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Gravity survey in part of the Snake River Plain, Idaho --

A preliminary report

by

Harry L. Baldwin, Jr. and David P. Hill

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Abstract

During the early summer of 1959, a total of 1,187 gravity stations were occupied on the western part of the Snake River plain in Idaho. An area ~~[including]~~ of 2,000 square miles ~~[of the plain]~~ extending from Glenns Ferry, Idaho, to Caldwell, Idaho, was covered with a station density of one station per two square miles. An additional 1,200 square miles of surrounding area, mainly from Caldwell, Idaho, to the Oregon-Idaho state line, was covered with a density of one station per seven square miles. The mean reproducibility of the observed gravities of these stations was 0.05 milligal, with a maximum discrepancy of 0.2 milligal. Gravity data were reduced to simple Bouguer values using a combined free-air and Bouguer correction of 0.06 milligal per foot.

The only anomalies found with closure in excess of 10 milligals are two elongated highs, orientated northwest-southeast, with the northwestern high offset to the northeast by 10 miles. The smaller of these highs extends from Meridian, Idaho, to Nyssa, Oregon, and the larger extends from Swan Falls, Idaho, to Glenns Ferry, Idaho. The maximum value recorded is a simple Bouguer value of -66.5 milligals with respect to the International Ellipsoid. Gradients on the sides of these highs are largest on the northeast sides, reaching six milligals per mile in places. Graticule interpretations of a profile across the southeastern high using a density contrast of 0.3 gm per cm^3 indicate an accumulation of lava reaching a thickness of at least 20,000 feet.

Introduction

The Snake River investigation was made for the purpose of searching out, defining, and interpreting gravity anomalies present on the western part of the Snake River lava plain in Idaho. In particular, it was desired to further define gradients associated with the gravity high shown by the regional work of Bonini and Lavin (1957). It was not planned to cover any specific area, but rather to let the observed anomalies determine the course of the field work.

The study was undertaken as part of a project on Volcanism and Crustal Deformation, supervised by L. C. Pakiser of the U. S. Geological Survey. Professor Rodgers of the Geophysics Department of the Colorado School of Mines acted as advisor.

The part of the Snake River plain with which we are concerned is a large, relatively flat, basalt-capped plateau, varying in width from 40 to 100 miles, which extends both north and south of the Snake River. The area covered by the survey extends from lat. 42°30'N. to 44°00'N. and from long. 115°15'W. to 117°00'W. The Snake River plain in this region is bounded on the northeast and southwest by highlands of granite and silicic volcanic rocks. The Snake River and its main tributary in the region, the Bruneau River, have cut canyons in the basalt which reach depths of 700 feet. Altitudes in the region range from about 2,200 feet above mean sea level near the Snake River to over 4,000 feet above mean sea level near the borders.

The exposed rocks of the area are predominantly Tertiary and Quaternary basaltic and clastic rocks. A thin cover of Quaternary alluvium hides the lava in places. In general, soil is thin or absent. In the northwest part of the plain, clastic deposits form a substantial part of the geologic section. Exposures in the Snake River canyon show that interbedded layers of sedimentary rocks and basalt extend down at least 700 feet below the top of the plateau. Information from isolated wells drilled in the area indicates that basalt is scarce to a depth of at least 1,175 feet below sea level between Bruneau and Glenns Ferry (Youngquist and Kiilsgaard, 1951) and to a depth of at least 1,839 feet below sea level at Ontario.

Field observations and data reduction

The field work was done between May 25 and July 31, 1959, during which time a total of 1,187 stations were occupied. Of these, about 200 were occupied more than once in order to check on the accuracy of the survey. The 2,000 square-mile area extending from Glenns Ferry, Idaho, to Caldwell, Idaho had a station density of one station per two square miles. Another 1,200 square miles of surrounding area, mainly from Caldwell, Idaho, to the Oregon-Idaho state line, was covered with a density of one station per seven square miles.

Horizontal and vertical control was obtained mainly from U.S. Geological Survey quadrangle maps. Most of the survey was done over terrain covered by maps of scale 1:24,000; however, the control for about 80 stations was taken from 1:62,500 maps. Locations and altitudes of 17 stations were obtained from Army Map Service charts.

The entire survey was done with Worden gravity meter No. 388 having a scale constant of 0.5328(1) milligal per dial division. This meter could be read to the nearest 1/10 dial division. The survey was tied in with the absolute gravity by initially placing a series of base stations near Boise, Idaho, and obtaining their observed gravities relative to the value at the Boise airport as determined by Woollard (1958). Later in the survey, other bases were established relative to these secondary bases.

Loops ranged in time duration from two to five hours, with the average loop lasting about four hours and including about 12 stations. At least one station within a loop would be repeated for the purpose of checking instrument drift, and, in addition, a station from an adjacent loop would be reoccupied to keep a check on the accuracy of the observed gravities. This procedure was followed in all but three or four loops where time or terrain considerations hindered repeats.

The following information was recorded at each station:

1. Instrument reading
2. Time
3. Elevation
4. Latitude and longitude
5. Location description
6. Remarks

Baldwin and Hill each operated the instrument on alternate loops -- the one not operating the instrument recorded the first three of the above listed items. Mrs. Baldwin, who accompanied the field party, recorded the last three of the listed items. Latitudes to the nearest half-second (except of stations located by the A.M.S. charts where the accuracy was within two seconds) and longitudes to the nearest three seconds were scaled from available maps. The location description included such items as type of spot elevation (such as bench mark, section corner, road intersection, etc.) section, township, and range in which the elevation appears, and a brief description of exact location so the station could be reoccupied if necessary. Information that would aid in terrain corrections or later interpretations was recorded under remarks.

Drift curves were prepared at the end of each day. Drift was considered linear with time between base station readings made at the beginning and completion of each loop, unless repeat readings in the loop indicated otherwise. A drift curve was never altered without supplementary information from repeated stations. The drift curve was divided into segments, each of which was assigned a base-station value to the nearest 1/10 dial division. Each time a base station was occupied at least two readings were taken in order to insure an accurate reading. If the first two readings were not the same, the instrument was reread until a duplication was obtained, and this was the value recorded.

Instrument drift seldom exceeded 0.1 milligal per hour. The usual pattern was for the instrument to drift down at the rate of about 0.07 milligal per hour until the hottest time of day (about 4:00 p.m.) and then to level off or even to rise slightly until sunset. Drift was small or absent on overcast days.

A combined free air and simple Bouguer correction of 0.06 milligal per foot was applied to each observed gravity where a station elevation was available. This corresponds to a density of 2.67 grams per cubic centimeter.* Datum elevation was mean sea level.

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* The fact that the density is given to the nearest 0.01 gm per cm^3 does not mean that we claim this accurate a knowledge of the density. It means only that this density is the one which leads to the convenient value of 0.06 milligal per foot for the elevation factor. The density of an average crustal section above mean sea level, however, is close to 2.67 gm per cm^3.

No terrain corrections were applied to the data. Most of the area covered by the survey is relatively flat, and it was estimated that terrain corrections out to zone M of the Hammer chart (Hammer, 1939) would not amount to more than about two milligals. In the mountainous regions, the terrain corrections might be as much as five milligals, but even this amount is negligible compared with the size of the larger anomalies found. Closely spaced stations would have about the same terrain correction, and so no distortion of the anomalies would result from neglecting the terrain effect.

Latitude corrections were taken from graphs which plotted the correction against the latitude. Information for constructing these graphs was obtained from "Values of Theoretical Gravity on the International Ellipsoid" in Nettleton (1940, p. 139-143).

All gravity values were carried to 0.01 milligal within the survey. After correction for elevation and latitude, the simple Bouguer values were rounded off to the nearest 0.1 milligal. Station number, latitude and longitude, elevation, observed gravity, and Bouguer gravity are compiled in Table 1.

Accuracy

The accuracy of each simple Bouguer value depends on the accuracy of the following:

1. Woollard's value for the Boise airport station
2. Observed gravity
3. Station elevation
4. Latitude correction

1. Woollard's value for the Boise airport station: The observed gravities of the stations in Woollard's loops are accurate to within about 0.2 milligal (Woollard, 1958).

2. Observed gravity: Checks on the accuracy of the observed gravities of about 200 stations were made by a system of repeats and ties. Repeats are defined as readings at stations that were occupied twice and whose observed gravities were computed in reference to the same base station for both cases. Ties refer to readings at stations whose observed gravities were computed twice from two different bases. To be classified as a repeat it was not necessary that a station be read twice during the same loop -- only that the two values be determined from the same base. It follows that if the observed gravities of a repeated station differ, they will do so by integral multiples of 1/10 dial division (0.053 milligal). Since the gravity values within the survey were carried to 0.01 milligal, ties may differ by integral multiples of this figure.

There would be a difference, in terms of accuracy, between a repeat reading within a loop and one from a previous loop, if the repeat reading within the loop were used to adjust the drift curve. If this adjustment were made, the difference between the repeat readings would be zero by construction. Because of the short time duration of most of the loops and the observed linearity of the drift, only one drift curve was adjusted in this manner. This loop lasted until about 6:00 p.m., and previous experience had shown that the normal downward drift of the instrument stopped at about 4:00 p.m. and leveled off. This repeat was not counted in the totals.

A total of 171 repeats and 108 ties were recorded during the survey. Graph A (fig. 1) shows the number of repeats that differ from the original

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Figure 1. Differences in repeat and tie measurements.

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reading at a station by integral multiples of 1/10 scale constant. Graph C shows the number of ties that differ from the original reading at a station by integral multiples of 0.01 milligal. Only absolute values of the differences have been recorded. Assuming that the sign of the discrepancy between readings is as often positive as negative, the distribution curve for repeats would likely be as shown on Graph B. A continuous distribution would probably be shown by a curve such as is drawn in Graph B, where the area beneath the curve is equal to the sum of the areas of the rectangles. The mean precision (that is repeatibility) of the readings is the value of the difference such that one half of all differences are greater than this value and one half are less, the signs of the differences being ignored. If this value be designated by ε, then

$$\int_{-\varepsilon}^{\varepsilon} f(x)\,dx = \frac{1}{2}\int_{-\infty}^{\infty} f(x)\,dx$$

where f (x) is the continuous distribution curve. The discrepancy between the value of ε for repeats and the value of ε for ties is believed due to the small size of the statistical sample from which these values were derived.

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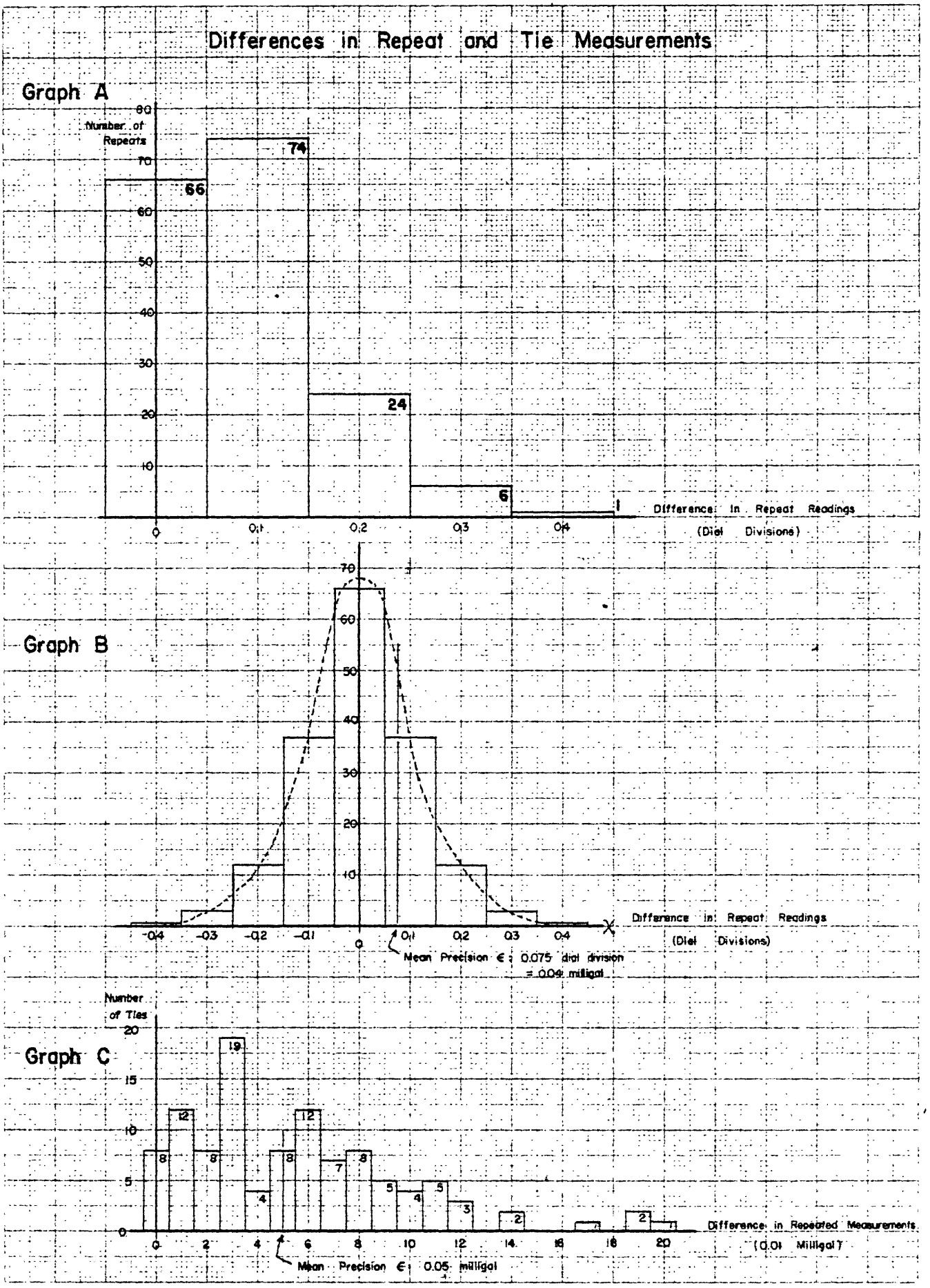
Figure 1



The mean error, that is, the mean difference from the true value, of the readings is slightly less than the precision. This is intuitively evident when one considers that a large difference between two readings at the same station does not mean that one reading is in error by the amount of the difference. It is more likely that one reading was too high and the other too low. In the same manner, if two readings at a given station do not differ, it does not necessarily mean that both readings are accurate. It means that they are either both accurate (to within the reading limit of the instrument) or that they are both in error by the same amount. A third possibility is that the measured difference is caused by both readings being in error in the same direction, but by different amounts.

3. Station elevation: Elevations from the U.S. Geological Survey quadrangle maps are generally accurate to within three or four feet. A few spot elevations determined photogrammetrically by the Geological Survey were used. These elevations are believed accurate to within six or eight feet. Spot elevations marked on the 1:250,000 maps are accurate to within five feet. At times the exact location of a spot elevation was uncertain. In areas where the station density was not too great, a few stations whose elevations were known to within 10 feet were used. No elevation with a possible inaccuracy of over 10 feet was ever used. An error of 10 feet in elevation would correspond to 0.6 milligal error in elevation correction. In general, the error in the observed gravity due to an error in station elevation is believed to be less than 0.2 milligal.

4. Latitude correction: The latitude corrections were taken from the values of theoretical gravity on the International Ellipsoid as given in the table in Nettleton (1940). These values were plotted on a graph of such a scale that the latitudes could be read to the nearest half-second, and the corrections to the nearest 0.02 milligal. The change of theoretical gravity with latitude in the vicinity of the survey is about 0.03 milligal per second. Because latitudes were read with a maximum error of 2 seconds, the maximum error in latitude correction is about 0.06 milligal. The mean error is believed to be about 0.02 milligal.

Taking into account all the factors that contribute to the simple Bouguer values and analyzing their accuracy, we have the following results:

	Probable error (mgal)	Maximum error (mgal)
Woollard's Boise value	0.1 ?	0.2
Observed gravity	0.03	0.12
Elevation (times 0.06 mgal/ft)	0.2	0.6
Latitude correction	0.02	0.06

The largest possible error in simple Bouguer gravity from all sources is about 1 milligal.

Description of Anomalies and Qualitative Interpretation

Major features

The most conspicuous features on the gravity contour map of the western part of the Snake River plain (fig. 2) are two elongate positive

Figure 2. Simple Bouguer anomalies, Snake River plain, Idaho.

anomalies trending northwest-southeast. The axes of these features are not co-linear -- the westerly high is offset 10 miles northeast from the axis of the southeastern one.

The southeastern high is the larger of the two in both magnitude and areal extent. Its axis can be traced from Glenns Ferry, Idaho, westward to Hammett, Idaho, and thence northwest to a point about 10 miles south of Nampa, Idaho, a total distance of about 80 miles. Its peak gravity is a simple Bouguer value of -66.5 milligals with respect to the International Ellipsoid. This maximum value occurs about midway along the axis. The gradient is steepest along the northeast side, where the gravity drops 50 milligals in 8 miles. On the southwest, the gradient averages about 50 milligals in 12 miles. The total drop in gravity from the peak to the surrounding area is over 65 milligals.

The axis of the northwestern high can be traced from a point 3 miles south of Meridian, Idaho, northwestward to about 3 miles east of Nyssa, Oregon, a distance of about 4[illegible] miles. Its peak recorded value, with respect to the International Ellipsoid, is -79.2 milligals, which occurs at about the middle of the northern half of the axis. The gradient on the western part of the southern end is the steepest on the anomaly reaching 30 milligals in 5 miles. The total drop in gravity from the peak to the surrounding area is over 50 milligals.

The most plausible explanation for the existence of these two large anomalies is that they are caused by thick accumulations of heavy rocks. Lava veneers part of the surveyed area. Large areas of granite to the northeast and southwest correspond with gravity lows.

Minor features

Aside from the two highs described above, no features -- either highs or lows -- having closures in excess of 10 milligals were defined in the survey. The smaller anomalies are confined mainly to parts of the area where the surface rocks are distributed irregularly and the terrain is uneven.

In the Montour 15' quadrangle (lat. 43°45'N. to 44°00'N., long. 116°15'W. to 116°30'W.), many minor features were found. A general drop in gravity readings was found from the west to the east in the Montour quadrangle. The -120 milligal contour gives the approximate shape of this change. The direction of this contour changes from southeast to southwest as the contour passes southward through the quadrangle. A possible reason for the presence of this gradient is that the Columbia River basalts wedge out on the Idaho Batholith. On either side of this gradient are found lows of about six milligals each that correspond closely to outcrops of sedimentary deposits.

The eastern part of the Montour quadrangle and the region to the north of Boise contain several minor features. Because of the small number of stations in this area, little credence should be given to the shapes of these small anomalies as they are drawn on the map. Two of these are "one-point" anomalies, and further work should be done in the area before interpretations are attempted.

A small feature of interest appears in a valley north of Boise. This is a high with closure slightly in excess of 6 milligals and with gradients on its sides as steep as 6 milligals per mile. The valley is probably filled with basalt since outcrops of this rock are found along the valley sides. It is possible that an accumulation of lava in this valley, in contrast with the possibly granitic cores of the mountains bordering the valley, may give rise to the anomaly.

Another type of minor feature was found repeatedly. Scattered over the plain between Boise and Mountain Home are numerous small hills, locally called "buttes," varying in height from 50 to about 300 feet. It was found that readings taken on the tops of these hills, after corrections, invariably differed from the trend in the region by as much as -4 milligals. The lows located at lat. 43°15'N., long. 116°12'W., and lat. 43°14'N., long. 116°01'W. (fig. 2) are examples of this type of minor anomaly. These minima are quite restricted in area for it was observed that readings near the bases of the hills fit into the regional trend quite well. Only when the stations are right on the tops of the hills do these anomalies appear. It was originally thought that terrain corrections would account for the differences, but detailed terrain corrections for two of these hilltop stations show that terrain effects cannot account for more than about one milligal. There seems to be no relationship between height of hill and size of minimum because nearly equivalent differences were measured for hills 300 and 75 feet high. These hills may be surface indications of lava vents filled with low density vesicular lava in the upper part which would result in low gravity. However, the lava on the tops of these hills does not differ noticeably from the lava found elsewhere in the region.

Graticule analysis of profile A-A'

Profile A-A' is a line 32 miles long trending N. 34°E. The southwest end of the line is at lat. 42°53'N. and long. 116°01'W. The axis of the southeastern gravity high is intersected at right angles by the profile.

In profile the gravity anomaly cut by A-A' appears as a symmetrical, bell-shaped curve, with an amplitude of 55 milligals. The gradient of the northeast side is 5.2 milligals per mile, and the gradient of the southwest side is 4.6 milligals per mile. The peak of the anomaly occurs about 7 1/2 miles northeast of the Snake River as measured along the profile.

The method described by Hubbert (1948) was used in the interpretation of the profile. The accuracy of this method (and of any two-dimensional graticule interpretation method) depends on two major assumptions: (1) that the length of the body being analyzed is so great in comparison with its width and depth that it can be considered to extend infinitely along its axis and (2) that a reasonable density contrast has been chosen. Reference to the map will show that the anomaly cut by profile A-A' is greatly elongated and, hence, that the first assumption is valid. Considerable latitude exists in choosing a density contrast. Presumably, rocks cut by a section along profile A-A' are of three general types: granitic, basaltic and sedimentary. A density of 2.7 gm per cm^3 was assigned to both the sedimentary rocks and to the granitic mountains, and it was assumed that the granite at depth is the same density. The mean density of basalt is about 3.0 gm per cm^3. This figure was adopted for the density of the basalt in the Snake River plain. Using these values, the density contrast is 0.3 gm per cm^3. The densities of the main types of rocks perhaps increase with depth, but it will be assumed that the density contrast remains constant with depth.

Information from wells drilled in the Snake River plain indicates basalts may be rare down to a depth of at least 4,000 feet (Youngquist and Kiilsgaard, 1951; Littleton and Crosthwaite, 1957). In consideration of this knowledge, three permissible interpretations have been developed. The first was made assuming that the basalt extends to the surface of the plain. The second and third interpretations were made assuming that the top of the basalt is at a depth of 2 kilometers and 4 kilometers, respectively, and that the material above the basalt has no density contrast with the granitic rocks.

Examination of the Bouguer anomaly map shows that the background Bouguer gravity is in the neighborhood of -130 milligals. In matching the curve that would be produced by a hypothetical rock mass to the observed curve it was found convenient to assume a background of -125 milligals.

Cross sections of the three possible anomaly-causing bodies are shown in figure 3. The outline of each of these bodies is only intended

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Figure 3. Three permissible interpretations of profile A-A'.

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to give an idea of the general shape of the feature.

It can be seen from the three interpretations that even with the relatively high density contrast chosen, a rather thick accumulation of basalt is required to produce the anomaly. The most plausible of the three interpretations seems to be the one which assumes that the top of the basalt is at a depth of 2 kilometers. This interpretation is favored because it does not require as thick an accumulation of basalt as the case where the top of the basalt is assumed to be at a depth of 4 kilometers.

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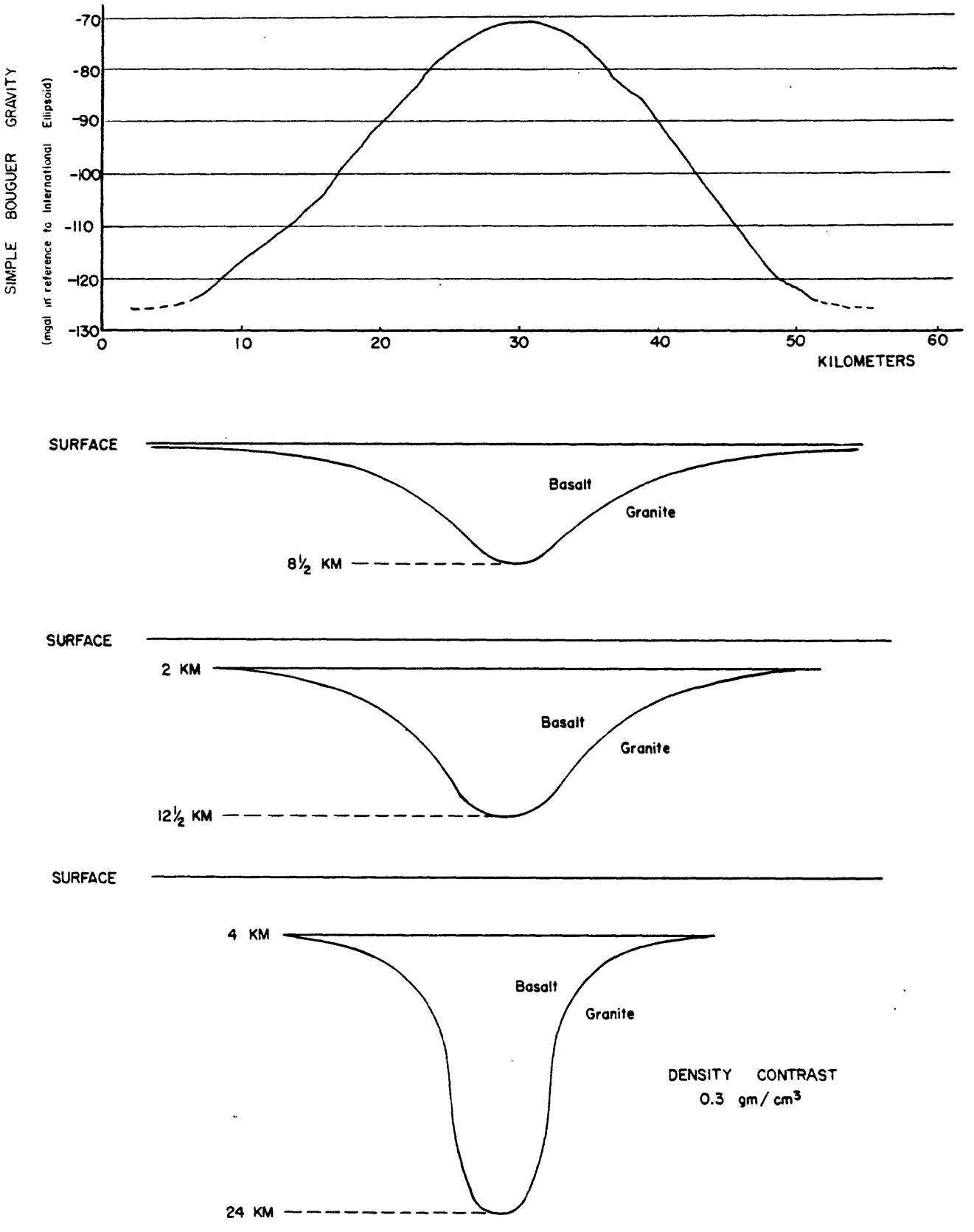

Figure 3. — Three Permissible Interpretations of Profile A-A'

Structural Relationship between the Granite and the basalt

The writers are not sufficiently familiar with the geology of the region to arrive at definite conclusions concerning the structural relationships indicated by the anomalies. However, two general possibilities exist concerning the boundary between the granitic and basaltic rocks. They are:

1. Fault contacts
2. Downwarp

Of these two possibilities, the first is considered by the writers to be the most plausible. Faults are in evidence on the surface and the trend of these closely parallels the direction of the contours along the northeastern slope of the easterly gravity high (Malde 1959). The steepness of the boundary for each interpretation makes the likelihood of a downwarp small. Even if such a downwarp does exist, it is unlikely that it could have occurred without large-scale faulting, and thus we return to the first possibility.

Further support for the theory of fault contacts is provided by the slight irregularity of the gradient on the northeast side of the southern anomaly. This is shown on profile A-A' as a slight flattening of the slope around the -85 milligal level. This irregularity is not a peculiarity of this profile only, since a close examination of the map will show that this gradient change exists for a considerable distance both to the northwest and to the southeast of the profile. A possible cause of this irregularity might be two distinct faults.

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TABLE I

GRAVITY DATA FOR SNAKE RIVER PROJECT

Station	Latitude	Longitude	Elev. (feet)	Observed gravity (-979000 milligals)	Bouguer g.	
1-0	43°34'06"	116°13'12"	--	1208.2	--	
1-1	43°34'20"	116°14'34"	2804	1213.4	-118.9	
1-2	43°33'28"	116°14'55"	2797	1216.1	-115.3	
[illegible]						
1-4	43°[illegible]'55"	116°13'56"	2873	1211.1	-113.5	
1-5	43°30'38"	116°13'36"	3139	1192.7	-114.0	
1-6	43°31'02"	116°13'56"	3050	1198.0	-114.1	
1-7	43°33'10"	116°13'48"	2817	1212.5	-117.4	
1-8	43°33'05"	116°12'45"	2854	1208.3	-119.2	
1-9	43°31'54.5"	116°12'45"	2917	1206.9	-115.1	
1-10	43°31'54.5"	116°11'33"	2946	1203.0	-117.2	
1-11	43°31'54.5"	116°10'21"	2998	1199.8	-117.2	
1-12	43°31'02"	116°10'21"	3027	1199.1	-114.9	
1-13	43°31'02"	116°11'32"	3016	1199.4	-114.3	115.3
1-14	43°30'10"	116°11'34"	3163	1189.3	-115.2	
1-15	43°32'46"	116°10'55"	2921	1202.8	-120.2	
1-16	43°32'29"	116°09'[illegible]"	3003	1197.0	-120.6	
1-17	43°33'39"	116°10'03"	2873	1204.5	-122.7	
1-18	43°33'39"	116°07'51"	2827	1208.1	-121.8	
1-19	43°34'42.5"	116°10'22"	2744	1212.7	-123.9	123.8
1-20	43°35'22.5"	116°11'32"	2723	1214.5	-124.3	
1-21	43°36'33.5"	116°11'10"	2716	1216.1	-124.9	
1-22	43°36'03.5"	116°10'02"	2731	1214.7	-124.6	
1-23	43°35'20"	116°09'40"	2730	1213.5	-124.8	

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.	
1-24	43 34'21.5"	116 07'40"	2765	1212.6	-122.1	
2-0	43 35'24"	116 15'09"	2776	1214.2	-121.4	
2-1	43 35'26"	116 17'35"	2733	1223.4	-114.9	
2-2	43 35'26"	116 18'48"	2698	1230.1	-110.3	
2-3	43 35'26.5"	116 21'13"	2658	1241.0	-100.9	
2-4	43 34'33.5"	116 22'24"	2648	1245.7	-96.3	
2-5	43 34'33.5"	116 20'00"	2697	1235.1	-104.1	104.0
2-6	43 34'33.5"	116 18'48"	2724	1229.5	-108.0	
2-7	43 34'33"	116 16'23"	2745	1220.8	-115.5	
2-8	43 33'41"	116 17'36"	2772	1223.6	-109.7	
2-9	43 33'41"	116 20'00"	2711	1234.0	-102.9	
2-10	43 33'41"	116 22'24"	2675	1242.3	-96.8	
2-11	43 37'10.5"	116 22'24"	2607	1247.9	-100.5	
2-12	43 37'10.5"	116 21'13"	2624	1241.8	-105.6	
2-13	43 36'18"	116 20'00"	2652	1236.3	-108.2	
2-14	43 37'10"	116 18'48"	2662	1228.3	-116.9	
2-15	43 36'24.5"	116 17'35"	2686	1223.6	-118.9	
2-16	43 32'43.5"	116 18'48"	2729	1229.9	-104.7	
2-17	43 32'43.5"	116 21'13"	2727	1232.5	-102.2	
2-18	43 31'55"	116 22'24"	2735	1230.3	-102.6	
2-19	43 30'11"	116 22'24"	2707	1227.7	-104.3	104.2
2-20	43 30'10.5"	116 20'43"	2753	1223.3	-105.9	
2-21	43 31'03"	116 20'37"	2744	1225.4	-105.6	
2-22	43 31'55.5"	116 20'02"	2733	1228.8	-104.2	
2-24	43 30'45.5"	116 16'33"	3053	1202.6	-109.4	
2-25	43 31'04"	116 17'37"	2982	1207.6	-109.2	

Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
2-26	43 31'03.5"	116 18'48"	.2782	1222.1	-106.6
2-27	43 31'56"	116 18'48"	2801	1223.0	-105.9
2-31	43 36'07.5"	116 14'33"	2729	1216.1	-123.5
2-32	43 35'50"	116 13'22"	2745	1214.1	-124.0
2-34	43 37'24.5"	116 13'03"	2677	1218.9	-125.7
2-35	43 37'39"	116 14'43"	2656	1219.7	-126.5
2-37	43 33'58"	116 06'52"	2793	1212.4	-120.0
2-38	43 32'17"	116 05'26"	?	1207.3	--
2-39	43 31'35"	116 03'58"	2841	1208.2	-117.8
2-40	43 34'29"	116 00'54"	3522	1163.2	-126.3
2-41	44 33'37"	116 03'13"	3707	1157.1	-120.0
2-42	43 30'08"	116 04'24"	3625	1156.7	-120.1
2-43	43 31'53"	116 05'38"	3138	1189.4	-119.2
2-44	43 31'53"	116 06'48"	3142	1190.8	-117.6
2-45	43 31'52"	116 08'00"	3097	1192.3	-118.7
2-51	43 42'25"	116 18'45"	2985	1202.5	-111.4
	43 42'24"	116 21'22"			
2-53	43 46'34"	116 22'58"	2907	1202.7	-110.2
2-54	43 45'34"	116 22'05"	2930	1199.7	-111.5
2-55	43 43'15.5"	116 19'46"	2963	1196.3	-112.7
2-56	43 43'32"	116 15'45"	3138	1181.3	-117.4
2-57	43 44'25.5"	116 15'26"	3242	1177.3	-117.9
2-58	43 43'45"	116 16'53"	3168	1184.1	-116.2
2-59	43 45'31"	116 16'34"	3082	1191.6	-113.9
2-60	43 48'56.5"	116 15'48"	3014	1198.4	-112.5

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
3-2	43 35'25"	116 23'34"	2618	1253.3	-91.9
3-3	43 34'52"	116 23'34"	2656	1249.2	-92.4
3-5	43 32'47"	116 23'35"	2732	1238.5	-95.8
3-7	43 31'03"	116 24'45"	2684	1232.6	-100.7
3-8	43 31'04"	116 25'57"	2668	1238.3	-97.3
3-9	43 31'56"	116 24'46"	2639	1237.0	-98.7
3-10	43 32'51"	116 25'56"	2645	1243.1	-96.6
3-11	43 33'41"	116 24'46"	2692	1246.6	-91.5
3-12	43 35'25.5"	116 24'46"	2604	1257.6	-88.4
3-13	43 34'35"	116 25'58"	2696	1248.4	-90.8
3-14	43 33'12"	116 27'09"	2630	1247.0	-94.9
3-15	43 31'57"	116 27'09"	2617	1243.1	-96.9
3-16	43 30'11"	116 27'09"	2646	1240.1	-95.5
3-17	43 30'12"	116 25'52"	2622	1243.7	-93.3
3-18	43 31'04"	116 26'22"	2611	1244.0	-95.0
	43 31'36.5"	116 27'22"			
3-20	43 32'49"	116 28'21"	2573	1248.2	-95.7
3-21	43 30'10"	116 25'57"	2586	1264.3	-85.2
3-22	43 30'17"	116 23'34"	2609	1254.0	-93.0
3-23	43 37'10"	116 24'46"	2576	1259.5	-90.8
3-25	43 37'11"	116 29'33"	2513	1272.3	-81.8
3-26	43 34'34"	116 29'34"	2570	1253.0	-91.0
3-27	43 33'41"	116 29'34"	2555	1253.1	-93.2
3-28	43 34'33"	116 28'21"	2629	1251.4	-91.8
3-29	43 35'26"	116 28'21"	2654	1255.2	-87.8
3-30	43 26'25.5"	116 28'22"	2524	1271.8	-80.7

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
4-0	43 40'53"	116 18'29"	2585	1232.8	-122.5
4-1	43 40'39"	116 16'42"	2608	1229.8	-123.8
4-2	43 39'34"	116 17'05"	2612	1229.3	-122.5 122.4
4-3	43 38'55"	116 18'48"	2653	1228.2	-120.1
4-4	43 38'55"	116 21'13"	2621	1230.4	-111.8
4-5	43 38'02"	116 22'25"	2608	1245.9	-103.7
4-7	43 38'02.5"	116 20'00"	2641	1233.2	-114.5
4-8	43 37'09"	116 18'20"	2699	1219.5	-123.4
4-9	43 38'33"	116 16'24"	2684	1221.4	-124.5
4-10	43 41'41"	116 18'47"	2640	1228.3	-124.9
4-11	43 43'15"	116 19'11"	2662	1226.7	-127.6
4-12	43 44'25"	116 18'05"	2731	1227.7	-124.2
4-13	43 43'40.5"	116 16'05"	2807	1223.4	-123.0
4-14	43 42'20"	116 15'39"	3188	1191.5	-129.8
4-15	43 40'00"	116 15'09"	2667	1224.4	-124.6
4-16	43 38'54"	116 13'56"	2664	1220.2	-127.4
4-17	43 38'53"	116 10'21"	3183	1186.3	-130.1
4-18	43 39'41"	116 08'01"	4359	1115.7	-131.4
4-19	43 38'59.5"	116 11'54"	2867	1206.5	-129.1
4-20	43 40'13"	116 12'35"	2878	1209.1	-127.6
4-21	43 41'31"	116 13'56"	3126	1190.6	-133.2
4-22	43 41'34"	116 10'28"	3918	1147.7	-128.7
4-23	43 43'11"	116 09'38"	4061	1087.1	-135.1
4-24	43 42'35"	116 13'55"	2943	1209.9	-126.5
4-25	43 43'40"	116 15'10"	2847	1216.0	-127.8

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
4-26	43 44'49"	116 15'55"	2927	1217.5	-123.3
4-27	43 43'47"	116 18'13"	2702	1227.5	-125.2
4-28	43 42'24"	116 20'00"	2632	1229.7	-125.1
4-29	43 45'09"	116 17'10"	2830	1226.8	-120.2
4-30	43 46'01"	116 15'52"	3180	1204.9	-122.4
4-31	43 48'00"	116 15'52"	3364	1193.0	-124.4
4-32	43 49'26"	116 15'16"	3089	1168.8	-121.1
4-33	43 50'10"	116 15'12"	4372	1135.2	-126.9
4-34	43 51'01.5"	116 17'35"	4546	1130.8	-122.0
4-35	43 51'50"	116 20'00"	4194	1159.4	-116.0
4-36	43 52'00"	116 21'54"	3449	1208.3	-112.0
4-37	43 50'47"	116 22'47"	3024	1231.3	-112.5
4-38	43 50'31"	116 23'42"	2917	1236.6	-113.2
4-39	43 50'28.5"	116 25'18"	3137	1218.0	-118.6
4-41	43 41'33"	116 21'12"	2555	1238.4	-119.7
4-42	43 40'39.5"	116 21'13"	2553	1239.8	-116.8
4-43	43 39'47.5"	116 22'25"	2600	1243.2	-109.6
4-44	43 39'47.5"	116 20'00"	2634	1232.3	-118.4
4-45	43 43'16"	116 21'13"	2632	1232.1	-124.0
4-46	43 44'44"	116 21'23"	2700	1226.4	-127.8
4-47	43 44'34"	116 20'40"	2796	1219.5	-128.7
4-48	43 43'56"	116 21'13"	2706	1226.4	-126.2
4-51	43 42'25"	116 19'45"	2676	1225.8	-126.3
4-52	43 42'24"	116 21'11"	2585	1235.6	-122.0
4-53	43 46'34"	116 22'58"	2831	1222.5	-126.6

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
4-54	43 45'54"	116 22'05"	2870	1214.8	-130.0
4-55	43 43'15.5"	116 19'46"	2632	1229.3	-126.8
4-56	43 43'32"	116 15'45"	2871	1215.7	-126.4
4-57	43 44'25.5"	116 15'26"	2861	1219.5	-124.5
4-58	43 45'45"	116 16'55"	2770	1227.7	-126.9
4-59	43 45'01"	116 18'34"	2956	1221.2	-118.8
4-60	43 46'36.5"	116 15'45"	3707	1179.2	-110.9
4-61	43 45'43"	116 13'02"	3913	1154.4	-128.6
4-62	43 46'10"	116 12'55"	3935	1154.1	-128.4
4-63	43 47'43"	116 11'31"	4605	1113.8	-130.6
4-64	43 49'24.5"	116 10'41"	3824	1178.5	-133.3
4-65	43 49'59.5"	116 10'15"	3448	1182.5	-134.7
4-66	43 50'37.5"	116 10'15"	3363	1190.0	-133.3
4-67	43 52'16"	116 10'04"	3159	1205.5	-133.7
4-68	43 51'38"	116 08'59"	3547	1188.4	-137.9
4-69	43 53'47"	116 12'10"	2668	1241.2	-128.9
4-70	43 55'00.5"	116 11'47"	2656	1249.2	-123.1
4-71	43 57'40.5"	116 11'32"	2634	1244.9	-130.9
4-72	43 59'40.5"	116 11'00"	2696	1243.7	-133.4
4-73	43 57'34"	116 09'10"	3103	1211.6	-137.5
4-74	43 54'47.5"	116 13'10"	2586	1251.8	-124.4
4-75	43 54'05"	116 14'08"	2584	1249.3	-125.9
4-76	43 52'12"	116 13'34"	3303	1197.5	-126.9
4-77	43 50'48.5"	116 14'14"	4029	1158.2	-125.3
4-78	43 50'10"	116 14'40"	4247	1147.5	-122.0

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
5-0	43 41'28"	116 27'27"	2488	1267.6	-94.4
5-1	43 39'47.5"	116 23'33"	2584	1249.4	-104.4
5-2	43 38'03"	116 23'33"	2487	1252.8	-98.2
5-3	43 38'55.5"	116 24'46"	2572	1258.7	-94.4
5-4	43 39'47.5"	116 25'57"	2555	1260.4	-92.0
5-5	43 38'08"	116 25'58"	2555	1266.0	-86.8
5-7	43 38'03.5"	116 28'22"	2528	1271.9	-83.6
5-8	43 38'58"	116 30'34"	2503	1273.2	-83.8
5-9	43 39'47.5"	116 28'21"	2527	1271.5	-85.6
5-10	43 38'50"	116 27'10"	2539	1220.9	-85.2
5-11	43 41'05.5"	116 24'[illegible]"	2516	1257.7	-102.1
5-30	43 41'20"	116 25'50"	2505	1262.3	-98.7
5-31	43 42'23.5"	116 24'09"	2546	1250.0	-110.0
5-32	43 41'40"	116 22'41"	2548	1245.3	-113.5
5-33	43 43'13.5"	116 23'32"	2565	1253.3	-106.8
5-34	43 43'13.5"	116 25'22"	2559	1250.0	-110.5
5-35	43 43'10"	116 22'42"	2523	1237.9	-118.8
5-36	43 44'08"	116 24'30"	2542	1237.3	-119.5
5-37	43 44'25.5"	116 25'30"	2619	1243.4	-115.2
5-38	43 42'10.5"	116 29'32"	2404	1268.3	-96.6
5-[illegible]	43 43'05.5"	116 26'57"	2532	1260.7	-101.1
5-40	43 42'24"	116 28'21"	2485	1265.1	-98.5
5-41	43 39'40"	116 29'34"	2510	1272.3	-85.9
5-42	43 43'17.5"	116 28'03"	2545	1257.7	-103.7
5-12	43 43'05"	116 28'50"	2766	1236.5	-118.8

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
6-0	43 50'22"	116 28'55"	2474	1258.5	-117.7
6-1	43 51'00.5"	116 28'20"	2421	1262.5	-117.8
6-2	43 51'52.5"	116 29'30"	2374	1269.4	-115.7
6-3	43 52'31"	116 29'36"	2379	1271.3	-113.8
6-4	43 53'29"	116 29'19"	2472	1276.1	-108.4
6-5	43 54'30"	116 29'21"	2475	1276.8	-105.6
6-7	43 52'30"	116 28'21"	2363	1269.5	-115.3
6-8	43 51'52.5"	116 28'20"	2 32	1267.4	-115.4
6-9	43 53'48"	116 25'5.	2651	1265.3	-111.3
6-10	43 54'08"	116 25'25"	2744	1256.0	-109.7
6-11	43 54'55"	116 24'40"	2907	1246.8	-109.9
6-12	43 55'08"	116 23'2.."	2820	1265.6	-108.0
6-13	43 55'05"	116 21'49"	2781	1251.0	-113.8
6-14	43 55'07"	116 21'05"	2687	1259.9	-113.7
6-15	43 55'09"	116 19'58"	2566	1262.7	-113.7
6-16	43 54'56"	116 19'04"	2364	1254.9	-120.4
6-17	43 54'55.5"	116 17'52"	2662	1248.1	-123.7
6-18	43 54'42"	116 16'27"	2393	1253.3	-122.3
6-19	43 54'11"	116 15'32"	2696	1249.5	-125.3
6-20	43 53'4.."	116 20'14"	2543	1260.1	-121.5
6-21	43 50'31.5"	116 24'30"	3253	1212.5	-117.5
6-24	43 49'30"	116 23'50"	2953	1231.4	-114.9
6-23	43 49'58"	116 24'14"	2812	1236.8	-116.9
6-26	43 48'20.5"	116 23'33"	3027	1220.6	-119.6
6-27	43 48'20.5"	116 25'47"	2767	1236.1	-119.7
6-28	43 53'09.5"	116 28'20"	2395	1272.0	-113.1

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Location	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
6-29	43 54'13"	116 27'04"	2404	1277.5	-108.7
6-30	43 55'48"	116 25'47"	2501	1277.2	-105.5
6-31	43 55'55.5"	116 23'43"	2508	1273.4	-109.1
6-32	43 57'36"	116 25'29"	3283	1231.6	-106.6
6-33	43 57'30"	116 27'36"	3041	1250.4	-103.1
6-34	43 57'53"	116 28'43"	2936	1260.7	-105.3
6-35	43 59'41"	116 29'32"	2915	1257.5	-106.2
6-36	43 58'18"	116 29'18"	3141	1237.7	-110.4
6-37	43 56'12"	116 29'30"	2816	1270.5	-105.9
7-0	43 53'37"	116 29'21"	2443	1273.1	-109.9
7-2	43 57'57"	116 24'40"	3462	1167.7	-107.4
7-3	43 58'59"	116 24'25"	4028	1131.6	-110.6
7-4	43 59'10.5"	116 23'40"	4127	1121.3	-115.7
7-5	43 57'56"	116 21'10"	2701	1250.4	-123.6
7-6	43 58'21.5"	116 19'25"	2548	1260.9	-122.9
7-7	43 58'40"	116 19'20"	2567	1263.8	-119.0
7-8	43 58'40"	116 18'40"	2624	1260.3	-120.8
7-9	43 58'22"	116 18'39"	2601	1257.1	-123.5
7-10	43 57'08"	116 18'18"	2781	1244.9	-123.1
7-12	43 56'56"	116 22'20"	2564	1268.1	-111.9
8-0	43 58'02"	116 28'29"	2909	1227.5	-122.1
8-2	43 58'10.5"	116 20'00"	4182	1151.9	-121.5
8-3	43 58'26"	116 08'53"	3414	1169.3	-117.6
9-1	43 27'07"	116 04'42"	3358	1167.8	-120.5
9-2	43 29'17"	116 08'49"	3408	1170.8	-117.7

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
9-3	43 29'17.5"	116 04'27"	3514	1163.6	-118.5
9-4	43 29'17.5"	116 03'10"	3680	1151.6	-120.6
9-5	43 29'17"	116 02'02"	3872	1138.4	-122.3
9-6	43 28'24"	116 01'20"	3759	1141.6	-124.5
9-7	43 28'24"	116 03'02"	3696	1146.7	-123.4
9-8	43 28'23.5"	116 03'15"	3552	1157.9	-120.7
9-9	43 27'31.5"	116 03'13"	3448	1162.2	-121.3
9-10	43 26'40"	116 03'15"	3414	1160.9	-123.4
9-11	43 27'00"	116 01'50"	3554	1152.9	-123.6
9-12	43 26'33.5"	116 00'30"	3557	1150.0	-125.6
9-13	43 25'46.5"	116 00'50"	3572	1146.0	-127.4
9-14	43 25'34"	116 01'10"	3539	1147.3	-127.7
9-15	43 25'14"	116 02'04"	3448	1153.5	-126.5
9-16	43 27'13.5"	116 07'00"	3257	1176.0	-117.7
9-17	43 25'43.5"	116 06'50"	3242	1174.0	-119.3
9-18	43 24'52"	116 07'20"	3107	1180.0	-117.1
9-19	43 22'47.5"	116 07'11"	3108	1180.4	-116.4
9-20	43 21'31"	116 07'03"	3149	1178.3	-114.0
9-23	43 23'49.5"	116 04'45"	3150	1174.6	-116.7
9-24	43 22'15.5"	116 04'37"	3150	1172.4	-119.0
9-25	43 23'10.5"	116 05'37"	3146	1175.5	-119.6

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
9-26	43 24'7.5"	116 05'19"	3217	1171.5	-120.7
9-27	43 24'56"	116 03'15"	3364	1158.9	-125.7
9-28	43 24'05"	116 02'22"	3358	1156.5	-127.2
9-29	43 23'47"	116 03'25"	3248	1181.5	-115.8
9-30	43 24'26"	116 03'11"	3101	1182.9	-116.7
9-31	43 23'57.5"	116 03'07"	3063	1184.9	-116.3
9-32	43 24'26"	116 10'04"	2992	1191.8	-114.4
9-33	43 24'40"	116 11'10"	2977	1194.2	-113.3
10-0	43 23'39"	116 00'19"	3350	1154.4	-129.1
10-1	43 23'10"	116 02'04"	3285	1160.5	-126.2
10-2	43 22'21"	116 04'01"	3190	1169.0	-121.7
10-3	43 21'29"	116 03'20"	3184	1168.6	-121.6
10-4	43 20'59.5"	116 03'19"	3166	1169.6	-120.9
10-5	43 20'34"	116 02'57"	3164	1169.2	-120.9
10-6	43 19'44"	116 02'02"	3167	1168.6	-120.0
10-7	43 19'45.5"	116 01'09"	3183	1164.8	-122.6
10-8	43 19'11"	116 02'20"	3147	1172.1	-116.9
10-9	43 19'37"	116 03'22"	3146	1174.2	-115.5
10-10	43 20'04"	116 04'25"	3142	1175.7	-114.9
10-11	43 20'30"	116 05'27"	3139	1177.8	-113.7
10-12	43 22'18"	116 00'50"	3304	1156.5	-127.7
10-15	43 21'28.5"	116 00'50"	3232	1161.4	-126.0
10-16	43 20'33"	116 00'40"	3205	1162.8	-124.8
10-17	43 20'16.5"	116 00'08"	3215	1161.9	-124.7
10-19	43 17'50.5"	116 04'01"	3144	1181.2	-106.0
10-21	43 18'06"	116 07'28"	3222	1182.2	-100.6

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0.511

Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
10-22	43 19'54"	116 06'50"	3166	1182.5	-104.9
10-23	43 19'22.5"	116 05'40"	3172	1179.3	-108.5
10-24	43 17'07.5"	116 02'14"	3127	1179.8	-107.3
10-25	43 15'57"	116 03'56"	3227	1185.5	-103.9
10-26	43 15'33.5"	116 04'10"	3240	1186.4	-91.5
10-27	43 15'23.5"	116 02'16"	3134	1194.2	-89.9
10-28	43 15'30"	116 01'02"	3102	1192.0	-94.1
10-29	43 16'22.5"	116 00'43"	3111	1182.4	-104.5
10-30	43 17'03"	116 00'41"	3130	1176.3	-110.7
10-31	43 18'00.5"	116 00'31"	3149	1171.0	-116.1
11-0	--	--	--	1161.7	--
12-0	43 13'02"	115 59'26"	3189	1176.3	-100.9
12-1	43 12'55"	115 50'14"	3198	1179.4	-97.2
12-2	43 13'13.5"	115 51'07"	3221	1178.7	-96.9
12-3	43 13'47"	115 50'49"	3234	1174.3	-101.4
12-4	43 14'00.5"	115 52'09"	3153	1180.5	-100.5
12-5	43 13'52.5"	115 53'31"	3144	1185.1	-96.1
12-6	43 14'09"	115 53'40"	3167	1179.7	-101.3
12-7	43 14'39"	115 54'58"	3146	1183.6	-98.7
12-8	43 14'39"	115 56'11"	3128	1186.2	-97.1
12-9	43 14'39"	115 57'21"	3113	1188.4	-95.8
12-10	43 14'38.5"	115 58'33"	3099	1191.4	-93.6
12-11	43 14'38"	115 59'44"	3092	1194.2	-91.3
12-12	43 13'46.5"	115 59'44"	3076	1199.8	-85.4
12-14	43 12'54"	115 59'44"	3078	1202.3	-81.4
12-13	43 12'53.5"	115 58'35"	3071	1204.3	-79.9

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Site No.	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
12-16	43 12'59.5"	115 57'23"	3000	1202.5	-81.1
12-17	43 13'46.5"	115 57'22"	3100	1195.1	-88.6
12-18	43 13'46.5"	115 56'10"	3104	1193.9	-89.6
12-19	43 13'33.5"	115 56'10"	3099	1199.7	-83.3
12-21	43 12'02"	115 55'03"	3092	1201.6	-80.9
12-22	43 12'54"	115 54'59"	3098	1196.2	-86.3
12-23	43 13'46.5"	115 54'59"	3127	1188.6	-96.4
12-25	43 12'45.5"	115 53'07"	3201	1186.7	-89.4
12-26	43 12'05.5"	115 53'14"	3185	1188.5	-92.6
12-28	43 12'18.5"	115 51'47"	3202	1188.7	-89.9
12-29	43 12'51.5"	115 51'5	3145	1195.8	-81.7
12-27	43 13'05.5"	115 51'17"	3118	1197.4	-79.8
12-28	43 13'14"	115 51'33"	3129	1200.2	-76.5
12-29	43 11'06.5"	115 55'46"	3079	1204.7	-76.2
12-30	43 11'45"	115 55'46"	3079	1204.8	-77.1
12-31	43 11'07"	115 57'03"	3085	1210.5	-71.3
12-32	43 13'07"	115 57'20"	3087	1210.2	-70.0
12-33	43 08'55"	115 57'27"	3088	1209.1	-69.6
12-34	43 08'43"	115 57'30"	3084	1207.9	-70.9
12-35	43 09'11"	115 56'55"	3051	1209.1	-69.2
12-36	43 09'04.5"	115 56'31"	2999	1209.3	-69.4
12-37	43 07'51"	115 56'14"	3055	1208.0	-69.2
12-38	43 08'07"	115 55'18"	3077	1206.9	-69.7
12-39	43 08'34"	115 54'02"	3198	1202.0	-68.1
12-40	43 09'17"	115 53'32"	3158	1203.2	-71.3
12-41	43 09'51.5"	115 55'14"	3059	1210.9	-69.4

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
11-12	43 10'54"	115 54'30"	3000	1200.8	-72.0
12-[illegible]	43 10'01"	115 49'32"	3146	1190.9	-84.4
12-14	43 10'39.5"	115 43'48"	3156	1185.8	-89.8
12-[illegible]	43 11'20"	115 49'15"	3173	1184.0	-91.9
13-0	43 10'21"	115 45'35"	3101	1176.1	-97.0
13-1	43 11'10.5"	115 47'27"	3164	1180.7	-95.3
13-2	43 12'00.5"	115 49'41"	3171	1179.7	-97.2
13-4	43 14'40"	115 50'15"	3148	1166.6	-109.5
13-5	43 14'20"	115 48'31"	3279	1161.1	-112.9
13-6	43 14'36.5"	115 47'1[illegible]"	3221	1155.8	-116.4
13-7	43 1[illegible]'[illegible].5"	115 43'07"	3401	1149.2	-117.5
13-8	43 12'44.5"	115 47'51"	3247	1148.2	-113.2
13-9	43 13'25.5"	115 46'[illegible]"	3241	1149.4	-113.3
13-10	43 13'40.5"	115 47'44"	3222	1150.3	-110.9
13-11	43 01'30"	115 37'[illegible]"	3033	1178.0	-87.5
13-12	43 09'39.5"	115 35'42"	3000	1175.3	-89.9
14-0	--	--	--	1172.0	--
14-1	43 09'20.5"	115 43'24"	3163	1172.2	-99.9
14-2	43 09'50"	115 44'10"	3199	1172.3	-99.7
14-3	43 10'12.5"	115 42'46"	3185	1159.5	-111.3
14-4	43 11'04"	115 44'11"	3200	1166.7	-106.5
14-5	43 11'58"	115 44'01"	3323	1157.1	-110.5
14-7	43 13'43.5"	115 44'10"	3443	1142.6	-120.4
14-8	43 14'12.5"	115 43'25"	3430	1138.2	-122.9
14-9	43 13'20.5"	115 43'27"	3450	1142.4	-119.9
14-10	43 11'34.5"	115 42'03"	3200	1155.5	-114.1

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
14-11	43 14'00"	115 42'13"	3539	1134.9	-123.5
14-12	43 12'49"	115 43'36"	3490	1132.7	-126.2
14-13	43 10'04.5"	115 39'17"	3651	1121.0	-129.3
14-1	43 13'35.5"	115 38'04"	3775	1113.3	-129.6
14-15	43 08'01"	115 41'14"	3140	1173.0	-102.7
14-16	43 09'16.5"	115 41'12"	3193	1161.3	-110.2
14-17	43 10'12.5"	115 40'00"	3250	1153.5	-115.9
14-18	43 11'57"	115 40'30"	3210	1145.4	-122.5
14-19	43 10'15.5"	115 38'16"	3389	1145.3	-120.6
14-20	43 11'04.5"	115 39'20"	3374	1139.3	-123.9
14-21	43 11'57"	115 39'44"	3358	1136.1	-126.7
14-22	43 11'57"	115 38'14"	3515	1126.7	-129.4
14-23	43 13'02.5"	115 38'15"	3295	1144.2	-122.3
14-24	43 08'45.5"	115 39'32"	3283	1152.1	-115.0
14-25	43 08'28.5"	115 38'14"	3402	1136.2	-117.8
14-26	43 07'09.5"	115 40'55"	3124	1172.7	-99.7
14-27	43 06'43"	115 39'24"	3181	1160.2	-103.1
14-28	43 05'57"	115 38'15"	3150	1165.2	-103.1
14-29	43 05'25.5"	115 39'42"	3035	1176.3	-95.2
14-30	43 04'36.5"	115 39'[illegible]"	3009	1177.6	-92.2
14-31	43 02'4[illegible]"	115 37'24"	3104	1179.1	-87.3
14-32	43 02'22"	115 39'26"	3062	1186.2	-82.7
14-33	43 02'22.5"	115 40'33"	3052	1189.1	-80.4
14-34	43 03'14.5"	115 40'35"	3061	1188.4	-81.0
14-35	43 05'00.5"	115 40'33"	3099	1184.9	-84.3
14-36	43 04'59"	115 40'36"	3091	1182.2	-88.9

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
14-37	43 04'59.5"	115 42'04"	3089	1188.5	-82.6
14-38	43 05'51"	115 42'05"	3097	1185.2	-86.8
14-39	43 06'44"	115 42'59"	3134	1184.2	-86.9
14-40	43 08'02"	115 42'32"	3144	1176.8	-95.6
14-41	43 07'36"	115 44'29"	3152	1185.0	-86.3
14-42	43 05'52"	115 45'22"	3144	1192.4	-76.8
14-43	43 05'01"	115 45'22"	3122	1195.2	-74.0
14-44	43 04'09"	115 45'21"	3101	1196.1	-73.1
14-45	43 03'18.5"	115 45'19"	3086	1195.2	-73.6
14-46	43 02'25.5"	115 45'19"	3049	1194.2	-75.5
14-47	43 01'32.5"	115 45'18"	3035	1193.3	-75.9
14-48	43 01'34.5"	115 47'08"	3029	1193.9	-75.8
14-49	43 01'35.5"	115 48'56"	3042	1191.5	-77.4
14-50	43 02'16"	115 50'08"	3013	1195.4	-76.3
14-51	43 03'19.5"	115 50'08"	3026	1200.7	-71.8
14-52	43 02'57.5"	115 51'40"	2990	1198.5	-75.5
14-53	43 03'19.5"	115 48'22"	3059	1200.5	-70.0
14-54	43 03'17.5"	115 46'59"	3061	1199.6	-70.7
14-55	43 03'17.5"	115 44'09"	3081	1194.1	-75.0
14-56	43 00'40"	115 42'58"	3055	1188.9	-77.8
14-57	43 01'32.5"	115 42'58"	3046	1191.5	-77.0
14-58	43 01'31"	115 41'46"	3047	1188.5	-79.9
14-59	43 01'31"	115 40'36"	3064	1187.7	-79.8
14-60	43 00'40.5"	115 40'35"	3049	1184.3	-82.8
14-61	43 00'36.5"	115 39'25"	3039	1182.5	-85.1

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
14-62	43 02'22"	115 41'47"	3054	1190.7	-78.7
14-63	43 03'14.5"	115 41'46"	3065	1191.7	-78.3
14-64	43 04'09"	115 42'57"	3075	1194.2	-76.5
14-65	43 05'28"	115 43'50"	3043	1189.4	-79.3
14-74	43 08'28"	115 40'37"	3172	1164.0	-107.5
14-75	43 09'20.5"	115 42'24"	3184	1167.5	-104.5
14-76	43 07'37"	115 43'36"	3156	1181.9	-89.2
14-77	43 05'30.5"	115 51'19"	3072	1202.3	-70.7
14-78	43 04'10.5"	115 51'18"	3031	1202.0	-71.4
14-79	43 04'12"	115 50'08"	3049	1202.4	-70.0
14-80	43 04'27"	115 48'56"	3109	1201.6	-67.6
14-81	43 05'20"	115 47'47"	3129	1198.9	-70.4
14-82	43 04'11"	115 47'46"	3094	1200.5	-69.1
14-83	43 05'01"	115 46'34"	3112	1198.3	-71.5
14-84	43 05'00.5"	115 42'58"	3092	1191.1	-79.9
14-85	43 04'09"	115 44'09"	3080	1195.5	-75.0
14-86	43 05'52.5"	115 42'59"	3111	1188.0	-83.2
14-87	43 06'44.5"	115 44'10"	3141	1187.0	-83.7
14-88	43 08'29"	115 43'33"	3172	1179.0	-92.5
14-89	43 09'20.5"	115 44'11"	3197	1175.9	-95.4
14-90	43 09'40.5"	115 45'44"	3207	1178.1	-93.0
14-91	43 08'41"	115 46'38"	3234	1183.9	-84.1
14-92	43 07'45"	115 46'37"	3206	1186.4	-81.9
14-93	43 07'58.5"	115 48'13"	3212	1189.6	-78.7
14-94	43 07'40.5"	115 49'42"	3165	1197.5	-73.1

Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
14-95	43 07'10"	115 52'26"	3094	1207.7	-66.5
14-96	43 09'02"	115 49'26"	3158	1192.6	-80.5
14-97	43 10'06"	115 48'24"	3168	1185.9	-88.2
14-99	43 09'19.5"	115 47'36"	3241	1183.4	-85.1
14-100	43 10'16"	115 46'45"	3176	1180.4	-93.4
14-101	43 04'48"	115 53'41"	3024	1204.5	-70.3
14-102	43 03'57"	115 56'17"	2976	1200.0	-76.3
14-103	43 03'21.5"	115 58'02"	2943	1195.0	-82.4
14-104	43 02'52.5"	115 59'35"	2938	1188.6	-88.4
14-105	43 03'53.5"	115 59'34"	2944	1196.7	-81.5
14-106	43 05'15"	115 59'39"	2973	1206.1	-72.5
14-107	43 06'32"	115 58'56"	2979	1208.4	-71.7
14-109	43 05'56"	115 57'59"	3001	1206.3	-71.6
14-110	43 04'42"	115 57'59"	2977	1203.2	-74.3
14-111	43 05'58"	115 56'12"	2987	1208.0	-70.7
14-112	43 06'35"	115 54'03"	3065	1207.6	-67.5
14-113	43 05'26"	115 54'53"	2993	1206.2	-71.4
14-114	43 01'38"	115 59'24"	2869	1184.7	-94.6
14-115	43 01'37.5"	115 57'24"	2915	1184.6	-91.9
14-116	43 00'18.5"	115 57'24"	2898	1174.4	-101.2
14-117	43 00'41.5"	115 55'37"	2963	1177.4	-94.9
14-118	43 02'29"	115 53'41"	2988	1193.4	-80.1
14-119	43 00'35"	115 51'39"	2971	1184.6	-87.0
14-120	43 01'08"	115 53'48"	2980	1184.8	-87.1
14-121	43 01'36.5"	115 55'37"	2984	1183.5	-88.9
14-122	43 03'01"	115 55'45"	2975	1195.6	-79.5

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
14-123	43 03'47"	115 53'41"	2985	1202.3	-73.3
14-124	43 05'10.5"	115 35'52"	3205	1156.3	-108.2
14-125	43 04'57"	115 33'30"	3204	1146.8	-117.4
14-126	43 06'02"	115 33'25"	3312	1137.4	-121.9
14-127	43 07'22.5"	115 34'22"	3398	1131.1	-125.1
14-128	43 07'00"	115 31'51"	3364	1125.8	-131.9
14-129	43 05'40"	115 32'03"	3274	1136.4	-124.7
14-130	43 04'40"	115 30'46"	3256	1136.5	-124.0
14-131	43 03'24"	115 30'15"	3206	1149.4	-112.4
14-132	43 04'48"	115 32'06"	3234	1142.12	-120.1
14-133	43 03'57"	115 33'27"	3216	1152.9	-109.1
14-134	43 03'13.5"	115 33'29"	3183	1157.9	-105.0
14-135	43 01'30"	115 32'20"	3117	1172.7	-91.6
14-136	43 00'22"	115 32'42"	3041	1181.7	-85.4
14-137	43 00'11"	115 34'25"	3063	1177.3	-88.2
14-138	43 01'30"	115 34'40"	3121	1172.9	-91.1
14-139	43 02'22"	115 34'39"	3151	1168.8	-94.7
14-140	43 03'14.5"	115 34'27"	3168	1162.0	-101.8
14-141	43 03'14.5"	115 35'57"	3166	1167.3	-96.7
14-142	43 04'06.5"	115 35'51"	3191	1161.7	-102.1
14-143	43 04'58"	115 34'38"	3198	1150.6	-114.0
14-144	43 09'13"	115 35'26"	3460	1125.3	-130.0
14-145	43 03'42"	115 36'20"	3441	1131.7	-124.0
14-146	43 08'20"	115 35'41"	3374	1133.2	-125.9
14-147	43 07'54"	115 33'25"	3424	1124.2	-131.3
14-148	43 07'50"	115 32'06"	3416	1119.8	-136.1

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
14-149	43 07'45"	115 30'26"	3443	1114.6	-139.5
14-150	43 08'39"	115 30'47"	3530	1112.3	-138.0
14-151	43 09'14"	115 31'18"	3578	1109.4	-138.8
14-152	43 09'53"	115 31'37"	3722	1101.2	-139.4
14-153	43 10'35"	115 32'18"	3728	1103.0	-138.2
14-154	43 11'20"	115 33'11"	3754	1105.7	-135.1
14-155	43 11'49"	115 33'15"	3820	1103.2	-134.3
14-156	43 11'29"	115 31'09"	4046	1083.8	-139.7
14-157	43 13'47"	115 34'12"	4362	1078.7	-129.3
14-158	43 11'39"	115 33'58"	3747	1109.0	-132.7
14-159	43 11'00"	115 36'50"	3475	1127.6	-129.4
14-160	43 13'06"	115 36'25"	3748	1113.1	-130.7
14-161	43 13'40"	115 37'00"	3793	1112.5	-129.5
14-162	43 18'40"	115 45'53"	3525	1145.2	-120.2
14-163	43 18'55"	115 52'00"	3330	1150.7	-126.9
15-0	--	--	--	1152.6	--
15-4	43 18'51"	116 08'00"	3227	1180.9	-102.8
15-5	43 18'07.5"	116 08'07"	3244	1182.1	-99.5
15-6	43 17'07"	116 08'12"	3311	1180.6	-95.4
15-7	43 15'30.5"	116 08'11"	3342	1184.9	-86.9
15-8	43 16'23"	116 08'11"	3344	1181.4	-91.6
16-0	43 20'54"	116 06'30"	3133	1179.4	-113.0
16-1	43 20'34.5"	116 10'11"	3107	1186.6	-106.9
16-2	43 21'27.5"	116 10'29"	3070	1188.2	-108.8
16-3	43 22'18.5"	116 11'36"	2972	1195.4	-108.8
16-4	43 21'27"	116 11'41"	3029	1192.6	-106.9

Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
16-5	43 20'35"	116 11'41"	3032	1193.8	-104.2
16-6	43 18'52.5"	116 11'21"	3168	1191.3	-96.0
16-7	43 17'00.5"	116 11'16"	3255	1189.8	-89.4
17-8	43 21'24.5"	116 07'32"	3105	1182.1	-112.7
1 9	43 18'47"	116 01'19"	3149	1170.2	-118.0
18-2	43 14'38"	116 00'56"	3094	1198.7	-86.6
18-3	43 14'02"	116 01'01"	3090	1202.6	-82.1
18-4	43 13'31"	116 00'54"	3169	1195.0	-84.1
18-5	43 12'01"	116 01'01"	3073	1208.2	-74.5
18-6	43 11'24.5"	116 00'59"	3065	1208.6	-73.7
18-7	43 09'43"	116 00'52"	3214	1198.2	-72.6
18-8	43 08'31"	116 01'02"	3104	1203.3	-72.3
18-9	43 08'10"	116 01'58"	3074	1203.6	-73.2
18-10	43 08'35.5"	116 02'40"	3072	1202.8	-74.9
18-11	43 09'58"	116 02'35"	3077	1210.3	-69.1
18-12	43 10'49.5"	116 02'09"	3064	1210.5	-70.9
18-13	43 12'46"	116 01'27"	3081	1205.9	-77.4
18-14	43 12'33.5"	116 02'11"	3084	1206.8	-76.0
18-15	43 12'53.5"	116 03'25"	3148	1202.4	-77.1
18-16	43 12'53.5"	116 04'35"	3187	1201.2	-75.9
18-17	43 12'53.5"	116 05'47"	3256	1196.4	-76.6
18-18	43 13'16"	116 06'32"	3285	1193.5	-78.3
18-19	43 11'39.5"	116 05'57"	3182	1202.1	-73.5
18-20	43 10'15.5"	116 05'48"	3085	1205.6	-73.7
18-21	43 09'25"	116 05'45"	3026	1208.9	-72.7
18-22	43 09'00"	116 04'24"	3040	1205.6	-74.6

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[illegible]	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
[illegible]	43 14'37.5"	116 02'14"	3138	1190.4	-84.3
[illegible]-0	43 17'00.5"	116 05' [illegible]"	3216	1182.2	-99.5
[illegible]-1	43 15'30"	116 07'00"	3303	1184.4	-89.7
[illegible]-2	43 13'56"	116 08'56"	3310	1190.9	-80.5
[illegible]-3	43 12'02"	116 08'10"	3206	1203.9	-70.8
[illegible]-4	43 11'26.5"	116 09'27"	3187	1204.0	-71.0
[illegible]-5	43 10'44"	116 09'54"	3138	1204.9	-72.0
19-6	43 10'19.5"	116 08'48"	3127	1204.6	-72.3
19-7	43 10'04.5"	116 08'10"	3094	1206.6	-71.9
19-[illegible]	43 09'30"	116 06'42"	3055	1203.5	-71.5
19-9	[illegible]	[illegible]	3127	1205.4	-70.8
19-10	43 08'51"	116 08'21"	3097	1204.3	-73.2
19-[illegible]	43 08'32"	116 08'40"	2979	1211.4	-71.7
19-[illegible]	43 08'01"	116 08'40"	2966	1212.1	-71.0
[illegible]-[illegible]	43 07'40"	116 08'30"	2955	1200.3	-74.0
[illegible]-[illegible]	43 08'32"	116 08'10"	3006	1206.0	-75.5
[illegible]-[illegible]	43 07'39.5"	116 08'31"	3014	1204.9	-75.2
[illegible]-[illegible]	43 06'46.5"	116 09'12"	3046	1203.7	-75.8
[illegible]-[illegible]	43 [illegible]'01"	116 09'[illegible]"	3028	1206.0	-74.9
[illegible]-[illegible]	43 [illegible]'19.5"	116 09'16"	3053	1196.2	-84.9
[illegible]-[illegible]	43 [illegible]'[illegible]"	116 09'19"	3047	1199.4	-81.8
[illegible]-[illegible]	43 [illegible]'49.5"	116 09'19"	3011	1194.8	-76.4
[illegible]-[illegible]	43 13'20"	116 09'19"	3286	1196.8	-75.3
[illegible]-24	43 12'54"	116 09'[illegible]"	3268	1198.8	-73.5
[illegible]-[illegible]	43 [illegible]'02"	116 10'30"	3163	1204.2	-71.6
[illegible]-[illegible]	43 [illegible]'21.5"	116 10'[illegible]"	3019	1209.7	-72.3

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
19-27	43 08'05.5"	116 10'22"	2990	1204.3	-77.5
19-28	43 07'37"	116 10'29"	2921	1205.5	-79.7
19-29	43 08'29.5"	116 10'29"	2996	1205.5	-76.5
19-30	43 10'13"	116 10'29"	3105	1206.6	-71.5
20-0	43 16'32"	116 08'56"	3349	1182.0	-90.9
20-1	43 15'23.5"	116 10'29"	3306	1189.7	-85.6
20-2	43 15'21.5"	116 11'25"	3351	1185.5	-85.5
20-3	43 14'39"	116 11'41"	3283	1196.0	-78.0
20-4	43 12'54"	116 11'41"	3241	1199.8	-74.1
20-6	43 12'08.5"	116 11'56"	3155	1207.4	-69.0
20-7	43 11'00"	116 12'53"	3153	1205.2	-71.3
20-8	43 11'04.5"	116 13'05"	3151	1204.6	-72.0
20-9	43 10'13.5"	116 14'03"	3065	1201.6	-78.9
20-10	43 09'30.5"	116 12'20"	3044	1205.7	-74.9
20-11	43 10'13.5"	116 11'40"	3089	1206.8	-72.2
20-12	43 08'29.5"	116 13'27"	3003	1199.2	-82.4
20-13	43 07'37"	116 12'52"	2937	1200.3	-83.9
20-14	43 11'05.5"	116 14'03"	3117	1203.4	-75.3
20-15	43 12'02"	116 14'04"	3453	1185.1	-74.8
20-16	43 12'54"	116 14'04"	3421	1188.4	-74.7
21-0	43 31'03"	116 23'35"	2680	1232.3	-102.6
22-0	43 22'35"	116 24'42"	3120	1207.4	-88.2
23-0	43 20'03"	116 24'42"	2910	1219.0	-85.4
24-0	43 14'20"	116 22'01"	3018	1204.1	-85.3
24-1	43 14'27.5"	116 21'10"	3014	1208.8	-81.1
24-2	43 14'15"	116 19'26"	3095	1206.6	-78.1

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
24-3	43 14'29.5"	116 18'09"	3160	1205.1	-76.1
24-4	43 14'43"	116 16'26"	3177	1205.7	-74.7
24-5	43 14'38.5"	116 15'15"	3191	1204.7	-74.9
24-6	43 13'22"	116 15'27"	3201	1204.9	-72.1
24-7	43 12'53.5"	116 15'27"	3163	1206.5	-72.1
24-8	43 12'53.5"	116 16'25"	3135	1208.1	-72.2
24-9	43 13'35.5"	116 16'25"	3158	1208.3	-71.6
24-10	43 12'43"	116 17'24"	3101	1208.6	-73.4
24-11	43 12'05"	116 16'25"	3072	1207.2	-75.6
24-12	43 11'43"	116 15'20"	3063	1207.5	-75.4
24-13	43 11'06"	116 16'[illegible]"	2996	1206.7	-79.2
24-14	43 11'50.5"	116 17'41"	3011	1208.9	-77.2
24-15	43 12'43"	116 19'10"	3055	1206.1	-78.7
24-16	43 11'51"	116 19'[illegible]	3019	1203.0	-82.7
24-18	43 12'47.5"	116 20'54"	3007	1205.9	-81.9
24-19	43 13'35"	116 21'29"	3006	1206.1	-83.0
24-20	43 14'59.5"	116 22'10"	2953	1208.7	-85.3
24-21	43 15'31"	116 21'55"	2954	1212.0	-83.1
24-22	43 15'26"	116 21'09"	3007	1209.6	-82.1
24-23	43 16'19.5"	116 19'34"	3048	1208.5	-82.2
24-24	43 16'44.5"	116 18'48"	3060	1208.7	-81.9
24-25	43 15'59.5"	116 18'48"	3093	1206.8	-80.6
24-26	43 16'53.5"	116 16'22"	3131	1205.3	-81.2
24-27	43 16'[illegible]2"	116 16'24"	3164	1203.9	-79.6
24-28	43 16'3[illegible]"	116 15'21"	3254	1196.7	-81.8
24-29	43 16'31"	116 13'48"	3273	1196.3	-81.2

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
24-30	43 16'11"	116 12'31"	3282	1195.3	-81.1
24-32	43 17'53"	116 12'36"	3261	1189.5	-90.7
24-33	43 16'56.5"	116 12'40"	3497	1175.5	-89.1
24-34	43 17'58"	116 17'05"	3079	1207.4	-83.9
24-35	43 17'58.5"	116 18'52"	2982	1214.1	-83.0
24-36	43 17'53"	116 20'18"	2976	1211.7	-85.8
24-37	43 17'58"	116 21'10"	2910	1215.5	-85.9
24-38	43 17'10"	116 21'15"	2935	1211.1	-84.6
24-39	43 18'47"	116 20'40"	2890	1216.9	-86.9
24-40	43 20'01.5"	116 20'18"	2889	1215.2	-90.5
24-41	43 19'29.5"	116 18'25"	2946	1212.9	-88.6
24-42	43 18'55"	116 17'10"	3062	1206.1	-87.6
24-43	43 18'41.5"	116 15'56"	3137	1201.0	-87.9
24-44	43 17'59"	116 15'16"	3178	1199.6	-85.8
24-45	43 17'29.5"	116 14'17"	3269	1192.3	-86.9
24-46	43 17'51.5"	116 14'04"	3163	1196.5	-91.0
24-47	43 19'26.5"	116 12'58"	3129	1194.8	-95.7
24-48	43 20'13.5"	116 13'08"	3092	1195.0	-98.8
24-49	43 21'02"	116 13'31"	3010	1199.0	-101.0
24-50	43 22'01.5"	116 13'40"	2932	1202.4	-103.8
24-51	43 20'09.5"	116 14'23"	3129	1197.6	-93.9
24-52	43 19'42.5"	116 15'01"	3050	1205.1	-90.5
24-53	43 19'36.5"	116 16'20"	3052	1205.9	-89.4
24-54	43 20'35"	116 16'28"	3010	1207.6	-91.8
24-55	43 21'01"	116 17'28"	2959	1211.7	-91.3
24-56	43 21'22"	116 18'46"	2889	1214.8	-93.0

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[illegible]	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
[illegible]	43 21'23.5"	116 19'54"	2870	1215.6	-93.4
[illegible]	43 11'07.5"	116 19'45"	2924	1205.7	-84.6
[illegible]	43 32'46.5"	116 13'30"	2867	1210.4	-115.8
[illegible]	43 [illegible]'30"	116 15'02"	3082	1197.6	-111.4
[illegible]	43 29'20.5"	116 15'35"	2910	1209.0	-109.5
[illegible]	43 29'06.5"	116 16'20"	2881	1212.1	-108.6
[illegible]	43 28'07"	116 18'11"	2912	1207.7	-109.6
[illegible]	43 27'09"	116 18'24"	2893	1207.1	-109.8
[illegible]	[illegible] 27'33"	116 17'30"	2837	1212.6	-107.6
[illegible]	43 27'05.5"	116 16'48"	2789	1216.7	-106.4
[illegible]	43 27'03.5"	116 21'01"	2787	1218.0	-105.1
[illegible]	43 27'01.5"	116 21'12"	2762	1221.1	-103.5
[illegible]	43 [illegible]'27"	116 22'25"	2721	1221.[illegible]	-102.9
[illegible]	43 [illegible]'20"	116 21'12"	2751	1221.6	-105.1
[illegible]	43 [illegible]'10.5"	116 22'24"	2725	1225.2	-104.3
[illegible]	43 [illegible]'12"	116 21'11"	2777	1220.3	-106.0
[illegible]	43 [illegible]'09"	116 20'00"	2813	1217.6	-107.2
[illegible]	43 [illegible]'[illegible]"	116 [illegible]'40"	2827	1215.5	-107.9
[illegible]	43 [illegible]'20.5"	116 16'12"	2848	1213.0	-107.8
[illegible]	43 28'40"	116 14'03"	2952	1200.2	-111.8
[illegible]	43 26'42"	116 15'12"	2916	1203.6	-110.6
[illegible]	43 [illegible]'40.5"	116 15'27"	2883	1205.1	-109.7
[illegible]	43 26'07"	116 16'12"	2856	1208.3	-108.5
[illegible]	43 26'13"	116 17'[illegible]"	2824	1211.5	-107.5
[illegible]	43 26'41.5"	116 18'47"	2801	1215.3	-105.7
[illegible]	43 26'42.5"	116 19'56"	2772	1218.9	-103.9

Location	Latitude	Longitude	Elev.	Observed gravit.	Bouguer g.
27-7	43 26'41.5"	116 21'10"	2791	1217.8	-103.9
27-8	43 27'07"	116 22'23"	2803	1217.6	-104.0
27-9	43 26'14.5"	116 22'23"	2791	1218.5	-102.5
27-10	43 25'30"	116 19'59"	2816	1215.6	-102.7
27-12	43 27'02.5"	116 15'12"	2939	1202.7	-111.3
27-13	43 26'19"	116 14'01"	2919	1201.8	-107.1
27-14	43 25'44"	116 15'12"	2886	1207.7	-102.3
27-15	43 25'10.5"	116 17'00"	2854	1211.4	-101.2
27-16	43 25'37"	116 16'25"	2858	1208.7	-104.3
27-17	43 25'37"	116 15'12"	2888	1204.8	-106.4
27-18	43 25'30.5"	116 15'11"	2891	1204.4	-108.6
27-19	43 24'56"	116 16'25"	2861	1207.3	-107.5
27-20	43 24'05"	116 16'12"	2828	1212.9	-102.6
27-21	43 24'55.5"	116 16'47"	2802	1215.2	-103.1
27-22	43 25'48.5"	116 18'48"	2806	1214.5	-105.0
27-23	43 24'29.5"	116 19'59"	2834	1213.9	-101.8
27-24	43 23'33"	116 19'58"	2857	1214.3	-98.7
27-25	43 22'43"	116 19'58"	2883	1213.1	-97.0
27-26	43 22'43"	116 21'12"	2937	1211.7	-95.2
27-27	43 22'43"	116 22'24"	3032	1206.7	-94.6
27-28	43 24'30"	116 22'23"	2903	1213.4	-98.2
28-0	43 27'30"	116 34'19"	2723	1233.6	-93.3
28-1	43 26'41.5"	116 33'09"	2663	1236.1	-93.2
28-2	43 25'49.5"	116 34'19"	2663	1233.2	-94.9
28-3	43 24'57"	116 33'09"	2661	1233.6	-93.2
28-4	43 24'04.5"	116 34'20"	2654	1229.6	-96.3

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer G.
20-5	43 23'12.5"	116 35'33"	2803	1214.1	-101.6
20-6	43 23'12.5"	116 36'36"	2707	1216.9	-104.5
20-7	43 24'05"	116 36'44"	2776	1217.0	-101.7
20-8	43 24'57.5"	116 36'43"	2792	1219.6	-99.4
20-9	43 24'57.5"	116 35'32"	2771	1224.2	-96.1
20-10	43 23'12.5"	116 38'09"	2619	1231.1	-95.6
20-11	43 23'12.5"	116 38'45"	2714	1230.7	-90.4
20-12	43 24'04.5"	116 38'45"	2711	1229.5	-93.0
20-13	43 24'04.5"	116 37'57"	2678	1232.1	-92.4
20-14	43 24'5."	116 38'45"	2711	1229.8	-94.0
20-15	43 25'09.5"	116 38'45"	2677	1221.5	-93.7
20-16	43 26'30"	116 38'47"	2799	1229.6	-91.2
20-17	43 27'38.5"	116 38'45"	2655	1240.0	-91.1
20-18	43 28'26.5"	116 38'45"	2663	1239.5	-92.4
20-19	43 28'26.5"	116 38'03"	2703	1239.1	-90.5
20-21	43 27'33.5"	116 37'33"	2648	1240.6	-90.9
20-22	43 28'26.5"	116 36'31"	2600	1242.1	-93.6
20-23	43 28'42"	116 36'32"	2674	1231.1	-97.5
20-24	43 27'34"	116 36'42"	2683	1230.0	-99.4
20-25	43 27'03"	116 38'12"	2724	1223.2	-103.1
20-26	43 25'49"	116 37'58"	2689	1223.7	-102.7
20-27	43 24'57"	116 37'56"	2680	1222.7	-103.0
20-28	43 25'03"	116 38'39"	2681	1221.1	-105.3
20-29	43 24'57"	116 39'07"	2718	1215.1	-108.3
20-30	43 23'59"	116 39'53"	2757	1205.3	-114.3
20-31	43 25'49.5"	116 41'08"	2694	1214.8	-111.4

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[illegible]	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
-32	43 28'31"	116 41'24"	2697	1216.1	-110.9
28-33	43 28'59"	116 42'17"	2716	1215.8	-110.8
28-34	43 27'39"	116 41'39"	2803	1211.8	-110.6
28-35	43 28'26"	116 39'53"	2717	1218.6	-107.1
28-36	43 28'00"	116 39'07"	2747	1223.0	-103.2
28-37	43 28'25.5"	116 40'19"	2860	1212.9	-107.2
28-38	43 28'24.5"	116 42'43"	2703	1220.8	-108.7
28-39	43 28'24"	116 43'54"	2656	1222.6	-109.7
28-40	43 29'49.5"	116 43'27"	2698	1222.4	-108.9
28-41	43 29'49.5"	116 43'27"	2519	1238.8	-103.8
28-44	43 30'09.5"	116 41'31"	2782	1224.5	-102.9
28-45	43 29'17.5"	116 41'31"	2862	1215.7	-105.6
28-46	43 29'10"	116 40'18"	2734	1225.8	-103.2
28-47	43 29'18"	116 39'07"	2675	1231.6	-101.0
28-48	43 29'18.5"	116 37'55"	2598	1239.4	-97.8
28-49	43 29'18.5"	116 36'42"	2580	1241.7	-96.5
29-0	43 32'51"	116 35'31"	2535	1251.2	-95.0
29-1	43 32'50"	116 33'43"	2509	1253.4	-94.4
29-2	43 33'42"	116 33'06"	2506	1255.1	-94.1
29-3	43 33'41.5"	116 30'42"	2534	1254.4	-93.2
29-5	43 32'49.5"	116 31'55"	2513	1253.3	-94.3
29-6	43 31'55.5"	116 30'43"	2545	1248.5	-95.8
29-7	43 31'03"	116 31'55"	2584	1247.2	-93.4
29-8	43 30'10.5"	116 30'43"	2607	1244.7	-93.2
29-9	43 29'18.5"	116 31'55"	2610	1244.8	-91.7
29-10	43 30'10.5"	116 33'07"	2571	1248.2	-91.8

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
29-11	43 31'55.5"	116 33'07"	2519	1252.7	-93.1
29-12	43 33'42"	116 35'31"	2480	1255.7	-95.1
29-13	43 34'34"	116 36'43"	2458	1257.9	-95.6
29-14	43 34'08"	116 37'55"	2490	1254.9	-96.0
29-15	43 35'26"	116 37'55"	2451	1259.7	-95.5
29-16	43 37'10"	116 37'55"	2436	1265.8	-92.9
29-17	43 36'18"	116 39'07"	2444	1261.8	-95.1
29-18	43 37'08"	116 40'18"	2432	1264.4	-94.5
29-19	43 36'15.5"	116 41'32"	2599	1249.3	-98.3
29-20	43 36'50"	116 42'43"	2515	1254.5	-98.9
29-21	43 37'05"	116 44'53"	2509	1253.1	-101.0
29-22	43 36'14.5"	116 43'55"	2502	1252.3	-101.0
29-23	43 35'20"	116 44'43"	2506	1249.7	-102.0
29-24	43 35'41"	116 42'43"	2550	1249.9	-99.7
29-25	43 35'23.5"	116 40'55"	2561	1251.5	-97.0
29-26	43 34'31.5"	116 40'20"	2637	1244.8	-97.8
29-27	43 34'59"	116 39'07"	2463	1257.6	-96.2
29-28	43 33'14.5"	116 38'27"	2554	1249.4	-96.3
29-29	43 32'57"	116 36'43"	2540	1250.5	-95.5
29-30	43 31'56"	116 35'31"	2577	1247.1	-95.2
29-31	43 31'03"	116 34'18"	2534	1251.2	-92.4
29-32	43 30'11"	116 35'31"	2543	1248.5	-93.3
29-33	43 30'37"	116 36'42"	2547	1248.1	-94.1
29-34	43 31'03.5"	116 37'55"	2589	1245.2	-95.1
29-35	43 30'10.5"	116 39'07"	2765	1229.9	-98.6
29-36	43 31'02.5"	116 40'20"	2755	1232.4	-97.9

[illegible]	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
[illegible]	43 31'01"	116 42'43"	2679	1231.3	-103.6
[illegible]	43 30'08.5"	116 44'18"	2419	1245.3	-103.9
[illegible]	43 30'08"	116 45'22"	2308	1248.7	-107.1
[illegible]	43 31'00"	116 45'23"	2310	1250.9	-106.1
[illegible]	43 30'58"	116 46'54"	2238	1252.7	-108.6
[illegible]	43 31'52.5"	116 45'23"	2324	1253.8	-103.6
29-43	43 32'43.5"	116 46'18"	2367	1252.9	-103.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29-45	43 34'27.5"	116 46'17"	2652	1235.3	-106.4
29-46	43 34'05"	116 44'31"	2537	1245.6	-102.4
29-47	43 32'44"	116 44'31"	2537	1239.7	-103.3
29-48	43 32'45"	116 42'43"	2548	1244.5	-100.8
29-49	43 31'55"	116 41'30"	2596	1242.0	-99.2
29-50	43 31'56"	116 39'18"	2532	1249.8	-95.3
29-52	43 29'19"	116 34'19"	2621	1244.8	-91.0
30-0	43 39'48"	116 36'44"	2426	1277.9	-85.3
30-1	43 40'27"	116 35'32"	2416	1279.4	-85.4
30-2	43 39'48.5"	116 34'21"	2436	1277.5	-85.2
30-3	43 40'14"	116 33'00"	2464	1275.2	-86.4
30-4	43 39'48"	116 31'55"	2479	1273.5	-86.6
[illegible]	43 40'14"	116 30'43"	2494	1272.0	-87.8
30-7	43 38'56"	116 30'44"	2492	1273.1	-84.8
[illegible]	43 38'03.5"	116 31'55"	2481	1270.6	-86.7
30-9	43 38'03.5"	116 33'44"	2458	1270.4	-88.3
30-10	43 38'03"	116 36'44"	2439	1270.3	-89.5
30-11	43 38'57"	116 35'26"	2441	1274.4	-86.6

Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
30-12	43 38'56"	116 33'08"	2459	1273.7	-86.2
30-13	43 41'32"	116 36'44"	2397	1282.7	-84.8
30-14	43 43'03.5"	116 37'00"	2465	1276.8	-89.0
30-15	43 42'39"	116 35'30"	2410	1279.3	-89.2
30-16	43 41'32.5"	116 34'18"	2420	1278.5	-87.7
30-17	43 41'59.5"	116 33'07"	2436	1275.0	-90.9
30-18	43 41'32.5"	116 31'50"	2442	1274.1	-90.8
30-19	43 41'32.5"	116 30'12"	2461	1271.6	-92.1
30-20	43 42'20"	116 30'42"	2457	1270.0	-95.3
30-21	43 44'09.5"	116 30'42"	2599	1256.1	-103.3
30-23	43 37'11"	116 33'08"	2466	1267.4	-89.5
30-24	43 37'11"	116 35'32"	2456	1266.6	-90.9
30-25	43 36'19"	116 36'43"	2452	1262.9	-93.5
30-26	43 35'26"	116 35'31"	2468	1260.4	-93.7
30-27	43 34'58.5"	116 34'18"	2481	1259.2	-93.5
30-28	43 35'36.5"	116 32'39"	2516	1260.2	-91.4
30-29	43 36'38.5"	116 31'55"	2486	1265.5	-89.4
30-30	43 36'19"	116 30'43"	2408	1266.1	-87.0
30-31	43 35'13.5"	116 30'43"	2569	1257.8	-90.0
30-32	43 34'33"	116 30'09"	2559	1256.5	-90.9
30-33	43 34'33.5"	116 31'55"	2511	1258.1	-92.2
30-34	43 36'20"	116 34'08"	2462	1264.2	-91.7
30-35	43 36'01"	116 38'37"	2409	1270.6	-91.0
30-36	43 38'37"	116 39'29"	2397	1273.0	-90.2
30-37	43 39'13"	116 40'28"	2402	1273.9	-89.9
30-38	43 40'03"	116 41'12"	2369	1278.6	-88.5

Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
30-39	43 39'05"	116 43'55"	2397	1268.4	-95.5
30-40	43 38'26"	116 45'06"	2472	1259.1	-99.3
30-41	43 38'00.5"	116 42'07"	2456	1263.1	-95.6
30-42	43 37'32"	116 43'55"	2519	1254.9	-99.4
30-43	43 37'03.5"	116 47'30"	2503	1250.5	-104.0
30-44	43 37'03"	116 50'06"	2651	1237.1	-108.5
30-45	43 37'05"	116 52'14"	2408	1252.3	-100.0
30-46	43 36'11"	116 51'12"	2390	1252.0	-107.9
30-47	43 36'11"	116 48'40"	2431	1251.6	-105.9
30-48	43 35'19"	116 49'33"	2233	1262.1	-106.0
30-49	43 35'19"	116 47'29"	2402	1253.3	-104.6
30-50	43 34'01"	116 47'29"	2348	1253.8	-105.4
30-53	43 35'45.5"	116 45'42"	2522	1248.3	-103.2
30-54	43 36'11.5"	116 46'53"	2532	1247.2	-104.2
30-55	43 44'00"	116 36'42"	2454	1274.8	-93.3
30-56	43 44'00"	116 35'30"	2511	1268.7	-95.9
30-57	43 44'00"	116 34'17"	2555	1263.7	-98.3
30-58	43 44'00.5"	116 33'07"	2583	1259.8	-100.6
30-59	43 44'00"	116 31'55"	2626	1255.3	-102.5
30-60	43 44'00"	116 37'54"	2461	1276.5	-91.2
30-61	43 44'00"	116 39'04"	2436	1281.2	-88.0
30-62	43 45'00"	116 39'04"	2465	1277.3	-91.4
30-63	43 45'00"	116 40'18"	2493	1278./	-88.9
30-64	43 45'00.5"	116 42'06"	2462	1284.3	-84.6
30-65	43 44'57"	116 45'08"	2392	1293.3	-79.7
30-66	43 44'00"	116 45 08"	2370	1292.2	-80.9

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
30-67	43 43'13"	116 43'54"	2372	1288.4	-83.2
30-68	43 44'07.5"	116 42'42"	2453	1285.5	-82.6
30-69	43 43'14"	116 41'38"	2471	1281.5	-84.2
30-70	43 44'07.5"	116 40'54"	2423	1285.0	-84.9
30-71	43 43'15"	116 38'29"	2447	1280.1	-87.0
30-72	43 42'22.5"	116 39'43"	2382	1285.7	-84.0
30-73	43 41'20"	116 41'12"	2366	1283.7	-85.4
30-74	43 41'54.5"	116 43'19"	2344	1284.8	-86.6
30-75	43 42'30.5"	116 45'07"	2333	1286.1	-86.8
30-76	43 43'10"	116 46'56"	2314	1287.8	-87.2
30-77	43 43'52"	116 49'00"	2303	1287.2	-89.6
30-78	43 44'21.5"	116 50'38"	2287	1286.1	-92.3
30-79	43 44'43"	116 57'44"	2279	1285.3	-94.2
30-80	43 45'58"	116 53'24"	2245	1285.7	-97.7
30-81	43 46'40"	116 55'44"	2236	1285.9	-99.0
30-82	43 44'31"	116 56'27"	2270	1276.8	-102.9
30-83	43 43'11.5"	116 55'51"	2407	1264.3	-105.1
30-84	43 41'26"	116 55'52"	2413	1256.6	-109.8
30-85	43 39'41"	116 55'51"	2286	1260.7	-110.8
30-86	43 37'56.5"	116 55'51"	2272	1258.7	-111.0
30-87	43 40'08.5"	116 53'27"	2439	1256.2	-106.7
30-88	43 39'19.5"	116 51'05"	2485	1255.2	-103.7
30-89	43 39'04.5"	116 46'54"	2448	1260.8	-100.0
30-90	43 46'40"	116 47'34"	2415	1295.0	-79.2
30-91	43 50'00"	116 50'26"	2765	1271.3	-86.9
30-92	43 49'18"	116 56'04"	2455	1279.9	-95.9

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
30-93	43 54'34"	116 56'30"	2290	1303.4	-90.2
30-94	43 57'22"	116 56'10"	2430	1291.6	-97.8
30-95	43 59'46"	116 53'34"	2235	1308.7	-95.9
30-96	43 57'08"	116 48'42"	2275	1302.7	-95.7
30-97	43 56'44"	116 41'30"	2320	1295.6	-99.4
30-98	43 54'32"	116 47'34"	2440	1291.1	-93.4
30-99	43 47'[illegible]"	116 41'30"	2525	1275.3	-93.7
31-0	43 37'10"	116 27'09"	2547	1270.5	-81.5
32-0	43 32'56.5"	116 47'28"	2267	1257.8	-104.7
32-1	43 33'35.5"	116 48'40"	2246	1257.8	-107.0
32-2	43 34'33.5"	116 50'28"	2259	1257.8	-107.6
32-3	43 34'57"	116 52'13"	2251	1258.4	-108.1
32-4	43 33'36"	116 51'04"	2300	1254.5	-107.0
32-5	43 32'43.5"	116 49'52"	2298	1251.6	-108.7
32-6	43 32'43"	116 52'13"	2321	1251.7	-107.2
32-7	43 31'52"	116 51'02"	2337	1246.3	-110.3
32-8	43 30'33"	116 51'19"	2394	1242.9	-108.4
32-9	43 28'54.5"	116 51'38"	2665	1224.3	-108.2
32-10	43 27'47"	116 51'53"	2743	1221.0	-105.1
32-11	43 26'12"	116 51'00"	3065	1194.6	-109.9
32-12	43 25'03"	116 51'12"	3691	1151.5	-113.7
32-13	43 24'11.5"	116 52'17"	3717	1144.4	-117.9
32-14	43 26'37.5"	116 46'51"	2384	1238.4	-107.6
32-15	43 26'38"	116 48'38"	2581	1229.0	-105.2
32-16	43 27'36"	116 45'59"	2278	1245.2	-108.6
32-17	43 28'30.5"	116 46'58"	2438	1232.1	-113.5

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
32-18	43 29'31"	116 47'39"	2348	1241.2	-111.2
32-19	43 30'09.5"	116 48'31"	2543	1228.9	-112.8
32-20	43 31'00"	116 49'49"	2397	1238.5	-113.3
32-21	43 31'52.5"	116 48'38"	2312	1249.1	-109.0 109.1
33-0	42 59'23"	116 05'32"	2367	1202.4	-103.8
33-1	43 00'18.5"	116 04'35"	2418	1204.5	-99.8
33-2	43 01'37.5"	116 04'19"	2521	1204.9	-95.3
33-3	43 01'42.5"	116 03'20"	2770	1189.1	-96.2
33-4	43 02'10.5"	116 01'44"	2888	1185.5	-93.5
33-6	43 03'05.5"	116 01'10"	2894	1192.1	-87.9
33-7	43 04'24.5"	116 01'04"	2956	1197.0	-81.2
33-8	43 05'08.5"	116 01'48"	2968	1199.7	-79.0
33-9	43 05'30.5"	116 02'36"	2972	1202.4	-76.6
33-10	43 05'48.5"	116 03'43"	2943	1206.1	-75.1
33-11	43 06'34.5"	116 03'28"	2998	1208.3	-70.7
33-12	43 07'30"	116 03'02"	3061	1201.3	-75.3
33-13	43 07'59.5"	116 04'19"	3046	1204.0	-74.3
33-14	43 07'04"	116 04'29"	3028	1205.3	-72.7
33-15	43 06'05"	116 04'46"	2932	1206.6	-75.6
33-16	43 06'33"	116 06'36"	2927	1204.8	-78.4
33-17	43 05'21"	116 07'22"	2883	1203.0	-81.1
33-18	43 05'24"	116 06'19"	2898	1203.1	-80.2
33-19	43 04'34"	116 05'42"	2918	1199.9	-80.9
33-20	43 04'11.5"	116 04'02"	2916	1198.9	-81.5
33-21	43 03'08"	116 04'05"	2866	1192.7	-89.1
33-22	43 02'28.5"	116 03'24"	2835	1192.0	-90.7

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
33-23	43 00'58.5"	116 02'12"	2798	1182.1	-100.5
33-24	43 00'09.5"	116 02'35"	2517	1195.4	-102.8
33-25	43 00'44.5"	116 05'47"	2404	1208.1	-97.8
33-26	43 00'44"	116 06'48"	2362	1209.8	-98.6
33-27	43 01'36"	116 06'58"	2396	1212.7	-95.0
33-28	43 02'28"	116 06'58"	2438	1215.0	-91.4
33-29	43 03'21"	116 07'12"	2582	1211.2	-88.0
33-30	43 01'36.5"	116 05'47"	2429	1211.0	-94.7
33-31	42 58'18"	116 04'35"	2450	1188.9	-110.6
33-32	42 57'16"	116 04'34"	2497	1179.2	-115.9
33-33	42 55'46"	116 04'34"	2579	1165.3	-122.6
33-34	42 54'20"	116 04'33"	2635	1156.1	-126.4
33-35	42 53'00"	116 04'48"	2724	1149.6	-125.5
33-36	42 54'07.5"	116 02'04"	2642	1157.8	-123.9
33-37	42 55'13"	116 02'47"	2553	1165.2	-123.5
33-38	42 56'22.5"	116 03'23"	2571	1168.3	-121.0
33-39	42 56'22.5"	116 02'11"	2509	1171.7	-121.3
33-40	42 55'41"	116 00'08"	2527	1168.3	-122.6
33-41	42 55'24"	115 58'37"	2531	1167.8	-122.4
33-43	42 55'36.5"	115 56'48"	2593	1169.0	-117.9
33-44	42 56'05"	115 57'15"	2490	1177.6	-116.1
33-45	42 56'53"	116 00'24"	2377	1185.4	-116.3
33-46	42 57'11"	116 01'24"	2400	1184.7	-116.1
33-47	42 57'37"	116 02'26"	2402	1186.4	-115.0
33-48	42 58'05.5"	116 03'21"	2399	1190.6	-111.7
33-49	43 02'27"	116 08'46"	2387	1215.6	-93.8

Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
33-50	43 04'11"	116 08'10"	2855	1195.2	-88.8
33-51	43 03'36"	116 09'13"	2811	1191.2	-94.6
33-52	43 04'47"	116 09'42"	2847	1197.0	-88.3
33-53	43 05'52.5"	116 09'49"	2828	1204.7	-83.5
33-54	43 06'59.5"	116 09'16"	2869	1209.0	-78.4
33-56	43 06'55.5"	116 11'22"	2903	1202.1	-83.1
33-57	43 06'45"	116 12'15"	2899	1200.0	-85.3
33-58	43 07'06"	116 13'22"	2908	1199.4	-85.8
33-60	43 09'21.5"	116 15'14"	2990	1204.0	-79.7
33-61	43 10'13.5"	116 16'26"	2936	1206.9	-81.3
33-62	43 09'50.5"	116 17'53"	2837	1207.1	-86.5
33-63	43 04'11"	116 06'58"	2950	1190.6	-87.7
33-64	42 57'07"	116 05'48"	2602	1172.6	-116.0
33-65	42 56'16"	116 06'30"	2572	1168.3	-120.9
33-66	42 55'26"	116 06'04"	2594	1162.1	-124.4
33-67	42 57'04.5"	116 07'15"	2594	1171.9	-117.1
33-68	42 56'46"	116 08'56"	2872	1149.5	-122.4
33-69	42 58'05"	116 07'00"	2492	1185.0	-111.6
33-70	42 57'57"	116 05'39"	2581	1178.4	-112.7
33-71	42 59'50.5"	116 06'20"	2367	1204.9	-101.9
33-72	42 58'28"	116 09'48"	2560	1179.3	-113.8
33-73	42 58'24"	116 11'10"	2746	1163.5	-118.4
33-74	42 57'36"	116 12'08"	2856	1151.4	-122.7
33-75	42 56'57"	116 12'32"	2917	1143.6	-125.8
33-76	42 56'09"	116 12'55"	3022	1132.5	-129.4
33-77	42 55'21.5"	116 13'27"	3171	1119.1	-132.7

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Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
33-78	42 54'29"	116 13'39"	3272	1111.5	-133.0
33-79	42 53'51.5"	116 14'10"	3335	1107.4	-132.3
33-80	42 59'43"	116 09'25"	2457	1193.4	-107.8
33-81	43 00'43.5"	116 09'18"	2380	1204.6	-102.7
33-82	43 01'35"	116 10'07"	2377	1207.3	-101.5
33-83	43 02'26.5"	116 11'42"	2357	1209.5	-101.8
33-84	43 02'51.5"	116 13'03"	2387	1207.4	-102.7
33-85	43 04'03"	116 12'37"	2376	1215.6	-96.9
33-86	43 02'40"	116 14'36"	2440	1196.4	-110.2
33-87	43 02'42"	116 16'36"	2572	1182.7	-116.1
33-88	43 04'28"	116 17'30"	2456	1199.8	-108.6
33-89	43 06'14.5"	116 17'13"	2392	1216.4	-98.5
33-90	43 07'05.5"	116 17'47"	2327	1223.4	-96.7
33-91	43 07'10.5"	116 18'49"	2352	1218.3	-100.3
33-92	43 05'56.5"	116 18'37"	2511	1203.0	-104.3
33-93	43 04'59"	116 20'00"	2686	1180.5	-114.8
33-94	43 03'58"	116 22'17"	2795	1160.5	-126.7
33-95	43 03'18"	116 23'48"	2828	1154.4	-129.9
33-96	43 01'28.5"	116 23'38"	2799	1150.8	-132.4
33-97	43 01'08.5"	116 21'22"	2725	1155.6	-131.6
33-98	43 00'32.5"	116 19'27"	2639	1163.9	-127.6
33-99	43 02'10"	116 19'01"	2556	1174.7	-124.2
33-100	43 00'24.5"	116 13'38"	2591	1179.5	-114.7
34-0	42 52'51"	115 47'43"	2551	1168.5	-116.8
34-1	42 53'34"	115 46'30"	2972	1142.9	-118.2
34-2	42 54'46.5"	115 45'09"	2579	1183.3	-103.2

Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
34-4	42 54'34"	115 43'00"	2526	1188.4	-101.0
34-6	42 56'27"	115 47'09"	2509	1194.2	-99.0
34-7	42 55'12"	115 46'43"	2672	1175.2	-106.3
34-9	42 51'46"	115 51'48"	2536	1159.8	-124.7
34-10	42 49'49"	115 53'21"	2605	1158.1	-119.3
34-11	42 48'28"	115 54'28"	2661	1157.3	-114.7
34-12	42 46'27"	115 54'41"	2842	1143.8	-114.4
34-13	42 44'38"	115 53'54"	3057	1124.8	-117.7
34-14	42 42'56"	115 54'04"	3376	1096.2	-124.6
34-15	42 41'17"	115 54'12"	3520	1080.0	-129.7
34-16	42 38'07"	115 54'10"	4186	1023.7	-141.3
34-17	42 36'23"	115 54'30"	4539	991.7	-149.6
34-18	42 34'30"	115 53'54"	4717	977.3	-150.5
34-19	42 33'01"	115 53'48"	4753	970.1	-153.3
34-20	42 31'27"	115 54'05"	4984	952.5	-154.7
34-21	42 22'54"	115 53'00"	5070	928.9	-160.3
34-22	--	--	--	867.7	--
34-23	42 14'52"	116 01'24"	5730	876.2	-161.4
34-24	42 12'38"	116 06'36"	5410	890.3	-163.1
34-25	41 50'05"	115 57'46"	5541	823.2	-188.7
35-0	--	--	--	1196.0	--
35-1	42 55'54.5"	115 45'46"	2485	1194.5	-99.3
35-2	42 56'45.5"	115 45'11"	2471	1202.7	-93.2
35-3	42 58'28"	115 45'35"	2672	1200.9	-85.5
35-4	42 59'24"	115 45'45"	3004	1184.1	-83.8
35-5	42 59'22.5"	115 44'08"	3022	1187.1	-79.7

Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
35-6	42 59'22"	115 41'45"	3036	1185.4	-80.5
35-8	42 59'07.5"	115 40'34"	3040	1183.2	-82.2
35-9	42 58'03"	115 39'13"	2867	1191.1	-83.0
35-10	42 58'49"	115 38'00"	3004	1182.8	-84.3
35-11	42 58'04.5"	115 40'35"	2862	1188.8	-85.6
35-12	42 56'53"	115 41'09"	2810	1187.3	-88.6
35-13	42 57'29.5"	115 42'34"	2787	1190.5	-87.5
35-14	42 57'54"	115 44'30"	2718	1195.9	-87.0
35-15	42 55'55"	115 44'50"	2483	1196.6	-97.4
35-16	42 55'26.5"	115 43'02"	2482	1197.0	-96.3
35-17	42 55'26"	115 41'17"	2482	1200.5	-92.7
36-0	42 57'30.5"	115 16'53"	2542	1199.8	-93.1
36-2	42 55'38.5"	115 33'30"	2505	1208.1	-84.1
36-3	42 54'26"	115 33'31"	2592	1197.0	-88.2
36-4	42 53'31.5"	115 33'29"	2625	1190.2	-91.6
36-5	42 52'46"	115 32'42"	2728	1179.0	-95.5
36-6	42 51'53"	115 31'43"	2900	1162.5	-100.4
36-7	42 51'08"	115 31'05"	2816	1165.3	-101.5
36-8	42 50'14.5"	115 30'18"	2865	1155.7	-106.8
36-9	42 49'36"	115 29'20"	2929	1147.8	-109.9
36-10	42 48'22"	115 28'33"	3008	1138.7	-112.4
36-11	42 47'19.5"	115 29'38"	3278	1117.8	-115.5
36-12	42 46'32"	115 29'45"	3426	1104.5	-118.7
36-13	42 47'10"	115 26'46"	2939	1139.3	-114.2
36-14	42 48'53.5"	115 26'56"	2876	1149.9	-109.9
36-15	42 49'47.5"	115 26'54"	2859	1155.6	-106.6

Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
36-44	42 52'53"	115 26'46"	2893	1175.8	-88.9
36-45	42 52'06.5"	115 26'33"	2891	1170.8	-93.0
36-46	42 50'51.5"	115 25'05"	2839	1164.4	-100.6
36-47	42 51'05.5"	115 26'46"	2853	1165.4	-99.0
36-48	42 48'07.5"	115 26'40"	2885	1148.1	-110.0
36-49	42 45'52.5"	115 28'00"	3219	1114.9	-119.8
36-50	42 45'23.5"	115 27'00"	3258	1110.8	-120.8
36-51	42 46'38.5"	115 24'53"	3088	1127.9	-115.9
36-52	42 46'19.5"	115 24'01"	3089	1127.8	-115.4
36-53	42 45'57.5"	115 23'01"	3081	1126.6	-116.5
36-54	42 45'11"	115 22'40"	3098	1121.0	-119.9
36-55	42 45'00.5"	115 21'23"	3173	1115.4	-120.7
36-56	42 45'05"	115 20'18"	3162	1115.4	-121.5
36-57	42 45'40"	115 19'37"	2997	1127.9	-119.8
36-58	42 46'13.5"	115 20'47"	3154	1120.5	-118.6
36-59	42 47'30.5"	115 21'15"	3186	1121.6	-117.5
36-60	42 50'35.5"	115 23'53"	2854	1159.4	-104.3
36-61	42 51'33"	115 24'16"	3126	1147.8	-101.0
36-62	42 52'46"	115 22'36"	3140	1152.7	-97.1
36-63	42 58'02.5"	115 32'46"	2859	1191.8	-82.8
36-64	42 58'56"	115 34'21"	3006	1182.1	-85.0
36-66	42 58'55.5"	115 35'52"	3023	1179.8	-86.2
36-67	42 58'04.5"	115 37'01"	2933	1188.2	-81.9
36-68	42 57'11"	115 35'52"	2889	1189.3	-82.2
36-69	42 58'00.5"	115 35'03"	2862	1194.0	-80.3
36-70	42 59'23"	115 32'51"	2976	1185.2	-84.4

Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
36-16	42 50'30.5"	115 26'57"	2838	1162.4	-102.1
36-17	42 57'03"	115 27'40"	2934	1158.1	-100.9
36-18	42 51'30.5"	115 28'39"	3041	1154.6	-99.3
36-19	42 52'02"	115 29'46"	3104	1153.2	-97.7
36-20	42 52'01.5"	115 30'35"	3093	1152.1	-99.4
36-21	42 52'56"	115 31'55"	2731	1181.1	-93.5
36-22	42 53'39"	115 32'33"	2647	1189.9	-90.8
36-23	42 56'18"	115 30'54"	2491	1211.7	-82.3
36-24	42 55'25.5"	115 34'58"	2485	1208.3	-84.7
36-25	42 55'25.5"	115 36'26"	2505	1205.0	-86.9
36-26	42 55'24.5"	115 38'35"	2709	1188.3	-91.3
36-29	42 53'03.5"	115 34'02"	2552	1191.9	-93.6
36-30	42 51'04"	115 33'07"	2834	1159.8	-105.7
36-31	42 50'00.5"	115 33'05"	2929	1147.3	-111.0
36-32	42 47'27"	115 33'11"	3366	1111.0	-117.2
36-33	42 46'16.5"	115 34'38"	3554	1092.8	-122.4
36-34	42 45'01.5"	115 35'36"	3542	1090.9	-123.2
36-35	42 46'24.5"	115 33'20"	3576	1094.5	-119.6
36-36	42 46'21"	115 32'25"	3534	1097.8	-118.7
36-37	42 45'52.5"	115 31'36"	3492	1098.7	-119.6
36-38	42 45'54.5"	115 30'22"	3504	1097.5	-120.2
36-39	42 56'18"	115 21'08"	2560	1203.6	-86.3
36-40	42 53'59.5"	115 22'34"	3122	1159.5	-93.2
36-41	42 55'09.5"	115 26'52"	2886	1182.6	-86.0
36-42	42 53'44.5"	115 26'22"	3110	1161.4	-91.7
36-43	42 52'55"	115 24'37"	3136	1155.5	-94.7

Station	Latitude	Longitude	Elev.	Observed gravity	Bouguer g.
36-98	42 48'52"	115 18'00"	3177	1122.6	-119.2
36-99	42 46'53.5"	115 17'53"	3191	1116.7	-121.2
36-100	42 46'04.5"	115 17'53"	3153	1116.7	-122.2
36-101	42 45'10"	115 18'03"	3225	1109,9	-123.4
36-102	42 45'42"	115 15'28"	3318	1105.9	-122.6
36-103	42 47'29.5"	115 16'02"	3201	1118.0	-120.2
36-104	42 48'41"	115 16'40"	3140	1125.6	-118.0
36-105	42 51'18"	115 17'35"	3012	1146.0	-109.2
36-106	42 51'32"	115 16'08"	3127	1138.6	-110.1
36-107	42 52'15"	115 18'25"	3012	1152.4	-104.3
36-108	42 53'41"	115 15'49"	2676	1185.4	-93.6
36-109	42 57'35"	115 15'50"	2601	1193.4	-95.9
37-0	42 54'38.5"	115 55'40"	2622	1164.4	-119.3
37-1	42 53'43"	115 53'56"	2620	1159.7	-122.7
37-2	42 53'22"	115 55'24"	2715	1151.3	-124.9
37-3	42 53'15"	115 56'38"	2652	1153.5	-126.3
37-4	42 54'19.5"	115 58'04"	2606	1159.3	-124.9
37-5	42 52'48.5"	115 57'22"	2716	1149.1	-126.2
37-6	42 53'38"	115 51'46"	2524	1169.0	-119.1
37-7	42 52'36"	115 50'29"	2580	1162.9	-120.2
37-9	42 53'56"	115 49'24"	2509	1177.3	-112.1
37-10	42 54'59.5"	115 49'34"	2599	1176.3	-109.2
37-11	42 56'01.5"	115 50'47"	2674	1175.6	-107.0
37-12	42 56'19"	115 52'02"	2658	1176.9	-107.2
37-13	42 56'37"	115 53'15"	2641	1178.5	-107.0
37-14	42 56'22"	115 55'02"	2658	1170.4	-113.7