

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PRINCIPAL FACTS FOR GRAVITY STATIONS IN ADAMS, BERKS, CUMBERLAND,
DAUPHIN, LANCASTER, LEBANON, AND YORK COUNTIES,
SOUTH-CENTRAL PENNSYLVANIA.

By

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This report is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey standards and nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the U.S. Geological Survey.

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Explanation

Principal facts for 1,577 gravity measurements, recorded in nineteen 1:24,000-scale quadrangles located in south-central Pennsylvania (fig. 1), are reported here. These new measurements were collected from April, 1984, to September, 1985, as part of ongoing geophysical and geologic investigations of the Mesozoic basins of the eastern United States. The objective of the gravity survey is to further define the shapes of the Gettysburg and Newark Basins and the contained diabase bodies.

Gravity observations were made using Lacoste-Romberg gravity meter G-159 at bench marks, spot elevations, and other locations given on U.S. Geological Survey 1:24,000-scale topographic quadrangle maps (fig. 2). For spot elevations, the accuracy is assumed to be within three-tenths (0.3) of the contour interval of the topographic map (U.S. Geological Survey, national map accuracy standards, unpublished) or ± 3 feet (± 0.9 meter) for most of the maps surveyed. Using a reduction density of 2.67 g/cc, this elevation uncertainty is equivalent to a maximum Bouguer gravity uncertainty of ± 0.18 milligals.

Out of a total of 302 bench marks used, 21 were not directly recovered. However, precise descriptions of their locations supplied by the U.S. Geological Survey, the National Geodetic Survey, and the Pennsylvania Department of Transportation allowed reasonably accurate recovery of the correct locations. For these stations the elevation accuracy is assumed to be comparable to that of the spot elevations. Approximately 60 useful elevations were used for stations, which are survey marks such as rivets and chiseled squares, which have the same accuracy as bench marks. Four stations were referenced to the water level of Conewago Lake, located in the Wellsville quadrangle. The lake elevation was determined from a scale by the lake's spillway. There were 37 stations using interpolated elevations from two 1:24,000-scale maps that have 10 foot contour intervals. These stations are located in the Mechanicsburg and Dillsburg quadrangles. The remaining 1,174 stations are located at spot elevations.

Three secondary bases (figs. 3, 4 and 5) were established within the survey area. These base stations were directly tied to one base station, bench mark NC-17 at the U.S. Geological Survey National Center building, Reston, Virginia (location map fig. 6). Base NC-17 has an adopted gravity value of 980084.05 milligals determined from ties to base station "Washington C" (IGB 11687c, 980103.63 milligals; International Association of Geodesy, 1971, p. 45) at the U.S. Department of Commerce building on 14th Street NW, Washington, D.C. The secondary bases were tied to NC-17 a minimum of six times. Tide corrections were applied but no drift corrections were made in establishing the secondary bases because the distance was too large to close a loop within a reasonable time. The elapsed time between readings at NC-17 and the new bases was between two and three hours. A

listing showing the stations that were referenced to each base is shown in Table 1. Gravity loops were started and closed daily by making repeat observations at one of the secondary bases. Each secondary base was chosen to minimize the distance traveled within the survey area.

Computer programs on the U.S. Geological Survey's Digital Equipment Corporation VAX 11/780 computer system were used to obtain principal facts and terrain-corrected gravity values. A program written by D. Daniels (U.S. Geological Survey, unpub. program, 1985) was used to reduce gravity meter readings to obtain observed gravity values by calculating and correcting for earth-tide and linear instrument drift. Stations DIL 9 through DIL17 had no drift corrections made due to a tare in the meter caused by a hard jolt. Observed gravity values were referenced to the IGSN71 datum (International Association of Geodesy, 1974). The anomaly values were calculated using the 1967 formula of the Geodetic Reference System (International Association of Geodesy, 1971). Mathematical equations for computing the complete Bouguer anomaly, including free-air, terrain and curvature corrections, are given in Cordell and others (1982).

Terrain corrections were computed using a program written by R. Godson (U.S. Geological Survey, unpub. program, 1978), correcting for the gravity effects of terrain from each station to a radius 166.7 km away using the method of Plouff (1977). This program also calculates earth-curvature corrections and complete (terrain-corrected) Bouguer gravity anomaly values. These computed terrain corrections use mean elevation data digitized on a 30-second grid for corrections from 0.895 to 5 km, 1-minute terrain data for corrections from 5 to 21 km, and 3-minute terrain data for corrections from 21 to 166.7 km. A density of 2.67 g/cc was used to calculate the terrain corrections. No inner corrections were performed because of the absence of 15-second terrain data in the area. The topography of the survey area is generally rolling farmland with ridges of up to 1,500 feet in elevation. Corrections and gravity anomaly values are listed in the Appendix.

A complete Bouguer gravity anomaly map at a scale of 1:500,000 is included in this report (fig. 7). A grid based on the complete Bouguer anomaly values was created with a 1 km. grid spacing using program MINC (Webring, 1981). MINC generates a surface through existing data points by means of a minimum curvature interpolation formula (Briggs, 1974). A computer plotted contour map of the gridded data was produced using program CONTOUR (Godson and Webring, 1982), which uses a linear-interpolation technique for positioning contours, with optional contour smoothing using splines under tension. The contour map produced for this report makes use of the smoothing option.

The quadrangles surveyed, along with the quadrangle code and the number of stations in each quadrangle, are listed in Table 2.

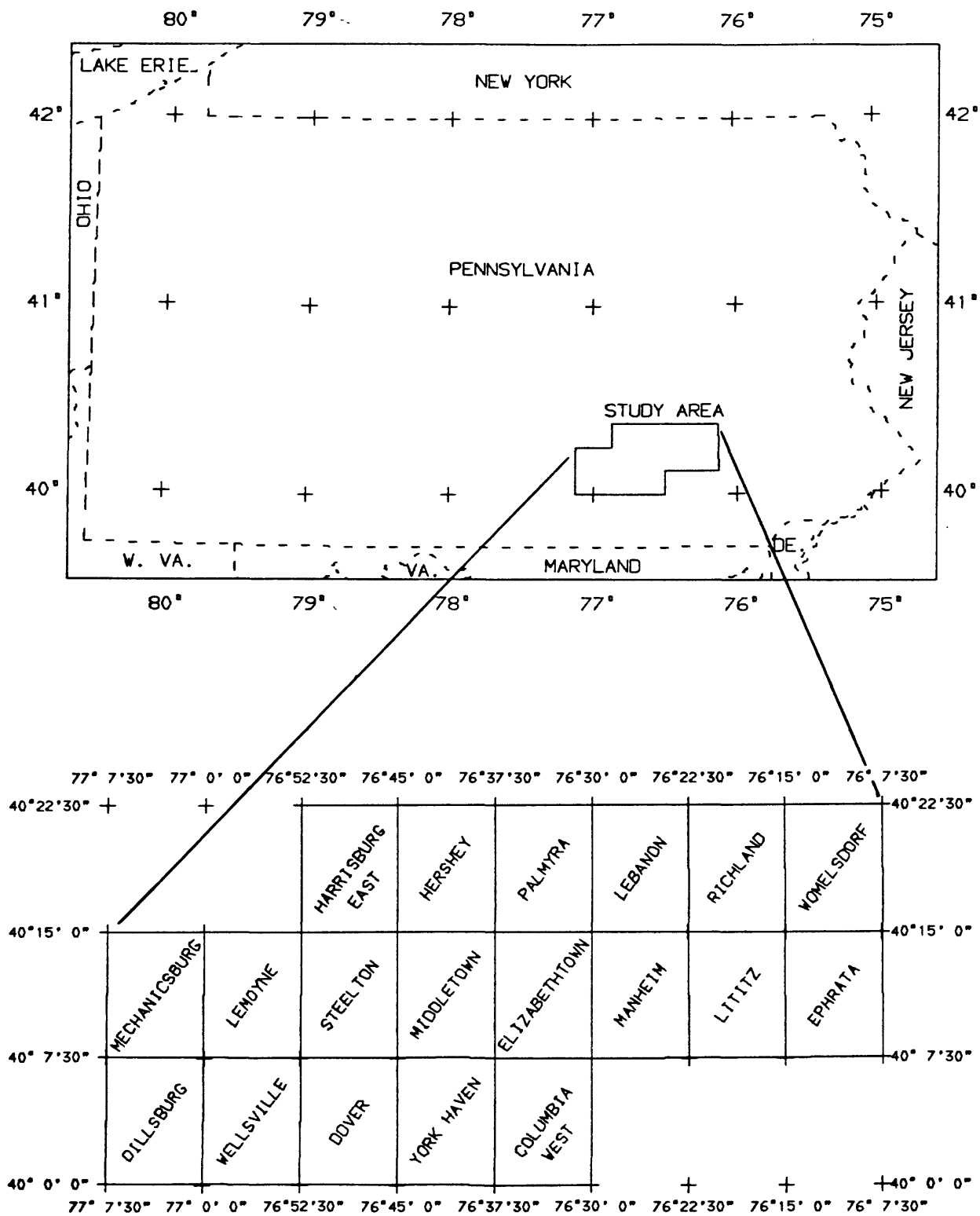


Fig. 1 Location of study area in state of Pennsylvania.

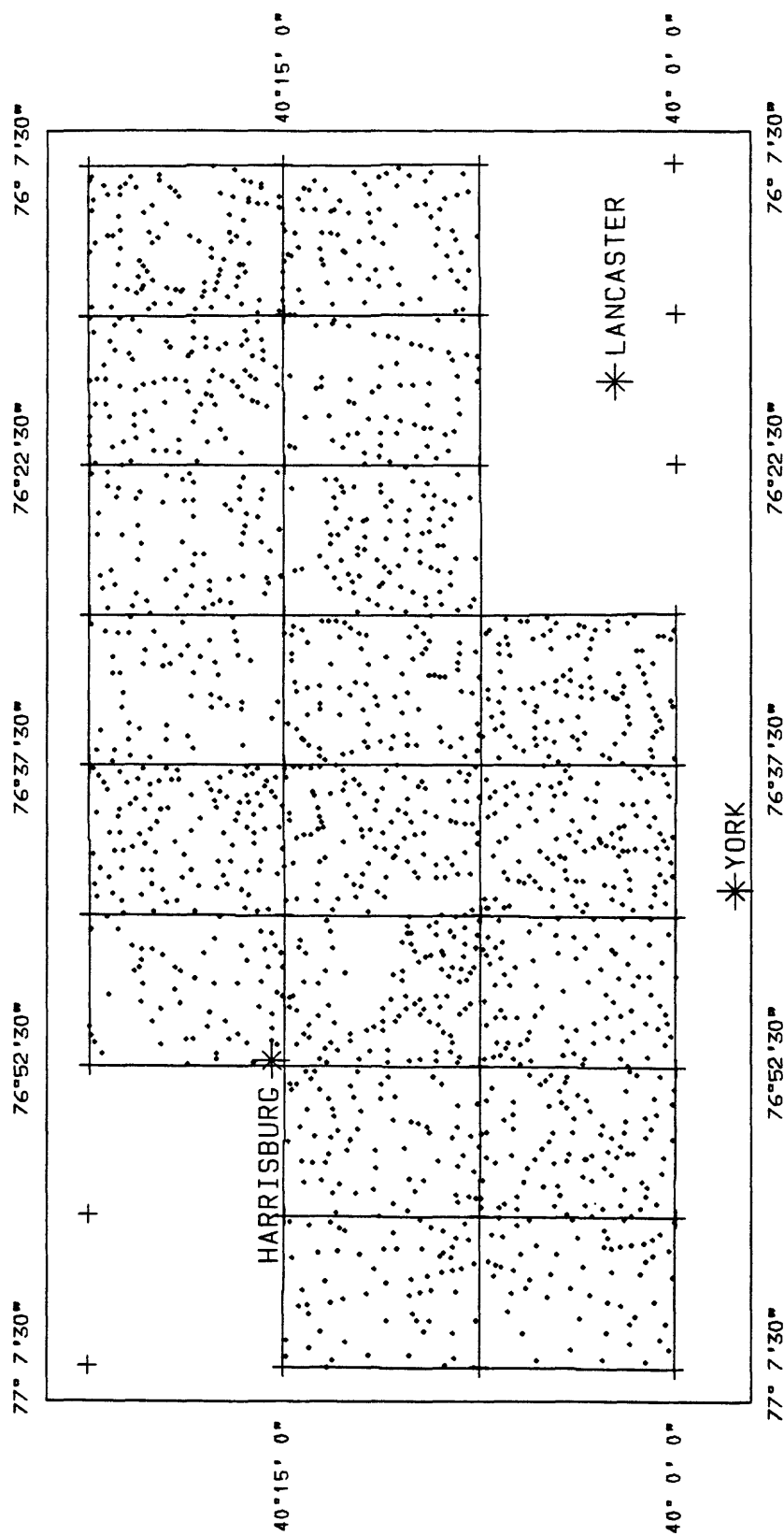


Fig. 2 Location of gravity measurements in this study.
Scale 1:500,000

U.S. Geological Survey Gravity Base Station

State:	Pennsylvania
Station Name:	Newcumb
Observed Gravity:	980118.29 mgals
Elevation:	366.0 feet
Latitude:	40° 12.57' N
Longitude:	76° 53.35' W
Nearest Town:	New Cumberland, Pennsylvania

Description: Lemoyne 7.5' quadrangle, 0.55 miles southwest of the intersection of Interstate 83 exit 18 and Lime Kiln Road, on the property of George Hempt. Station is about 130 feet southeast of a large white frame house, 32 feet northwest of the edge of the road, by the west edge of the driveway to the house. Station is 3.0 feet southwest of the northwest corner of an 11' by 16' concrete slab, 0.7 feet southeast of the southeast corner of a stone culvert with a wooden guardrail on top, marked with a painted circle.

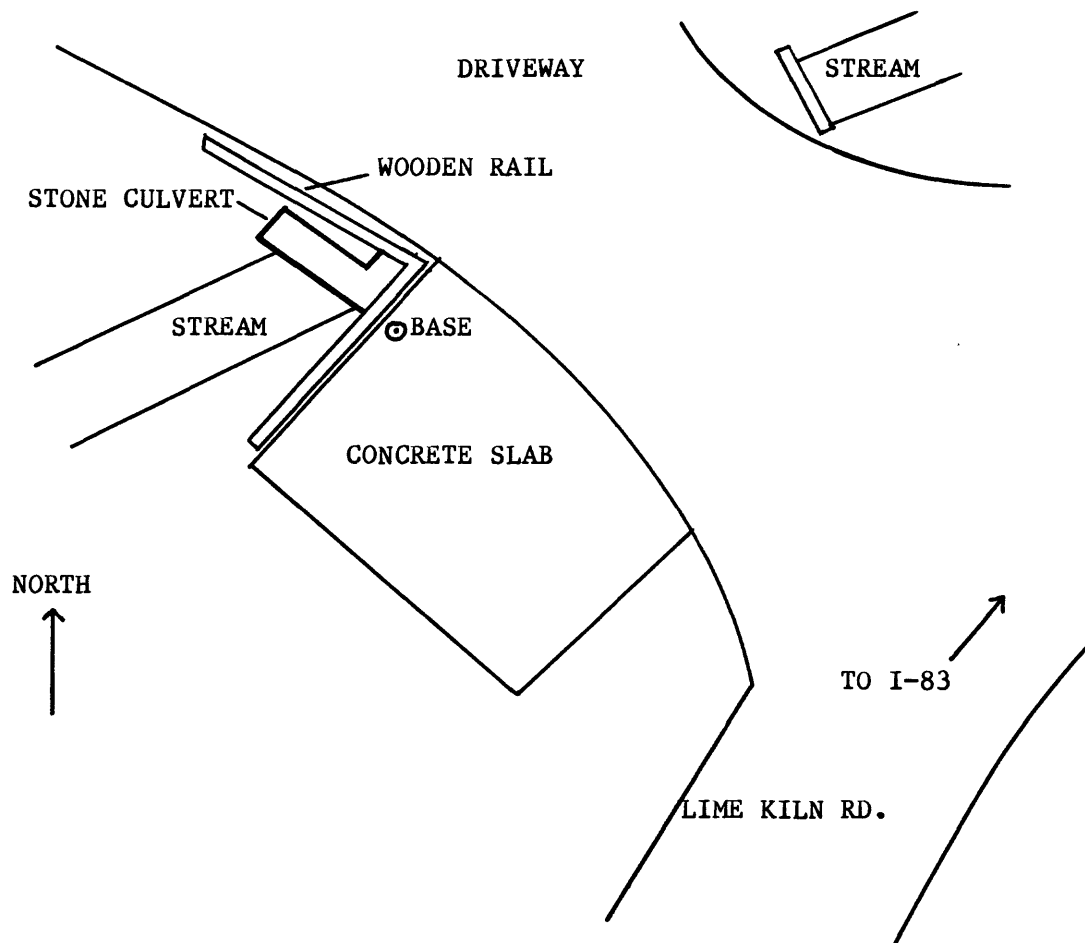


FIGURE 3

U.S. Geological Survey Gravity Base Station

State:	Pennsylvania
Station Name:	Lundy2
Observed Gravity:	980111.80 mgals
Elevation:	395.0 feet
Latitude:	40° 12.97' N
Longitude:	76° 47.40' W
Nearest Town:	Highspire, Pennsylvania

Description: Steelton 7.5' quadrangle, located at the intersection of Interstates 76 and 283 and state route 283, near the Pennsylvania Turnpike Administration building. Station is a reference benchmark stamped "LUNDY NO. 2 1960", 31 feet southwest of benchmark "LUNDY". Station is about 120 feet northwest of the northwest corner of the Administration building, north of an employee parking lot, in a grass field. Station is 22 feet north of the east-west curb and 23 feet west of the north-south curb, set in the top of a concrete post flush with the ground.

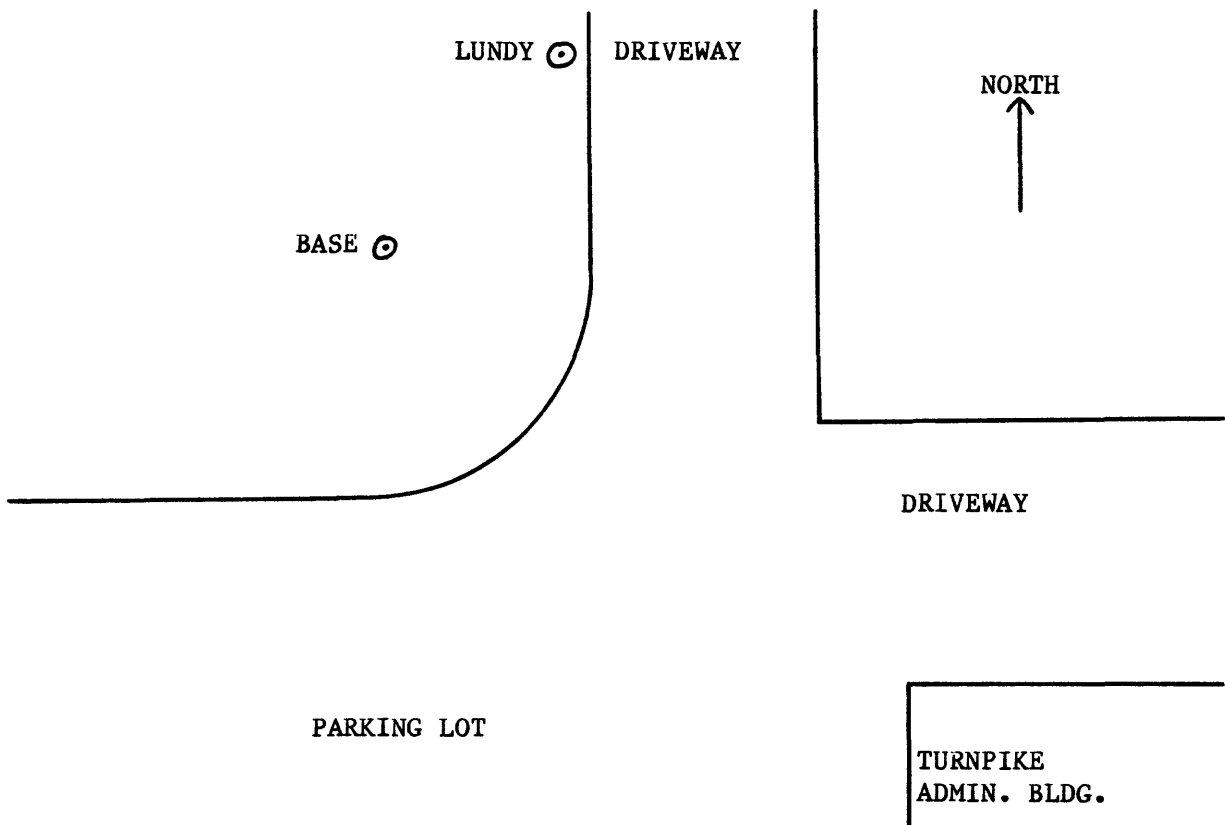


FIGURE 4

U.S. Geological Survey Gravity Base Station

State:	Pennsylvania
Station Name:	Quentin
Observed Gravity:	980090.69 mgals
Elevation:	571.0 feet
Latitude:	40° 16.60' N
Longitude:	76° 26.20' W
Nearest Town	Quentin, Pennsylvania

Description: Lebanon 7.5' quadrangle, located at the Four Seasons Motel, about 200 yards south of the intersection of state routes 72 and 419 in the town of Quentin. Station is at the southern end of the motel, 9 inches from each edge of a concrete walkway, 2 feet south of the southeast corner of the motel, near room 16, marked with a painted circle.

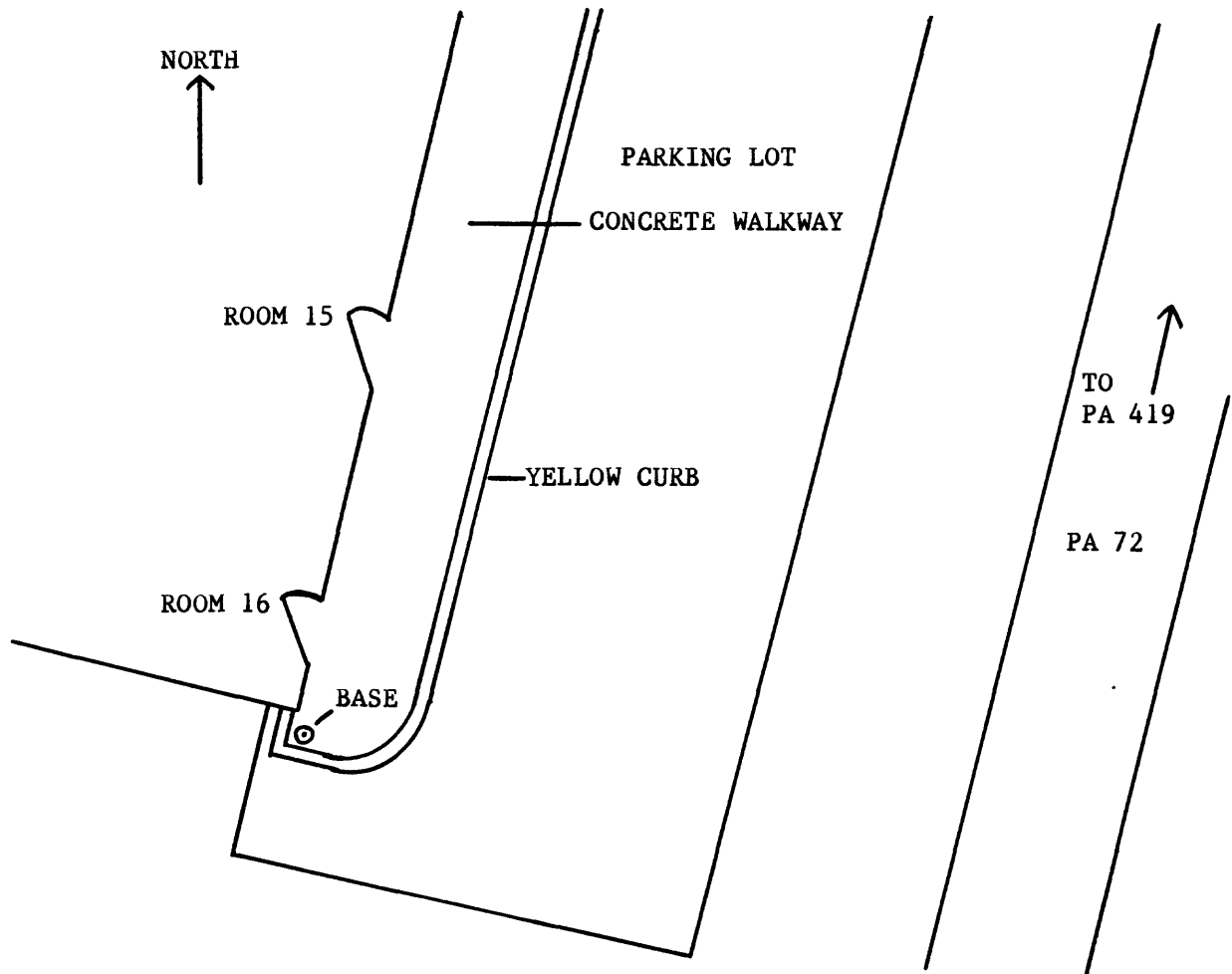


FIGURE 5

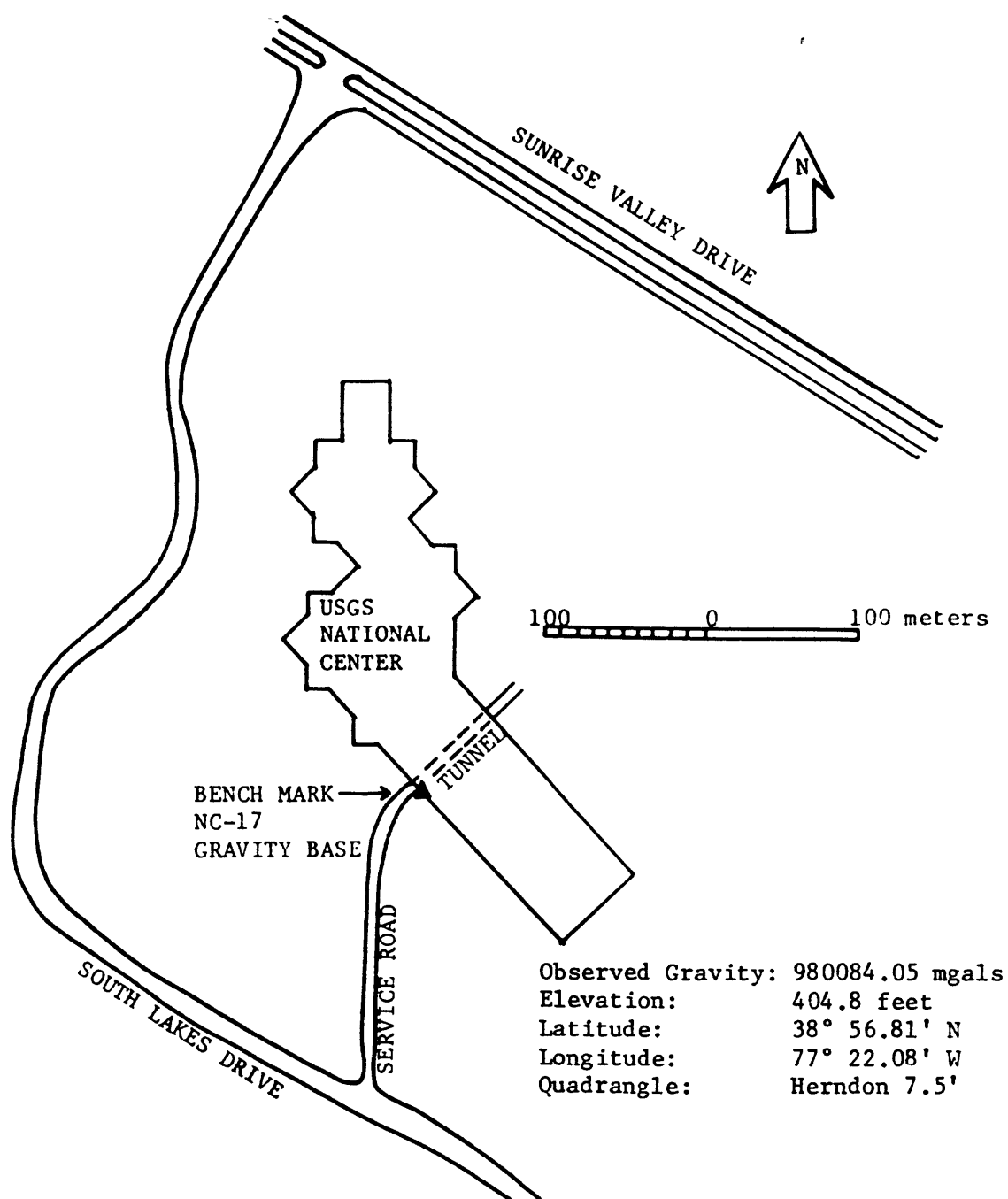


Fig. 6 Location of gravity base NC-17 at the U.S. Geological Survey National Center in Reston, Virginia.

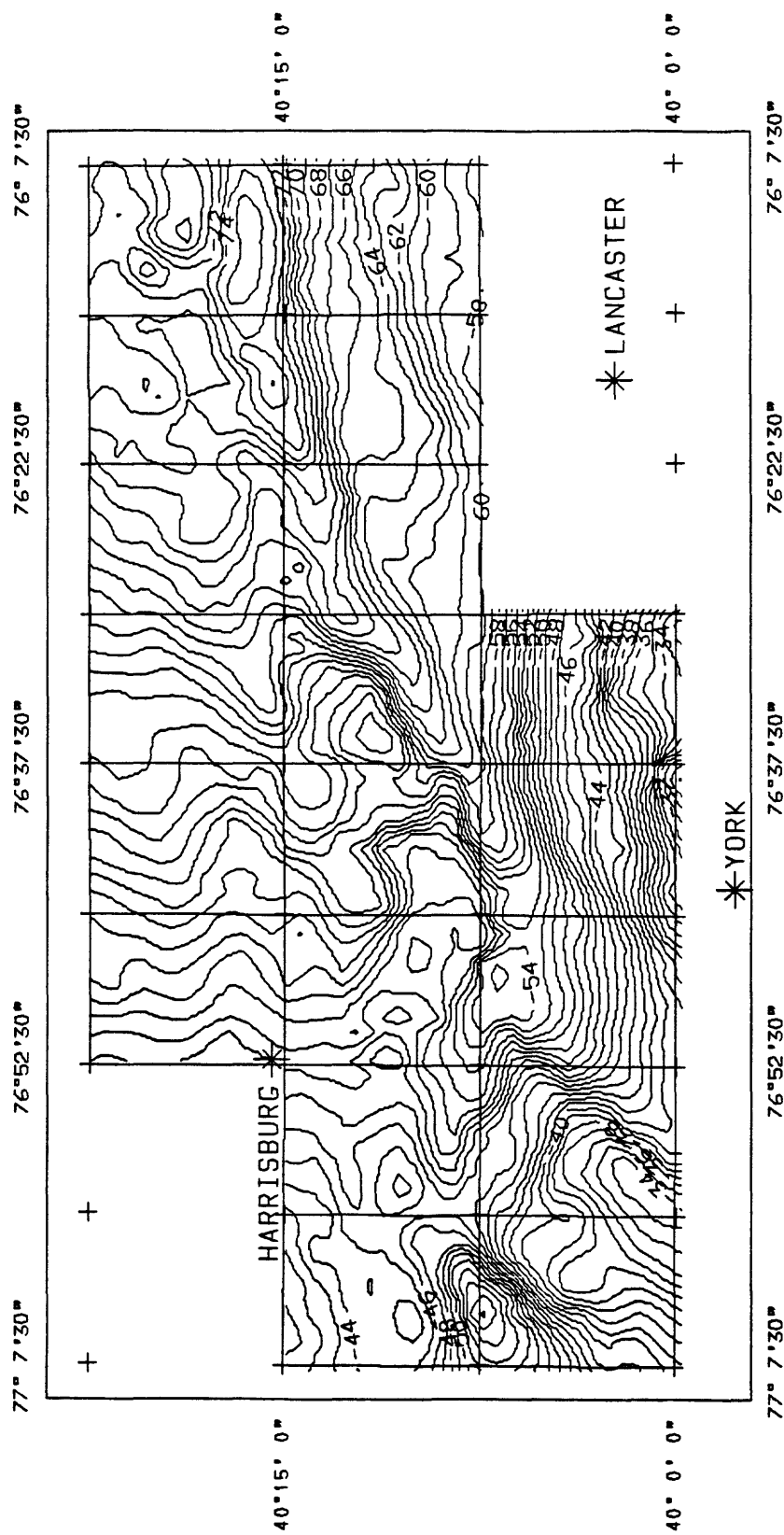


Fig. 7 Gettysburg Basin Complete Bouguer Gravity Map
Scale 1:500,000 - Contour Interval = 1 milligal

References

- Briggs, I. C., 1974, Machine contouring using minimum curvature: *Geophysics*, v. 39, no. 1, p. 39-48.
- Cordell, Lindrith, Keller, G. R., and Hildenbrand, T. G., 1982, Bouguer gravity map of the Rio Grande Rift, Colorado, New Mexico, and Texas: U.S. Geological Survey Geophysical Investigations Map GP-949, scale 1:1,000,000.
- Godson, R. H., and Webring, M. W., 1982, CONTOUR: A modification of G. I. Evendon's general purpose contouring program: U.S. Geological Survey Open-File Report 82-797, 73 p.
- International Association of Geodesy, 1971, Geodetic reference system 1967: International Association of Geodesy Special Publication No. 3, 116 p.
- International Association of Geodesy, 1974, The international gravity standardization net 1971, International Association of Geodesy Special Publication No. 4, 49 p.
- Plouff, Donald, 1977, Preliminary documentation for a FORTRAN program to compute gravity terrain corrections based on topography digitized on a geographic grid: U.S. Geological Survey Open-File Report 77-535, 45 p.
- Webring, Michael, 1981, MINC: A gridding program based on minimum curvature: U.S. Geological Survey Open-File Report 81-1224, 41 p.

TABLE 1: LISTING OF STATIONS REFERENCED TO EACH BASE

<u>NEWCUMB</u>	<u>LUNDY2</u>	<u>QUENTIN</u>
CLW 1-CLW73	CLW74-CLW00	EPH 1-EPH80
DIL 1-DIL57	COW01-COW11	LEB 1-LEB67
DOV 1-DOV89	ELZ 1-ELZ87	LIT 1-LIT63
LEM 1-LEM67	HAE 1-HAE59	MAN 1-MAN86
MEC 1-MEC63	HER 1-HER00	RIC 1-RIC86
MID 1-MID 3	HRS01-HRS09	WOM 1-WOM97
STE 1-STE90	MID 4-MID00	
WEL 1-WEL89	MDT01-MDT02	
YHV 1-YHV88	PAL 1-PAL53	
	STE91-STE00	
	YHV89-YHV00	
	YOH01-YOH12	

TABLE 2: QUADRANGLES SURVEYED

<u>QUAD NAME</u>	<u>QUAD SYMBOLS</u>	<u>NO. STATIONS</u>
COLUMBIA WEST	CLW,COW	111
DILLSBURG	DIL	57
DOVER	DOV	89
ELIZABETHTOWN	ELZ	87
EPHRATA	EPH	80
HARRISBURG EAST	HAE	59
HERSHEY	HER,HRS	109
LEBANON	LEB	67
LEMOYNE	LEM	67
LITITZ	LIT	63
MANHEIM	MAN	86
MECHANICSBURG	MEC	63
MIDDLETOWN	MID,MDT	102
PALMYRA	PAL	53
RICHLAND	RIC	86
STEELTON	STE	100
WELLSVILLE	WEL	89
WOMELSDORF	WOM	97
YORK HAVEN	YHV,YOH	112

APPENDIX: Principal Facts of Gravity Data

Explanation of headings

station-id Gravity station identification number.

Location

latitude North latitude in degrees, decimal
minutes.

longitude West longitude in degrees, decimal
minutes.

elev Station elevation in feet.

Gravity

observed Observed gravity in milligals.

Corrections

terrain Terrain correction, 166.7 km radius,
in milligals.

curv Curvature correction in milligals.

Anomalies

free-air Free-air anomaly in milligals.

complete-Bouguer Complete Bouguer anomaly in milligals
for density of 2.67 g/cc.

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUQUER
CLW 1	40 2.57	76 37.09	749.5	980084.83	0.38	-0.32	-17.46	-42.96
CLW 2	40 2.85	76 36.91	693.0	980088.33	0.35	-0.29	-19.69	-43.27
CLW 3	40 2.05	76 37.33	955.0	980072.99	0.92	-0.40	-9.20	-41.25
CLW 4	40 2.32	76 36.40	690.0	980090.35	0.24	-0.29	-17.16	-40.75
CLW 5	40 2.02	76 35.83	788.0	980084.92	0.52	-0.33	-12.93	-39.62
CLW 6	40 1.77	76 35.40	678.0	980092.13	0.29	-0.29	-15.70	-38.82
CLW 7	40 1.83	76 35.07	675.0	980093.16	0.32	-0.29	-15.04	-38.03
CLW 8	40 1.88	76 34.53	567.0	980100.70	0.14	-0.24	-17.74	-37.18
CLW 9	40 2.28	76 34.15	489.0	980106.20	0.05	-0.21	-20.16	-37.00
CLW10	40 2.43	76 34.02	409.0	980111.15	0.00	-0.18	-22.96	-37.08
CLW11	40 2.68	76 33.83	271.0	980116.86	0.06	-0.12	-30.60	-39.90
CLW12	40 2.07	76 33.93	534.0	980103.78	0.10	-0.23	-18.04	-36.38
CLW13	40 1.98	76 33.50	463.0	980107.62	0.02	-0.20	-20.74	-36.72
CLW14	40 2.20	76 32.90	462.0	980107.39	0.03	-0.20	-21.40	-37.32
CLW15	40 0.78	76 35.78	404.0	980108.94	0.06	-0.17	-23.19	-37.09
CLW16	40 0.92	76 36.00	468.0	980104.90	0.07	-0.20	-21.41	-37.51
CLW17	40 0.98	76 36.68	616.0	980096.00	0.16	-0.26	-16.49	-37.60
CLW18	40 0.93	76 37.05	492.7	980103.82	0.10	-0.21	-20.19	-37.11
CLW19	40 0.10	76 37.09	377.9	980114.57	0.05	-0.16	-19.01	-32.01
CLW20	40 0.55	76 35.58	369.4	980112.62	0.04	-0.16	-22.42	-35.14
CLW21	40 0.65	76 35.23	398.0	980111.03	0.02	-0.17	-21.47	-35.20
CLW22	40 0.75	76 34.97	380.0	980112.54	0.02	-0.16	-21.80	-34.91
CLW23	40 0.12	76 34.53	314.2	980116.73	0.12	-0.14	-22.86	-33.59
CLW24	40 0.20	76 34.25	356.0	980114.31	0.08	-0.15	-21.47	-33.69
CLW25	40 0.88	76 34.57	324.0	980116.12	0.04	-0.14	-23.68	-34.83
CLW26	40 1.04	76 33.98	370.0	980113.64	0.00	-0.16	-22.07	-34.85
CLW27	40 1.17	76 33.37	312.4	980117.28	0.02	-0.14	-24.04	-34.81
CLW28	40 1.27	76 32.93	325.0	980116.33	0.01	-0.14	-23.96	-35.17
CLW29	40 1.43	76 32.55	373.0	980113.14	-0.01	-0.16	-22.87	-35.76
CLW30	40 0.90	76 32.40	263.0	980119.46	0.13	-0.12	-26.11	-35.07
CLW31	40 0.22	76 31.23	522.0	980106.01	0.11	-0.22	-14.19	-32.11
CLW32	40 0.10	76 30.80	613.0	980100.94	0.34	-0.26	-10.53	-31.36
CLW33	40 0.48	76 31.03	402.0	980112.44	0.04	-0.17	-19.44	-33.28
CLW34	40 0.67	76 31.07	329.0	980115.36	0.05	-0.14	-23.66	-34.98
CLW35	40 1.32	76 31.75	359.2	980113.32	-0.01	-0.16	-23.82	-36.24
CLW36	40 1.48	76 31.78	306.4	980116.27	-0.01	-0.13	-26.08	-36.68
CLW37	40 1.60	76 30.02	244.9	980118.47	-0.01	-0.11	-29.85	-38.32
CLW38	40 1.85	76 30.42	251.3	980117.94	-0.01	-0.11	-30.14	-38.83
CLW39	40 2.62	76 30.80	471.0	980103.37	0.07	-0.20	-25.19	-41.38
CLW40	40 2.60	76 30.33	393.0	980107.71	-0.02	-0.17	-28.16	-41.75
CLW41	40 3.10	76 30.75	465.0	980101.48	0.04	-0.20	-28.36	-44.38
CLW42	40 3.22	76 31.25	343.0	980107.36	-0.04	-0.15	-34.12	-46.01
CLW43	40 3.47	76 30.57	386.0	980105.24	-0.03	-0.17	-32.58	-45.94
CLW44	40 3.68	76 30.50	363.0	980106.97	-0.03	-0.16	-33.33	-45.89
CLW45	40 3.77	76 31.02	269.0	980112.13	-0.03	-0.12	-37.14	-46.46
CLW46	40 4.13	76 31.10	268.0	980113.22	-0.04	-0.12	-36.67	-45.97
CLW47	40 4.62	76 30.43	298.0	980110.35	-0.06	-0.13	-37.45	-47.81
CLW48	40 4.77	76 30.75	321.0	980108.35	-0.07	-0.14	-37.51	-48.67
CLW49	40 5.07	76 31.07	404.0	980103.20	-0.03	-0.17	-35.30	-49.28
CLW50	40 5.48	76 31.20	418.0	980100.82	-0.03	-0.18	-36.97	-51.44
CLW51	40 4.94	76 30.12	290.0	980110.02	-0.06	-0.13	-39.01	-49.08
CLW52	40 5.70	76 30.35	370.0	980102.78	-0.06	-0.16	-39.86	-52.70
CLW53	40 5.97	76 30.30	353.0	980102.74	-0.07	-0.15	-41.89	-54.16
CLW54	40 6.53	76 30.18	361.5	980099.96	-0.07	-0.16	-44.71	-57.26
CLW55	40 7.10	76 30.73	403.0	980096.70	-0.06	-0.17	-44.91	-58.89
CLW56	40 7.28	76 30.90	395.0	980096.41	-0.06	-0.17	-46.21	-59.92
CLW57	40 6.77	76 31.47	391.0	980098.06	-0.06	-0.17	-44.18	-57.75
CLW58	40 6.82	76 31.95	376.0	980099.09	-0.07	-0.16	-44.64	-57.70
CLW59	40 6.70	76 32.77	365.0	980099.82	-0.07	-0.16	-44.77	-57.45
CLW60	40 6.38	76 31.98	382.0	980099.65	-0.07	-0.17	-42.86	-56.13
CLW61	40 6.45	76 31.48	385.0	980099.47	-0.07	-0.17	-42.86	-56.23
CLW62	40 6.50	76 31.07	388.0	980098.14	-0.06	-0.17	-43.99	-57.45
CLW63	40 7.18	76 33.72	400.0	980097.14	-0.06	-0.17	-44.87	-58.75
CLW64	40 6.60	76 33.63	361.0	980100.51	-0.07	-0.16	-44.30	-56.84
CLW65	40 6.00	76 33.68	346.0	980102.98	-0.07	-0.15	-42.35	-54.38

GETTYSBURG BASIN GRAVITY

STATION ID	LOCATIONS			OBSERVED GRAVITY (mgals)	CORRECTIONS		ANOMALIES	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUQUER
CLW66	40 5.52	76 33.58	364.0	980104.75	-0.07	-0.16	-38.18	-50.82
CLW67	40 5.08	76 33.32	355.0	980106.23	-0.07	-0.15	-36.89	-49.23
CLW68	40 4.58	76 33.28	397.0	980105.01	-0.04	-0.17	-33.42	-47.17
CLW69	40 4.77	76 31.67	347.0	980107.31	-0.06	-0.15	-36.10	-48.15
CLW70	40 4.07	76 32.73	364.0	980108.01	-0.05	-0.16	-32.77	-45.39
CLW71	40 4.32	76 33.02	363.0	980107.23	-0.06	-0.16	-34.00	-46.60
CLW72	40 4.03	76 33.30	379.0	980107.01	-0.04	-0.16	-32.29	-45.42
CLW73	40 3.63	76 33.57	291.0	980111.33	-0.05	-0.13	-35.65	-45.75
CLW74	40 3.43	76 32.15	264.7	980113.70	-0.03	-0.12	-35.46	-44.64
CLW75	40 3.33	76 33.07	258.9	980113.11	-0.01	-0.11	-36.45	-45.41
CLW76	40 3.32	76 31.62	254.5	980114.63	-0.02	-0.11	-35.33	-44.14
CLW77	40 3.25	76 33.62	261.8	980113.80	0.00	-0.11	-35.37	-44.41
CLW78	40 3.22	76 34.12	248.9	980114.29	0.03	-0.11	-36.05	-44.62
CLW79	40 3.63	76 34.09	307.0	980111.37	-0.05	-0.13	-34.11	-44.77
CLW80	40 3.80	76 35.02	312.0	980111.79	-0.04	-0.14	-33.48	-44.30
CLW81	40 4.17	76 33.95	354.0	980108.31	-0.06	-0.15	-33.56	-45.85
CLW82	40 4.60	76 33.80	399.0	980104.82	-0.04	-0.17	-33.45	-47.28
CLW83	40 4.42	76 35.22	379.0	980106.31	-0.05	-0.16	-33.58	-46.72
CLW84	40 4.92	76 35.33	379.1	980105.40	-0.06	-0.16	-35.22	-48.38
CLW85	40 5.42	76 35.57	417.0	980101.17	-0.05	-0.18	-36.63	-51.08
CLW86	40 5.45	76 34.82	463.2	980098.69	-0.01	-0.20	-34.80	-50.81
CLW87	40 5.33	76 34.50	448.1	980100.08	-0.02	-0.19	-34.66	-50.16
CLW88	40 5.85	76 34.30	390.0	980101.22	-0.07	-0.17	-39.75	-53.29
CLW89	40 6.67	76 34.84	398.0	980098.13	-0.07	-0.17	-43.31	-57.12
CLW90	40 6.78	76 34.30	387.0	980098.55	-0.07	-0.17	-44.09	-57.53
CLW91	40 7.23	76 34.16	394.0	980097.79	-0.07	-0.17	-44.86	-58.54
CLW92	40 7.07	76 35.02	434.0	980095.94	-0.05	-0.19	-42.70	-57.74
CLW93	40 6.92	76 35.63	453.0	980095.04	-0.04	-0.20	-41.60	-57.28
CLW94	40 7.43	76 36.02	498.0	980091.58	-0.01	-0.21	-41.59	-58.80
CLW95	40 6.77	76 37.12	377.0	980100.17	-0.06	-0.16	-43.39	-56.47
CLW96	40 6.17	76 36.58	388.0	980099.97	-0.07	-0.17	-41.66	-55.14
CLW97	40 5.83	76 36.77	420.0	980099.47	-0.05	-0.18	-38.65	-53.21
CLW98	40 6.40	76 36.07	399.0	980098.95	-0.06	-0.17	-41.99	-55.83
CLW99	40 6.67	76 35.50	411.0	980097.86	-0.06	-0.18	-42.35	-56.61
CLW00	40 5.42	76 36.09	377.0	980103.64	-0.06	-0.16	-37.92	-51.01
COW01	40 5.37	76 36.47	436.0	980100.25	-0.03	-0.19	-35.68	-50.77
COW02	40 5.05	76 37.43	371.0	980105.18	-0.06	-0.16	-36.39	-49.26
COW03	40 4.90	76 37.02	355.0	980106.69	-0.06	-0.15	-36.17	-48.49
COW04	40 4.65	76 36.30	347.0	980108.36	-0.06	-0.15	-34.88	-46.92
COW05	40 5.00	76 36.08	352.0	980106.76	-0.06	-0.15	-36.53	-48.75
COW06	40 4.53	76 37.27	376.0	980106.51	-0.04	-0.16	-33.82	-46.84
COW07	40 4.15	76 37.48	364.0	980107.47	-0.03	-0.16	-33.42	-46.02
COW08	40 3.80	76 36.18	293.0	980112.95	0.01	-0.13	-34.10	-44.21
COW09	40 3.73	76 36.68	268.5	980114.07	0.08	-0.12	-35.18	-44.38
COW10	40 3.52	76 35.87	262.2	980113.86	0.09	-0.11	-35.67	-44.63
COW11	40 4.00	76 36.02	329.0	980110.04	-0.03	-0.14	-33.92	-45.32
DIL 1	40 6.87	77 2.34	536.8	980102.64	0.07	-0.23	-26.04	-44.51
DIL 2	40 6.70	77 2.48	536.6	980102.55	0.08	-0.23	-25.90	-44.35
DIL 3	40 6.20	77 2.65	580.3	980100.63	0.06	-0.25	-22.97	-42.95
DIL 4	40 5.55	77 3.07	695.5	980094.58	0.07	-0.29	-17.22	-41.16
DIL 5	40 5.95	77 1.88	657.0	980098.66	0.03	-0.28	-17.35	-40.00
DIL 6	40 4.78	77 2.83	743.1	980093.20	0.12	-0.31	-12.98	-38.52
DIL 7	40 6.07	77 0.42	567.4	980103.29	0.03	-0.24	-21.32	-40.89
DIL 8	40 3.97	77 0.15	554.0	980101.99	-0.01	-0.24	-20.77	-39.91
DIL 9	40 6.25	77 3.80	692.0	980086.80	0.19	-0.29	-26.36	-50.07
DIL10	40 5.83	77 5.80	804.0	980077.46	0.39	-0.34	-24.55	-51.92
DIL11	40 5.32	77 7.10	1580.0	980029.74	3.02	-0.62	1.47	-50.03
DIL12	40 2.77	77 7.07	686.0	980088.77	0.09	-0.29	-19.79	-43.39
DIL13	40 1.75	77 5.32	514.7	980099.67	0.01	-0.22	-23.49	-41.25
DIL14	40 0.57	77 6.12	543.0	980096.17	0.01	-0.23	-22.57	-41.31
DIL15	40 0.23	77 6.57	585.1	980092.77	0.01	-0.25	-21.50	-41.70
DIL16	40 0.77	77 4.25	484.0	980101.57	-0.03	-0.21	-23.02	-39.77
DIL17	40 0.35	77 5.30	558.0	980095.81	-0.01	-0.24	-21.20	-40.48
DIL18	40 1.35	77 2.80	599.7	980097.44	0.03	-0.26	-17.13	-37.81
DIL19	40 6.77	77 0.03	644.0	980097.90	0.03	-0.27	-20.55	-42.76

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUQUER
DIL20	40 7.00	77 0.88	622.0	980098.98	0.02	-0.26	-21.88	-43.34
DIL21	40 6.60	77 0.97	653.0	980098.10	0.03	-0.28	-19.26	-41.77
DIL22	40 3.98	77 3.53	543.1	980105.36	0.03	-0.23	-18.44	-37.16
DIL23	40 3.28	77 3.92	517.2	980105.22	0.02	-0.22	-19.97	-37.81
DIL24	40 2.55	77 4.21	517.1	980102.86	0.00	-0.22	-21.26	-39.12
DIL25	40 2.08	77 4.44	589.0	980097.19	0.01	-0.25	-19.47	-39.80
DIL26	40 1.50	77 4.96	505.7	980099.65	-0.01	-0.22	-23.99	-41.46
DIL27	40 0.60	77 0.80	439.6	980109.24	-0.06	-0.19	-19.27	-34.51
DIL28	40 1.93	77 0.15	434.0	980110.63	-0.05	-0.19	-20.38	-35.42
DIL29	40 7.17	77 2.17	562.0	980099.40	0.03	-0.24	-27.35	-46.73
DIL30	40 6.95	77 2.95	582.0	980095.71	0.15	-0.25	-28.85	-48.80
DIL31	40 6.40	77 4.69	690.0	980086.10	0.47	-0.29	-27.48	-50.83
DIL32	40 5.75	77 3.52	698.0	980091.87	0.12	-0.30	-19.99	-43.97
DIL33	40 4.87	77 4.02	670.0	980095.44	0.12	-0.28	-17.74	-40.76
DIL34	40 3.63	77 5.05	604.0	980095.56	0.06	-0.26	-21.98	-42.78
DIL35	40 3.97	77 6.55	656.0	980089.62	0.19	-0.28	-23.55	-46.01
DIL36	40 2.60	77 5.77	547.0	980098.60	0.04	-0.23	-22.79	-41.64
DIL37	40 1.73	77 6.28	569.0	980094.18	0.03	-0.24	-23.84	-43.46
DIL38	40 1.12	77 7.18	642.0	980088.61	0.04	-0.27	-21.64	-43.77
DIL39	40 0.10	77 2.95	538.0	980100.94	-0.03	-0.23	-17.58	-36.19
DIL40	40 0.23	77 1.65	454.9	980106.92	-0.05	-0.20	-19.61	-35.37
DIL41	40 0.85	77 1.93	486.3	980105.45	-0.05	-0.21	-19.05	-35.89
DIL42	40 0.07	77 0.18	443.0	980109.09	-0.05	-0.19	-18.32	-33.67
DIL43	40 0.83	77 1.08	451.5	980108.34	-0.05	-0.19	-19.39	-35.04
DIL44	40 1.22	77 1.30	485.5	980106.64	-0.05	-0.21	-18.47	-35.29
DIL45	40 1.16	77 2.15	501.1	980104.53	-0.05	-0.22	-19.03	-36.39
DIL46	40 1.70	77 1.35	540.7	980103.51	-0.03	-0.23	-17.13	-35.83
DIL47	40 2.11	77 1.45	536.1	980103.25	-0.03	-0.23	-18.43	-36.97
DIL48	40 2.43	77 1.55	512.0	980104.50	-0.04	-0.22	-19.92	-37.64
DIL49	40 2.68	77 1.50	491.1	980105.97	-0.03	-0.21	-20.79	-37.78
DIL50	40 2.58	77 1.04	476.8	980107.02	-0.04	-0.21	-20.93	-37.44
DIL51	40 2.68	77 0.63	468.9	980107.83	-0.04	-0.20	-21.02	-37.25
DIL52	40 2.43	77 2.72	532.0	980102.76	-0.03	-0.23	-19.78	-38.18
DIL53	40 3.50	77 2.47	636.0	980098.94	0.02	-0.27	-15.41	-37.35
DIL54	40 3.75	77 1.02	515.0	980104.45	-0.02	-0.22	-21.65	-39.45
DIL55	40 4.57	77 1.82	700.0	980094.95	0.08	-0.30	-14.97	-39.06
DIL56	40 5.28	77 1.35	717.0	980094.53	0.08	-0.30	-14.84	-39.52
DIL57	40 5.57	77 0.15	598.0	980101.33	0.05	-0.26	-19.67	-40.27
DOV 1	40 7.40	76 46.68	717.0	980086.79	0.39	-0.30	-25.73	-50.10
DOV 2	40 7.27	76 46.97	611.0	980092.03	0.11	-0.26	-30.26	-51.25
DOV 3	40 6.92	76 46.57	577.0	980092.03	0.09	-0.25	-32.94	-52.78
DOV 4	40 6.68	76 46.32	562.0	980090.90	0.09	-0.24	-35.13	-54.45
DOV 5	40 7.17	76 46.03	545.0	980096.98	0.05	-0.23	-31.37	-50.14
DOV 6	40 6.77	76 45.20	414.0	980100.09	-0.06	-0.18	-39.99	-54.35
DOV 7	40 5.60	76 45.80	446.6	980096.86	-0.03	-0.19	-38.42	-53.87
DOV 8	40 5.22	76 45.40	436.0	980097.55	-0.04	-0.19	-38.17	-53.26
DOV 9	40 4.53	76 45.15	324.0	980104.60	-0.05	-0.14	-40.62	-51.86
DOV10	40 4.62	76 45.93	389.0	980100.97	-0.05	-0.17	-38.27	-51.76
DOV11	40 3.88	76 46.05	406.0	980100.50	-0.05	-0.18	-36.04	-50.12
DOV12	40 3.02	76 45.97	378.9	980103.22	-0.06	-0.16	-34.59	-47.74
DOV13	40 3.17	76 45.15	345.4	980105.18	-0.04	-0.15	-36.01	-47.98
DOV14	40 3.47	76 46.57	416.0	980100.26	-0.05	-0.18	-34.74	-49.15
DOV15	40 3.87	76 47.08	472.0	980096.60	0.00	-0.20	-33.72	-50.03
DOV16	40 4.55	76 46.85	467.0	980096.19	0.00	-0.20	-35.61	-51.74
DOV17	40 5.50	76 47.15	401.0	980099.21	0.00	-0.17	-40.21	-54.06
DOV18	40 6.17	76 47.57	461.0	980095.88	-0.04	-0.20	-38.89	-54.85
DOV19	40 6.58	76 47.92	322.2	980103.78	0.03	-0.14	-44.65	-55.75
DOV20	40 7.13	76 47.35	530.7	980093.22	0.00	-0.23	-36.43	-54.75
DOV21	40 6.72	76 47.13	547.1	980091.80	0.04	-0.23	-35.70	-54.55
DOV22	40 6.90	76 48.43	407.0	980100.06	-0.04	-0.18	-40.87	-54.97
DOV23	40 7.33	76 49.28	378.0	980102.83	-0.01	-0.16	-41.47	-54.54
DOV24	40 6.70	76 49.68	553.0	980091.34	0.02	-0.24	-35.57	-54.65
DOV25	40 6.08	76 50.07	515.0	980093.15	-0.01	-0.22	-36.41	-54.21
DOV26	40 6.93	76 50.02	460.0	980097.21	-0.04	-0.20	-38.79	-54.72
DOV27	40 7.25	76 50.42	488.0	980096.33	-0.03	-0.21	-37.51	-54.39

GETTYSBURG BASIN GRAVITY

STATION ID	LOCATIONS			OBSERVED GRAVITY (mgals)	CORRECTIONS-		ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN	CURV	FREE AIR	COMPLETE BOUQUER
DOV28	40 6.82	76 51.27	593.0	980093.41	0.03	-0.25	-29.92	-50.36
DOV29	40 6.97	76 52.02	630.0	980090.62	0.06	-0.27	-29.44	-51.14
DOV30	40 6.68	76 51.95	663.2	980091.24	0.10	-0.28	-25.27	-48.07
DOV31	40 6.25	76 52.08	644.0	980092.17	0.09	-0.27	-25.50	-47.65
DOV32	40 5.97	76 52.40	589.0	980093.83	0.04	-0.25	-26.61	-46.91
DOV33	40 5.53	76 52.20	515.0	980099.23	0.00	-0.22	-29.51	-47.30
DOV34	40 6.48	76 51.58	694.0	980088.88	0.19	-0.29	-24.44	-48.21
DOV35	40 6.42	76 51.27	524.0	980097.04	-0.01	-0.22	-32.18	-50.29
DOV36	40 5.95	76 51.37	391.0	980102.70	0.03	-0.17	-38.32	-51.80
DOV37	40 5.70	76 51.12	345.0	980103.90	0.05	-0.15	-41.09	-52.95
DOV38	40 5.65	76 50.77	415.0	980099.13	-0.03	-0.18	-39.20	-53.56
DOV39	40 4.40	76 50.48	596.1	980088.25	0.06	-0.25	-31.19	-51.72
DOV40	40 5.15	76 49.47	363.8	980101.29	0.09	-0.16	-41.10	-53.58
DOV41	40 3.93	76 51.87	350.5	980104.31	0.14	-0.15	-37.53	-49.49
DOV42	40 4.30	76 51.95	457.0	980098.05	-0.01	-0.20	-34.33	-50.12
DOV43	40 3.48	76 52.07	413.0	980101.36	0.08	-0.18	-33.93	-48.12
DOV44	40 3.58	76 52.38	419.0	980101.24	0.02	-0.18	-33.63	-48.09
DOV45	40 3.82	76 50.70	845.0	980073.44	0.57	-0.35	-21.72	-50.33
DOV46	40 6.35	76 48.42	484.0	980094.80	-0.03	-0.21	-38.07	-54.82
DOV47	40 7.30	76 52.10	619.0	980090.81	0.06	-0.26	-30.78	-52.09
DOV48	40 6.60	76 50.03	482.0	980095.62	-0.04	-0.21	-37.82	-54.51
DOV49	40 5.42	76 49.95	382.0	980100.39	0.00	-0.17	-40.70	-53.89
DOV50	40 5.32	76 48.45	598.2	980087.47	0.08	-0.26	-33.14	-53.71
DOV51	40 4.35	76 48.70	717.0	980080.32	0.22	-0.30	-27.67	-52.21
DOV52	40 3.38	76 48.25	548.0	980092.26	0.06	-0.23	-30.19	-49.05
DOV53	40 2.85	76 47.67	448.0	980099.26	-0.02	-0.19	-31.81	-47.30
DOV54	40 2.47	76 46.68	332.4	980106.57	-0.03	-0.14	-34.80	-46.31
DOV55	40 2.33	76 46.80	363.0	980104.97	-0.05	-0.16	-33.31	-45.90
DOV56	40 1.65	76 46.03	451.0	980101.47	-0.04	-0.19	-27.53	-43.15
DOV57	40 2.08	76 45.15	458.0	980101.20	-0.04	-0.20	-27.78	-43.64
DOV58	40 0.95	76 45.17	521.0	980101.08	0.00	-0.22	-20.30	-38.29
DOV59	40 0.28	76 45.85	525.0	980101.84	0.00	-0.23	-18.17	-36.30
DOV60	40 1.03	76 46.40	446.0	980102.94	-0.05	-0.19	-25.60	-41.06
DOV61	40 0.52	76 47.28	466.0	980101.61	-0.03	-0.20	-24.30	-40.43
DOV62	40 1.04	76 47.97	397.0	980104.86	-0.06	-0.17	-28.31	-42.09
DOV63	40 0.03	76 47.97	377.0	980107.68	-0.06	-0.16	-25.87	-38.95
DOV64	40 0.98	76 48.85	477.0	980100.04	-0.03	-0.21	-25.52	-42.02
DOV65	40 1.42	76 47.95	447.0	980101.35	-0.05	-0.19	-27.68	-43.17
DOV66	40 1.88	76 47.35	398.0	980103.49	-0.06	-0.17	-30.84	-44.64
DOV67	40 2.18	76 48.07	394.0	980103.24	-0.04	-0.17	-31.91	-45.56
DOV68	40 1.62	76 48.47	437.0	980101.19	-0.05	-0.19	-29.08	-44.22
DOV69	40 1.70	76 49.70	533.1	980095.65	0.01	-0.23	-25.71	-44.11
DOV70	40 2.42	76 49.20	536.0	980094.34	0.02	-0.23	-27.81	-46.30
DOV71	40 2.70	76 48.90	447.0	980099.12	0.02	-0.19	-31.82	-47.24
DOV72	40 2.11	76 49.92	541.0	980094.54	0.01	-0.23	-26.68	-45.35
DOV73	40 2.68	76 50.08	585.0	980091.02	0.05	-0.25	-26.91	-47.06
DOV74	40 3.13	76 50.27	651.5	980086.38	0.09	-0.28	-25.96	-48.36
DOV75	40 4.19	76 51.20	504.0	980094.41	0.03	-0.22	-33.38	-50.76
DOV76	40 3.15	76 51.32	550.0	980092.39	0.07	-0.24	-29.52	-48.45
DOV77	40 2.62	76 51.03	891.0	980072.63	0.71	-0.37	-16.42	-46.47
DOV78	40 2.11	76 52.05	644.0	980088.94	0.11	-0.27	-22.59	-44.72
DOV79	40 1.83	76 52.42	682.0	980087.05	0.18	-0.29	-20.49	-43.86
DOV80	40 2.05	76 51.20	602.0	980091.15	0.06	-0.26	-24.24	-44.97
DOV81	40 1.65	76 50.77	528.0	980096.01	0.00	-0.23	-25.75	-43.98
DOV82	40 1.13	76 50.28	447.0	980101.21	-0.04	-0.19	-27.39	-42.87
DOV83	40 0.67	76 50.55	419.0	980103.58	-0.05	-0.18	-26.97	-41.50
DOV84	40 0.43	76 51.40	507.0	980098.65	-0.02	-0.22	-23.27	-40.80
DOV85	40 1.08	76 51.98	521.0	980097.29	-0.01	-0.22	-24.28	-42.29
DOV86	40 0.18	76 50.92	430.7	980103.29	-0.05	-0.19	-25.44	-40.36
DOV87	40 0.32	76 50.27	433.0	980103.15	-0.05	-0.19	-25.57	-40.57
DOV88	40 0.42	76 49.85	390.5	980105.37	-0.06	-0.17	-27.49	-41.04
DOV89	40 0.60	76 49.45	448.0	980101.94	-0.05	-0.19	-25.78	-41.30
ELZ 1	40 7.58	76 33.08	410.0	980096.36	-0.06	-0.18	-45.30	-59.52
ELZ 2	40 8.37	76 32.73	501.0	980090.80	0.00	-0.22	-43.48	-60.78
ELZ 3	40 8.37	76 32.40	479.0	980092.20	-0.02	-0.21	-44.15	-60.71

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUGUER
ELZ 4	40 8.28	76 31.87	476.0	980092.15	-0.02	-0.20	-44.34	-60.80
ELZ 5	40 7.67	76 31.85	404.0	980096.44	-0.06	-0.17	-45.91	-59.93
ELZ 6	40 8.30	76 31.40	476.0	980091.92	-0.02	-0.20	-44.60	-61.06
ELZ 7	40 9.38	76 30.07	362.0	980099.63	-0.04	-0.16	-49.23	-61.77
ELZ 8	40 9.97	76 30.60	430.0	980094.90	-0.05	-0.19	-48.43	-63.34
ELZ 9	40 9.68	76 30.93	369.0	980099.11	-0.04	-0.16	-49.53	-62.32
ELZ10	40 9.47	76 31.32	386.0	980097.88	-0.05	-0.17	-48.85	-62.23
ELZ11	40 9.60	76 31.60	467.0	980092.54	-0.04	-0.20	-46.76	-62.93
ELZ12	40 9.72	76 31.93	499.9	980089.53	-0.02	-0.21	-46.86	-64.14
ELZ13	40 10.20	76 31.08	382.0	980096.40	-0.04	-0.17	-51.79	-65.03
ELZ14	40 10.05	76 32.18	515.0	980087.79	-0.01	-0.22	-47.67	-65.47
ELZ15	40 10.48	76 32.93	492.0	980090.29	-0.04	-0.21	-47.97	-65.00
ELZ16	40 9.47	76 33.03	542.0	980086.85	0.01	-0.23	-45.21	-63.92
ELZ17	40 9.28	76 33.02	532.0	980087.79	0.00	-0.23	-44.93	-63.30
ELZ18	40 9.05	76 33.05	493.0	980090.59	-0.03	-0.21	-45.45	-62.50
ELZ19	40 8.87	76 33.09	504.0	980090.23	-0.02	-0.22	-44.51	-61.94
ELZ20	40 10.87	76 36.02	475.4	980101.55	-0.05	-0.20	-38.85	-55.32
ELZ21	40 10.93	76 36.66	426.0	980104.17	-0.05	-0.18	-40.96	-55.73
ELZ22	40 10.27	76 36.47	574.0	980092.62	0.03	-0.25	-37.61	-57.41
ELZ23	40 10.70	76 37.43	408.6	980104.86	-0.05	-0.18	-41.57	-55.74
ELZ24	40 9.92	76 36.48	595.2	980087.60	0.06	-0.25	-40.12	-60.62
ELZ25	40 10.30	76 35.97	587.0	980088.78	0.04	-0.25	-40.28	-60.51
ELZ26	40 10.47	76 34.87	507.0	980091.72	-0.04	-0.22	-45.11	-62.66
ELZ27	40 10.75	76 34.09	530.0	980090.54	-0.02	-0.23	-44.54	-62.87
ELZ28	40 10.27	76 33.87	521.0	980088.70	-0.03	-0.22	-46.52	-64.55
ELZ29	40 9.88	76 34.68	516.0	980088.78	-0.03	-0.22	-46.33	-64.18
ELZ30	40 8.22	76 33.75	430.0	980095.26	-0.05	-0.19	-45.47	-60.37
ELZ31	40 7.82	76 33.90	424.0	980095.81	-0.05	-0.18	-44.90	-59.59
ELZ32	40 7.65	76 35.40	445.0	980094.59	-0.05	-0.19	-43.89	-59.31
ELZ33	40 7.53	76 35.98	511.4	980090.60	0.00	-0.22	-41.45	-59.11
ELZ34	40 8.22	76 36.08	534.0	980087.73	0.00	-0.23	-43.22	-61.66
ELZ35	40 7.63	76 36.77	512.0	980089.69	0.00	-0.22	-42.46	-60.14
ELZ36	40 8.12	76 37.00	399.1	980095.48	-0.03	-0.17	-48.01	-61.83
ELZ37	40 8.67	76 36.57	450.0	980092.21	-0.05	-0.19	-47.31	-62.91
ELZ38	40 8.97	76 36.30	441.4	980092.77	-0.05	-0.19	-48.01	-63.30
ELZ39	40 9.08	76 35.58	485.0	980090.22	-0.04	-0.21	-46.62	-63.41
ELZ40	40 13.43	76 37.18	556.0	980096.43	-0.01	-0.24	-40.19	-59.40
ELZ41	40 13.62	76 36.97	538.0	980097.51	-0.02	-0.23	-41.09	-59.69
ELZ42	40 13.62	76 36.63	484.0	980102.47	-0.04	-0.21	-41.20	-57.96
ELZ43	40 14.08	76 36.43	562.0	980096.83	-0.01	-0.24	-40.20	-59.61
ELZ44	40 14.25	76 36.23	612.0	980093.72	0.05	-0.26	-38.85	-59.94
ELZ45	40 14.35	76 36.08	614.0	980093.76	0.05	-0.26	-38.77	-59.93
ELZ46	40 14.53	76 35.68	611.1	980092.87	0.05	-0.26	-40.21	-61.26
ELZ47	40 14.90	76 35.43	579.0	980093.89	0.00	-0.25	-42.76	-62.76
ELZ48	40 14.10	76 34.91	563.0	980096.23	-0.01	-0.24	-40.74	-60.19
ELZ49	40 12.92	76 34.93	539.0	980098.29	-0.02	-0.23	-39.18	-57.81
ELZ50	40 13.65	76 34.68	560.0	980097.04	-0.01	-0.24	-39.54	-58.89
ELZ51	40 13.68	76 34.40	517.0	980099.64	-0.04	-0.22	-41.03	-58.93
ELZ52	40 13.02	76 37.47	541.0	980096.70	-0.02	-0.23	-40.73	-59.43
ELZ53	40 12.78	76 36.93	483.2	980102.29	-0.05	-0.21	-40.22	-56.95
ELZ54	40 12.43	76 36.80	443.4	980104.32	-0.05	-0.19	-41.41	-56.77
ELZ55	40 11.77	76 36.52	435.5	980104.91	-0.05	-0.19	-40.58	-55.67
ELZ56	40 11.35	76 36.25	423.8	980105.22	-0.05	-0.18	-40.74	-55.43
ELZ57	40 11.93	76 36.27	451.0	980104.13	-0.06	-0.19	-40.14	-55.78
ELZ58	40 11.83	76 35.41	454.0	980104.03	-0.05	-0.20	-39.81	-55.54
ELZ59	40 12.02	76 34.70	450.0	980103.37	-0.05	-0.19	-41.13	-56.72
ELZ60	40 11.47	76 34.53	453.0	980102.47	-0.04	-0.20	-40.93	-56.61
ELZ61	40 11.55	76 34.03	475.0	980100.92	-0.04	-0.20	-40.52	-56.97
ELZ62	40 11.90	76 33.45	461.0	980101.64	-0.04	-0.20	-41.65	-57.61
ELZ63	40 12.27	76 33.30	450.9	980102.06	-0.04	-0.19	-42.72	-58.33
ELZ64	40 11.78	76 32.45	665.0	980084.26	0.18	-0.28	-39.66	-62.44
ELZ65	40 11.08	76 32.12	439.0	980093.61	-0.04	-0.19	-50.53	-65.73
ELZ66	40 12.05	76 31.63	462.0	980093.58	-0.03	-0.20	-49.84	-65.83
ELZ67	40 12.90	76 31.12	534.0	980089.82	-0.02	-0.23	-48.09	-66.55
ELZ68	40 12.48	76 30.63	470.0	980091.61	-0.03	-0.20	-51.69	-67.95

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUQUER
ELZ69	40 12.15	76 30.92	492.0	980090.48	-0.03	-0.21	-50.26	-67.28
ELZ70	40 11.85	76 31.03	479.0	980090.95	-0.03	-0.21	-50.56	-67.14
ELZ71	40 12.72	76 30.43	477.0	980091.42	-0.02	-0.21	-51.58	-68.07
ELZ72	40 13.00	76 30.32	485.0	980091.35	-0.01	-0.21	-51.31	-68.07
ELZ73	40 13.33	76 30.32	525.0	980089.59	-0.01	-0.23	-49.80	-67.94
ELZ74	40 13.60	76 30.33	644.5	980083.85	0.07	-0.27	-44.70	-66.89
ELZ75	40 14.32	76 30.77	545.0	980095.10	0.00	-0.23	-43.88	-62.70
ELZ76	40 14.12	76 31.40	498.1	980098.33	-0.02	-0.21	-44.77	-61.99
ELZ77	40 14.68	76 30.55	575.0	980093.15	0.02	-0.25	-43.54	-63.38
ELZ78	40 14.77	76 31.03	570.0	980094.17	0.01	-0.24	-43.13	-62.80
ELZ79	40 14.72	76 31.87	597.0	980091.92	0.02	-0.25	-42.77	-63.37
ELZ80	40 14.73	76 32.23	612.0	980092.54	0.04	-0.26	-40.75	-61.84
ELZ81	40 14.58	76 33.38	541.0	980097.29	-0.02	-0.23	-42.46	-61.16
ELZ82	40 14.57	76 33.83	526.0	980098.15	-0.03	-0.23	-42.99	-61.18
ELZ83	40 14.15	76 33.59	488.0	980101.12	-0.04	-0.21	-42.97	-59.87
ELZ84	40 13.65	76 33.50	482.0	980100.64	-0.05	-0.21	-43.27	-59.97
ELZ85	40 13.27	76 32.41	460.1	980101.32	-0.03	-0.20	-44.09	-60.01
ELZ86	40 12.93	76 33.65	442.0	980102.74	-0.04	-0.19	-43.87	-59.17
ELZ87	40 12.48	76 33.95	452.0	980102.47	-0.05	-0.19	-42.52	-58.19
EPH 1	40 8.12	76 14.78	422.0	980097.55	-0.02	-0.18	-43.78	-58.38
EPH 2	40 8.37	76 14.80	490.0	980093.40	0.06	-0.21	-41.91	-58.78
EPH 3	40 8.08	76 13.72	314.0	980103.76	-0.05	-0.14	-47.67	-58.57
EPH 4	40 8.35	76 13.35	302.0	980104.76	-0.05	-0.13	-48.21	-58.69
EPH 5	40 8.63	76 12.80	334.0	980102.42	-0.05	-0.15	-47.95	-59.54
EPH 6	40 7.90	76 12.75	341.0	980101.65	-0.06	-0.15	-46.98	-58.82
EPH 7	40 13.15	76 14.48	387.0	980098.83	-0.03	-0.17	-53.27	-66.67
EPH 8	40 13.35	76 13.37	383.0	980098.73	-0.02	-0.17	-54.04	-67.29
EPH 9	40 12.47	76 13.25	381.0	980099.12	-0.04	-0.17	-52.54	-65.74
EPH10	40 12.13	76 12.52	391.0	980098.30	-0.04	-0.17	-51.92	-65.46
EPH11	40 11.47	76 12.77	423.0	980096.77	-0.03	-0.18	-49.45	-64.09
EPH12	40 11.78	76 13.22	385.0	980098.40	-0.05	-0.17	-51.85	-65.20
EPH13	40 11.88	76 14.38	337.4	980100.74	-0.04	-0.15	-54.14	-65.83
EPH14	40 11.33	76 13.57	398.0	980097.79	-0.05	-0.17	-50.58	-64.38
EPH15	40 10.85	76 12.70	413.0	980098.01	-0.04	-0.18	-48.23	-62.54
EPH16	40 10.60	76 13.50	361.0	980100.65	-0.05	-0.16	-50.11	-62.63
EPH17	40 10.43	76 14.47	365.0	980100.49	-0.05	-0.16	-49.64	-62.29
EPH18	40 9.78	76 14.17	312.9	980104.32	-0.03	-0.14	-49.74	-60.58
EPH19	40 9.25	76 13.13	399.0	980099.69	-0.04	-0.17	-45.49	-59.31
EPH20	40 8.72	76 12.07	373.0	980100.89	-0.04	-0.16	-45.94	-58.87
EPH21	40 9.17	76 11.52	442.0	980096.65	-0.01	-0.19	-44.37	-59.65
EPH22	40 9.08	76 10.70	415.0	980098.00	-0.03	-0.18	-45.42	-59.79
EPH23	40 9.33	76 10.07	433.0	980097.47	-0.02	-0.19	-44.63	-59.60
EPH24	40 8.97	76 9.72	351.0	980101.54	-0.04	-0.15	-47.74	-59.90
EPH25	40 8.52	76 10.82	364.0	980100.85	-0.04	-0.16	-46.54	-59.15
EPH26	40 8.38	76 11.23	358.0	980101.01	-0.05	-0.16	-46.73	-59.15
EPH27	40 8.17	76 11.88	345.0	980101.90	-0.05	-0.15	-46.76	-58.72
EPH28	40 7.58	76 11.13	341.0	980101.77	-0.05	-0.15	-46.38	-58.21
EPH29	40 7.87	76 8.89	431.0	980097.20	-0.02	-0.19	-42.92	-57.83
EPH30	40 8.08	76 7.95	384.0	980100.19	-0.04	-0.17	-44.66	-57.96
EPH31	40 8.33	76 9.07	322.0	980103.44	-0.02	-0.14	-47.61	-58.76
EPH32	40 8.77	76 9.25	352.0	980101.68	-0.04	-0.15	-47.21	-59.41
EPH33	40 9.32	76 7.85	324.4	980103.65	-0.02	-0.14	-48.65	-59.88
EPH34	40 9.53	76 8.35	379.0	980100.98	-0.03	-0.16	-46.50	-59.62
EPH35	40 9.89	76 9.60	451.0	980095.33	-0.01	-0.19	-45.92	-61.50
EPH36	40 9.55	76 9.47	405.0	980098.90	-0.03	-0.18	-46.16	-60.18
EPH37	40 10.13	76 8.02	388.0	980099.22	-0.01	-0.17	-48.30	-61.71
EPH38	40 10.65	76 8.57	581.0	980086.75	0.14	-0.25	-43.39	-63.31
EPH39	40 11.03	76 7.95	616.0	980085.04	0.20	-0.26	-42.38	-63.45
EPH40	40 11.32	76 8.12	454.0	980095.02	0.00	-0.20	-48.07	-63.75
EPH41	40 10.58	76 7.67	417.0	980097.36	0.00	-0.18	-48.10	-62.51
EPH42	40 13.50	76 12.50	412.0	980097.20	-0.02	-0.18	-53.07	-67.32
EPH43	40 13.53	76 12.18	415.0	980097.02	-0.02	-0.18	-53.01	-67.37
EPH44	40 13.58	76 11.65	380.0	980099.40	-0.01	-0.16	-54.00	-67.14
EPH45	40 13.55	76 10.85	396.0	980097.82	-0.02	-0.17	-54.03	-67.73
EPH46	40 13.22	76 10.85	389.0	980098.43	-0.03	-0.17	-53.59	-67.05

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN	CURV	FREE AIR	COMPLETE BOUGUER
EPH47	40 12.90	76 10.97	377.0	980098.93	-0.03	-0.16	-53.74	-66.79
EPH48	40 12.73	76 11.77	401.0	980098.48	-0.04	-0.17	-51.68	-65.57
EPH49	40 12.67	76 11.90	385.0	980098.79	-0.04	-0.17	-52.78	-66.12
EPH50	40 12.08	76 11.33	388.0	980099.15	-0.04	-0.17	-51.27	-64.71
EPH51	40 11.53	76 11.15	412.0	980098.33	-0.04	-0.18	-49.02	-63.29
EPH52	40 11.23	76 11.42	417.0	980097.97	-0.04	-0.18	-48.46	-62.91
EPH53	40 10.75	76 10.57	380.1	980100.65	-0.03	-0.16	-48.53	-61.69
EPH54	40 11.65	76 10.38	381.0	980100.01	-0.04	-0.17	-50.43	-63.63
EPH55	40 11.73	76 9.88	356.9	980101.85	-0.03	-0.16	-50.98	-63.33
EPH56	40 11.35	76 9.75	440.0	980097.40	-0.02	-0.19	-47.04	-62.26
EPH57	40 11.67	76 8.92	363.0	980101.22	-0.01	-0.16	-50.94	-63.48
EPH58	40 11.90	76 8.50	405.0	980098.51	-0.02	-0.18	-50.04	-64.05
EPH59	40 12.28	76 7.87	380.0	980099.59	0.00	-0.16	-51.88	-65.00
EPH60	40 12.47	76 9.87	391.0	980098.55	-0.04	-0.17	-52.16	-65.71
EPH61	40 12.87	76 9.25	391.1	980098.03	-0.03	-0.17	-53.28	-66.82
EPH62	40 13.03	76 9.72	391.7	980098.21	-0.03	-0.17	-53.27	-66.83
EPH63	40 13.18	76 9.83	398.0	980097.77	-0.03	-0.17	-53.34	-67.12
EPH64	40 14.80	76 14.97	414.0	980094.61	0.15	-0.18	-57.41	-71.56
EPH65	40 14.58	76 14.97	412.0	980095.19	0.09	-0.18	-56.69	-70.83
EPH66	40 14.32	76 14.38	434.0	980095.32	0.03	-0.19	-54.10	-69.06
EPH67	40 14.40	76 13.72	583.7	980086.55	0.10	-0.25	-48.92	-68.97
EPH68	40 15.03	76 13.63	561.0	980085.27	0.08	-0.24	-53.27	-72.56
EPH69	40 15.00	76 12.27	531.0	980086.48	0.07	-0.23	-54.83	-73.10
EPH70	40 14.82	76 11.98	497.0	980088.74	0.06	-0.21	-55.50	-72.61
EPH71	40 14.68	76 12.07	485.0	980090.15	0.05	-0.21	-55.01	-71.71
EPH72	40 14.43	76 11.62	562.0	980087.16	0.08	-0.24	-50.38	-69.71
EPH73	40 14.53	76 10.85	564.2	980086.24	0.07	-0.24	-51.25	-70.66
EPH74	40 14.28	76 9.75	468.0	980093.39	0.01	-0.20	-52.78	-68.93
EPH75	40 13.80	76 9.72	425.0	980096.13	-0.01	-0.18	-53.37	-68.05
EPH76	40 13.38	76 8.70	408.9	980097.16	-0.02	-0.18	-53.23	-67.37
EPH77	40 13.80	76 8.28	396.4	980097.76	-0.01	-0.17	-54.42	-68.12
EPH78	40 14.00	76 8.77	399.0	980097.78	-0.01	-0.17	-54.46	-68.25
EPH79	40 14.23	76 8.64	396.3	980097.61	0.00	-0.17	-55.22	-68.91
EPH80	40 14.43	76 9.14	507.0	980090.30	0.03	-0.22	-52.42	-69.90
HAE 1	40 15.07	76 49.03	401.0	980115.61	-0.09	-0.17	-38.03	-51.97
HAE 2	40 15.10	76 47.60	598.0	980103.33	0.07	-0.26	-31.83	-52.41
HAE 3	40 15.18	76 46.85	610.0	980102.54	0.08	-0.26	-31.61	-52.59
HAE 4	40 15.37	76 46.47	637.0	980101.40	0.13	-0.27	-30.49	-52.35
HAE 5	40 15.52	76 45.87	573.0	980104.72	0.04	-0.24	-33.42	-53.17
HAE 6	40 15.92	76 48.33	515.0	980111.19	-0.04	-0.22	-32.99	-50.82
HAE 7	40 15.27	76 48.83	400.7	980116.77	-0.09	-0.17	-37.20	-51.13
HAE 8	40 15.63	76 47.57	433.9	980115.01	-0.08	-0.19	-36.37	-51.44
HAE 9	40 15.80	76 46.72	455.2	980113.41	-0.08	-0.20	-36.21	-52.02
HAE10	40 15.88	76 45.80	415.6	980115.07	-0.07	-0.18	-38.40	-52.82
HAE11	40 16.43	76 47.18	514.0	980112.04	-0.06	-0.22	-33.00	-50.81
HAE12	40 16.77	76 48.37	495.0	980114.37	-0.07	-0.21	-32.96	-50.12
HAE13	40 16.65	76 46.50	481.0	980113.96	-0.07	-0.21	-34.50	-51.19
HAE14	40 17.46	76 45.10	483.0	980113.41	-0.06	-0.21	-36.07	-52.81
HAE15	40 17.71	76 46.12	377.0	980120.02	-0.07	-0.16	-39.81	-52.90
HAE16	40 18.10	76 46.85	462.0	980116.35	-0.08	-0.20	-36.06	-52.10
HAE17	40 18.43	76 48.08	492.0	980115.37	-0.07	-0.21	-34.71	-51.78
HAE18	40 17.71	76 48.40	525.0	980113.61	-0.05	-0.23	-32.30	-50.48
HAE19	40 18.98	76 47.78	513.1	980114.51	-0.05	-0.22	-34.40	-52.17
HAE20	40 19.18	76 47.57	512.0	980114.79	-0.05	-0.22	-34.52	-52.25
HAE21	40 19.70	76 46.93	532.7	980113.67	-0.03	-0.23	-34.47	-52.89
HAE22	40 20.07	76 46.67	498.3	980116.28	-0.05	-0.21	-35.65	-52.91
HAE23	40 20.53	76 46.72	528.7	980115.64	-0.02	-0.23	-34.12	-52.40
HAE24	40 21.37	76 45.72	443.4	980121.15	0.02	-0.19	-37.87	-53.17
HAE25	40 21.78	76 45.07	489.3	980118.67	0.01	-0.21	-36.64	-53.53
HAE26	40 22.42	76 45.67	537.0	980117.55	0.09	-0.23	-34.23	-52.68
HAE27	40 20.88	76 46.52	503.6	980117.51	-0.02	-0.22	-35.12	-52.53
HAE28	40 20.48	76 47.22	510.0	980117.05	-0.03	-0.22	-34.39	-52.03
HAE29	40 20.55	76 47.55	517.0	980116.94	-0.02	-0.22	-33.94	-51.81
HAE30	40 20.42	76 48.38	481.0	980119.50	-0.01	-0.21	-34.57	-51.20
HAE31	40 20.75	76 47.80	487.0	980119.26	0.01	-0.21	-34.73	-51.54

GETTYSBURG BASIN GRAVITY

STATION ID	LOCATIONS			OBSERVED GRAVITY (mgals)	CORRECTIONS		ANOMALIES	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUQUER
HAE32	40 21.70	76 48.90	995.0	980089.28	0.76	-0.41	-18.36	-51.94
HAE33	40 22.47	76 50.53	457.8	980125.44	0.35	-0.20	-33.87	-49.33
HAE34	40 22.42	76 51.00	461.0	980125.40	0.30	-0.20	-33.53	-49.15
HAE35	40 22.28	76 51.37	451.0	980126.15	0.29	-0.19	-33.51	-48.80
HAE36	40 22.02	76 51.85	426.9	980127.82	0.32	-0.18	-33.72	-48.14
HAE37	40 20.52	76 49.30	452.0	980121.79	0.05	-0.19	-35.16	-50.72
HAE38	40 20.08	76 50.30	470.0	980121.21	0.00	-0.20	-33.39	-49.63
HAE39	40 19.77	76 51.47	443.0	980123.09	0.02	-0.19	-33.60	-48.88
HAE40	40 18.73	76 52.42	382.6	980126.24	-0.07	-0.17	-34.58	-47.86
HAE41	40 18.48	76 51.12	396.0	980124.35	-0.08	-0.17	-34.83	-48.59
HAE42	40 18.75	76 51.13	417.0	980122.78	-0.07	-0.18	-34.83	-49.31
HAE43	40 19.77	76 49.60	508.0	980117.71	-0.03	-0.22	-32.86	-50.43
HAE44	40 18.96	76 49.38	460.0	980118.79	-0.07	-0.20	-35.09	-51.05
HAE45	40 19.20	76 48.63	528.0	980114.44	-0.04	-0.23	-33.39	-51.67
HAE46	40 17.90	76 49.85	503.0	980115.90	-0.06	-0.22	-32.36	-49.79
HAE47	40 17.96	76 50.50	427.7	980121.06	-0.08	-0.18	-34.36	-49.21
HAE48	40 17.62	76 51.85	464.8	980120.02	-0.06	-0.20	-31.42	-47.53
HAE49	40 17.58	76 52.13	453.0	980120.70	-0.06	-0.20	-31.78	-47.49
HAE50	40 17.17	76 51.20	483.0	980118.22	-0.06	-0.21	-30.83	-47.57
HAE51	40 15.47	76 49.92	374.6	980119.93	-0.09	-0.16	-36.79	-49.82
HAE52	40 15.50	76 50.58	372.2	980120.41	-0.10	-0.16	-36.58	-49.53
HAE53	40 15.47	76 51.28	360.6	980121.69	-0.10	-0.16	-36.35	-48.90
HAE54	40 15.30	76 51.45	368.0	980120.71	-0.10	-0.16	-36.38	-49.19
HAE55	40 16.15	76 52.32	382.8	980122.85	-0.10	-0.17	-34.11	-47.43
HAE56	40 16.48	76 51.32	469.3	980117.22	-0.07	-0.20	-32.10	-48.38
HAE57	40 16.82	76 50.87	484.0	980116.75	-0.06	-0.21	-31.68	-48.46
HAE58	40 17.27	76 50.28	491.9	980116.67	-0.06	-0.21	-31.69	-48.74
HAE59	40 15.97	76 49.58	497.0	980113.36	-0.05	-0.21	-32.58	-49.80
HER 1	40 19.52	76 37.62	348.0	980117.83	-0.04	-0.15	-47.41	-59.47
HER 2	40 19.12	76 37.73	352.0	980117.52	-0.05	-0.15	-46.75	-58.96
HER 3	40 19.37	76 38.15	418.0	980113.59	-0.08	-0.18	-44.85	-59.36
HER 4	40 19.07	76 38.13	424.0	980113.34	-0.08	-0.18	-44.09	-58.81
HER 5	40 19.82	76 38.23	466.0	980111.51	-0.05	-0.20	-43.08	-59.23
HER 6	40 19.50	76 39.58	421.0	980114.11	-0.08	-0.18	-44.24	-58.86
HER 7	40 19.78	76 39.70	386.0	980116.34	-0.08	-0.17	-45.72	-59.13
HER 8	40 19.90	76 40.28	443.0	980113.44	-0.07	-0.19	-43.44	-58.81
HER 9	40 20.17	76 40.70	433.0	980114.71	-0.07	-0.19	-43.51	-58.53
HER10	40 20.57	76 40.95	401.0	980117.65	-0.07	-0.17	-44.17	-58.09
HER11	40 21.30	76 40.88	477.0	980114.75	-0.04	-0.21	-41.01	-57.52
HER12	40 21.73	76 40.84	499.0	980114.57	-0.03	-0.21	-39.76	-57.03
HER13	40 22.22	76 39.87	438.0	980117.94	-0.03	-0.19	-42.85	-58.01
HER14	40 21.38	76 40.03	531.0	980111.01	0.00	-0.23	-39.79	-58.13
HER15	40 21.32	76 39.70	479.0	980113.44	-0.04	-0.21	-42.16	-58.75
HER16	40 20.95	76 39.43	425.0	980115.32	-0.06	-0.18	-44.80	-59.54
HER17	40 20.70	76 39.15	390.0	980117.01	-0.07	-0.17	-46.04	-59.58
HER18	40 20.35	76 39.72	470.0	980112.10	-0.05	-0.20	-42.90	-59.19
HER19	40 20.18	76 39.02	357.0	980118.19	-0.07	-0.16	-47.19	-59.59
HER20	40 20.18	76 38.40	467.0	980111.57	-0.05	-0.20	-43.46	-59.64
HER21	40 20.62	76 38.18	457.0	980112.69	-0.05	-0.20	-43.94	-59.77
HER22	40 20.46	76 37.65	361.0	980117.76	-0.06	-0.16	-47.66	-60.19
HER23	40 21.08	76 38.32	450.0	980113.78	-0.06	-0.19	-44.19	-59.79
HER24	40 21.30	76 37.77	431.0	980114.71	-0.06	-0.19	-45.38	-60.32
HER25	40 21.93	76 38.34	482.0	980113.33	-0.03	-0.21	-42.90	-59.58
HER26	40 22.17	76 37.98	452.0	980115.57	-0.04	-0.19	-43.84	-59.49
HER27	40 22.38	76 37.66	483.0	980114.02	-0.02	-0.21	-42.78	-59.49
HER28	40 21.80	76 38.68	437.0	980115.79	-0.05	-0.19	-44.47	-59.62
HER29	40 15.20	76 40.58	599.0	980098.33	0.05	-0.26	-36.89	-57.52
HER30	40 15.75	76 40.70	441.0	980110.60	-0.03	-0.19	-40.30	-55.56
HER31	40 16.18	76 40.88	424.0	980113.11	-0.06	-0.18	-40.02	-54.72
HER32	40 16.17	76 39.98	430.0	980110.58	-0.04	-0.19	-41.97	-56.86
HER33	40 16.37	76 39.38	431.0	980110.25	-0.06	-0.19	-42.51	-57.46
HER34	40 15.92	76 39.47	449.0	980108.10	-0.03	-0.19	-42.29	-57.83
HER35	40 16.03	76 38.87	418.1	980110.02	-0.05	-0.18	-43.44	-57.94
HER36	40 15.47	76 38.77	447.0	980106.81	-0.02	-0.19	-43.10	-58.56
HER37	40 15.35	76 39.05	509.0	980102.42	0.00	-0.22	-41.47	-59.05

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUGUER
HER38	40 15.07	76 39.53	715.0	980089.39	0.22	-0.30	-34.72	-59.19
HER39	40 15.02	76 37.62	449.0	980103.95	-0.04	-0.19	-45.11	-60.65
HER40	40 15.40	76 38.07	419.0	980108.14	-0.04	-0.18	-44.30	-58.81
HER41	40 16.48	76 38.95	402.7	980112.01	-0.07	-0.17	-43.57	-57.55
HER42	40 15.78	76 38.50	442.4	980108.12	-0.05	-0.19	-42.68	-58.01
HER43	40 15.73	76 38.22	446.0	980107.44	-0.05	-0.19	-42.95	-58.41
HER44	40 16.02	76 37.63	416.0	980109.00	-0.07	-0.18	-44.64	-59.08
HER45	40 16.27	76 37.91	397.0	980110.90	-0.07	-0.17	-44.90	-58.69
HER46	40 16.50	76 38.03	401.0	980110.19	-0.08	-0.17	-45.57	-59.50
HER47	40 16.48	76 37.55	401.0	980110.62	-0.08	-0.17	-45.12	-59.05
HER48	40 17.10	76 37.82	386.0	980112.26	-0.08	-0.17	-45.81	-59.23
HER49	40 17.52	76 38.07	427.0	980110.94	-0.08	-0.18	-43.89	-58.72
HER50	40 17.96	76 38.34	406.3	980112.90	-0.08	-0.18	-44.54	-58.65
HER51	40 18.62	76 38.97	564.0	980104.81	0.07	-0.24	-38.78	-58.19
HER52	40 17.85	76 38.75	421.0	980112.23	-0.08	-0.18	-43.66	-58.28
HER53	40 17.70	76 39.25	389.1	980115.15	-0.08	-0.17	-43.53	-57.04
HER54	40 17.60	76 39.59	419.3	980113.02	-0.08	-0.18	-42.66	-57.23
HER55	40 18.23	76 40.16	342.0	980118.71	-0.06	-0.15	-45.19	-57.06
HER56	40 18.62	76 40.80	484.0	980110.98	-0.04	-0.21	-40.14	-56.89
HER57	40 18.85	76 41.93	499.3	980110.34	-0.05	-0.21	-39.68	-56.97
HER58	40 17.33	76 40.90	343.1	980118.92	-0.07	-0.15	-43.53	-55.45
HER59	40 16.87	76 40.27	343.7	980118.72	-0.06	-0.15	-42.99	-54.92
HER60	40 17.52	76 38.82	395.6	980114.26	-0.08	-0.17	-43.53	-57.27
HER61	40 17.20	76 39.08	397.6	980113.94	-0.08	-0.17	-43.19	-57.01
HER62	40 16.79	76 39.91	393.1	980115.05	-0.08	-0.17	-41.90	-55.55
HER63	40 16.75	76 39.34	446.0	980110.35	-0.06	-0.19	-41.56	-57.02
HER64	40 16.48	76 40.58	396.6	980115.16	-0.07	-0.17	-41.00	-54.77
HER65	40 15.67	76 44.68	514.0	980108.00	0.01	-0.22	-35.90	-53.64
HER66	40 16.08	76 44.78	391.0	980116.11	-0.08	-0.17	-39.97	-53.56
HER67	40 16.54	76 44.63	470.0	980112.22	-0.06	-0.20	-37.12	-53.41
HER68	40 16.40	76 43.95	506.0	980108.86	0.00	-0.22	-36.88	-54.36
HER69	40 16.67	76 43.75	426.0	980115.06	-0.08	-0.18	-38.61	-53.40
HER70	40 16.45	76 42.83	415.0	980114.72	-0.08	-0.18	-39.66	-54.07
HER71	40 16.00	76 42.75	374.5	980116.58	-0.08	-0.16	-40.94	-53.95
HER72	40 16.21	76 41.42	356.2	980117.41	-0.06	-0.15	-42.14	-54.50
HER73	40 17.02	76 41.47	441.0	980113.72	-0.07	-0.19	-39.06	-54.36
HER74	40 15.92	76 42.25	390.0	980115.23	-0.08	-0.17	-40.71	-54.26
HER75	40 15.10	76 41.62	459.0	980107.08	-0.02	-0.20	-41.15	-57.03
HER76	40 15.02	76 42.53	398.0	980112.93	-0.05	-0.17	-40.92	-54.72
HER77	40 15.30	76 42.93	370.0	980115.43	-0.07	-0.16	-41.47	-54.32
HER78	40 17.10	76 42.30	493.0	980110.85	-0.03	-0.21	-37.16	-54.21
HER79	40 17.54	76 42.27	490.0	980110.85	-0.04	-0.21	-38.09	-55.05
HER80	40 17.33	76 43.02	444.0	980114.44	-0.08	-0.19	-38.51	-53.93
HER81	40 17.20	76 43.48	448.0	980113.95	-0.08	-0.19	-38.44	-53.99
HER82	40 17.60	76 43.60	521.0	980109.64	-0.02	-0.22	-36.48	-54.49
HER83	40 18.28	76 43.57	518.0	980110.23	-0.04	-0.22	-37.18	-55.11
HER84	40 18.45	76 44.77	438.0	980116.07	-0.08	-0.19	-39.11	-54.32
HER85	40 18.62	76 42.78	533.0	980109.06	-0.02	-0.23	-37.44	-55.87
HER86	40 18.96	76 43.07	465.0	980112.97	-0.07	-0.20	-40.44	-56.57
HER87	40 19.15	76 44.28	514.0	980111.39	-0.04	-0.22	-37.69	-55.48
HER88	40 19.52	76 44.40	522.0	980111.89	-0.04	-0.22	-36.99	-55.06
HER89	40 19.65	76 43.73	484.0	980113.97	-0.06	-0.21	-38.68	-55.45
HER90	40 20.03	76 44.78	528.0	980112.83	-0.03	-0.23	-36.24	-54.51
HER91	40 20.50	76 44.02	509.0	980114.12	-0.04	-0.22	-37.44	-55.06
HER92	40 20.08	76 43.45	547.0	980110.58	-0.02	-0.23	-36.79	-55.70
HER93	40 20.45	76 42.70	524.0	980111.80	-0.02	-0.22	-38.28	-56.39
HER94	40 20.10	76 42.77	541.0	980109.98	-0.01	-0.23	-37.98	-56.67
HER95	40 19.20	76 41.35	478.0	980111.75	-0.05	-0.21	-40.79	-57.35
HER96	40 19.98	76 41.85	449.0	980114.41	-0.07	-0.19	-42.02	-57.60
HER97	40 20.37	76 41.37	421.0	980116.48	-0.07	-0.18	-43.16	-57.77
HER98	40 20.83	76 41.57	406.0	980118.57	-0.06	-0.18	-43.17	-57.26
HER99	40 21.18	76 41.78	473.0	980115.99	-0.04	-0.20	-39.97	-56.34
HER00	40 21.52	76 41.77	471.0	980116.26	-0.04	-0.20	-40.39	-56.69
HRS01	40 21.25	76 42.65	405.6	980120.19	-0.03	-0.18	-42.21	-56.25
HRS02	40 22.08	76 42.67	430.4	980120.39	0.01	-0.19	-40.92	-55.77

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUQUER
HRS03	40 22.33	76 41.98	464.0	980118.28	0.00	-0.20	-40.23	-56.26
HRS04	40 22.30	76 43.47	495.2	980118.16	0.03	-0.21	-37.38	-54.45
HRS05	40 22.22	76 44.05	498.0	980118.54	0.03	-0.21	-36.61	-53.78
HRS06	40 21.60	76 43.90	512.0	980116.39	-0.02	-0.22	-36.52	-54.23
HRS07	40 21.72	76 43.08	488.0	980116.90	-0.02	-0.21	-38.44	-55.32
HRS08	40 21.25	76 44.28	542.0	980114.12	-0.01	-0.23	-35.46	-54.19
HRS09	40 21.20	76 44.92	502.0	980116.90	-0.03	-0.22	-36.36	-53.73
LEB 1	40 16.65	76 26.40	567.0	980091.06	0.03	-0.24	-49.32	-68.87
LEB 2	40 15.88	76 26.35	670.2	980085.69	0.09	-0.28	-43.83	-66.89
LEB 3	40 15.58	76 26.83	741.5	980081.65	0.14	-0.31	-40.73	-66.19
LEB 4	40 15.17	76 28.07	655.0	980084.24	0.10	-0.28	-45.66	-68.18
LEB 5	40 15.67	76 28.12	820.0	980076.09	0.29	-0.34	-39.03	-67.05
LEB 6	40 15.62	76 28.43	833.0	980075.83	0.33	-0.35	-38.00	-66.43
LEB 7	40 15.78	76 28.97	685.0	980086.02	0.10	-0.29	-41.97	-65.52
LEB 8	40 17.08	76 29.37	461.0	980099.79	-0.02	-0.20	-51.20	-67.14
LEB 9	40 17.50	76 29.33	465.0	980100.18	-0.04	-0.20	-51.06	-67.16
LEB10	40 18.12	76 29.70	464.0	980101.03	-0.05	-0.20	-51.22	-67.30
LEB11	40 17.73	76 29.50	498.0	980099.22	-0.04	-0.21	-49.25	-66.49
LEB12	40 17.87	76 28.75	505.2	980097.65	-0.04	-0.22	-50.36	-67.84
LEB13	40 17.90	76 28.35	491.0	980098.14	-0.04	-0.21	-51.24	-68.24
LEB14	40 17.12	76 28.20	536.0	980094.86	-0.01	-0.23	-49.13	-67.65
LEB15	40 16.58	76 28.03	565.0	980092.17	0.03	-0.24	-48.29	-67.78
LEB16	40 16.62	76 25.87	568.0	980090.94	0.04	-0.24	-49.30	-68.87
LEB17	40 16.53	76 25.53	600.0	980088.57	0.05	-0.26	-48.53	-69.20
LEB18	40 16.43	76 24.88	567.0	980090.09	0.08	-0.24	-49.96	-69.46
LEB19	40 16.02	76 25.10	653.0	980087.28	0.11	-0.28	-44.07	-66.51
LEB20	40 15.93	76 24.18	615.7	980088.57	0.17	-0.26	-46.16	-67.25
LEB21	40 15.83	76 23.77	689.0	980082.90	0.16	-0.29	-44.78	-68.42
LEB22	40 15.27	76 22.88	828.0	980073.40	0.23	-0.35	-40.38	-68.74
LEB23	40 16.62	76 23.12	715.0	980081.76	0.15	-0.30	-44.65	-69.19
LEB24	40 16.70	76 23.58	644.0	980085.51	0.10	-0.27	-47.70	-69.84
LEB25	40 16.70	76 24.23	596.0	980088.03	0.07	-0.25	-49.69	-70.20
LEB26	40 17.07	76 24.77	557.0	980091.13	0.03	-0.24	-50.81	-70.02
LEB27	40 17.25	76 24.50	542.3	980091.42	0.03	-0.23	-52.17	-70.87
LEB28	40 18.50	76 23.35	534.0	980094.26	-0.01	-0.23	-51.97	-70.42
LEB29	40 18.67	76 22.92	530.9	980093.58	-0.02	-0.23	-53.19	-71.55
LEB30	40 18.93	76 23.18	501.0	980096.63	-0.02	-0.22	-53.35	-70.67
LEB31	40 19.52	76 23.02	521.0	980096.44	-0.03	-0.22	-52.53	-70.55
LEB32	40 19.65	76 24.35	518.0	980097.72	-0.03	-0.22	-51.73	-69.65
LEB33	40 18.87	76 24.28	511.0	980096.58	-0.03	-0.22	-52.36	-70.04
LEB34	40 18.53	76 24.32	555.0	980093.47	-0.01	-0.24	-50.83	-70.01
LEB35	40 18.54	76 25.10	530.0	980094.79	-0.02	-0.23	-51.88	-70.20
LEB36	40 18.93	76 26.35	458.0	980099.72	-0.04	-0.20	-54.30	-70.16
LEB37	40 18.12	76 26.97	483.6	980097.66	-0.04	-0.21	-52.75	-69.49
LEB38	40 18.43	76 26.95	481.0	980098.63	-0.04	-0.21	-52.48	-69.14
LEB39	40 18.48	76 27.52	464.0	980100.40	-0.04	-0.20	-52.39	-68.45
LEB40	40 18.57	76 28.58	483.0	980100.36	-0.05	-0.21	-50.77	-67.50
LEB41	40 18.77	76 29.00	469.0	980101.55	-0.05	-0.20	-51.20	-67.45
LEB42	40 19.12	76 29.68	472.0	980103.08	-0.06	-0.20	-49.91	-66.27
LEB43	40 19.54	76 28.23	452.0	980104.17	-0.05	-0.19	-51.32	-66.98
LEB44	40 19.18	76 27.75	492.0	980100.51	-0.05	-0.21	-50.68	-67.72
LEB45	40 20.52	76 26.40	466.3	980104.01	-0.05	-0.20	-51.60	-67.75
LEB46	40 20.65	76 27.22	449.9	980105.72	-0.05	-0.19	-51.62	-67.21
LEB47	40 21.70	76 27.78	595.0	980099.58	0.01	-0.25	-45.67	-66.21
LEB48	40 22.07	76 28.05	574.0	980101.98	-0.01	-0.25	-45.80	-65.64
LEB49	40 21.98	76 28.67	514.0	980105.94	-0.05	-0.22	-47.35	-65.15
LEB50	40 21.80	76 29.68	484.0	980108.00	-0.06	-0.21	-47.84	-64.61
LEB51	40 20.85	76 29.58	616.0	980097.76	0.07	-0.26	-44.25	-65.46
LEB52	40 21.53	76 28.53	506.0	980105.33	-0.05	-0.22	-48.04	-65.57
LEB53	40 20.68	76 28.90	531.0	980101.83	-0.04	-0.23	-47.93	-66.30
LEB54	40 20.27	76 29.30	450.0	980106.92	-0.06	-0.19	-49.84	-65.45
LEB55	40 20.15	76 29.95	441.0	980107.79	-0.06	-0.19	-49.64	-64.93
LEB56	40 20.67	76 25.53	463.9	980103.76	-0.05	-0.20	-52.29	-68.36
LEB57	40 21.22	76 26.00	499.0	980102.34	-0.04	-0.21	-51.23	-68.51
LEB58	40 22.22	76 25.97	647.0	980096.17	0.05	-0.27	-44.96	-67.26

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUQUER
LEB59	40 22.17	76 24.88	636.0	980096.08	0.04	-0.27	-46.02	-67.95
LEB60	40 22.43	76 22.92	623.0	980096.04	0.02	-0.27	-47.67	-69.16
LEB61	40 21.83	76 22.83	568.0	980097.41	-0.02	-0.24	-50.58	-70.22
LEB62	40 21.78	76 23.57	621.0	980095.22	0.03	-0.26	-47.71	-69.12
LEB63	40 21.45	76 24.13	579.0	980096.90	-0.01	-0.25	-49.49	-69.49
LEB64	40 21.37	76 23.62	550.0	980098.04	-0.03	-0.24	-50.95	-69.98
LEB65	40 20.68	76 24.22	479.0	980101.65	-0.05	-0.21	-53.00	-69.59
LEB66	40 20.58	76 23.85	472.0	980101.72	-0.05	-0.20	-53.44	-69.79
LEB67	40 15.25	76 25.77	789.0	980076.47	0.19	-0.33	-40.95	-68.00
LEM 1	40 13.82	76 52.73	368.7	980119.01	-0.09	-0.16	-35.81	-48.64
LEM 2	40 13.95	76 53.10	390.0	980118.50	-0.09	-0.17	-34.51	-48.07
LEM 3	40 14.18	76 52.75	383.0	980119.31	-0.09	-0.17	-34.70	-48.02
LEM 4	40 14.52	76 53.40	384.6	980120.35	-0.09	-0.17	-34.01	-47.39
LEM 5	40 14.83	76 53.37	354.1	980122.51	-0.10	-0.15	-35.18	-47.51
LEM 6	40 14.75	76 53.63	361.4	980121.87	-0.10	-0.16	-35.02	-47.60
LEM 7	40 14.12	76 54.62	405.0	980119.40	-0.10	-0.18	-32.45	-46.54
LEM 8	40 14.37	76 55.53	399.0	980120.66	-0.10	-0.17	-32.12	-46.01
LEM 9	40 14.85	76 56.23	456.0	980118.29	-0.07	-0.20	-29.84	-45.66
LEM10	40 13.85	76 55.95	387.5	980120.60	-0.10	-0.17	-32.50	-45.98
LEM11	40 13.63	76 53.62	353.0	980120.78	-0.09	-0.15	-35.23	-47.52
LEM12	40 13.17	76 54.60	389.4	980117.98	-0.09	-0.17	-33.93	-47.47
LEM13	40 13.08	76 54.95	408.0	980117.44	-0.09	-0.18	-32.58	-46.76
LEM14	40 12.32	76 54.00	415.1	980114.89	-0.05	-0.18	-33.34	-47.72
LEM15	40 13.28	76 54.10	384.0	980118.61	-0.09	-0.17	-33.97	-47.32
LEM16	40 12.45	76 53.47	411.0	980115.01	-0.03	-0.18	-33.80	-48.02
LEM17	40 12.03	76 54.73	413.0	980114.84	-0.07	-0.18	-33.15	-47.49
LEM18	40 12.20	76 55.63	342.0	980120.01	-0.05	-0.15	-34.91	-46.78
LEM19	40 12.47	76 56.13	534.0	980109.79	0.00	-0.23	-27.47	-45.92
LEM20	40 12.92	76 55.68	422.0	980116.08	-0.09	-0.18	-32.39	-47.06
LEM21	40 13.23	76 56.10	384.0	980119.55	-0.10	-0.17	-32.95	-46.32
LEM22	40 12.63	76 56.65	415.0	980116.67	-0.09	-0.18	-32.03	-46.46
LEM23	40 12.87	76 58.37	428.0	980116.69	-0.10	-0.18	-31.15	-46.03
LEM24	40 12.22	76 58.82	439.0	980114.82	-0.09	-0.19	-31.01	-46.26
LEM25	40 12.97	76 59.78	433.9	980117.67	-0.10	-0.19	-29.76	-44.85
LEM26	40 13.17	76 58.83	426.3	980118.46	-0.10	-0.18	-29.98	-44.81
LEM27	40 13.25	76 56.87	412.0	980117.90	-0.10	-0.18	-32.00	-46.33
LEM28	40 13.40	76 57.33	420.5	980118.39	-0.10	-0.18	-30.93	-45.55
LEM29	40 13.90	76 57.28	419.0	980120.08	-0.10	-0.18	-30.14	-44.71
LEM30	40 14.30	76 57.23	419.5	980120.04	-0.10	-0.18	-30.72	-45.31
LEM31	40 14.22	76 58.35	443.0	980119.44	-0.09	-0.19	-28.98	-44.37
LEM32	40 13.55	76 58.22	422.5	980119.60	-0.10	-0.18	-29.76	-44.45
LEM33	40 11.58	76 58.67	486.0	980112.17	-0.07	-0.21	-28.29	-45.14
LEM34	40 11.53	76 57.60	479.0	980112.37	-0.07	-0.21	-28.68	-45.29
LEM35	40 11.47	76 56.67	485.0	980111.93	-0.06	-0.21	-28.46	-45.27
LEM36	40 10.42	76 56.63	472.0	980111.42	-0.05	-0.20	-28.62	-44.98
LEM37	40 10.12	76 55.28	436.0	980111.86	-0.05	-0.19	-31.12	-46.23
LEM38	40 11.27	76 54.10	505.0	980107.95	-0.01	-0.22	-30.26	-47.71
LEM39	40 12.22	76 52.78	540.0	980106.15	0.04	-0.23	-30.18	-48.79
LEM40	40 9.32	76 53.03	505.0	980102.86	-0.01	-0.22	-32.45	-49.91
LEM41	40 11.02	76 53.03	599.9	980101.56	0.07	-0.26	-27.36	-48.01
LEM42	40 11.30	76 53.38	567.0	980104.18	0.05	-0.24	-28.25	-47.78
LEM43	40 10.75	76 54.00	502.0	980107.81	0.00	-0.22	-29.91	-47.24
LEM44	40 10.82	76 55.20	434.0	980113.23	-0.06	-0.19	-31.00	-46.05
LEM45	40 8.97	76 53.33	546.0	980099.54	-0.01	-0.23	-31.40	-50.27
LEM46	40 8.38	76 54.40	551.0	980097.72	0.05	-0.24	-31.87	-50.85
LEM47	40 7.57	76 54.32	762.0	980083.19	0.17	-0.32	-25.35	-51.49
LEM48	40 7.90	76 55.93	813.0	980084.87	0.25	-0.34	-19.36	-47.18
LEM49	40 7.53	76 56.53	824.0	980084.55	0.22	-0.35	-18.10	-46.33
LEM50	40 8.13	76 56.97	761.0	980088.59	0.18	-0.32	-20.88	-46.97
LEM51	40 7.73	76 57.73	602.2	980098.49	0.06	-0.26	-25.32	-46.06
LEM52	40 7.62	76 59.07	515.0	980104.11	0.03	-0.22	-27.74	-45.49
LEM53	40 7.92	76 58.97	602.0	980099.49	0.01	-0.26	-24.62	-45.40
LEM54	40 8.32	76 59.25	631.5	980097.88	0.05	-0.27	-24.05	-45.81
LEM55	40 8.38	76 58.87	623.0	980097.70	0.04	-0.27	-25.11	-46.59
LEM56	40 8.35	76 57.45	694.0	980092.26	0.10	-0.29	-23.84	-47.70

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN CURV (dens=2.67)		FREE AIR	COMPLETE BOUGUER
LEM57	40 9.12	76 57.17	562.0	980100.49	0.00	-0.24	-29.17	-48.58
LEM58	40 8.55	76 56.07	650.7	980092.13	0.09	-0.28	-28.34	-50.72
LEM59	40 8.32	76 55.52	659.0	980091.88	0.10	-0.28	-27.46	-50.12
LEM60	40 9.43	76 55.78	467.0	980106.94	-0.02	-0.20	-32.11	-48.26
LEM61	40 9.52	76 55.47	382.0	980112.32	0.01	-0.17	-34.86	-48.04
LEM62	40 9.85	76 55.32	375.5	980114.50	-0.02	-0.16	-33.78	-46.77
LEM63	40 9.63	76 58.23	441.6	980111.78	-0.04	-0.19	-29.96	-45.25
LEM64	40 9.97	76 58.72	406.9	980115.46	-0.04	-0.18	-30.05	-44.14
LEM65	40 10.18	76 58.10	426.0	980114.89	-0.05	-0.18	-29.13	-43.90
LEM66	40 10.28	76 59.75	537.0	980107.14	-0.05	-0.23	-26.59	-45.19
LEM67	40 10.78	76 59.40	578.0	980106.40	-0.01	-0.25	-24.22	-44.19
LIT 1	40 14.77	76 18.07	561.0	980084.04	0.05	-0.24	-54.11	-73.43
LIT 2	40 11.95	76 22.40	571.0	980087.90	0.04	-0.24	-45.11	-64.79
LIT 3	40 11.92	76 21.90	561.0	980088.10	0.03	-0.24	-45.81	-65.16
LIT 4	40 12.22	76 20.93	609.0	980085.44	0.09	-0.26	-44.41	-65.35
LIT 5	40 12.53	76 20.95	615.0	980085.69	0.10	-0.26	-44.05	-65.19
LIT 6	40 12.75	76 21.65	564.0	980088.69	0.03	-0.24	-46.17	-65.62
LIT 7	40 13.13	76 21.28	473.0	980092.62	0.02	-0.20	-51.37	-67.68
LIT 8	40 13.28	76 19.98	407.0	980097.22	0.03	-0.18	-53.20	-67.23
LIT 9	40 14.20	76 20.08	461.0	980090.54	0.08	-0.20	-56.17	-72.01
LIT10	40 14.58	76 21.57	983.0	980057.16	0.83	-0.41	-41.01	-74.12
LIT11	40 14.80	76 21.53	755.7	980072.79	0.21	-0.32	-47.09	-72.97
LIT12	40 13.55	76 18.17	538.9	980088.76	0.03	-0.23	-49.65	-68.23
LIT13	40 13.55	76 18.60	508.0	980090.36	0.01	-0.22	-50.96	-68.49
LIT14	40 13.73	76 18.62	507.0	980089.48	0.01	-0.22	-52.20	-69.70
LIT15	40 13.13	76 15.48	359.9	980100.54	-0.02	-0.16	-54.08	-66.54
LIT16	40 13.08	76 15.23	361.4	980100.11	-0.02	-0.16	-54.29	-66.80
LIT17	40 13.77	76 15.52	367.7	980099.92	0.02	-0.16	-54.92	-67.60
LIT18	40 12.55	76 15.53	435.0	980095.40	-0.03	-0.19	-51.30	-66.36
LIT19	40 12.47	76 18.18	415.0	980096.84	-0.03	-0.18	-51.62	-65.98
LIT20	40 12.53	76 19.33	525.0	980090.40	0.01	-0.23	-47.81	-65.93
LIT21	40 12.30	76 19.37	527.0	980090.45	0.01	-0.23	-47.22	-65.41
LIT22	40 11.77	76 20.23	605.0	980085.15	0.10	-0.26	-44.40	-65.19
LIT23	40 11.28	76 20.95	486.0	980091.12	-0.02	-0.21	-48.89	-65.70
LIT24	40 11.33	76 21.55	543.0	980088.24	0.02	-0.23	-46.49	-65.22
LIT25	40 11.40	76 22.05	481.0	980092.26	-0.02	-0.21	-48.40	-65.04
LIT26	40 10.98	76 22.30	472.0	980092.36	-0.03	-0.20	-48.52	-64.86
LIT27	40 10.65	76 20.87	453.0	980092.29	-0.03	-0.20	-49.89	-65.56
LIT28	40 10.52	76 20.29	461.0	980092.04	-0.02	-0.20	-49.19	-65.13
LIT29	40 11.10	76 20.07	503.0	980089.79	0.00	-0.22	-48.36	-65.73
LIT30	40 11.63	76 18.83	566.0	980087.44	0.07	-0.24	-45.57	-65.05
LIT31	40 11.35	76 18.62	555.0	980087.61	0.06	-0.24	-46.02	-65.12
LIT32	40 11.27	76 17.62	566.0	980087.19	0.09	-0.24	-45.28	-64.74
LIT33	40 11.57	76 16.03	363.0	980099.29	-0.04	-0.16	-52.72	-65.30
LIT34	40 11.00	76 16.10	358.0	980099.67	-0.03	-0.16	-51.97	-64.36
LIT35	40 10.65	76 16.18	398.0	980097.50	-0.04	-0.17	-49.85	-63.64
LIT36	40 10.13	76 16.43	422.0	980096.40	-0.04	-0.18	-47.92	-62.54
LIT37	40 9.77	76 16.57	407.0	980098.02	-0.04	-0.18	-47.18	-61.28
LIT38	40 9.92	76 22.10	412.7	980095.26	-0.04	-0.18	-49.62	-63.92
LIT39	40 10.70	76 17.45	521.0	980089.53	0.03	-0.22	-46.33	-64.29
LIT40	40 10.53	76 18.54	433.0	980093.98	-0.03	-0.19	-49.90	-64.89
LIT41	40 10.08	76 18.50	384.9	980097.15	-0.04	-0.17	-50.59	-63.93
LIT42	40 10.02	76 20.46	424.0	980094.82	-0.04	-0.18	-49.15	-63.83
LIT43	40 9.67	76 20.63	414.0	980094.19	-0.04	-0.18	-50.20	-64.54
LIT44	40 9.35	76 20.62	432.0	980093.37	-0.04	-0.19	-48.85	-63.81
LIT45	40 9.53	76 21.52	421.0	980094.21	-0.04	-0.18	-49.32	-63.90
LIT46	40 9.20	76 22.15	557.0	980086.36	0.09	-0.24	-43.88	-63.03
LIT47	40 8.68	76 21.83	506.0	980090.03	0.02	-0.22	-44.24	-61.69
LIT48	40 8.80	76 21.02	518.0	980088.93	0.04	-0.22	-44.39	-62.24
LIT49	40 8.52	76 20.83	493.0	980090.52	0.02	-0.21	-44.73	-61.74
LIT50	40 8.25	76 19.98	435.0	980095.50	-0.03	-0.19	-44.81	-59.87
LIT51	40 9.42	76 18.43	387.4	980098.14	-0.05	-0.17	-48.38	-61.81
LIT52	40 9.53	76 19.52	388.0	980096.76	-0.05	-0.17	-49.87	-63.32
LIT53	40 8.32	76 19.25	441.0	980095.49	-0.03	-0.19	-44.36	-59.62
LIT54	40 7.58	76 18.33	391.0	980099.56	-0.05	-0.17	-43.89	-57.44

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUGUER
LIT55	40 7.52	76 17.68	394.0	980099.42	-0.05	-0.17	-43.66	-57.32
LIT56	40 7.58	76 17.07	369.0	980100.94	-0.05	-0.16	-44.57	-57.37
LIT57	40 7.98	76 16.96	415.0	980097.97	-0.04	-0.18	-43.81	-58.19
LIT58	40 8.37	76 18.03	519.0	980092.02	0.06	-0.22	-40.56	-58.43
LIT59	40 8.58	76 17.23	502.0	980093.31	0.04	-0.22	-41.19	-58.49
LIT60	40 8.68	76 16.87	480.0	980094.62	0.01	-0.21	-42.10	-58.66
LIT61	40 9.35	76 16.75	392.5	980099.09	-0.05	-0.17	-46.85	-60.46
LIT62	40 9.08	76 15.33	508.0	980093.11	0.06	-0.22	-41.57	-59.05
LIT63	40 8.12	76 15.28	351.0	980101.64	-0.05	-0.15	-46.37	-58.55
MAN 1	40 14.73	76 23.67	744.5	980077.22	0.18	-0.31	-43.61	-69.13
MAN 2	40 14.63	76 27.83	844.0	980073.73	0.32	-0.35	-37.59	-66.41
MAN 3	40 14.33	76 27.70	853.0	980073.69	0.38	-0.36	-36.34	-65.41
MAN 4	40 13.65	76 27.08	607.0	980084.36	0.05	-0.26	-47.79	-68.70
MAN 5	40 13.35	76 27.58	569.0	980086.40	0.02	-0.24	-48.89	-68.52
MAN 6	40 13.13	76 28.13	543.0	980087.70	0.01	-0.23	-49.70	-68.45
MAN 7	40 12.88	76 28.73	511.0	980089.84	0.00	-0.22	-50.20	-67.85
MAN 8	40 12.35	76 28.90	544.0	980087.54	-0.01	-0.23	-48.61	-67.41
MAN 9	40 12.20	76 29.82	532.0	980087.57	-0.01	-0.23	-49.48	-67.86
MAN10	40 11.82	76 29.25	523.0	980089.25	-0.02	-0.22	-48.09	-66.17
MAN11	40 11.43	76 29.52	480.0	980091.76	-0.03	-0.21	-49.04	-65.65
MAN12	40 10.90	76 29.68	416.0	980095.95	-0.03	-0.18	-50.08	-64.48
MAN13	40 10.37	76 29.87	407.8	980096.82	-0.04	-0.18	-49.20	-63.32
MAN14	40 10.55	76 28.58	540.0	980090.09	0.01	-0.23	-43.76	-62.40
MAN15	40 10.63	76 27.53	581.2	980087.58	0.03	-0.25	-42.51	-62.55
MAN16	40 10.38	76 26.73	531.0	980088.61	0.00	-0.23	-45.83	-64.17
MAN17	40 9.82	76 26.78	593.0	980085.63	0.07	-0.25	-42.14	-62.55
MAN18	40 9.12	76 26.58	550.0	980087.79	0.04	-0.24	-42.99	-61.95
MAN19	40 8.89	76 26.53	538.0	980088.43	0.03	-0.23	-43.13	-61.69
MAN20	40 8.45	76 27.18	480.0	980091.51	-0.02	-0.21	-44.86	-61.46
MAN21	40 7.70	76 27.15	402.0	980096.48	-0.05	-0.17	-46.11	-60.05
MAN22	40 8.62	76 27.88	413.0	980095.88	-0.04	-0.18	-47.04	-61.35
MAN23	40 9.10	76 27.78	505.0	980090.75	-0.01	-0.22	-44.23	-61.68
MAN24	40 9.38	76 27.63	555.0	980088.06	0.03	-0.24	-42.64	-61.78
MAN25	40 9.82	76 27.37	592.0	980086.16	0.07	-0.25	-41.71	-62.08
MAN26	40 10.10	76 28.83	478.0	980093.30	-0.03	-0.21	-45.72	-62.26
MAN27	40 9.60	76 29.12	544.0	980089.11	0.03	-0.23	-42.95	-61.71
MAN28	40 9.62	76 29.47	533.0	980089.75	0.03	-0.23	-43.37	-61.75
MAN29	40 9.02	76 28.87	504.0	980090.77	-0.01	-0.22	-44.19	-61.60
MAN30	40 8.97	76 29.52	498.0	980091.33	-0.01	-0.21	-44.13	-61.34
MAN31	40 8.37	76 29.78	437.5	980094.43	-0.05	-0.19	-45.83	-60.99
MAN32	40 7.90	76 29.62	344.0	980099.62	-0.06	-0.15	-48.72	-60.67
MAN33	40 7.75	76 29.23	369.0	980098.13	-0.06	-0.16	-47.64	-60.45
MAN34	40 8.62	76 28.53	386.0	980097.40	-0.04	-0.17	-48.07	-61.44
MAN35	40 11.35	76 28.63	505.0	980091.75	-0.02	-0.22	-46.58	-64.04
MAN36	40 11.28	76 28.42	553.0	980088.97	0.01	-0.24	-44.74	-63.83
MAN37	40 10.95	76 27.85	595.0	980087.46	0.05	-0.25	-41.81	-62.31
MAN38	40 11.18	76 27.60	612.0	980086.33	0.07	-0.26	-41.69	-62.75
MAN39	40 11.45	76 27.27	601.0	980086.79	0.05	-0.26	-42.65	-63.36
MAN40	40 11.93	76 26.73	558.0	980089.27	0.01	-0.24	-44.94	-64.20
MAN41	40 11.93	76 26.13	559.0	980089.55	0.01	-0.24	-44.56	-63.86
MAN42	40 9.55	76 23.40	396.8	980095.99	-0.05	-0.17	-49.84	-63.59
MAN43	40 9.22	76 24.05	398.8	980095.61	-0.05	-0.17	-49.54	-63.36
MAN44	40 8.37	76 22.98	402.0	980095.54	-0.05	-0.17	-48.05	-61.99
MAN45	40 7.88	76 24.15	375.0	980098.08	-0.06	-0.16	-47.32	-60.33
MAN46	40 8.52	76 24.53	382.1	980097.09	-0.05	-0.17	-48.59	-61.84
MAN47	40 8.85	76 24.35	405.7	980095.77	-0.05	-0.18	-48.19	-62.25
MAN48	40 8.63	76 25.22	499.0	980090.06	0.01	-0.21	-44.80	-62.02
MAN49	40 8.93	76 25.53	476.0	980092.33	-0.02	-0.20	-45.13	-61.59
MAN50	40 9.43	76 25.83	541.0	980088.73	0.02	-0.23	-43.36	-62.02
MAN51	40 9.75	76 25.93	563.0	980087.51	0.04	-0.24	-42.99	-62.39
MAN52	40 9.45	76 25.23	527.0	980089.31	0.02	-0.23	-44.13	-62.31
MAN53	40 9.32	76 24.67	461.0	980092.55	-0.03	-0.20	-46.90	-62.85
MAN54	40 9.63	76 24.03	402.0	980095.85	-0.04	-0.17	-49.61	-63.54
MAN55	40 10.22	76 24.75	429.0	980095.26	-0.03	-0.19	-48.53	-63.38
MAN56	40 10.88	76 24.30	522.0	980089.94	0.00	-0.22	-46.09	-64.12

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN CURV (dens=2.67)		FREE AIR	COMPLETE BOUGUER
MAN57	40 11.28	76 23.85	514.0	980090.86	-0.01	-0.22	-46.52	-64.28
MAN58	40 11.30	76 23.47	417.1	980096.45	-0.02	-0.18	-50.07	-64.50
MAN59	40 10.37	76 22.65	470.0	980091.97	-0.02	-0.20	-48.19	-64.45
MAN60	40 10.07	76 23.32	402.3	980096.09	-0.04	-0.17	-50.00	-63.94
MAN61	40 11.13	76 24.60	547.0	980089.28	0.02	-0.23	-44.78	-63.65
MAN62	40 11.83	76 25.20	530.0	980091.60	0.00	-0.23	-45.09	-63.40
MAN63	40 11.98	76 25.28	498.0	980093.61	-0.02	-0.21	-46.31	-63.53
MAN64	40 10.95	76 25.32	526.0	980090.51	-0.01	-0.23	-45.25	-63.42
MAN65	40 11.10	76 26.20	593.0	980087.12	0.06	-0.25	-42.56	-62.98
MAN66	40 10.33	76 25.33	507.0	980090.93	-0.01	-0.22	-45.69	-63.21
MAN67	40 10.28	76 26.05	531.0	980089.57	0.00	-0.23	-44.73	-63.07
MAN68	40 12.22	76 26.65	518.0	980090.76	-0.01	-0.22	-47.64	-65.54
MAN69	40 12.22	76 27.03	488.0	980092.59	-0.01	-0.21	-48.64	-65.50
MAN70	40 12.17	76 28.02	510.0	980091.17	-0.02	-0.22	-47.91	-65.54
MAN71	40 12.42	76 28.30	536.0	980088.75	-0.01	-0.23	-48.26	-66.78
MAN72	40 12.55	76 27.93	563.0	980087.08	0.01	-0.24	-47.58	-67.02
MAN73	40 12.85	76 27.28	583.0	980085.32	0.02	-0.25	-47.91	-68.02
MAN74	40 13.20	76 26.48	514.0	980089.23	0.01	-0.22	-51.00	-68.75
MAN75	40 13.25	76 25.97	510.0	980089.45	0.01	-0.22	-51.23	-68.84
MAN76	40 12.97	76 26.00	475.0	980091.67	0.00	-0.20	-51.89	-68.30
MAN77	40 12.62	76 25.68	455.0	980093.65	-0.01	-0.20	-51.27	-67.00
MAN78	40 12.47	76 25.22	502.0	980091.53	-0.01	-0.22	-48.74	-66.09
MAN79	40 13.37	76 25.38	531.3	980087.72	0.02	-0.23	-51.14	-69.47
MAN80	40 13.05	76 24.62	475.0	980090.84	0.02	-0.20	-52.84	-69.22
MAN81	40 13.12	76 24.12	476.0	980090.71	0.03	-0.20	-52.98	-69.39
MAN82	40 12.77	76 23.90	450.0	980093.49	0.01	-0.19	-52.13	-67.66
MAN83	40 13.43	76 23.25	491.0	980089.36	0.08	-0.21	-53.37	-70.25
MAN84	40 13.00	76 23.25	489.0	980090.51	0.02	-0.21	-51.78	-68.64
MAN85	40 12.80	76 23.58	440.0	980094.15	0.02	-0.19	-52.45	-67.62
MAN86	40 12.32	76 23.57	440.0	980096.62	-0.01	-0.19	-49.27	-64.47
MEC 1	40 12.83	77 0.55	434.4	980117.69	-0.10	-0.19	-29.48	-44.58
MEC 2	40 12.65	77 0.70	449.6	980115.67	-0.09	-0.19	-29.80	-45.42
MEC 3	40 13.18	77 0.27	426.0	980119.76	-0.10	-0.18	-28.72	-43.53
MEC 4	40 14.80	77 0.28	386.3	980125.39	-0.10	-0.17	-29.24	-42.68
MEC 5	40 14.27	77 3.68	444.0	980122.16	-0.10	-0.19	-26.25	-41.68
MEC 6	40 14.10	77 4.37	436.1	980121.61	-0.09	-0.19	-27.29	-42.44
MEC 7	40 14.42	77 4.52	542.9	980116.45	-0.03	-0.23	-22.88	-41.66
MEC 8	40 13.98	77 4.80	446.1	980120.94	-0.09	-0.19	-26.84	-42.34
MEC 9	40 13.58	77 5.70	457.0	980119.89	-0.09	-0.20	-26.27	-42.15
MEC10	40 14.90	77 6.15	472.0	980122.92	-0.07	-0.20	-23.79	-40.16
MEC11	40 14.03	77 6.50	483.4	980119.81	-0.08	-0.21	-24.53	-41.31
MEC12	40 13.30	77 7.48	457.3	980118.91	-0.09	-0.20	-26.81	-42.69
MEC13	40 13.08	77 7.12	463.0	980117.79	-0.09	-0.20	-27.06	-43.14
MEC14	40 13.37	77 3.27	429.0	980120.06	-0.10	-0.19	-28.42	-43.34
MEC15	40 12.13	77 1.88	428.6	980116.56	-0.09	-0.19	-30.11	-45.01
MEC16	40 11.12	77 1.63	486.0	980111.59	-0.08	-0.21	-28.19	-45.06
MEC17	40 10.80	77 0.78	502.0	980109.58	-0.07	-0.22	-28.22	-45.63
MEC18	40 10.65	77 1.57	473.0	980111.04	-0.08	-0.20	-29.26	-45.67
MEC19	40 9.72	77 1.63	467.0	980107.80	-0.06	-0.20	-31.68	-47.87
MEC20	40 9.75	77 0.13	497.6	980107.72	-0.06	-0.21	-28.93	-46.17
MEC21	40 8.89	77 0.68	416.3	980110.99	-0.03	-0.18	-32.02	-46.43
MEC22	40 8.52	77 1.48	474.0	980105.34	-0.03	-0.20	-31.70	-48.10
MEC23	40 7.92	77 1.13	560.2	980100.74	-0.01	-0.24	-27.31	-46.66
MEC24	40 7.70	77 2.33	483.6	980100.01	0.09	-0.21	-34.91	-51.52
MEC25	40 8.62	77 2.03	434.5	980105.96	0.00	-0.19	-34.94	-49.95
MEC26	40 9.52	77 2.95	455.0	980109.13	-0.04	-0.20	-31.18	-46.93
MEC27	40 9.33	77 3.62	476.0	980107.63	-0.03	-0.20	-30.43	-46.90
MEC28	40 9.78	77 3.73	524.0	980107.16	-0.04	-0.22	-27.05	-45.19
MEC29	40 10.17	77 3.93	529.0	980108.47	-0.05	-0.23	-25.85	-44.17
MEC30	40 9.38	77 5.17	517.0	980107.19	-0.03	-0.22	-27.08	-44.97
MEC31	40 9.62	77 5.68	499.0	980109.46	-0.04	-0.21	-26.86	-44.13
MEC32	40 10.18	77 6.88	542.0	980107.58	-0.04	-0.23	-25.53	-44.29
MEC33	40 8.78	77 7.40	481.4	980106.12	0.00	-0.21	-30.61	-47.24
MEC34	40 8.47	77 7.00	546.0	980100.79	0.04	-0.23	-29.40	-48.22
MEC35	40 14.02	77 0.42	401.0	980122.54	-0.11	-0.17	-29.54	-43.50

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUGUER
MEC36	40 14.73	77 2.03	396.0	980125.32	-0.10	-0.17	-28.28	-42.06
MEC37	40 13.67	77 1.78	409.0	980120.05	-0.10	-0.18	-30.76	-44.99
MEC38	40 12.90	77 1.70	410.0	980119.72	-0.10	-0.18	-29.85	-44.11
MEC39	40 14.87	77 7.00	442.0	980123.58	-0.08	-0.19	-25.90	-41.25
MEC40	40 13.18	77 4.33	416.3	980121.01	-0.09	-0.18	-28.39	-42.86
MEC41	40 12.68	77 4.12	445.5	980117.02	-0.09	-0.19	-28.88	-44.36
MEC42	40 11.85	77 3.88	453.8	980114.46	-0.09	-0.20	-29.43	-45.19
MEC43	40 12.60	77 6.28	447.0	980117.87	-0.09	-0.19	-27.77	-43.30
MEC44	40 11.72	77 6.92	505.0	980111.59	-0.07	-0.22	-27.29	-44.81
MEC45	40 11.03	77 5.20	477.0	980112.64	-0.08	-0.21	-27.85	-44.40
MEC46	40 10.00	77 4.78	525.7	980109.08	-0.04	-0.23	-25.30	-43.50
MEC47	40 9.89	77 5.17	505.2	980109.61	-0.05	-0.22	-26.53	-44.03
MEC48	40 11.08	77 3.33	491.3	980111.74	-0.08	-0.21	-27.48	-44.53
MEC49	40 11.58	77 2.63	487.0	980112.33	-0.08	-0.21	-28.04	-44.94
MEC50	40 10.13	77 3.12	498.0	980109.86	-0.06	-0.21	-27.31	-44.57
MEC51	40 11.37	77 0.02	504.0	980110.79	-0.07	-0.22	-27.66	-45.14
MEC52	40 8.87	77 1.75	426.1	980108.47	-0.02	-0.18	-33.60	-48.34
MEC53	40 9.02	77 1.97	428.8	980109.44	-0.02	-0.19	-32.59	-47.42
MEC54	40 8.93	77 2.77	439.1	980107.53	0.01	-0.19	-33.40	-48.56
MEC55	40 8.55	77 2.68	456.0	980103.45	0.04	-0.20	-35.33	-51.04
MEC56	40 8.18	77 2.57	474.5	980100.67	0.08	-0.20	-35.82	-52.12
MEC57	40 7.68	77 7.47	610.0	980092.93	0.13	-0.26	-30.07	-51.01
MEC58	40 8.52	77 5.77	471.0	980105.79	0.12	-0.20	-31.54	-47.68
MEC59	40 7.65	77 5.12	699.0	980083.08	0.37	-0.30	-31.51	-55.28
MEC60	40 8.38	77 3.75	448.0	980102.76	0.25	-0.19	-36.51	-51.74
MEC61	40 9.35	77 0.50	457.0	980108.01	-0.06	-0.20	-31.86	-47.71
MEC62	40 8.38	77 1.08	527.0	980102.43	-0.03	-0.23	-29.42	-47.65
MEC63	40 8.03	77 0.30	566.0	980101.47	-0.01	-0.24	-26.19	-45.75
MID 1	40 8.99	76 44.98	289.0	980115.26	-0.06	-0.13	-39.87	-49.92
MID 2	40 8.10	76 44.98	321.0	980112.21	-0.05	-0.14	-38.59	-49.73
MID 3	40 7.82	76 44.73	314.5	980112.28	-0.06	-0.14	-38.72	-49.65
MID 4	40 7.52	76 39.07	454.0	980092.99	-0.04	-0.20	-44.44	-60.17
MID 5	40 8.03	76 38.25	616.0	980083.60	0.13	-0.26	-39.36	-60.50
MID 6	40 8.33	76 37.84	635.0	980082.83	0.15	-0.27	-38.78	-60.56
MID 7	40 7.95	76 37.88	481.0	980091.00	-0.03	-0.21	-44.54	-61.18
MID 8	40 7.70	76 37.55	391.0	980096.40	-0.03	-0.17	-47.23	-60.76
MID 9	40 7.90	76 42.90	294.2	980111.90	-0.07	-0.13	-41.13	-51.36
MID10	40 8.38	76 42.95	388.0	980107.23	-0.06	-0.17	-37.68	-51.15
MID11	40 8.83	76 43.13	296.7	980113.99	-0.09	-0.13	-40.19	-50.53
MID12	40 9.22	76 43.05	337.0	980112.08	-0.08	-0.15	-38.88	-50.60
MID13	40 9.87	76 43.13	302.5	980115.13	-0.08	-0.13	-40.05	-50.58
MID14	40 10.32	76 42.28	362.0	980111.72	-0.08	-0.16	-38.52	-51.11
MID15	40 9.68	76 41.90	363.2	980111.02	-0.08	-0.16	-38.17	-50.79
MID16	40 9.18	76 42.48	367.0	980109.85	-0.07	-0.16	-38.24	-50.98
MID17	40 8.80	76 42.12	311.0	980112.29	-0.07	-0.14	-40.50	-51.31
MID18	40 8.57	76 42.43	310.0	980112.70	-0.07	-0.14	-39.84	-50.62
MID19	40 8.10	76 41.83	511.0	980098.23	0.06	-0.22	-34.70	-52.29
MID20	40 7.62	76 41.43	522.0	980091.69	0.07	-0.22	-39.50	-57.46
MID21	40 7.65	76 40.84	440.0	980095.46	-0.05	-0.19	-43.49	-58.74
MID22	40 7.80	76 40.41	471.0	980093.60	-0.03	-0.20	-42.65	-58.95
MID23	40 8.07	76 40.41	520.0	980094.21	0.02	-0.22	-37.84	-55.78
MID24	40 13.80	76 44.28	384.0	980112.47	-0.08	-0.17	-40.88	-54.22
MID25	40 14.52	76 44.18	350.0	980116.05	-0.08	-0.15	-41.57	-53.73
MID26	40 14.92	76 44.22	319.0	980118.29	-0.06	-0.14	-42.84	-53.92
MID27	40 12.98	76 44.15	481.0	980103.31	0.01	-0.21	-39.69	-56.30
MID28	40 13.17	76 44.70	477.0	980104.70	-0.02	-0.21	-38.97	-55.47
MID29	40 12.30	76 44.07	367.0	980108.88	-0.08	-0.16	-43.84	-56.60
MID30	40 12.35	76 43.43	327.0	980111.06	-0.08	-0.14	-45.50	-56.88
MID31	40 12.07	76 43.58	343.0	980109.92	-0.08	-0.15	-44.71	-56.64
MID32	40 11.45	76 43.83	312.3	980111.29	-0.08	-0.14	-45.31	-56.18
MID33	40 11.17	76 44.08	296.0	980112.83	-0.08	-0.13	-44.89	-55.19
MID34	40 11.83	76 44.78	325.8	980111.01	-0.09	-0.14	-44.89	-56.24
MID35	40 13.73	76 43.47	314.0	980115.63	-0.06	-0.14	-44.20	-55.11
MID36	40 14.68	76 42.35	379.0	980112.73	-0.02	-0.16	-42.40	-55.51
MID37	40 13.63	76 42.30	550.0	980099.72	0.06	-0.24	-37.77	-56.70

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUGUER
MID38	40 13.47	76 42.08	575.0	980097.53	0.08	-0.25	-37.37	-57.15
MID39	40 12.60	76 43.02	300.0	980113.00	-0.05	-0.13	-46.47	-56.88
MID40	40 11.97	76 42.95	309.0	980111.95	-0.06	-0.13	-45.74	-56.47
MID41	40 11.77	76 42.35	338.0	980110.83	-0.05	-0.15	-43.83	-55.56
MID42	40 12.00	76 41.07	436.0	980104.81	-0.04	-0.19	-40.97	-56.07
MID43	40 12.05	76 40.66	528.0	980098.38	-0.01	-0.23	-38.83	-57.08
MID44	40 11.70	76 40.65	545.0	980097.66	0.02	-0.23	-37.43	-56.23
MID45	40 11.27	76 40.84	529.0	980099.80	0.01	-0.23	-36.15	-54.41
MID46	40 11.53	76 41.53	505.0	980103.04	-0.01	-0.22	-35.56	-53.01
MID47	40 11.18	76 41.62	505.0	980103.84	0.00	-0.22	-34.24	-51.68
MID48	40 11.13	76 43.10	372.0	980108.81	-0.07	-0.16	-41.70	-54.62
MID49	40 10.00	76 42.78	333.2	980113.29	-0.08	-0.15	-39.19	-50.78
MID50	40 10.75	76 42.00	452.0	980106.88	-0.04	-0.19	-35.54	-51.19
MID51	40 10.83	76 42.12	494.0	980104.52	0.01	-0.21	-34.07	-51.12
MID52	40 10.67	76 41.60	369.0	980111.11	-0.07	-0.16	-39.00	-51.82
MID53	40 10.42	76 41.15	411.0	980108.11	-0.07	-0.18	-37.67	-51.94
MID54	40 10.03	76 40.98	383.0	980109.27	-0.07	-0.17	-38.57	-51.87
MID55	40 9.64	76 40.82	397.6	980107.47	-0.07	-0.17	-38.42	-52.22
MID56	40 10.14	76 40.32	450.0	980102.42	-0.05	-0.19	-39.28	-54.88
MID57	40 10.37	76 39.83	394.0	980104.43	-0.07	-0.17	-42.88	-56.56
MID58	40 9.58	76 39.82	396.0	980103.13	-0.07	-0.17	-42.83	-56.57
MID59	40 9.18	76 40.02	363.0	980106.97	-0.05	-0.16	-41.49	-54.08
MID60	40 8.63	76 40.27	452.0	980101.06	-0.05	-0.19	-38.21	-53.88
MID61	40 8.47	76 40.30	525.0	980096.68	0.02	-0.23	-35.49	-53.60
MID62	40 8.53	76 39.23	520.0	980095.14	-0.01	-0.22	-37.59	-55.56
MID63	40 8.03	76 39.20	438.0	980096.40	-0.04	-0.19	-43.30	-58.46
MID64	40 8.72	76 38.27	613.0	980088.86	0.11	-0.26	-35.40	-56.46
MID65	40 14.83	76 40.25	621.0	980094.86	0.05	-0.26	-37.73	-59.13
MID66	40 14.80	76 39.91	670.0	980091.72	0.10	-0.28	-36.23	-59.26
MID67	40 14.93	76 38.07	439.0	980104.32	-0.02	-0.19	-45.54	-60.72
MID68	40 14.70	76 37.55	490.0	980100.89	-0.03	-0.21	-43.83	-60.78
MID69	40 14.40	76 37.53	520.0	980098.82	-0.02	-0.22	-42.64	-60.62
MID70	40 14.02	76 37.62	568.0	980095.59	0.01	-0.24	-40.78	-60.39
MID71	40 13.68	76 37.52	570.0	980095.66	0.01	-0.24	-40.02	-59.70
MID72	40 13.90	76 38.78	649.0	980089.97	0.06	-0.28	-38.61	-60.96
MID73	40 13.85	76 39.00	631.0	980091.20	0.04	-0.27	-39.00	-60.75
MID74	40 13.22	76 38.90	763.0	980082.78	0.30	-0.32	-34.07	-60.11
MID75	40 13.70	76 39.58	591.0	980094.02	0.01	-0.25	-39.71	-60.11
MID76	40 13.62	76 40.03	572.0	980095.69	0.01	-0.24	-39.71	-59.45
MID77	40 13.55	76 40.32	576.0	980095.58	0.01	-0.25	-39.34	-59.22
MID78	40 13.50	76 40.55	558.0	980097.35	0.00	-0.24	-39.19	-58.46
MID79	40 13.75	76 40.68	575.0	980096.19	0.01	-0.25	-39.12	-58.97
MID80	40 14.02	76 40.91	649.0	980091.97	0.08	-0.28	-36.78	-59.11
MID81	40 14.28	76 40.98	754.0	980085.92	0.31	-0.32	-33.35	-59.07
MID82	40 14.52	76 41.13	595.0	980096.96	0.04	-0.25	-37.62	-58.12
MID83	40 12.25	76 40.09	590.0	980094.40	0.05	-0.25	-37.28	-57.60
MID84	40 12.55	76 39.45	593.0	980093.66	0.03	-0.25	-38.18	-58.63
MID85	40 12.77	76 38.68	530.0	980097.28	-0.01	-0.23	-40.82	-59.13
MID86	40 12.72	76 38.33	486.0	980099.86	-0.01	-0.21	-42.29	-59.09
MID87	40 12.75	76 37.75	577.0	980094.20	0.01	-0.25	-39.44	-59.36
MID88	40 12.37	76 38.13	484.0	980099.95	-0.04	-0.21	-41.87	-58.62
MID89	40 12.15	76 38.48	461.0	980101.65	-0.04	-0.20	-42.01	-57.97
MID90	40 11.92	76 38.87	483.0	980100.38	-0.04	-0.21	-40.87	-57.59
MID91	40 11.47	76 39.28	431.0	980103.29	-0.05	-0.19	-42.18	-57.12
MID92	40 11.50	76 39.73	437.0	980103.38	-0.06	-0.19	-41.57	-56.72
MID93	40 11.22	76 38.63	429.0	980102.54	-0.06	-0.19	-42.75	-57.63
MID94	40 11.13	76 37.70	445.0	980101.45	-0.06	-0.19	-42.20	-57.63
MID95	40 10.42	76 38.05	386.0	980103.01	-0.05	-0.17	-45.12	-58.51
MID96	40 10.27	76 39.15	414.0	980101.87	-0.07	-0.18	-43.41	-57.78
MID97	40 10.65	76 39.72	398.0	980104.46	-0.07	-0.17	-42.89	-56.71
MID98	40 10.92	76 40.34	430.0	980104.05	-0.06	-0.19	-40.70	-55.61
MID99	40 9.87	76 38.52	387.4	980101.66	-0.05	-0.17	-45.53	-58.96
MID00	40 9.72	76 38.25	405.0	980099.95	-0.05	-0.18	-45.36	-59.40
MDT01	40 9.58	76 38.65	415.0	980099.33	-0.05	-0.18	-44.84	-59.22
MDT02	40 12.75	76 41.27	464.5	980104.28	-0.01	-0.20	-39.94	-55.99

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUQUER
PAL 1	40 16.62	76 36.43	456.0	980106.26	-0.06	-0.20	-44.51	-60.32
PAL 2	40 15.53	76 35.16	572.0	980094.29	0.00	-0.24	-43.96	-63.71
PAL 3	40 15.28	76 34.32	655.0	980088.17	0.09	-0.28	-41.89	-64.42
PAL 4	40 16.65	76 34.72	463.8	980103.45	-0.05	-0.20	-46.64	-62.71
PAL 5	40 16.70	76 34.28	488.6	980101.36	-0.05	-0.21	-46.46	-63.39
PAL 6	40 17.25	76 34.48	478.5	980104.07	-0.05	-0.21	-45.52	-62.10
PAL 7	40 17.82	76 34.62	475.0	980106.17	-0.06	-0.20	-44.60	-61.07
PAL 8	40 18.57	76 34.09	448.0	980108.83	-0.07	-0.19	-45.59	-61.13
PAL 9	40 17.82	76 33.93	450.0	980106.52	-0.07	-0.19	-46.61	-62.22
PAL10	40 17.48	76 34.15	477.0	980104.78	-0.06	-0.21	-45.30	-61.83
PAL11	40 17.54	76 32.97	452.0	980104.94	-0.06	-0.19	-47.57	-63.24
PAL12	40 17.73	76 32.32	477.0	980102.98	-0.05	-0.21	-47.46	-63.99
PAL13	40 18.23	76 32.05	464.0	980104.54	-0.06	-0.20	-47.88	-63.97
PAL14	40 16.83	76 32.00	484.0	980100.72	-0.04	-0.21	-47.73	-64.49
PAL15	40 16.33	76 32.27	513.0	980097.56	-0.02	-0.22	-47.42	-65.16
PAL16	40 15.05	76 30.88	632.0	980089.54	0.05	-0.27	-42.34	-64.12
PAL17	40 16.90	76 31.32	521.4	980097.69	-0.03	-0.22	-47.34	-65.38
PAL18	40 17.02	76 30.08	497.7	980097.86	-0.03	-0.21	-49.58	-66.80
PAL19	40 16.95	76 30.82	551.0	980096.18	-0.01	-0.24	-46.15	-65.18
PAL20	40 17.87	76 31.23	501.0	980100.41	-0.04	-0.22	-47.99	-65.33
PAL21	40 18.71	76 31.50	435.6	980106.42	-0.06	-0.19	-49.38	-64.48
PAL22	40 18.96	76 30.38	480.0	980102.83	-0.05	-0.21	-49.17	-65.80
PAL23	40 20.00	76 30.85	448.3	980108.26	-0.06	-0.19	-48.27	-63.81
PAL24	40 19.62	76 31.57	389.8	980111.79	-0.06	-0.17	-49.67	-63.19
PAL25	40 19.03	76 32.03	474.5	980105.83	-0.05	-0.20	-46.79	-63.23
PAL26	40 18.52	76 32.88	434.0	980108.08	-0.07	-0.19	-47.59	-62.65
PAL27	40 19.43	76 32.45	428.1	980110.35	-0.07	-0.19	-47.23	-62.08
PAL28	40 19.70	76 32.53	413.9	980111.32	-0.07	-0.18	-47.99	-62.36
PAL29	40 20.45	76 32.45	448.0	980110.12	-0.06	-0.19	-47.10	-62.64
PAL30	40 20.37	76 31.68	623.7	980098.98	0.13	-0.27	-41.60	-63.01
PAL31	40 21.02	76 30.95	550.0	980103.30	-0.01	-0.24	-45.18	-64.18
PAL32	40 20.90	76 30.07	592.0	980099.90	0.04	-0.25	-44.45	-64.85
PAL33	40 21.37	76 30.90	522.0	980105.56	-0.03	-0.22	-46.07	-64.12
PAL34	40 21.85	76 30.85	447.0	980111.00	-0.06	-0.19	-48.40	-63.90
PAL35	40 22.43	76 30.48	517.0	980107.51	-0.03	-0.22	-46.16	-64.05
PAL36	40 21.63	76 32.05	476.0	980109.75	-0.05	-0.20	-46.60	-63.09
PAL37	40 21.62	76 32.84	500.0	980109.13	-0.04	-0.21	-44.94	-62.25
PAL38	40 21.35	76 32.84	570.3	980104.69	0.03	-0.24	-42.37	-62.04
PAL39	40 18.52	76 36.68	436.8	980111.65	-0.07	-0.19	-43.75	-58.91
PAL40	40 18.73	76 36.03	452.0	980110.29	-0.06	-0.19	-44.00	-59.67
PAL41	40 19.52	76 35.47	606.0	980101.58	0.07	-0.26	-39.40	-60.26
PAL42	40 20.55	76 35.63	515.0	980108.36	-0.02	-0.22	-42.71	-60.51
PAL43	40 20.98	76 35.38	363.0	980117.58	-0.05	-0.16	-48.42	-61.01
PAL44	40 21.23	76 34.62	536.0	980108.03	0.01	-0.23	-42.08	-60.58
PAL45	40 21.22	76 33.90	463.0	980111.94	-0.06	-0.20	-45.02	-61.07
PAL46	40 20.97	76 36.22	434.0	980113.80	-0.06	-0.19	-45.51	-60.56
PAL47	40 21.55	76 36.70	356.0	980119.29	-0.05	-0.15	-48.22	-60.57
PAL48	40 22.12	76 35.77	373.0	980119.36	-0.06	-0.16	-47.40	-60.34
PAL49	40 22.23	76 36.72	422.0	980116.40	-0.06	-0.18	-45.91	-60.55
PAL50	40 21.62	76 37.30	402.0	980116.89	-0.06	-0.17	-46.39	-60.34
PAL51	40 20.95	76 37.00	352.0	980118.69	-0.05	-0.15	-48.30	-60.51
PAL52	40 20.20	76 37.12	410.0	980114.53	-0.06	-0.18	-45.90	-60.12
PAL53	40 19.53	76 36.23	589.0	980103.42	0.05	-0.25	-39.17	-59.46
RIC 1	40 16.62	76 21.90	681.0	980084.33	0.15	-0.29	-45.28	-68.65
RIC 2	40 22.28	76 22.42	550.0	980099.53	-0.03	-0.24	-50.82	-69.85
RIC 3	40 21.25	76 22.45	510.6	980099.05	-0.04	-0.22	-53.48	-71.15
RIC 4	40 20.88	76 22.27	512.0	980099.07	-0.04	-0.22	-52.77	-70.50
RIC 5	40 21.17	76 21.32	489.1	980100.30	-0.03	-0.21	-54.13	-71.05
RIC 6	40 21.62	76 21.57	516.0	980098.95	-0.04	-0.22	-53.62	-71.48
RIC 7	40 22.48	76 21.53	566.0	980098.53	-0.02	-0.24	-50.62	-70.18
RIC 8	40 22.48	76 21.03	540.0	980099.65	-0.03	-0.23	-51.94	-70.62
RIC 9	40 22.47	76 20.07	515.0	980100.36	-0.03	-0.22	-53.56	-71.38
RIC10	40 22.30	76 19.45	489.0	980101.12	-0.04	-0.21	-55.00	-71.93
RIC11	40 21.70	76 20.04	492.5	980100.68	-0.04	-0.21	-54.22	-71.27
RIC12	40 21.88	76 19.40	479.9	980101.37	-0.04	-0.21	-54.98	-71.60

GETTYSBURG BASIN GRAVITY

STATION ID	LOCATIONS			OBSERVED GRAVITY (mgals)	CORRECTIONS		ANOMALIES	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUQUER
RIC13	40 17.27	76 21.17	540.0	980091.81	0.06	-0.23	-52.03	-70.62
RIC14	40 17.46	76 20.75	525.0	980092.54	0.03	-0.23	-52.99	-71.09
RIC15	40 17.95	76 21.32	587.0	980089.95	0.01	-0.25	-50.48	-70.74
RIC16	40 18.40	76 22.28	541.0	980093.39	-0.01	-0.23	-52.03	-70.73
RIC17	40 19.02	76 21.82	555.0	980093.00	-0.01	-0.24	-52.03	-71.21
RIC18	40 19.52	76 21.78	539.0	980095.11	-0.02	-0.23	-52.17	-70.80
RIC19	40 20.03	76 21.73	514.0	980096.58	-0.03	-0.22	-53.81	-71.59
RIC20	40 20.07	76 20.78	553.0	980094.73	-0.02	-0.24	-52.05	-71.17
RIC21	40 20.70	76 21.17	513.0	980098.14	-0.03	-0.22	-53.34	-71.09
RIC22	40 20.75	76 20.52	534.0	980096.58	-0.03	-0.23	-53.00	-71.47
RIC23	40 20.78	76 19.93	506.0	980097.71	-0.03	-0.22	-54.55	-72.05
RIC24	40 20.37	76 19.83	525.0	980095.90	-0.03	-0.23	-53.96	-72.12
RIC25	40 20.67	76 18.73	524.7	980095.89	-0.03	-0.23	-54.45	-72.60
RIC26	40 21.30	76 18.58	476.0	980100.15	-0.04	-0.20	-55.71	-72.19
RIC27	40 22.48	76 18.23	476.7	980101.56	-0.04	-0.21	-55.99	-72.49
RIC28	40 22.17	76 18.17	445.9	980102.76	-0.04	-0.19	-57.22	-72.66
RIC29	40 21.88	76 18.20	473.5	980101.33	-0.04	-0.20	-55.62	-72.02
RIC30	40 21.90	76 17.46	500.3	980099.76	-0.04	-0.22	-54.70	-72.02
RIC31	40 20.80	76 17.23	517.0	980097.00	-0.03	-0.22	-54.25	-72.14
RIC32	40 20.97	76 16.93	457.0	980100.67	-0.03	-0.20	-56.47	-72.29
RIC33	40 21.50	76 16.77	431.0	980103.04	-0.03	-0.19	-57.34	-72.25
RIC34	40 21.68	76 16.29	453.5	980102.03	-0.03	-0.20	-56.50	-72.19
RIC35	40 22.32	76 15.80	495.0	980100.21	-0.03	-0.21	-55.37	-72.50
RIC36	40 22.47	76 15.13	493.0	980101.38	-0.03	-0.21	-54.61	-71.67
RIC37	40 21.53	76 15.53	488.0	980099.94	-0.03	-0.21	-55.13	-72.01
RIC38	40 21.27	76 15.13	520.0	980097.65	-0.01	-0.22	-54.02	-71.99
RIC39	40 20.80	76 15.20	551.5	980095.29	0.02	-0.24	-52.72	-71.74
RIC40	40 20.57	76 15.75	536.0	980097.07	0.00	-0.23	-52.05	-70.56
RIC41	40 19.62	76 18.23	550.6	980093.65	-0.01	-0.24	-52.69	-71.71
RIC42	40 17.70	76 19.42	538.0	980091.45	0.00	-0.23	-53.22	-71.80
RIC43	40 17.82	76 19.00	516.0	980092.93	0.00	-0.22	-53.99	-71.81
RIC44	40 17.90	76 18.33	575.3	980090.72	0.01	-0.25	-50.74	-70.59
RIC45	40 18.04	76 18.87	523.0	980093.58	0.00	-0.22	-53.00	-71.06
RIC46	40 18.23	76 19.42	576.0	980090.57	0.00	-0.25	-51.31	-71.20
RIC47	40 18.43	76 19.77	617.0	980088.70	0.03	-0.26	-49.63	-70.90
RIC48	40 18.50	76 20.33	637.9	980087.96	0.05	-0.27	-48.50	-70.48
RIC49	40 19.03	76 21.28	547.6	980094.06	-0.02	-0.23	-51.68	-70.61
RIC50	40 19.60	76 19.32	527.0	980093.59	-0.02	-0.23	-54.94	-73.16
RIC51	40 18.67	76 18.79	578.0	980091.68	0.00	-0.25	-50.66	-70.63
RIC52	40 18.77	76 18.25	567.0	980092.50	0.00	-0.24	-51.03	-70.61
RIC53	40 19.20	76 18.17	557.0	980092.30	0.00	-0.24	-52.81	-72.05
RIC54	40 20.03	76 18.35	533.0	980094.15	-0.02	-0.23	-54.45	-72.88
RIC55	40 20.42	76 18.48	516.0	980095.35	-0.03	-0.22	-55.44	-73.29
RIC56	40 19.53	76 16.35	565.0	980092.87	0.02	-0.24	-51.98	-71.47
RIC57	40 19.37	76 16.62	557.0	980093.76	0.01	-0.24	-51.61	-70.83
RIC58	40 18.73	76 17.02	635.0	980088.53	0.05	-0.27	-48.54	-70.42
RIC59	40 18.53	76 16.82	777.0	980079.79	0.28	-0.33	-43.64	-70.19
RIC60	40 18.48	76 16.12	780.0	980079.70	0.27	-0.33	-43.36	-70.02
RIC61	40 18.50	76 15.33	606.0	980090.26	0.05	-0.26	-49.20	-70.08
RIC62	40 18.03	76 16.17	624.0	980088.49	0.05	-0.27	-48.58	-70.08
RIC63	40 18.02	76 16.58	629.5	980087.63	0.05	-0.27	-48.91	-70.60
RIC64	40 17.53	76 16.68	762.0	980077.36	0.19	-0.32	-45.99	-72.11
RIC65	40 17.25	76 16.43	804.0	980073.53	0.26	-0.34	-45.45	-72.95
RIC66	40 16.62	76 16.48	835.0	980070.00	0.32	-0.35	-45.13	-73.64
RIC67	40 16.42	76 16.27	667.0	980079.76	0.09	-0.28	-50.87	-73.81
RIC68	40 16.52	76 15.80	674.0	980078.86	0.09	-0.29	-51.26	-74.45
RIC69	40 16.00	76 15.33	635.0	980080.83	0.09	-0.27	-52.18	-74.02
RIC70	40 15.88	76 16.28	661.0	980079.47	0.10	-0.28	-50.92	-73.65
RIC71	40 15.80	76 16.77	566.0	980084.50	0.12	-0.24	-54.71	-74.14
RIC72	40 16.23	76 17.00	616.0	980080.90	0.07	-0.26	-54.24	-75.44
RIC73	40 15.85	76 17.23	652.0	980079.52	0.08	-0.28	-51.68	-74.11
RIC74	40 15.37	76 17.62	760.0	980072.09	0.23	-0.32	-48.23	-74.24
RIC75	40 15.30	76 18.48	579.0	980081.98	0.05	-0.25	-55.26	-75.21
RIC76	40 16.12	76 18.23	658.0	980080.17	0.07	-0.28	-50.86	-73.51
RIC77	40 16.27	76 18.02	697.0	980078.15	0.11	-0.30	-49.44	-73.40

GETTYSBURG BASIN GRAVITY

STATION ID	LOCATIONS			OBSERVED GRAVITY (mgals)	CORRECTIONS-		ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUGUER
RIC78	40 16.48	76 17.75	571.0	980086.51	0.05	-0.24	-53.24	-72.91
RIC79	40 17.75	76 17.79	559.8	980091.36	0.02	-0.24	-51.33	-70.64
RIC80	40 17.42	76 18.03	550.1	980091.35	0.02	-0.24	-51.76	-70.74
RIC81	40 15.72	76 19.52	456.1	980091.06	0.14	-0.20	-58.37	-73.98
RIC82	40 16.03	76 19.35	466.6	980091.41	0.11	-0.20	-57.49	-73.49
RIC83	40 16.21	76 19.27	467.0	980092.25	0.10	-0.20	-56.88	-72.91
RIC84	40 16.67	76 19.02	521.0	980090.74	0.03	-0.22	-54.00	-71.96
RIC85	40 16.79	76 18.60	576.0	980088.08	0.03	-0.25	-51.67	-71.53
RIC86	40 17.00	76 18.28	538.7	980091.08	0.03	-0.23	-52.48	-71.05
STE 1	40 12.98	76 51.65	306.6	980121.23	-0.02	-0.13	-38.18	-48.79
STE 2	40 12.47	76 51.27	308.0	980119.05	0.08	-0.13	-39.47	-50.03
STE 3	40 12.48	76 50.88	348.0	980116.36	0.01	-0.15	-38.42	-50.43
STE 4	40 13.12	76 50.35	342.0	980118.26	-0.08	-0.15	-38.03	-49.92
STE 5	40 13.22	76 51.35	335.9	980119.69	-0.07	-0.15	-37.32	-48.99
STE 6	40 13.43	76 51.62	308.0	980121.90	-0.07	-0.13	-38.05	-48.76
STE 7	40 13.33	76 52.32	374.0	980118.14	-0.08	-0.16	-35.45	-48.45
STE 8	40 13.63	76 52.13	333.0	980120.71	-0.08	-0.14	-37.18	-48.77
STE 9	40 11.02	76 52.33	967.0	980081.02	0.88	-0.40	-13.37	-45.87
STE10	40 11.02	76 51.67	695.0	980096.91	0.13	-0.29	-23.06	-46.93
STE11	40 11.75	76 51.67	684.6	980098.01	0.20	-0.29	-24.03	-47.47
STE12	40 10.18	76 52.23	716.0	980093.08	0.16	-0.30	-23.67	-48.23
STE13	40 9.80	76 52.10	761.0	980087.25	0.27	-0.32	-24.70	-50.71
STE14	40 12.10	76 52.15	540.9	980107.32	0.06	-0.23	-28.75	-47.37
STE15	40 11.25	76 50.67	673.1	980097.55	0.15	-0.29	-24.82	-47.91
STE16	40 10.32	76 49.65	460.0	980107.85	-0.02	-0.20	-33.18	-49.09
STE17	40 10.63	76 49.97	483.0	980106.91	-0.01	-0.21	-32.42	-49.11
STE18	40 10.73	76 50.25	544.0	980103.10	0.00	-0.23	-30.63	-49.42
STE19	40 11.22	76 50.20	606.0	980100.31	0.06	-0.26	-28.33	-49.20
STE20	40 11.57	76 50.55	635.0	980100.79	0.14	-0.27	-25.64	-47.42
STE21	40 11.85	76 50.65	643.0	980097.45	0.21	-0.27	-28.64	-50.63
STE22	40 11.22	76 49.63	750.0	980092.36	0.40	-0.32	-22.73	-48.23
STE23	40 10.93	76 49.17	632.0	980098.43	0.10	-0.27	-27.32	-49.05
STE24	40 10.35	76 49.00	467.0	980107.51	-0.03	-0.20	-32.90	-49.06
STE25	40 10.48	76 48.15	459.0	980108.11	-0.02	-0.20	-33.25	-49.13
STE26	40 10.82	76 47.92	618.0	980098.92	0.12	-0.26	-28.00	-49.22
STE27	40 10.52	76 47.78	480.0	980106.94	-0.03	-0.21	-32.51	-49.11
STE28	40 10.50	76 46.33	500.0	980105.20	0.02	-0.21	-32.34	-49.59
STE29	40 10.25	76 45.10	302.0	980116.82	-0.07	-0.13	-38.96	-49.47
STE30	40 10.30	76 45.50	431.0	980108.81	-0.04	-0.19	-34.92	-49.84
STE31	40 10.32	76 45.88	509.0	980104.31	0.06	-0.22	-32.11	-49.63
STE32	40 10.18	76 45.88	491.0	980105.62	0.02	-0.21	-32.29	-49.23
STE33	40 10.13	76 46.40	430.0	980109.62	-0.05	-0.19	-33.95	-48.85
STE34	40 10.03	76 46.78	392.0	980111.86	-0.06	-0.17	-35.13	-48.73
STE35	40 9.85	76 47.33	377.0	980112.54	-0.05	-0.16	-35.60	-48.67
STE36	40 9.60	76 47.03	410.0	980110.36	-0.06	-0.18	-34.30	-48.52
STE37	40 9.37	76 46.97	453.0	980107.16	-0.05	-0.20	-33.12	-48.82
STE38	40 9.00	76 46.72	354.0	980111.90	-0.04	-0.15	-37.13	-49.40
STE39	40 9.18	76 45.95	331.0	980113.21	-0.05	-0.14	-38.26	-49.75
STE40	40 9.47	76 45.47	376.0	980111.33	-0.07	-0.16	-36.34	-49.40
STE41	40 9.18	76 49.03	444.0	980106.77	-0.04	-0.19	-34.08	-49.45
STE42	40 9.83	76 49.17	434.0	980109.27	-0.04	-0.19	-33.48	-48.51
STE43	40 10.02	76 49.38	489.0	980106.11	-0.04	-0.21	-31.74	-48.67
STE44	40 9.67	76 49.57	502.4	980104.67	-0.04	-0.22	-31.41	-48.80
STE45	40 9.83	76 49.92	517.0	980104.00	-0.03	-0.22	-30.94	-48.82
STE46	40 9.45	76 50.28	465.4	980106.71	-0.02	-0.20	-32.52	-48.61
STE47	40 9.13	76 50.40	652.5	980095.40	0.12	-0.28	-25.75	-48.17
STE48	40 8.89	76 50.75	500.0	980101.51	-0.03	-0.21	-33.63	-50.93
STE49	40 8.64	76 50.97	441.5	980103.69	-0.02	-0.19	-36.59	-51.86
STE50	40 8.55	76 51.30	503.0	980099.70	-0.03	-0.22	-34.66	-52.06
STE51	40 9.18	76 51.77	516.0	980101.02	-0.01	-0.22	-33.06	-50.89
STE52	40 9.20	76 52.22	487.0	980102.96	0.00	-0.21	-33.87	-50.69
STE53	40 8.64	76 51.80	454.0	980102.85	-0.02	-0.20	-36.25	-51.95
STE54	40 8.33	76 52.28	433.0	980104.02	0.00	-0.19	-36.60	-51.55
STE55	40 8.30	76 52.03	435.5	980103.47	-0.01	-0.19	-36.86	-51.91
STE56	40 7.88	76 49.32	489.5	980097.36	-0.04	-0.21	-37.27	-54.22

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUGUER
STE57	40 8.12	76 49.58	491.0	980098.30	-0.04	-0.21	-36.55	-53.55
STE58	40 8.30	76 49.85	464.0	980100.86	-0.04	-0.20	-36.79	-52.86
STE59	40 9.05	76 49.53	432.0	980107.08	-0.03	-0.19	-34.70	-49.65
STE60	40 8.80	76 49.02	558.9	980098.54	0.00	-0.24	-30.93	-50.23
STE61	40 8.30	76 48.30	544.1	980100.32	-0.01	-0.23	-29.80	-48.60
STE62	40 8.70	76 47.97	497.0	980102.22	-0.03	-0.21	-32.92	-50.12
STE63	40 8.97	76 47.63	380.0	980109.54	-0.03	-0.16	-37.01	-50.17
STE64	40 8.88	76 46.97	351.0	980111.52	-0.02	-0.15	-37.63	-49.77
STE65	40 8.57	76 47.55	406.0	980107.16	-0.02	-0.18	-36.35	-50.40
STE66	40 8.25	76 47.63	437.0	980104.61	-0.03	-0.19	-35.51	-50.63
STE67	40 8.00	76 48.20	612.0	980093.39	0.07	-0.26	-29.90	-50.96
STE68	40 7.88	76 47.78	554.4	980097.54	0.00	-0.24	-30.99	-50.13
STE69	40 7.73	76 47.58	577.4	980095.21	0.03	-0.25	-30.93	-50.84
STE70	40 7.88	76 47.85	560.7	980096.94	0.01	-0.24	-30.99	-50.34
STE71	40 8.13	76 47.03	544.0	980097.99	0.01	-0.23	-31.89	-50.67
STE72	40 8.12	76 46.40	562.0	980097.29	0.03	-0.24	-30.88	-50.24
STE73	40 8.47	76 46.00	543.0	980099.07	0.07	-0.23	-31.41	-50.09
STE74	40 8.64	76 45.78	504.0	980101.74	0.03	-0.22	-32.66	-50.04
STE75	40 9.20	76 45.33	304.2	980114.97	-0.06	-0.13	-39.05	-49.62
STE76	40 8.47	76 45.02	298.6	980113.93	-0.05	-0.13	-39.53	-49.90
STE77	40 8.10	76 45.60	508.5	980100.90	0.03	-0.22	-32.27	-49.80
STE78	40 7.52	76 45.25	491.0	980101.28	0.01	-0.21	-32.68	-49.63
STE79	40 7.58	76 45.98	484.0	980101.47	-0.02	-0.21	-33.23	-49.96
STE80	40 7.67	76 46.53	592.0	980094.47	0.08	-0.25	-30.21	-50.57
STE81	40 12.68	76 47.87	313.4	980115.86	-0.07	-0.14	-42.47	-53.36
STE82	40 13.35	76 45.22	509.0	980104.15	0.01	-0.22	-36.78	-54.35
STE83	40 13.22	76 45.82	431.0	980108.77	-0.07	-0.19	-39.30	-54.26
STE84	40 13.18	76 46.58	354.0	980114.42	-0.09	-0.15	-40.84	-53.15
STE85	40 14.38	76 46.27	597.0	980103.19	0.10	-0.25	-30.99	-51.51
STE86	40 14.45	76 46.57	564.0	980104.16	0.03	-0.24	-33.23	-52.67
STE87	40 14.22	76 46.85	548.0	980104.90	0.01	-0.23	-33.65	-52.57
STE88	40 14.25	76 48.30	513.0	980107.88	-0.03	-0.22	-34.01	-51.75
STE89	40 13.45	76 47.75	369.3	980115.39	-0.08	-0.16	-38.82	-51.66
STE90	40 13.72	76 48.40	545.0	980105.63	0.06	-0.23	-32.46	-51.22
STE91	40 13.28	76 49.48	314.4	980119.51	-0.07	-0.14	-39.62	-50.55
STE92	40 13.72	76 49.97	308.1	980120.79	-0.07	-0.13	-39.58	-50.29
STE93	40 14.07	76 50.42	310.7	980121.33	-0.07	-0.14	-39.32	-50.12
STE94	40 14.25	76 50.90	310.6	980122.09	-0.08	-0.14	-38.84	-49.65
STE95	40 14.07	76 51.03	314.0	980122.16	-0.09	-0.14	-38.18	-49.11
STE96	40 14.50	76 51.42	311.3	980122.80	-0.09	-0.14	-38.44	-49.28
STE97	40 14.53	76 49.73	546.0	980107.61	0.05	-0.23	-31.59	-50.39
STE98	40 14.80	76 49.55	469.0	980112.54	-0.06	-0.20	-34.31	-50.57
STE99	40 14.83	76 49.10	456.5	980112.92	-0.08	-0.20	-35.14	-50.99
STE00	40 14.68	76 49.03	498.3	980109.98	-0.05	-0.21	-33.93	-51.19
WEL 1	40 7.25	76 54.12	699.0	980086.58	0.10	-0.30	-27.42	-51.45
WEL 2	40 7.07	76 53.50	687.0	980087.22	0.08	-0.29	-27.63	-51.28
WEL 3	40 6.20	76 54.27	739.0	980089.56	0.14	-0.31	-19.11	-44.49
WEL 4	40 6.20	76 54.85	604.0	980097.57	0.11	-0.26	-23.80	-44.55
WEL 5	40 6.58	76 55.15	770.0	980087.29	0.16	-0.32	-19.03	-45.46
WEL 6	40 6.25	76 55.58	1355.0	980050.04	2.91	-0.54	-0.77	-44.62
WEL 7	40 7.22	76 55.73	862.0	980082.09	0.27	-0.36	-16.53	-46.02
WEL 8	40 7.43	76 55.88	922.0	980078.49	0.42	-0.38	-14.80	-46.21
WEL 9	40 7.45	76 59.12	512.0	980104.42	0.04	-0.22	-27.46	-45.10
WEL10	40 7.42	76 59.52	556.0	980101.86	0.01	-0.24	-25.83	-45.03
WEL11	40 6.75	76 59.48	651.0	980097.06	0.04	-0.28	-20.70	-43.14
WEL12	40 6.58	76 59.35	712.0	980093.03	0.09	-0.30	-18.75	-43.24
WEL13	40 6.07	76 58.95	681.0	980094.60	0.08	-0.29	-19.33	-42.77
WEL14	40 6.07	76 59.62	689.0	980094.13	0.07	-0.29	-19.05	-42.77
WEL15	40 5.65	76 57.57	652.0	980095.81	0.08	-0.28	-20.22	-42.66
WEL16	40 6.28	76 56.97	689.0	980091.85	0.10	-0.29	-21.64	-45.33
WEL17	40 6.90	76 57.30	861.0	980082.75	0.27	-0.36	-15.49	-44.94
WEL18	40 7.23	76 56.98	847.0	980083.71	0.25	-0.35	-16.33	-45.33
WEL19	40 7.37	76 58.22	587.0	980098.84	0.07	-0.25	-25.86	-46.06
WEL20	40 5.58	76 52.93	625.0	980094.26	0.07	-0.27	-24.21	-45.72
WEL21	40 5.22	76 53.33	642.1	980094.13	0.09	-0.27	-22.20	-44.28

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUGUER
WEL22	40 4.98	76 53.15	499.0	980102.48	-0.01	-0.21	-26.95	-44.19
WEL23	40 4.44	76 53.68	471.0	980104.69	-0.03	-0.20	-26.57	-42.87
WEL24	40 4.40	76 54.22	601.6	980098.26	0.04	-0.26	-20.67	-41.40
WEL25	40 4.82	76 54.42	487.0	980104.31	-0.01	-0.21	-26.01	-42.84
WEL26	40 4.73	76 55.78	504.9	980104.76	0.00	-0.22	-23.74	-41.17
WEL27	40 4.88	76 56.18	513.2	980103.76	0.02	-0.22	-24.19	-41.89
WEL28	40 5.12	76 56.55	608.0	980098.07	0.03	-0.26	-21.32	-42.29
WEL29	40 5.38	76 57.08	621.0	980097.58	0.05	-0.26	-20.97	-42.36
WEL30	40 5.07	76 58.43	800.0	980089.22	0.19	-0.34	-12.03	-39.46
WEL31	40 4.53	76 58.40	795.0	980090.86	0.24	-0.33	-10.06	-37.27
WEL32	40 4.62	76 57.30	751.0	980093.08	0.17	-0.32	-12.12	-37.88
WEL33	40 4.17	76 57.22	704.0	980096.87	0.12	-0.30	-12.08	-36.26
WEL34	40 4.12	76 56.80	621.0	980101.54	0.03	-0.26	-15.14	-36.56
WEL35	40 4.40	76 58.85	660.0	980097.83	0.06	-0.28	-15.60	-38.33
WEL36	40 4.63	76 59.42	582.0	980101.91	0.05	-0.25	-19.19	-39.24
WEL37	40 4.13	76 59.90	555.0	980101.99	0.00	-0.24	-20.91	-40.07
WEL38	40 3.50	76 59.38	587.0	980100.83	0.01	-0.25	-18.13	-38.39
WEL39	40 3.57	76 57.98	680.0	980097.75	0.11	-0.29	-12.57	-35.94
WEL40	40 3.17	76 58.18	613.0	980101.87	0.04	-0.26	-14.15	-35.28
WEL41	40 3.38	76 57.07	541.0	980105.32	-0.02	-0.23	-17.79	-36.49
WEL42	40 3.48	76 57.05	557.0	980104.26	-0.01	-0.24	-17.49	-36.74
WEL43	40 3.18	76 56.88	507.0	980107.26	-0.03	-0.22	-18.74	-36.28
WEL44	40 3.98	76 55.72	588.0	980101.81	0.01	-0.25	-17.76	-38.06
WEL45	40 3.92	76 55.05	508.8	980105.33	-0.03	-0.22	-21.60	-39.20
WEL46	40 4.17	76 54.52	471.0	980106.47	-0.03	-0.20	-24.39	-40.69
WEL47	40 3.30	76 54.65	550.0	980101.63	0.00	-0.24	-20.51	-39.51
WEL48	40 3.43	76 54.17	525.0	980101.19	-0.02	-0.23	-23.49	-41.65
WEL49	40 4.78	76 52.90	471.0	980102.26	-0.02	-0.20	-29.51	-45.80
WEL50	40 4.27	76 53.27	501.0	980100.73	-0.03	-0.22	-27.45	-44.79
WEL51	40 4.15	76 52.98	540.0	980095.60	0.00	-0.23	-28.74	-47.39
WEL52	40 3.78	76 53.90	472.8	980103.62	-0.04	-0.20	-26.49	-42.86
WEL53	40 1.93	76 53.73	448.0	980101.62	-0.01	-0.19	-28.07	-43.56
WEL54	40 1.78	76 52.67	671.0	980087.49	0.16	-0.28	-21.01	-44.02
WEL55	40 1.50	76 52.85	890.0	980073.52	0.91	-0.37	-13.98	-43.79
WEL56	40 0.82	76 54.03	726.0	980085.04	0.37	-0.31	-16.86	-41.56
WEL57	40 0.60	76 53.00	513.0	980098.43	-0.02	-0.22	-23.18	-40.92
WEL58	40 0.08	76 53.58	477.0	980100.45	-0.04	-0.21	-23.78	-40.29
WEL59	40 0.12	76 54.30	464.1	980101.21	-0.04	-0.20	-24.28	-40.35
WEL60	40 0.72	76 54.87	542.3	980096.26	0.03	-0.23	-22.77	-41.47
WEL61	40 1.12	76 55.05	388.0	980105.87	-0.03	-0.17	-28.27	-41.70
WEL62	40 0.95	76 55.55	375.0	980107.02	-0.04	-0.16	-28.08	-41.08
WEL63	40 0.13	76 56.10	394.0	980104.93	-0.06	-0.17	-27.17	-40.84
WEL64	40 0.47	76 57.03	427.0	980104.61	-0.06	-0.18	-24.90	-39.70
WEL65	40 0.52	76 57.82	401.0	980109.10	-0.06	-0.17	-22.92	-36.83
WEL66	40 1.25	76 58.28	452.2	980110.46	-0.06	-0.20	-17.84	-33.51
WEL67	40 1.04	76 58.48	434.2	980111.39	-0.06	-0.19	-18.28	-33.34
WEL68	40 0.72	76 59.32	430.9	980110.68	-0.06	-0.19	-18.82	-33.77
WEL69	40 1.17	76 58.97	476.0	980109.15	-0.06	-0.20	-16.79	-33.29
WEL70	40 1.32	76 59.60	435.0	980110.69	-0.06	-0.19	-19.32	-34.41
WEL71	40 1.70	76 59.93	451.0	980109.94	-0.05	-0.19	-19.14	-34.77
WEL72	40 2.11	76 59.37	506.0	980107.52	-0.04	-0.22	-16.99	-34.51
WEL73	40 2.75	76 59.58	502.0	980106.68	-0.04	-0.22	-19.16	-36.53
WEL74	40 3.17	76 59.93	581.0	980101.02	0.00	-0.25	-18.01	-38.08
WEL75	40 1.95	76 58.60	519.0	980107.18	-0.04	-0.22	-15.87	-33.84
WEL76	40 2.45	76 57.92	571.0	980104.43	0.00	-0.24	-14.47	-34.19
WEL77	40 2.73	76 57.50	553.0	980105.33	-0.02	-0.24	-15.68	-34.80
WEL78	40 2.27	76 57.02	490.9	980109.03	-0.04	-0.21	-17.14	-34.13
WEL79	40 2.58	76 56.77	481.8	980109.29	-0.04	-0.21	-18.19	-34.87
WEL80	40 1.82	76 56.85	508.2	980107.67	-0.03	-0.22	-16.20	-33.78
WEL81	40 1.62	76 56.80	521.0	980105.66	-0.02	-0.22	-16.71	-34.72
WEL82	40 2.08	76 56.43	438.0	980110.40	-0.04	-0.19	-20.47	-35.63
WEL83	40 2.43	76 56.02	503.0	980106.56	-0.03	-0.22	-18.71	-36.11
WEL84	40 2.88	76 55.83	498.0	980106.91	-0.03	-0.21	-19.50	-36.72
WEL85	40 2.77	76 55.42	542.0	980103.50	0.00	-0.23	-18.61	-37.33
WEL86	40 1.88	76 55.17	426.0	980104.96	-0.05	-0.18	-26.73	-41.50

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUGUER
WEL87	40 1.95	76 55.77	404.0	980108.56	-0.04	-0.17	-25.30	-39.30
WEL88	40 1.13	76 56.00	433.5	980104.47	-0.05	-0.19	-25.40	-40.43
WEL89	40 5.83	76 58.31	784.8	980088.47	0.14	-0.33	-15.35	-42.30
WOM 1	40 22.40	76 14.62	477.0	980101.90	-0.02	-0.21	-55.49	-71.99
WOM 2	40 20.21	76 14.65	446.9	980101.14	0.02	-0.19	-55.83	-71.24
WOM 3	40 20.00	76 14.40	472.0	980099.08	0.03	-0.20	-55.21	-71.49
WOM 4	40 16.65	76 14.45	571.0	980084.79	0.07	-0.24	-55.21	-74.86
WOM 5	40 16.02	76 14.93	625.0	980080.88	0.09	-0.27	-53.10	-74.60
WOM 6	40 15.95	76 14.25	549.0	980085.29	0.12	-0.24	-55.74	-74.58
WOM 7	40 15.17	76 14.77	547.4	980085.73	0.10	-0.23	-54.29	-73.09
WOM 8	40 15.03	76 14.25	708.0	980076.44	0.26	-0.30	-48.27	-72.46
WOM 9	40 15.02	76 12.80	478.0	980089.97	0.10	-0.21	-56.36	-72.77
WOM10	40 15.18	76 9.07	434.0	980092.49	0.03	-0.19	-58.21	-73.17
WOM11	40 15.18	76 9.58	559.0	980084.80	0.05	-0.24	-54.14	-73.40
WOM12	40 15.03	76 10.43	628.0	980080.86	0.12	-0.27	-51.37	-72.94
WOM13	40 14.98	76 10.78	654.0	980078.98	0.16	-0.28	-50.73	-73.16
WOM14	40 15.68	76 9.45	446.0	980091.80	0.05	-0.19	-58.51	-73.87
WOM15	40 15.97	76 9.47	470.0	980090.19	0.04	-0.20	-58.29	-74.49
WOM16	40 16.33	76 9.37	446.0	980091.01	0.07	-0.19	-60.27	-75.60
WOM17	40 16.37	76 9.12	495.0	980088.20	0.05	-0.21	-58.54	-75.58
WOM18	40 16.25	76 8.38	505.0	980088.89	0.04	-0.22	-56.73	-74.13
WOM19	40 15.87	76 8.62	532.0	980086.66	0.03	-0.23	-55.85	-74.19
WOM20	40 15.82	76 8.42	461.0	980090.72	0.03	-0.20	-58.40	-74.29
WOM21	40 18.40	76 14.73	548.0	980092.33	0.06	-0.23	-52.44	-71.30
WOM22	40 17.77	76 14.57	584.0	980087.96	0.05	-0.25	-52.49	-72.61
WOM23	40 18.12	76 14.10	651.0	980085.96	0.11	-0.28	-48.71	-71.08
WOM24	40 18.08	76 13.78	673.0	980084.31	0.15	-0.29	-48.22	-71.31
WOM25	40 18.10	76 13.40	700.0	980081.44	0.21	-0.30	-48.59	-72.55
WOM26	40 17.50	76 13.03	631.0	980083.18	0.14	-0.27	-52.45	-74.10
WOM27	40 17.57	76 13.33	606.1	980084.54	0.12	-0.26	-53.53	-74.34
WOM28	40 17.65	76 13.70	595.0	980085.73	0.10	-0.25	-53.50	-73.95
WOM29	40 17.20	76 14.12	556.0	980086.12	0.07	-0.24	-56.11	-75.24
WOM30	40 16.85	76 13.58	550.0	980085.68	0.08	-0.24	-56.59	-75.51
WOM31	40 16.48	76 12.83	571.0	980084.08	0.09	-0.24	-55.67	-75.30
WOM32	40 16.53	76 12.45	554.0	980084.93	0.09	-0.24	-56.49	-75.53
WOM33	40 16.68	76 12.47	517.0	980086.97	0.11	-0.22	-58.16	-75.90
WOM34	40 16.73	76 13.07	542.0	980086.07	0.09	-0.23	-56.77	-75.40
WOM35	40 17.42	76 12.70	577.0	980086.33	0.16	-0.25	-54.25	-74.01
WOM36	40 17.32	76 12.23	550.7	980087.64	0.17	-0.24	-55.26	-74.11
WOM37	40 17.78	76 12.07	642.0	980085.65	0.29	-0.27	-49.35	-71.23
WOM38	40 17.79	76 11.65	693.0	980082.22	0.30	-0.29	-48.00	-71.63
WOM39	40 18.25	76 11.33	1098.5	980059.48	0.99	-0.45	-33.29	-70.21
WOM40	40 18.62	76 10.98	1130.0	980059.63	0.92	-0.46	-30.73	-68.81
WOM41	40 17.12	76 10.82	519.0	980088.98	0.16	-0.22	-56.61	-74.37
WOM42	40 17.00	76 11.27	506.7	980089.11	0.14	-0.22	-57.45	-74.81
WOM43	40 16.83	76 11.07	487.0	980089.70	0.12	-0.21	-58.47	-75.17
WOM44	40 16.32	76 11.37	472.0	980089.82	0.11	-0.20	-59.00	-75.19
WOM45	40 16.58	76 10.22	452.0	980091.26	0.10	-0.19	-59.83	-75.34
WOM46	40 17.12	76 9.92	506.4	980089.72	0.16	-0.22	-57.05	-74.38
WOM47	40 16.92	76 9.10	481.0	980090.58	0.12	-0.21	-58.29	-74.78
WOM48	40 16.53	76 8.22	536.5	980087.59	0.06	-0.23	-55.48	-73.95
WOM49	40 16.90	76 7.68	538.0	980088.03	0.11	-0.23	-55.44	-73.91
WOM50	40 17.67	76 7.55	717.0	980081.29	0.25	-0.30	-46.49	-71.00
WOM51	40 17.45	76 8.92	534.0	980090.87	0.23	-0.23	-53.80	-72.01
WOM52	40 19.02	76 9.02	1154.0	980058.07	1.02	-0.47	-30.63	-69.44
WOM53	40 19.12	76 8.82	1169.0	980057.51	1.12	-0.48	-29.93	-69.15
WOM54	40 19.33	76 8.58	1075.0	980063.43	0.85	-0.44	-33.15	-69.41
WOM55	40 19.73	76 8.27	988.0	980068.44	0.77	-0.41	-36.92	-70.26
WOM56	40 19.75	76 7.95	954.0	980070.76	0.74	-0.40	-37.83	-70.03
WOM57	40 22.23	76 11.37	380.0	980107.04	0.02	-0.16	-59.22	-72.33
WOM58	40 22.43	76 11.80	371.0	980107.81	0.00	-0.16	-59.59	-72.41
WOM59	40 21.78	76 10.97	383.0	980105.97	0.11	-0.17	-59.34	-72.46
WOM60	40 21.55	76 11.03	406.3	980104.65	0.16	-0.18	-58.13	-72.00
WOM61	40 21.27	76 10.75	452.2	980100.75	0.26	-0.20	-57.30	-72.65
WOM62	40 21.35	76 10.02	469.5	980099.45	0.18	-0.20	-57.09	-73.12

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUQUER
WOM63	40 21.28	76 8.97	458.5	980101.01	0.12	-0.20	-56.45	-72.17
WOM64	40 21.75	76 8.97	517.0	980098.20	0.05	-0.22	-54.47	-72.27
WOM65	40 22.38	76 9.75	444.0	980104.62	0.00	-0.19	-55.85	-71.19
WOM66	40 22.30	76 9.17	414.0	980106.01	0.01	-0.18	-57.17	-71.46
WOM67	40 22.47	76 8.25	486.0	980101.54	0.00	-0.21	-55.12	-71.90
WOM68	40 22.37	76 8.00	459.7	980103.11	-0.01	-0.20	-55.87	-71.76
WOM69	40 21.88	76 8.45	536.4	980096.94	0.06	-0.23	-54.10	-72.56
WOM70	40 21.30	76 8.58	423.6	980102.97	0.11	-0.18	-57.81	-72.33
WOM71	40 21.05	76 8.39	442.1	980101.57	0.14	-0.19	-57.11	-72.24
WOM72	40 20.88	76 8.07	436.2	980101.81	0.15	-0.19	-57.16	-72.07
WOM73	40 20.63	76 8.58	501.0	980097.90	0.22	-0.22	-54.61	-71.69
WOM74	40 20.37	76 9.88	761.3	980080.90	0.32	-0.32	-46.73	-72.70
WOM75	40 20.02	76 9.50	965.0	980069.40	0.61	-0.40	-38.56	-71.26
WOM76	40 19.50	76 10.38	1030.0	980066.29	0.60	-0.42	-34.78	-69.73
WOM77	40 19.83	76 11.08	1094.0	980062.72	0.88	-0.45	-32.82	-69.70
WOM78	40 20.17	76 10.82	1069.0	980063.75	0.92	-0.44	-34.66	-70.64
WOM79	40 20.07	76 11.37	955.0	980069.97	0.64	-0.40	-39.00	-71.33
WOM80	40 20.52	76 12.25	566.0	980091.39	0.26	-0.24	-54.84	-74.13
WOM81	40 21.25	76 11.62	470.7	980099.61	0.16	-0.20	-56.67	-72.77
WOM82	40 21.35	76 12.45	482.6	980100.07	0.06	-0.21	-55.24	-71.85
WOM83	40 21.48	76 13.50	457.5	980101.89	0.00	-0.20	-55.96	-71.77
WOM84	40 21.65	76 14.63	474.7	980101.05	-0.02	-0.20	-55.44	-71.86
WOM85	40 19.37	76 14.42	486.9	980096.79	0.06	-0.21	-55.17	-71.92
WOM86	40 18.87	76 13.70	552.0	980091.14	0.19	-0.24	-53.94	-72.82
WOM87	40 18.96	76 13.78	531.0	980092.99	0.18	-0.23	-54.21	-72.37
WOM88	40 19.18	76 13.70	529.0	980093.33	0.18	-0.23	-54.38	-72.47
WOM89	40 19.50	76 13.58	525.0	980093.59	0.16	-0.23	-54.97	-72.94
WOM90	40 20.07	76 13.23	501.0	980095.57	0.16	-0.22	-56.10	-73.24
WOM91	40 20.27	76 12.78	503.0	980094.01	0.23	-0.22	-57.77	-74.91
WOM92	40 20.37	76 12.55	519.0	980094.22	0.25	-0.22	-56.20	-73.88
WOM93	40 20.57	76 13.03	463.0	980098.58	0.12	-0.20	-57.41	-73.28
WOM94	40 21.00	76 13.68	420.0	980103.68	0.04	-0.18	-56.99	-71.46
WOM95	40 20.68	76 13.87	454.0	980101.04	0.03	-0.20	-55.96	-71.61
WOM96	40 20.48	76 13.67	503.0	980097.43	0.05	-0.22	-54.66	-71.98
WOM97	40 20.37	76 13.48	459.0	980098.87	0.09	-0.20	-57.20	-72.96
YHV 1	40 7.25	76 44.60	477.0	980100.19	0.01	-0.21	-34.69	-51.15
YHV 2	40 7.17	76 44.63	473.0	980099.80	0.01	-0.20	-35.33	-51.65
YHV 3	40 7.37	76 44.17	312.7	980110.28	-0.07	-0.14	-40.22	-51.09
YHV 4	40 6.95	76 44.20	460.2	980100.41	-0.01	-0.20	-35.60	-51.50
YHV 5	40 6.60	76 44.63	356.0	980103.18	-0.07	-0.15	-42.11	-54.47
YHV 6	40 6.35	76 44.52	292.0	980106.35	-0.05	-0.13	-44.58	-54.72
YHV 7	40 4.73	76 44.53	371.0	980101.71	-0.07	-0.16	-39.38	-52.27
YHV 8	40 4.75	76 43.73	387.0	980100.37	-0.06	-0.17	-39.25	-52.68
YHV 9	40 5.23	76 43.65	287.0	980105.65	-0.06	-0.13	-44.09	-54.07
YHV10	40 5.62	76 42.97	388.2	980099.26	-0.06	-0.17	-41.55	-55.02
YHV11	40 5.45	76 43.30	369.0	980100.79	-0.07	-0.16	-41.56	-54.37
YHV12	40 5.80	76 43.33	456.5	980095.92	0.00	-0.20	-38.73	-54.50
YHV13	40 6.03	76 43.23	489.0	980093.76	0.06	-0.21	-38.17	-55.00
YHV14	40 6.48	76 43.15	408.0	980099.95	-0.05	-0.18	-40.27	-54.41
YHV15	40 6.60	76 42.82	334.4	980102.16	-0.08	-0.15	-45.16	-56.79
YHV16	40 6.03	76 42.25	283.4	980104.41	-0.07	-0.12	-46.86	-56.72
YHV17	40 5.20	76 41.75	263.6	980107.68	-0.05	-0.12	-44.22	-53.38
YHV18	40 4.63	76 41.10	263.0	980110.79	-0.02	-0.12	-40.31	-49.42
YHV19	40 3.98	76 40.22	274.4	980111.69	0.01	-0.12	-37.38	-46.85
YHV20	40 3.68	76 40.80	433.0	980101.61	-0.01	-0.19	-32.09	-47.06
YHV21	40 3.82	76 41.25	383.0	980105.43	-0.02	-0.17	-33.19	-46.44
YHV22	40 4.13	76 40.97	356.0	980107.47	-0.03	-0.15	-34.14	-46.47
YHV23	40 4.23	76 42.12	342.0	980106.01	-0.04	-0.15	-37.07	-48.92
YHV24	40 4.44	76 42.05	316.0	980106.86	-0.04	-0.14	-38.98	-49.94
YHV25	40 4.92	76 42.07	411.0	980099.78	-0.04	-0.18	-37.84	-52.08
YHV26	40 4.71	76 42.33	456.0	980097.23	0.00	-0.20	-35.85	-51.60
YHV27	40 4.27	76 42.70	467.0	980097.67	-0.01	-0.20	-33.71	-49.85
YHV28	40 4.19	76 43.17	449.0	980098.14	-0.03	-0.19	-34.82	-50.36
YHV29	40 3.85	76 43.23	466.0	980098.09	-0.02	-0.20	-32.76	-48.88
YHV30	40 3.55	76 43.28	491.0	980097.47	-0.01	-0.21	-30.59	-47.56

GETTYSBURG BASIN GRAVITY

STATION ID	LOCATIONS			OBSERVED GRAVITY (mgals)	CORRECTIONS		ANOMALIES	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN (dens=2.67)	CURV	FREE AIR	COMPLETE BOUQUER
YHV31	40 3.95	76 44.00	448.0	980097.90	-0.03	-0.19	-34.80	-50.30
YHV32	40 3.82	76 44.52	404.0	980100.58	-0.05	-0.17	-36.06	-50.06
YHV33	40 3.60	76 44.80	360.0	980103.36	-0.05	-0.16	-37.09	-49.58
YHV34	40 3.45	76 44.40	443.2	980099.22	-0.04	-0.19	-33.18	-48.53
YHV35	40 2.73	76 43.45	503.0	980098.90	-0.02	-0.22	-26.81	-44.20
YHV36	40 2.43	76 43.52	464.0	980101.69	-0.03	-0.20	-27.24	-43.30
YHV37	40 1.80	76 43.68	413.3	980105.61	-0.03	-0.18	-27.16	-41.46
YHV38	40 2.48	76 44.13	534.0	980096.59	0.02	-0.23	-25.84	-44.26
YHV39	40 2.03	76 44.45	522.0	980098.19	0.01	-0.22	-24.69	-42.71
YHV40	40 1.63	76 44.70	525.6	980099.03	0.01	-0.23	-22.92	-41.07
YHV41	40 0.93	76 44.52	440.9	980106.57	-0.04	-0.19	-22.31	-37.57
YHV42	40 0.85	76 43.85	371.5	980111.28	-0.03	-0.16	-24.01	-36.87
YHV43	40 0.38	76 44.32	435.3	980108.70	-0.04	-0.19	-19.89	-34.97
YHV44	40 0.80	76 43.52	415.0	980108.90	-0.04	-0.18	-22.23	-36.60
YHV45	40 0.65	76 42.90	357.0	980112.69	0.00	-0.16	-23.67	-36.00
YHV46	40 0.42	76 43.25	382.0	980111.20	-0.03	-0.17	-22.46	-35.69
YHV47	40 0.15	76 43.02	452.0	980108.05	-0.02	-0.19	-18.63	-34.26
YHV48	40 0.68	76 42.12	374.0	980110.12	0.05	-0.16	-24.68	-37.55
YHV49	40 0.18	76 42.23	545.0	980102.51	0.06	-0.23	-15.47	-34.23
YHV50	40 0.33	76 41.58	580.0	980100.25	0.08	-0.25	-14.66	-34.61
YHV51	40 0.12	76 41.02	761.0	980091.51	0.39	-0.32	-6.06	-31.95
YHV52	40 0.60	76 40.84	579.0	980099.98	0.09	-0.25	-15.42	-35.32
YHV53	40 0.85	76 40.03	567.0	980100.40	0.08	-0.24	-16.50	-36.00
YHV54	40 1.08	76 39.25	561.0	980100.53	0.13	-0.24	-17.28	-36.53
YHV55	40 1.38	76 38.09	675.0	980091.79	0.17	-0.29	-15.74	-38.88
YHV56	40 1.65	76 37.75	786.0	980084.28	0.36	-0.33	-13.21	-39.99
YHV57	40 1.12	76 37.53	654.0	980093.40	0.18	-0.28	-15.72	-38.12
YHV58	40 0.88	76 37.84	654.0	980095.37	0.18	-0.28	-13.39	-35.80
YHV59	40 0.48	76 37.90	531.0	980107.47	0.10	-0.23	-12.27	-30.51
YHV60	40 0.38	76 38.38	594.0	980103.66	0.13	-0.25	-10.01	-30.39
YHV61	40 0.27	76 38.97	614.0	980102.23	0.14	-0.26	-9.39	-30.46
YHV62	40 1.65	76 39.38	597.0	980096.05	0.11	-0.25	-19.22	-39.73
YHV63	40 2.08	76 39.38	467.0	980102.29	0.08	-0.20	-25.85	-41.90
YHV64	40 1.53	76 39.98	500.0	980102.20	0.05	-0.21	-22.01	-39.23
YHV65	40 1.03	76 40.47	556.0	980100.11	0.07	-0.24	-18.10	-37.23
YHV66	40 0.48	76 41.23	559.0	980101.19	0.07	-0.24	-15.92	-35.16
YHV67	40 0.75	76 41.57	380.0	980110.01	0.09	-0.16	-24.33	-37.37
YHV68	40 1.16	76 41.70	348.5	980110.82	0.07	-0.15	-27.09	-39.06
YHV69	40 1.57	76 41.68	377.0	980107.58	0.02	-0.16	-28.26	-41.26
YHV70	40 1.83	76 41.72	454.0	980101.87	-0.01	-0.20	-27.11	-42.81
YHV71	40 2.03	76 41.77	501.0	980098.97	0.00	-0.22	-25.89	-43.20
YHV72	40 2.42	76 41.57	600.0	980093.76	0.09	-0.26	-22.37	-43.00
YHV73	40 2.18	76 41.97	644.0	980090.97	0.18	-0.27	-20.67	-42.73
YHV74	40 1.95	76 42.70	586.0	980095.01	0.09	-0.25	-21.74	-41.88
YHV75	40 1.82	76 43.17	522.0	980099.25	0.01	-0.22	-23.32	-41.34
YHV76	40 2.65	76 41.43	590.0	980094.76	0.08	-0.25	-22.65	-42.95
YHV77	40 3.13	76 41.60	577.0	980095.04	0.07	-0.25	-24.30	-44.16
YHV78	40 3.47	76 41.75	476.0	980100.02	-0.01	-0.20	-29.33	-45.78
YHV79	40 2.88	76 41.33	588.0	980094.69	0.08	-0.25	-23.26	-43.48
YHV80	40 2.93	76 41.13	590.0	980094.96	0.10	-0.25	-22.87	-43.14
YHV81	40 2.48	76 40.88	613.0	980092.99	0.14	-0.26	-22.00	-43.03
YHV82	40 2.11	76 41.15	517.0	980098.61	0.01	-0.22	-24.86	-42.71
YHV83	40 2.02	76 40.47	584.0	980094.41	0.10	-0.25	-22.63	-42.70
YHV84	40 2.23	76 40.62	631.0	980091.94	0.18	-0.27	-20.99	-42.60
YHV85	40 3.17	76 40.02	516.0	980098.79	0.06	-0.22	-26.35	-44.11
YHV86	40 3.05	76 38.37	469.0	980100.94	0.10	-0.20	-28.45	-44.55
YHV87	40 3.12	76 39.27	275.4	980112.51	0.14	-0.12	-35.19	-44.56
YHV88	40 3.43	76 39.13	297.7	980111.22	0.05	-0.13	-34.84	-45.07
YHV89	40 4.05	76 38.05	277.3	980112.87	0.00	-0.12	-36.03	-45.61
YHV90	40 4.25	76 37.75	337.0	980109.12	-0.04	-0.15	-34.46	-46.14
YHV91	40 4.44	76 38.33	354.0	980107.79	-0.05	-0.15	-34.47	-46.75
YHV92	40 4.80	76 38.50	389.0	980104.76	-0.04	-0.17	-34.75	-48.23
YHV93	40 4.67	76 39.00	375.0	980105.69	-0.05	-0.16	-34.94	-47.95
YHV94	40 4.27	76 38.87	280.7	980112.26	-0.03	-0.12	-36.65	-46.37
YHV95	40 4.75	76 39.72	277.2	980110.64	-0.05	-0.12	-39.31	-48.94

GETTYSBURG BASIN GRAVITY

STATION ID	-----LOCATIONS-----			OBSERVED GRAVITY (mgals)	-CORRECTIONS-		---ANOMALIES---	
	LATITUDE deg min	LONGITUDE deg min	ELEV (in ft)		TERRAIN	CURV (dens=2.67)	FREE AIR	COMPLETE BOUGUER
YHV96	40 5.35	76 40.23	273.9	980108.40	-0.06	-0.12	-42.75	-52.27
YHV97	40 5.65	76 39.59	334.0	980103.55	-0.07	-0.15	-42.39	-54.00
YHV98	40 5.58	76 38.87	346.0	980104.53	-0.07	-0.15	-40.18	-52.20
YHV99	40 5.32	76 38.40	350.0	980105.39	-0.07	-0.15	-38.56	-50.72
YHV00	40 6.22	76 38.34	384.0	980100.51	-0.07	-0.17	-41.58	-54.92
YOH01	40 6.50	76 38.50	452.0	980095.70	-0.03	-0.19	-40.41	-56.05
YOH02	40 6.10	76 38.98	417.0	980097.98	-0.05	-0.18	-40.83	-55.28
YOH03	40 6.92	76 38.80	473.0	980092.76	-0.02	-0.20	-42.00	-58.35
YOH04	40 7.30	76 38.16	383.0	980097.72	-0.05	-0.17	-46.07	-59.35
YOH05	40 7.15	76 39.07	470.0	980092.14	-0.03	-0.20	-43.25	-59.51
YOH06	40 7.20	76 40.03	472.0	980092.05	-0.02	-0.20	-43.22	-59.54
YOH07	40 6.92	76 39.87	450.0	980093.66	-0.04	-0.19	-43.26	-58.84
YOH08	40 6.50	76 39.45	459.0	980094.23	-0.02	-0.20	-41.22	-57.10
YOH09	40 6.05	76 40.48	322.0	980102.77	-0.07	-0.14	-44.90	-56.09
YOH10	40 6.50	76 41.15	279.0	980104.17	-0.06	-0.12	-48.21	-57.91
YOH11	40 6.80	76 41.32	322.0	980101.56	-0.07	-0.14	-47.22	-58.42
YOH12	40 7.03	76 41.98	283.0	980104.76	-0.06	-0.12	-48.03	-57.87