0008	-29.55	-179.00	39.889	117.549	4383.0
0009	-44.93	-183.23	39.915	117.616	4056.0
0010	-39.79	-174.03	39.929	117.649	3937.2
0012	1.69	-192.04	39.793	117.499	5682.0
0013	-19.08	-200.37	39.729	117.544	5317.0
0014	-27.77	-204.04	39.721	117.587	5170.0
0016	-51.03	-185.02	39.869	117.716	3930.0
0017	-37.27	-172.97	39.877	117.721	3980.0
0017	-37.35	-173.05	39.877	117.721	3980.0
0018	5.65	-192.07	39.785	117.500	5799.0
0019	-7.31	-181.88	39.854	117.507	5120.0
0021	-9.37	-177.80	39.867	117.497	4940.0
0022	-12.16	-181.00	39.876	117.494	4952.0
0024	-20.65	-209.24	39.785	117.468	5531.0
0027	-14.71	-196.31	39.795	117.411	5326.0
0027	-14.75	-196.35	39.795	117.411	5326.0
0028	2.15	-192.85	39.768	117.528	5719.0
0029	-2.73	-192.98	39.754	117.534	5580.0
0030	-10.68	-196.16	39.742	117.537	5440.0
0038	-54.17	-176.44	40.001	117.717	3586.0
0039	-50.00	-172.70	39.977	117.716	3598.5
0040	-52.34	-179.04	39.946	117.715	3716.0
0041	-45.13	-176.47	39.898	117.715	3852.0
0042	-46.22	-179.34	39.890	117.711	3904.0
0043	-30.11	-169.59	39.887	117.726	4091.0
0044	-55.91	-172.11	39.848	118.011	3408.0
0045	-37.72	-167.19	39.898	117.734	3797.1
0046	-48.18	-176.72	39.909	117.715	3770.0
0047	-49.08	-177.45	39.923	117.713	3765.0
0048	-46.13	-173.82	39.939	117.698	3745.0

Table 3.1 (cont'd)

Station No.	Free Air Corr.	Simple Bouguer	Lat.	Long.	Elev. (Ft.)
0097	-27. 97	-175. 26	39. 843	117. 700	4320. 0
0098	-33. 42	-176. 33	39. 854	117. 706	4191. 4
0104	-36. 89	-212. 89	39. 938	117. 322	5162. 0
0109	-28. 16	-207. 06	39. 872	117. 351	5247. 0
0110	-28. 17	-206. 90	39. 857	117. 353	5242. 0
0112	-24. 75	-205. 86	39. 830	117. 370	5312. 0
0113	-23. 31	-204. 26	39. 817	117. 379	5307. 0
0114	-18. 88	-199. 38	39. 824	117. 393	5294. 0
0115	-20. 05	-199. 16	39. 828	117. 406	5253. 0
0116	-22. 04	-200. 85	39. 833	117. 422	5244. 4
0117	-12. 77	-193. 41	39. 843	117. 454	5298. 0
0118	-2. 17	-187. 11	39. 850	117. 463	5424. 0
0119	1. 87	-180. 55	39. 862	117. 474	5350. 4
0120	-0. 20	-179. 41	39. 870	117. 483	5256. 0
0121	-41. 46	-215. 11	39. 945	117. 331	5093. 0
0122	-47. 04	-217. 91	39. 960	117. 350	5011. 4
0124	-48. 00	-218. 11	39. 960	117. 378	4989. 0
0125	-45. 62	-215. 59	39. 961	117. 397	4985. 0
0126	-41. 33	-211. 32	39. 961	117. 415	4985. 5
0127	-35. 10	-205. 28	39. 961	117. 434	4991. 0
0128	-28. 48	-198. 18	39. 961	117. 453	4977. 0
0129	-31. 59	-200. 74	39. 976	117. 452	4961. 0
0130	-33. 07	-201. 81	39. 990	117. 452	4949. 0
0131	-51. 90	-221. 25	39. 975	117. 378	4967. 0
0132	-51. 76	-220. 47	39. 990	117. 378	4948. 0
0133	-47. 48	-216. 90	39. 975	117. 397	4969. 0
0134	-46. 51	-215. 25	39. 990	117. 396	4949. 0
0135	-39. 74	-208. 45	39. 957	117. 415	4948. 0
0136	-43. 46	-212. 51	39. 983	117. 414	4957. 9
0137	-38. 14	-206. 81	39. 990	117. 434	4947. 0
0138	-37. 69	-206. 97	39. 975	117. 434	4965. 0
0139	-30. 70	-201. 55	39. 946	117. 434	5011. 0
0140	-26. 90	-198. 23	39. 931	117. 434	5025. 0
0141	-25. 45	-197. 63	39. 917	117. 434	5050. 0
0142	-24. 23	-198. 19	39. 903	117. 415	5102. 0
0143	-28. 28	-202. 07	39. 903	117. 397	5097. 0
0144	-13. 52	-198. 80	39. 832	117. 469	5434. 0
0145	-6. 80	-192. 04	39. 843	117. 470	5433. 0
0146	-6. 77	-199. 68	39. 863	117. 452	5658. 0
0147	-11. 20	-196. 61	39. 885	117. 446	5438. 0
0148	-22. 41	-193. 64	39. 932	117. 452	5022. 0
0149	-18. 65	-187. 80	39. 961	117. 471	4961. 0
0150	-23. 30	-192. 49	39. 976	117. 471	4962. 0
0152	-7. 87	-185. 70	39. 991	117. 490	5215. 5
0153	-3. 44	-181. 49	39. 984	117. 497	5222. 0
0154	-10. 23	-184. 38	39. 976	117. 490	5107. 7
0155	-16. 04	-185. 60	39. 961	117. 481	4972. 9
0156	-19. 94	-198. 22	39. 829	117. 447	5228. 8
0157	-21. 91	-199. 75	39. 839	117. 440	5216. 0
0158	-4. 11	-196. 59	39. 740	117. 597	5645. 0

Table 3.1 (cont'd)

Station No.	Free Air Corr.	Simple Bouguer	Lat.	Long.	Elev. (Ft.)
0159	2.39	-200.42	39.739	117.637	5948.0
0160	6.15	-199.35	39.749	117.622	6027.0
0161	1.08	-181.23	39.829	117.650	5347.0
0162	-0.65	-180.95	39.840	117.643	5288.0
0163	-3.67	-185.64	39.831	117.630	5337.0
0164	-9.30	-186.32	39.844	117.628	5192.0
0165	4.26	-185.31	39.811	117.625	5560.0
0166	-3.47	-171.25	39.815	117.653	4920.8
0167	-28.55	-188.33	39.866	117.557	4686.0
0168	-21.92	-192.71	39.854	117.556	5009.0
0169	-14.42	-193.76	39.842	117.553	5260.0
0170	-5.20	-196.15	39.833	117.553	5600.3
0171	-15.83	-193.95	39.838	117.559	5224.0
0172	5.09	-181.28	39.862	117.511	5466.0
0173	-0.91	-177.80	39.870	117.518	5188.0
0174	-3.64	-187.79	39.844	117.492	5401.0
0175	-36.64	-186.94	39.896	117.577	4408.0
0176	-44.34	-187.95	39.903	117.631	4212.0
0177	-38.36	-188.69	39.885	117.634	4409.0
0178	-26.27	-185.12	39.868	117.624	4659.0
0179	-22.03	-185.11	39.857	117.627	4783.0
0A53	-6.37	-187.08	39.829	117.503	5300.0
0B63	-14.29	-180.38	39.889	117.494	4871.3
BASE	8.14	-189.88	39.779	117.517	5808.0
274A	-32.41	-191.30	39.865	117.596	4660.0
201	-14.79	-196.38	39.795	117.409	5326.0
202	1.80	-195.47	39.785	117.454	5786.0
203	8.82	-194.05	39.774	117.463	5950.0
204	23.05	-198.17	39.763	117.462	6488.0
205	3.57	-198.01	39.768	117.444	5912.0
206	-0.06	-195.83	39.774	117.445	5742.0
207	10.11	-193.17	39.786	117.495	5962.0
216	19.03	-193.46	39.735	117.494	6232.0
217	34.28	-196.14	39.746	117.487	6758.0
218	29.91	-198.22	39.748	117.494	6691.0
219	36.79	-198.85	39.742	117.470	6911.0
221	32.35	-203.94	39.735	117.472	6930.0
222	31.59	-198.69	39.729	117.485	6754.0
223	-11.99	-206.20	39.734	117.427	5696.0
224	-8.05	-199.19	39.744	117.423	5606.0
225	-2.26	-200.22	39.743	117.445	5806.0
226	1.92	-200.33	39.735	117.450	5932.0
227	-4.66	-198.36	39.757	117.439	5681.0
228	-8.98	-196.20	39.773	117.437	5491.0
229	-43.58	-177.03	39.923	117.687	3914.0
230	-23.74	-169.74	39.917	117.665	4282.0
231	-23.26	-172.33	39.909	117.673	4372.0
232	-13.30	-171.88	39.896	117.672	4651.0
233	-25.85	-169.81	39.888	117.687	4222.0
234	-19.56	-174.28	39.882	117.689	4538.0

Table 3.1 (cont'd)

Station No.	Free Air Corr.	Simple Bouguer	Lat.	Long.	Elev. (Ft.)
235	12.22	-191.09	39.780	117.526	5963.0
236	9.05	-192.66	39.774	117.533	5916.0
237	15.07	-198.03	39.767	117.547	6250.0
238	5.31	-199.17	39.760	117.548	5997.0
239	-8.34	-210.15	39.760	117.572	5919.0
240	-3.87	-196.34	39.737	117.599	5645.0
241	12.97	-196.79	39.795	117.634	6152.0
242	14.39	-191.10	39.797	117.624	6027.0
243	32.07	-182.26	39.798	117.605	6286.0
244	25.97	-183.62	39.789	117.611	6147.0
245	6.16	-199.33	39.771	117.631	6027.0
246	5.55	-193.84	39.753	117.616	5848.0
247	3.96	-198.02	39.754	117.630	5924.0
248	0.81	-197.39	39.758	117.640	5813.0
249	15.89	-194.28	39.781	117.489	6164.0
250	21.27	-193.67	39.771	117.494	6304.0
251	24.92	-198.34	39.763	117.495	6548.0
252	22.64	-197.21	39.759	117.483	6448.0
253	20.76	-192.88	39.768	117.485	6266.0
254	18.21	-193.97	39.773	117.479	6223.0
255	12.65	-194.32	39.781	117.479	6070.0
256	6.52	-191.99	39.785	117.486	5822.0
257	-6.22	-187.13	39.833	117.615	5306.0
258	-0.15	-185.73	39.827	117.614	5443.0
259	-15.14	-196.60	39.835	117.599	5322.0
260	-9.25	-195.51	39.834	117.591	5463.0
261	-14.79	-192.80	39.844	117.595	5221.0
262	-25.55	-188.05	39.857	117.603	4766.0
263	-21.62	-185.00	39.857	117.620	4792.0
264	-15.55	-186.61	39.847	117.614	5017.0
265	-17.04	-183.90	39.849	117.625	4894.0
266	-2.24	-187.04	39.843	117.644	5420.0
267	-0.89	-188.79	39.852	117.648	5511.0
268	-48.60	-178.57	39.944	117.710	3812.0
269	-45.43	-176.52	39.947	117.698	3845.0
270	-51.89	-184.97	39.940	117.682	3903.0
271	-46.24	-180.23	39.936	117.670	3930.0
272	-49.19	-182.27	39.945	117.680	3903.0
273	-47.98	-181.29	39.948	117.670	3910.0
274	-32.51	-175.30	39.943	117.661	4188.0
284	-56.64	-181.80	39.966	117.717	3671.0
285	-55.20	-177.91	39.976	117.722	3599.0
286	-50.61	-172.16	39.989	117.722	3565.0
287	-51.78	-172.99	40.000	117.720	3555.0
288	-52.49	-178.51	39.978	117.704	3696.0
289	-50.91	-180.37	39.977	117.680	3797.0
290	-45.32	-177.31	39.979	117.670	3871.0
291	-41.38	-175.62	39.976	117.660	3937.0
292	-38.17	-173.97	39.967	117.651	3983.0
293	-46.79	-180.52	39.964	117.666	3922.0

Table 3.1 (cont'd)

Station No.	Free Air Corr.	Simple Bouguer	Lat.	Long.	Elev. (ft.)
294	16. 59	-175. 37	39. 925	117. 514	5630. 0
295	16. 13	-174. 16	39. 942	117. 522	5581. 0
296	13. 67	-175. 19	39. 940	117. 550	5539. 0
297	14. 63	-182. 41	39. 966	117. 528	5779. 0
298	28. 80	-177. 48	39. 975	117. 522	6050. 0
299	14. 67	-187. 41	39. 972	117. 506	5927. 0
300	0. 50	-174. 41	39. 898	117. 516	5130. 0
301	1. 73	-176. 63	39. 889	117. 519	5231. 0
302	-5. 10	-181. 92	39. 905	117. 505	5186. 0
303	-40. 12	-180. 26	39. 938	117. 633	4110. 0
304	-33. 52	-179. 55	39. 946	117. 643	4283. 0
305	-28. 85	-177. 98	39. 953	117. 646	4374. 0
306	-26. 77	-171. 88	39. 955	117. 629	4256. 0
307	-21. 77	-172. 27	39. 961	117. 618	4414. 0
308	-13. 34	-173. 25	39. 965	117. 606	4690. 0
309	-18. 89	-171. 30	39. 966	117. 614	4470. 0
310	-4. 81	-173. 14	39. 987	117. 610	4937. 0
311	-17. 60	-172. 23	39. 988	117. 614	4535. 0
312	-39. 32	-182. 05	39. 985	117. 635	4186. 0
313	-40. 93	-184. 71	39. 962	117. 637	4217. 0
314	-24. 33	-173. 64	39. 944	117. 614	4379. 0
315	4. 08	-176. 05	39. 955	117. 578	5283. 0
316	-11. 35	-173. 82	39. 945	117. 581	4765. 0
317	-5. 71	-174. 38	39. 938	117. 571	4947. 0
318	-37. 35	-183. 62	39. 930	117. 611	4290. 0
LR	-41. 22	-172. 73	40. 048	117. 611	3857. 0
208	18. 48	-208. 70	39. 815	117. 582	6663. 0
209	3. 51	-201. 74	39. 824	117. 582	6020. 0
211	-8. 03	-200. 60	39. 843	117. 581	5648. 0
213	-30. 28	-191. 28	39. 867	117. 589	4722. 0
214	-39. 24	-190. 59	39. 879	117. 578	4439. 0
275	-33. 64	-184. 86	39. 879	117. 618	4435. 0
279	-30. 48	-184. 36	39. 883	117. 650	4513. 0
280	-43. 19	-188. 98	39. 883	117. 631	4276. 0
282	-48. 37	-187. 89	39. 916	117. 637	4092. 0
302	1. 63	-177. 54	39. 906	117. 505	5255. 0
320	-15. 49	-198. 85	39. 726	117. 533	5378. 0
321	-2. 96	-194. 79	39. 741	117. 532	5626. 0
322	-7. 64	-196. 80	39. 736	117. 544	5548. 0
323	6. 39	-199. 92	39. 709	117. 506	6051. 0
324	7. 16	-198. 13	39. 693	117. 506	6021. 0
325	-37. 67	-212. 25	39. 690	117. 608	5120. 0
326	-36. 76	-211. 60	39. 695	117. 599	5128. 0
327	-31. 57	-208. 06	39. 709	117. 567	5176. 0
328	-35. 65	-211. 73	39. 695	117. 568	5164. 0
329	-36. 99	-212. 38	39. 679	117. 568	5144. 0
330	-16. 18	-200. 58	39. 826	117. 463	5408. 0
331	-18. 71	-198. 81	39. 811	117. 455	5282. 0
332	-10. 66	-197. 16	39. 812	117. 470	5470. 0
333	-1. 13	-178. 97	39. 876	117. 482	5216. 0

Table 3.1 (cont'd)

Station No.	Free Air Corr.	Simple Bouguer	Lat.	Long.	Elev. (ft.)
334	-3.38	-178.22	39.889	117.478	5128.0
335	-2.68	-179.64	39.897	117.471	5190.0
336	-8.68	-182.43	39.908	117.480	5096.0
337	-3.68	-190.46	39.924	117.457	5478.0
338	-13.57	-195.31	39.912	117.470	5330.0
339	-10.33	-192.16	39.896	117.458	5333.0
340	-17.07	-194.92	39.899	117.447	5216.0
341	3.82	-174.20	39.922	117.506	5221.0
342	5.32	-171.57	39.905	117.517	5188.0
343	1.90	-172.33	39.915	117.530	5110.0
344	7.36	-171.48	39.923	117.523	5245.0
345	8.19	-172.28	39.928	117.462	5293.0
346	-2.85	-173.53	39.893	117.469	5006.0
347	-9.98	-173.74	39.902	117.543	4803.0
348	-5.76	-206.38	39.748	117.592	5884.0
349	24.89	-198.13	39.757	117.598	6541.0
350	27.31	-196.94	39.765	117.591	6577.0
351	33.14	-197.69	39.770	117.582	6770.0
352	31.77	-199.13	39.779	117.572	6772.0
353	35.39	-202.94	39.788	117.559	6990.0
354	-11.59	-192.36	39.844	117.566	5302.0
355	-41.24	-184.21	39.902	117.605	4193.0
356	-45.40	-187.98	39.896	117.615	4182.0
357	-23.60	-183.92	39.867	117.637	4702.0
358	-35.54	-184.26	39.896	117.644	4362.0
359	-45.51	-188.85	39.902	117.592	4204.0
360	-34.92	-190.47	39.867	117.427	4562.0
361	-38.58	-190.69	39.873	117.579	4461.0
362	-29.78	-176.73	39.909	117.418	4310.0
363	-18.22	-176.53	39.917	117.434	4643.0

TABLE 3.2

Station No.	Simple Bouguer	Terrain Corr.	Complete Bouguer
0002	-189.90	0.50	-189.40
0002	-189.98	0.58	-189.40
0002	-189.90	0.50	-189.40
0002	-189.87	0.47	-189.40
0002	-189.85	0.45	-189.40
0002	-189.85	0.45	-189.40
0002	-189.80	0.40	-189.40
0002	-189.81	0.41	-189.40
0002	-189.78	0.38	-189.40
0002	-189.80	0.40	-189.40
0002	-189.87	0.47	-189.40
0002	-189.85	0.45	-189.40
0002	-189.61	0.21	-189.40
0002	-189.83	0.43	-189.40
0003	-190.00	0.51	-189.49
0004	-187.45	1.34	-186.11
0005	-188.08	1.08	-187.00
0006	-187.98	1.55	-186.43
0007	-178.53	3.76	-174.77
0008	-179.00	3.31	-175.69
0009	-183.23	1.60	-181.63
0010	-174.03	1.53	-172.50
0012	-192.04	0.84	-191.20
0013	-200.37	1.74	-198.63
0014	-204.04	1.11	-202.93
0016	-185.02	1.65	-183.37
0017	-172.97	1.20	-171.77
0017	-173.05	1.28	-171.77
0018	-192.07	0.47	-191.60
0019	-181.88	0.61	-181.27
0021	-177.80	1.13	-176.67
0022	-181.00	0.88	-180.12
0024	-209.24	2.69	-206.55
0027	-196.31	4.19	-192.12
0027	-196.35	4.23	-192.12
0028	-192.85	1.46	-191.39
0029	-192.98	1.85	-191.13
0030	-196.16	2.11	-194.05
0038	-176.44	0.65	-175.79
0039	-172.70	0.65	-172.05
0040	-179.04	0.57	-178.47
0041	-176.47	0.99	-175.48
0042	-179.34	1.44	-177.90
0043	-169.59	2.03	-167.56
0044	-172.11	2.26	-169.85
0045	-167.19	0.84	-166.35
0046	-176.72	0.86	-175.86
0047	-177.45	0.67	-176.78
0048	-173.82	0.78	-173.04

Table 3.2 (cont'd)

Station No.	Simple Bouguer	Terrain Corr.	Complete Bouguer
0049	-182.88	1.05	-181.83
0050	-173.47	1.85	-171.62
0051	-181.16	1.54	-179.62
0052	-185.80	1.10	-184.70
0053	-185.80	1.15	-184.65
0054	-193.43	2.78	-190.65
0055	-191.13	0.85	-190.28
0056	-198.85	4.72	-194.13
0057	-192.65	1.30	-191.35
0058	-189.22	0.92	-188.30
0059	-185.50	1.40	-184.10
0060	-174.83	1.46	-173.37
0061	-180.91	0.70	-180.21
0062	-193.07	0.44	-192.63
0064	-181.03	1.12	-179.91
0065	-178.22	1.08	-177.14
0066	-180.99	1.46	-179.53
0067	-185.15	0.85	-184.30
0068	-198.86	1.07	-197.79
0068	-198.71	0.92	-197.79
0069	-198.06	0.95	-197.11
0070	-188.81	0.87	-187.94
0071	-194.89	1.59	-193.30
0071	-194.92	1.62	-193.30
0072	-198.68	2.02	-196.66
0073	-199.27	2.10	-197.17
0074	-201.67	2.25	-199.42
0075	-201.71	2.59	-199.12
0076	-199.06	3.70	-195.36
0077	-198.83	3.00	-195.83
0078	-216.91	2.27	-214.64
0079	-200.20	1.92	-198.28
0080	-201.17	1.99	-199.18
0081	-200.13	1.83	-198.30
0082	-198.26	2.67	-195.59
0083	-197.01	1.88	-195.13
0084	-187.10	3.88	-183.22
0085	-195.67	3.03	-192.64
0086	-197.78	1.68	-196.10
0087	-198.24	2.02	-196.22
0088	-207.14	0.79	-206.35
0089	-202.35	1.10	-201.25
0090	-192.96	1.11	-191.85
0091	-180.59	0.68	-179.91
0092	-187.10	7.54	-179.56
0093	-178.01	2.36	-175.65
0094	-178.86	1.84	-177.02
0095	-171.18	4.62	-166.56
0096	-174.00	3.06	-170.94

Table 3.2 (cont'd)

Station No.	Simple Bouguer	Terrain Corr.	Complete Bouguer
0097	-175.26	1.89	-173.37
0098	-176.33	1.59	-174.74
0104	-212.89	0.47	-212.42
0109	-207.06	11.64	-195.42
0110	-206.90	11.34	-195.56
0112	-205.86	8.33	-197.53
0113	-204.26	7.28	-196.98
0114	-199.38	5.09	-194.29
0115	-199.16	3.85	-195.31
0116	-200.85	2.81	-198.04
0117	-193.41	1.85	-191.56
0118	-187.11	1.80	-185.31
0119	-180.55	2.08	-178.47
0120	-179.41	1.61	-177.80
0121	-215.11	0.34	-214.77
0122	-217.91	5.98	-211.93
0124	-218.11	3.03	-215.08
0125	-215.59	2.07	-213.52
0126	-211.32	1.49	-209.83
0127	-205.28	1.10	-204.18
0128	-198.18	0.90	-197.28
0129	-200.74	0.86	-199.88
0130	-201.81	0.84	-200.97
0131	-221.25	2.77	-218.48
0132	-220.47	2.53	-217.94
0133	-216.90	1.87	-215.03
0134	-215.25	1.70	-213.55
0135	-208.45	1.55	-206.90
0136	-212.51	1.27	-211.24
0137	-206.81	0.91	-205.90
0138	-206.97	0.99	-205.98
0139	-201.55	1.20	-200.35
0140	-198.23	1.32	-196.91
0141	-197.63	1.43	-196.20
0142	-198.19	2.09	-196.10
0143	-202.07	2.93	-199.14
0144	-198.80	1.93	-196.87
0145	-192.04	1.71	-190.33
0146	-199.68	3.97	-195.71
0147	-196.61	3.05	-193.56
0148	-193.64	1.02	-192.62
0149	-187.80	0.91	-186.89
0150	-192.49	0.97	-191.52
0152	-185.70	1.17	-184.53
0153	-181.49	1.45	-180.04
0154	-184.38	0.94	-183.44
0155	-185.60	1.00	-184.60
0156	-198.22	2.00	-196.22
0157	-199.75	2.07	-197.68

Table 3.2 (cont'd)

Station No.	Simple Bouguer	Terrain Corr.	Complete Bouguer
0158	-196.59	1.35	-195.24
0159	-200.42	2.80	-197.62
0160	-199.35	3.62	-195.73
0161	-181.23	1.92	-179.31
0162	-180.95	3.42	-177.53
0163	-185.64	3.01	-182.63
0164	-186.32	3.41	-182.91
0165	-185.31	1.17	-184.14
0166	-171.25	2.70	-168.55
0167	-188.33	1.03	-187.30
0168	-192.71	1.74	-190.97
0169	-193.76	2.47	-191.29
0170	-196.15	4.81	-191.34
0171	-193.95	1.49	-192.46
0172	-181.28	4.26	-177.02
0173	-177.80	2.60	-175.20
0174	-187.79	0.54	-187.25
0175	-186.94	0.99	-185.95
0176	-187.95	0.91	-187.04
0177	-188.69	1.21	-187.48
0178	-185.12	1.56	-183.56
0179	-185.11	1.43	-183.68
0A63	-187.08	1.15	-185.93
0B63	-180.38	0.83	-179.55
BASE	-189.88	0.49	-189.39
274A	-191.30	1.33	-189.97
201	-196.38	4.34	-192.04
202	-195.47	6.56	-188.91
203	-194.05	6.71	-187.34
204	-198.17	14.10	-184.07
205	-198.01	7.88	-190.13
206	-195.83	5.99	-189.84
207	-193.17	0.89	-192.28
216	-193.46	2.50	-190.96
217	-196.14	9.53	-186.61
218	-198.22	5.21	-193.01
219	-198.85	16.25	-182.60
221	-203.94	15.11	-188.83
222	-198.69	8.06	-190.63
223	-206.20	5.61	-200.59
224	-199.19	5.50	-193.69
225	-200.22	5.09	-195.13
226	-200.33	5.60	-194.73
227	-198.36	4.89	-193.47
228	-196.20	3.81	-192.39
229	-177.03	0.78	-176.25
230	-169.74	1.18	-168.56
231	-172.33	1.52	-170.81
232	-171.88	1.97	-169.91

Table 3.2 (cont'd)

Station No.	Simple Bouguer	Terrain Corr.	Complete Bouguer
233	-169.81	1.33	-168.48
234	-174.28	2.68	-171.60
235	-191.09	0.86	-190.23
236	-192.66	0.59	-192.07
237	-198.03	2.62	-195.41
238	-199.17	1.11	-198.06
239	-210.15	2.03	-208.12
240	-196.34	1.30	-195.04
241	-196.79	7.37	-189.42
242	-191.10	2.02	-189.08
243	-182.26	4.77	-177.49
244	-183.62	1.68	-181.94
245	-199.33	2.30	-197.03
246	-193.84	1.12	-192.72
247	-198.02	2.29	-195.73
248	-197.39	1.77	-195.62
249	-194.28	5.97	-188.31
250	-193.67	3.16	-190.51
251	-198.34	5.01	-193.33
252	-197.21	8.08	-189.13
253	-192.88	7.27	-185.61
254	-193.97	8.47	-185.50
255	-194.32	6.60	-187.72
256	-191.99	2.85	-189.14
257	-187.13	2.53	-184.60
258	-185.73	2.99	-182.74
259	-196.60	1.94	-194.66
260	-195.51	1.90	-193.61
261	-192.80	2.39	-190.41
262	-188.05	1.21	-186.84
263	-185.00	1.79	-183.21
264	-186.61	2.27	-184.34
265	-183.90	1.51	-182.39
266	-187.04	5.29	-181.75
267	-188.79	7.42	-181.37
268	-178.57	0.69	-177.88
269	-176.52	0.80	-175.72
270	-184.97	0.83	-184.14
271	-180.23	1.04	-179.19
272	-182.27	0.94	-181.33
273	-181.29	0.94	-180.35
274	-175.30	1.24	-174.06
284	-181.80	0.60	-181.20
285	-177.91	0.61	-177.30
286	-172.16	0.67	-171.49
287	-172.99	0.66	-172.33
288	-178.51	0.72	-177.79
289	-180.37	0.98	-179.39
290	-177.31	1.16	-176.15

Table 3.2 (cont'd)

Station No.	Simple Bouguer	Terrain Corr.	Complete Bouguer
291	-175.62	1.16	-174.46
292	-173.97	1.60	-172.37
293	-180.52	1.08	-179.44
294	-175.37	2.76	-172.61
295	-174.16	1.05	-173.11
296	-175.19	2.08	-173.11
297	-182.41	5.73	-176.68
298	-177.48	4.46	-173.02
299	-187.41	9.59	-177.82
300	-174.41	0.66	-173.75
301	-176.63	2.15	-174.48
302	-181.92	0.81	-181.11
303	-180.26	1.33	-178.93
304	-179.55	1.02	-178.53
305	-177.98	2.52	-175.46
306	-171.88	1.28	-170.60
307	-172.27	1.58	-170.69
308	-173.25	1.77	-171.48
309	-171.30	2.06	-169.24
310	-173.14	3.75	-169.39
311	-172.23	2.14	-170.09
312	-182.05	1.54	-180.51
313	-184.71	1.47	-183.24
314	-173.64	1.46	-172.18
315	-176.05	2.67	-173.38
316	-173.82	4.07	-169.75
317	-174.38	2.55	-171.83
318	-183.62	1.47	-182.15
LR	-172.73	3.07	-169.66
208	-208.70	13.30	-195.40
209	-201.74	5.79	-195.95
211	-200.60	6.98	-193.62
213	-191.28	2.02	-189.26
214	-190.59	1.09	-189.50
275	-184.86	1.04	-183.82
279	-184.36	1.24	-183.12
280	-188.98	1.10	-187.88
282	-187.89	0.92	-186.97
302	-177.54	-3.57	-181.11
320	-198.85	1.87	-196.98
321	-194.79	1.50	-193.29
322	-196.80	0.93	-195.87
323	-199.92	4.36	-195.56
324	-198.13	5.44	-192.69
325	-212.25	0.88	-211.37
326	-211.60	0.92	-210.68
327	-208.06	17.86	-190.20
328	-211.73	1.21	-210.52
329	-212.38	1.37	-211.01

Table 3.2 (cont'd)

Station No.	Simple Bouguer	Terrain Corr.	Complete Bouguer
330	-200. 58	2. 15	-198. 43
331	-198. 81	2. 12	-196. 69
332	-197. 16	2. 82	-194. 34
333	-178. 97	1. 76	-177. 21
334	-178. 22	1. 47	-176. 75
335	-179. 64	1. 18	-178. 46
336	-182. 43	1. 13	-181. 30
337	-190. 46	3. 57	-186. 89
338	-195. 31	3. 08	-192. 23
339	-192. 16	1. 97	-190. 19
340	-194. 92	1. 66	-193. 26
341	-174. 20	0. 18	-174. 02
342	-171. 57	-0. 96	-172. 53
343	-172. 33	1. 10	-171. 23
344	-171. 48	0. 56	-170. 92
345	-172. 28	0. 56	-171. 72
346	-173. 53	0. 10	-173. 43
347	-173. 74	0. 59	-173. 15
348	-206. 38	1. 44	-204. 94
349	-198. 13	5. 48	-192. 65
350	-196. 94	3. 47	-193. 47
351	-197. 69	4. 31	-193. 38
352	-199. 13	2. 85	-196. 28
353	-202. 94	7. 26	-195. 68
354	-192. 36	2. 99	-189. 37
355	-184. 21	0. 83	-183. 38
356	-187. 98	0. 63	-187. 35
357	-183. 92	1. 25	-182. 67
358	-184. 26	1. 04	-183. 22
359	-188. 85	1. 56	-187. 29
360	-190. 47	1. 03	-189. 44
361	-190. 69	0. 97	-189. 72
362	-176. 73	1. 98	-174. 75
363	-176. 53	2. 91	-173. 62