

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Principal Facts and Complete Bouguer Gravity Anomaly Map
for the West Half of the Butte 1° x 2° Quadrangle, Montana

by

Jerry H. Hassemer

Open-File Report 81-949

1981

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

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Introduction

A gravity survey is being conducted by the U.S. Geological Survey in the Butte 1° x 2° quadrangle, Montana. This report presents the principal facts of gravity stations located on the west half of the quadrangle and a preliminary computer plotted complete Bouguer gravity anomaly map. This area is shown on figure 1. This work is being done in support of the Conterminous United States Mineral Appraisal Program (CUSMAP).

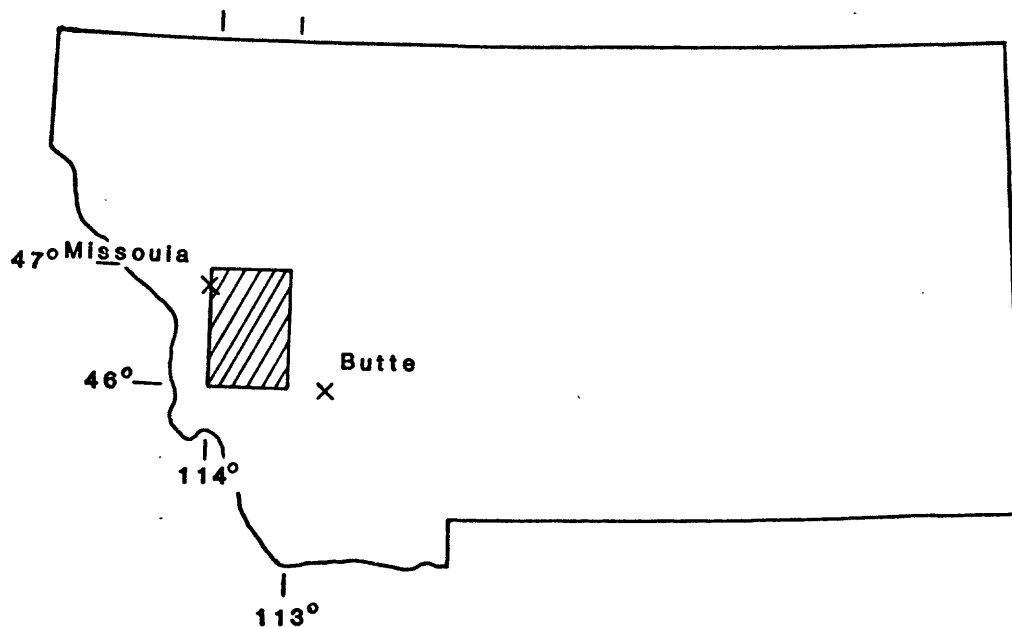


Figure 1.--Hatched rectangle shows area of the gravity survey discussed in this report.

Data Collection and Reduction

During the summers of 1979 and 1980, 962 gravity stations were measured by the author within the west half of the Butte $1^{\circ} \times 2^{\circ}$ quadrangle. LaCoste and Romberg gravimeter G-2 was used at all stations. Observed gravity values are referenced to two gravity base stations of the World Relative Gravity Reference Network (Defense Mapping Agency Aerospace Center, 1974), one at Drummond, Montana, (ACIC code number 1209-0) and one at Butte, Montana, (ACIC code number 0443-0). Eight local bases have been established in or near the area for convenience and are referenced to the two DMA base stations. Data for the local bases are given in Appendix A.

Horizontal and vertical control for station locations were obtained from USGS topographic maps at scales of 1:24,000 and 1:62,500. Most stations were read at bench marks or spot elevations indicated on the maps. Elevations for a few stations were determined by interpolating between contour lines and with an altimeter. In areas covered by 1:62,500 scale maps, station elevations could be in error as much as 13 meters resulting in a possible $2 \frac{1}{2}$ mgal (milligal) error in the Bouguer gravity anomaly at a density of 2.67 g/cm^3 .

At stations where the topographic relief varied more than 0.67 meter from the station elevation within a 17 meter radius (outer zone B of Hammer, 1939) or more than two meters between 17 and 53 meters (zone C of Hammer, 1939) a terrain correction was estimated to be used in computing the complete Bouguer gravity anomaly.

Data reduction was accomplished using programs on a Honeywell Multics computer. Observed gravity values were calculated from meter readings using a program by R. R. Wahl and D. A. Dansereau (USGS, unpublished program) that also corrects for earth-tide and meter drift. A table of principal facts for the gravity stations is given as Table 1. This table was made by an

unpublished program by R. H. Godson (USGS). Theoretical gravity values are calculated using the 1967 formula of the Geodetic Reference System (International Association of Geodesy, 1971). Terrain corrections were computed for each station to a distance of 166.7 km using the method of Plouff (1977) with any estimated correction out to 53 meters being added to this. Earth curvature corrections and two complete Bouguer gravity anomalies for each station are also given by Godson's program.

The maximum terrain correction (36.55 mgal at a density of 2.67 g/cm^3) is for a station on top of Short Peak at 10,280 feet in the southeast corner of the area. The smallest terrain correction (0.35 mgal) is in Nevada Valley at the northeast corner of the area.

Other Data

Also given in Table 1 is data for 57 gravity stations other than the author's that were used in the preparation of the Complete Bouguer Gravity Anomaly Map, figure 2. The stations with an RS identification were read by Dolores M. Kulik (1979, unpublished data) while those with a D identification were read by Harold Kaufmann with LaCoste and Romberg gravimeter G-159 as part of a gravity survey for the Dillon CUSMAP (1979, unpublished data).

Complete Bouguer Gravity Anomaly Map

Figure 2 is a preliminary computer plotted complete Bouguer gravity anomaly map of the west half of the Butte $1^\circ \times 2^\circ$ quadrangle at a density of 2.67 g/cm^3 . The map was plotted using unpublished gridding and contour programs by M. W. Webring and R. H. Godson (USGS). The data was gridded with a $1 \frac{1}{2}$ km spacing. Station locations are shown using different symbols for the author's data and that of Kulik's and Kaufmann's.

References

- Defense Mapping Agency Aerospace Center, 1974, World Relative Gravity Reference Network, North America, Part 2: DMAAC Ref. Pub. No. 25, with supplement updating gravity values to the International Gravity Standardization Net 1971, 1635 p.
- Hammer, S., 1939, Terrain corrections for gravimeter stations: Geophysics, v. 4, no. 3, p. 184-194.
- International Association of Geodesy, 1971, Geodetic reference system, 1967: International Association of Geodesy, Special Publication No. 3, 115 p.
- Plouff, D., 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 No. 77-535, 45 p.

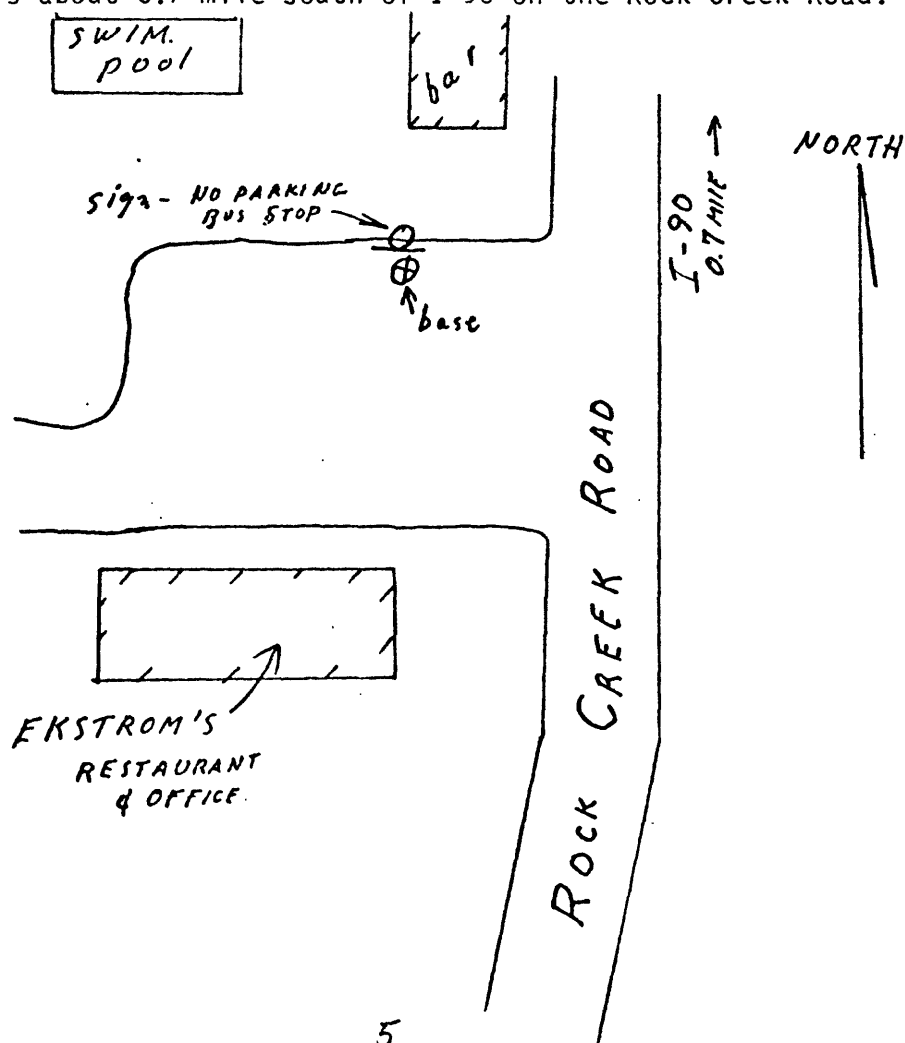
APPENDIX A

U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION

STATE/COUNTRY		STATION DESIGNATION		OBSERVED GRAVITY
Montana		Ekst		980386.15
NEAREST TOWN		LONGITUDE		LATITUDE
Clinton		113° 40.05'		46° 42.96'
ELEVATION		TOPOGRAPHIC MAP(S)		
1091 m		Ravenna 15 min		
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
7/28/80	Hassemer	G-2	Drummond	980365.65

DESCRIPTION/SKETCH

Station is read on asphalt, north side of parking area at a "No Parking - Bus Stop" sign at Ekstrom's about 0.7 mile south of I-90 on the Rock Creek Road.

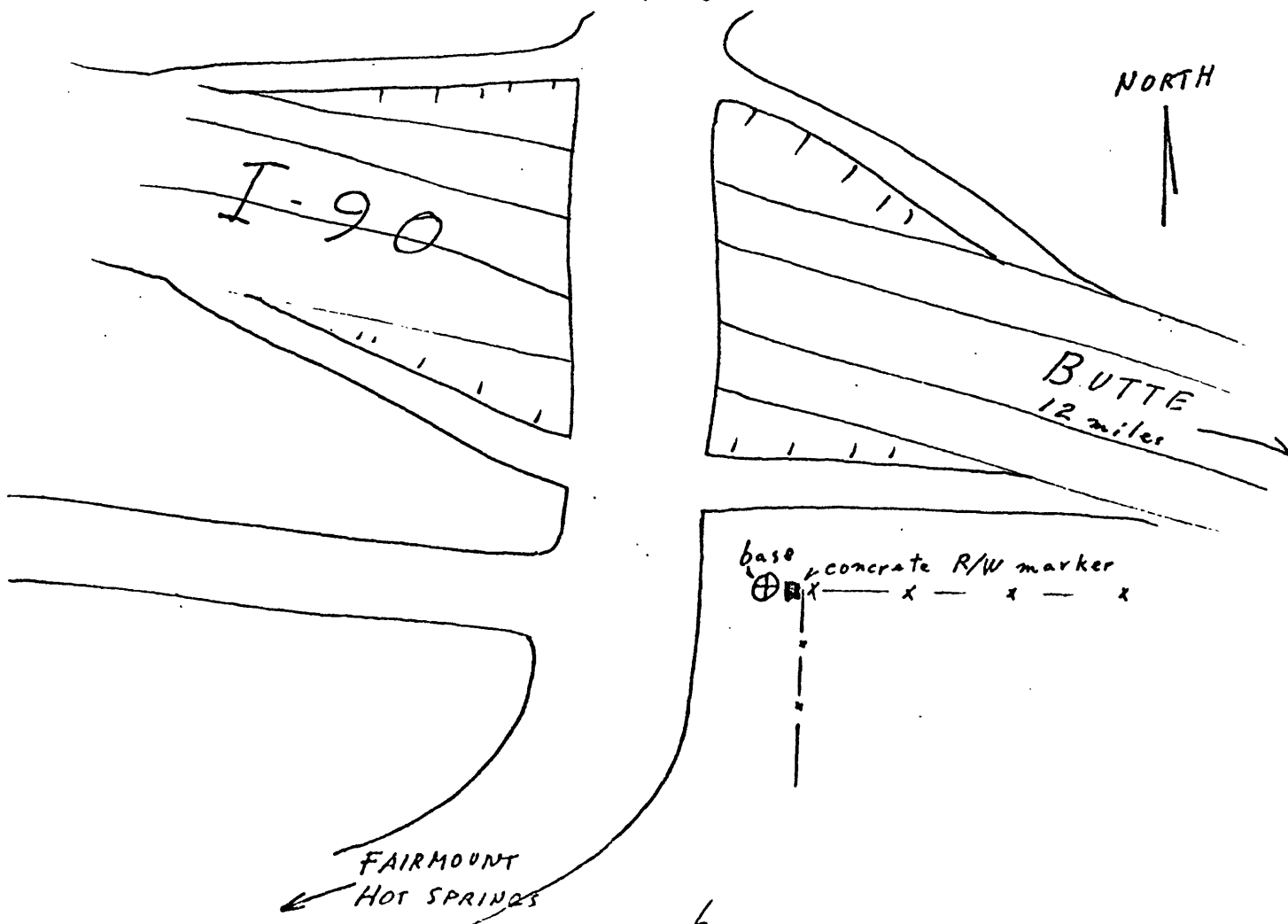


**U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION**

STATE/COUNTRY		STATION DESIGNATION		OBSERVED GRAVITY
Montana		Fair		980189.30
NEAREST TOWN		LONGITUDE		LATITUDE
Opportunity		112°45.60'		46°03.30'
ELEVATION		TOPOGRAPHIC MAP(S)		
1585 m		Anaconda 15 min		
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
6/19/80	Hassemer	G-2	Butte Airport	980159.88

DESCRIPTION/SKETCH

Base is read on the ground at a 1 foot high 4x4" highway R/W marker at the south corner of I-90 exit to Fairmont Hot Springs.

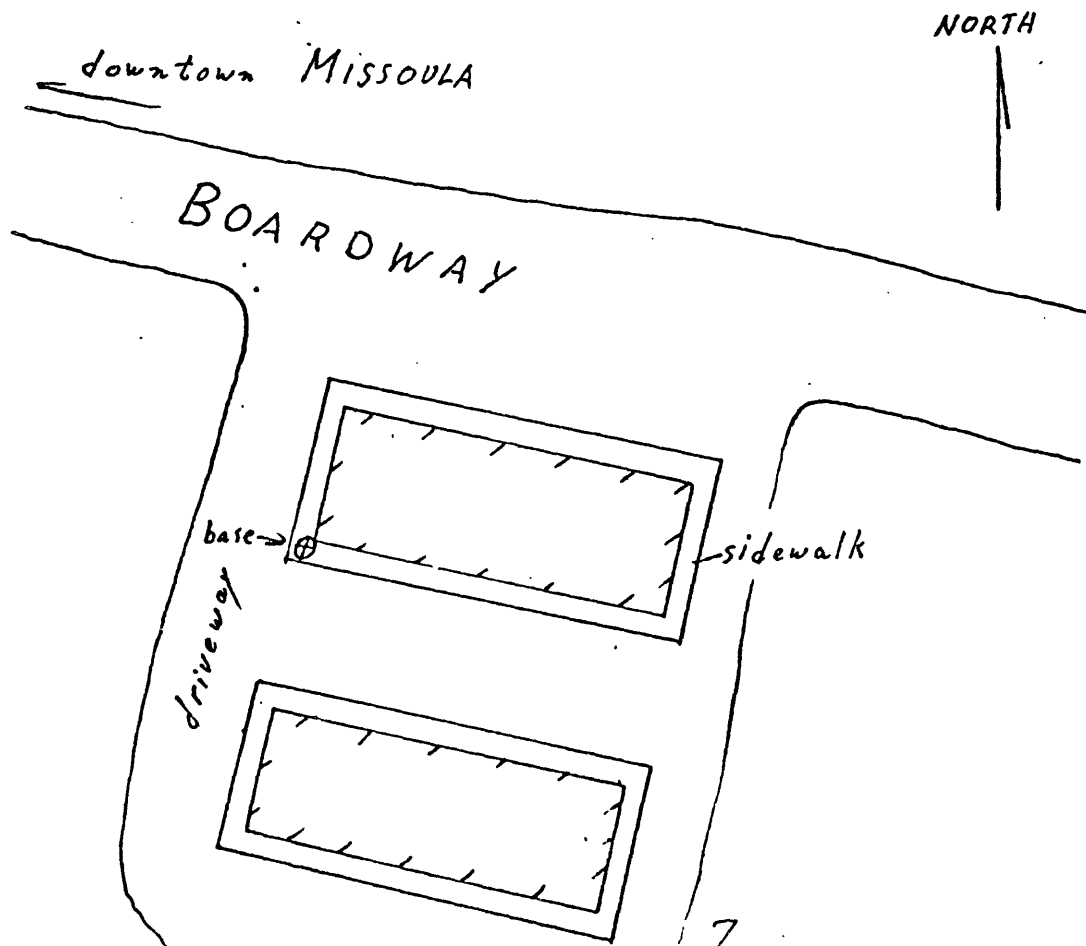


**U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION**

STATE/COUNTRY Montana		STATION DESIGNATION Faminn		OBSERVED GRAVITY 980435.57
NEAREST TOWN Missoula		LONGITUDE 113°58.07'		LATITUDE 45°52.02'
ELEVATION 980 m		TOPOGRAPHIC MAP(S) Southeast Missoula 7.5 min		
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
6/21/79	Hassemer	G-2	Drummond	980365.65
6/23/79	"	"	"	"
7/28/79	"	"	"	"

DESCRIPTION/SKETCH

Read on the southwest corner sidewalk for the northern unit of the Family Inn, east side of Missoula on Broadway.

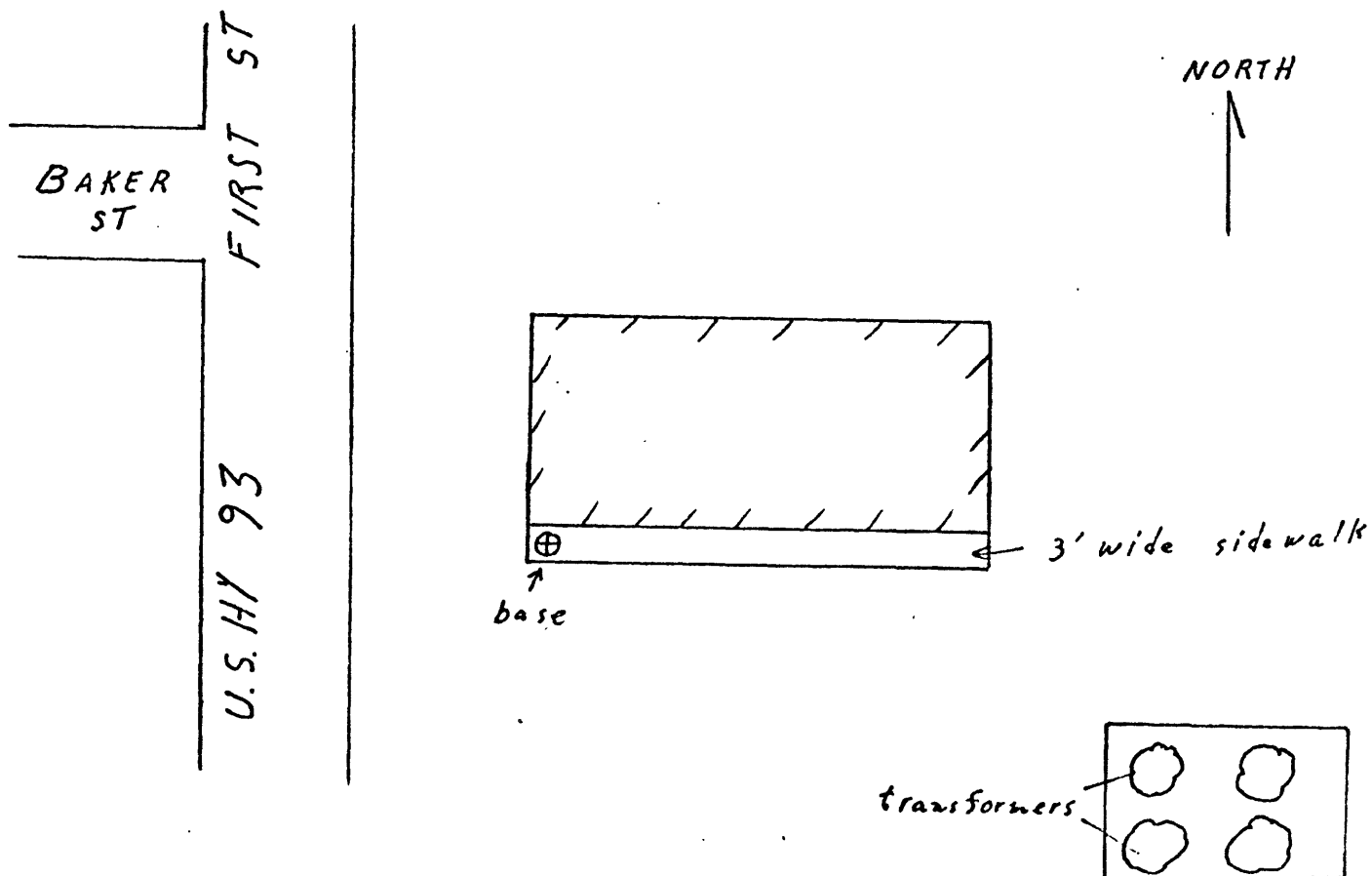


**U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION**

STATE/COUNTRY Montana		STATION DESIGNATION Hamil		OBSERVED GRAVITY 980317.37
NEAREST TOWN Hamilton		LONGITUDE 114°08.00'		LATITUDE 45°10.00'
ELEVATION 1127 m		TOPOGRAPHIC MAP(S) Hamilton AMS map		
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
6/23/79	Hassemer	G-2	Drummond	980365.65
7/3/79	Hassemer	G-2	Drummond	980365.65

DESCRIPTION/SKETCH

Station is read on the southwest corner of a concrete slab for a garage at the Montana Power high voltage station near Baker St. & U.S. Highway 93.

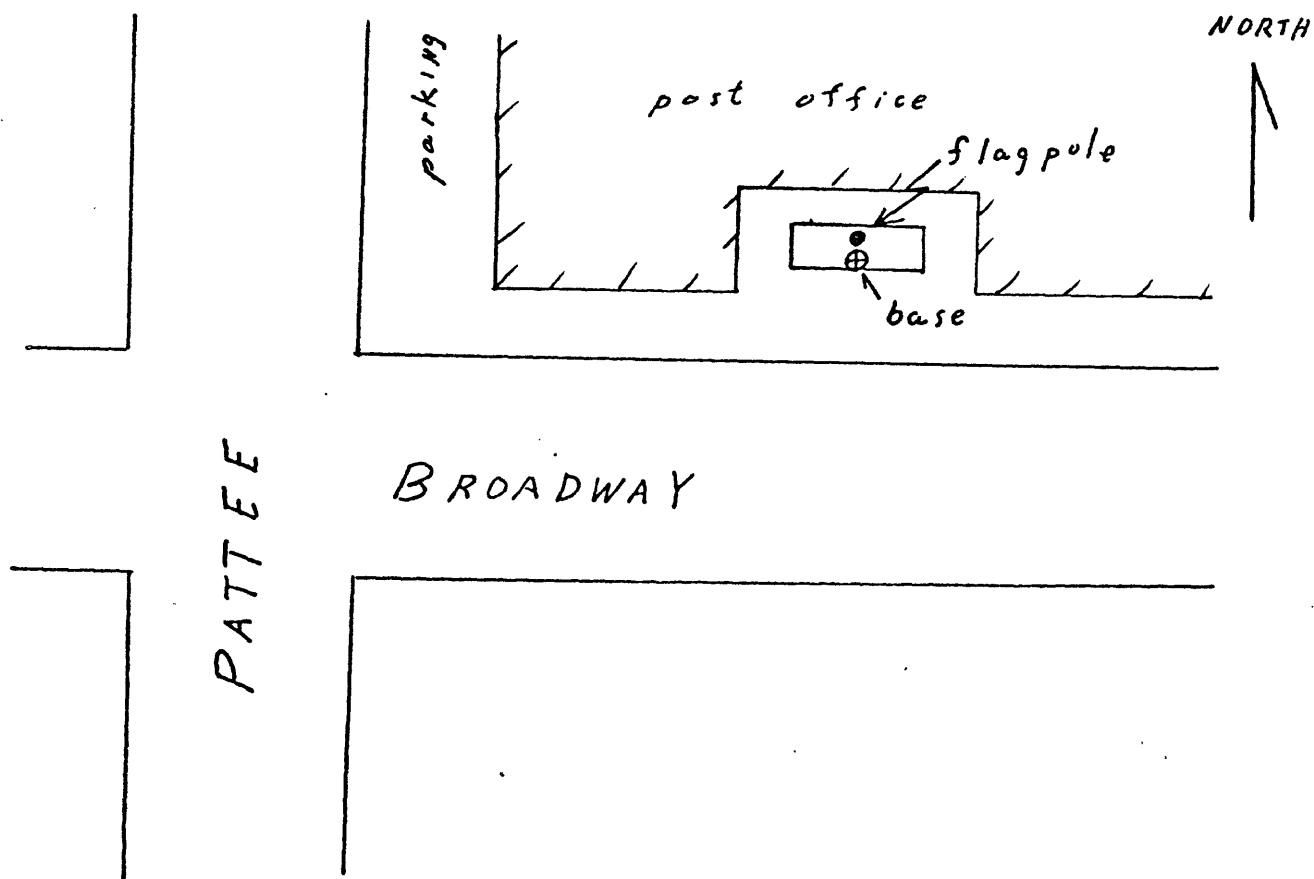


**U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION**

STATE/COUNTRY Montana		STATION DESIGNATION Mopobase		OBSERVED GRAVITY 980432.05
NEAREST TOWN Missoula		LONGITUDE 113°59.45'		LATITUDE 46°52.30'
ELEVATION 977 m		TOPOGRAPHIC MAP(S) Southeast Missoula 7.5 min		
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
7/22/80	Hassemer	G-2	Faminn	980435.57
7/28/80	Hassemer	G-2	Drummond	980365.65

DESCRIPTION/SKETCH

Read on concrete at base of flag pole, south side of post office at Boardway and Pattee.

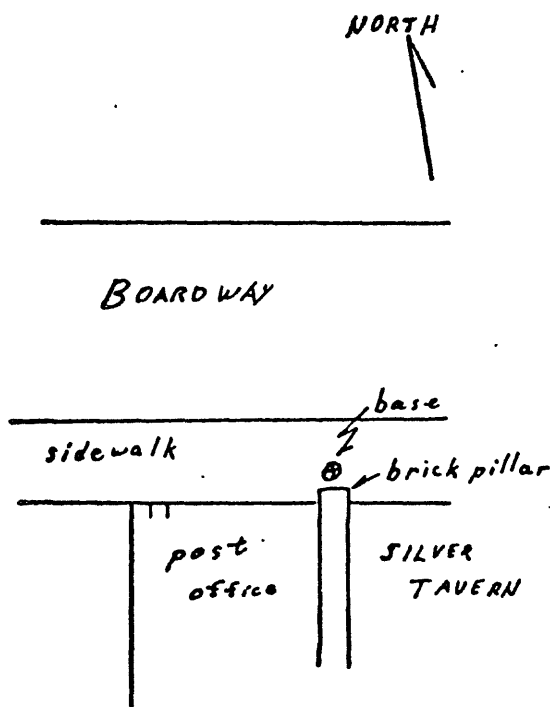


**U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION**

STATE/COUNTRY Montana		STATION DESIGNATION Philipsburg Post Office		OBSERVED GRAVITY 980229.00
NEAREST TOWN Philipsburg		LONGITUDE 113°17.65'		LATITUDE 46°19.90'
ELEVATION 1597 m		TOPOGRAPHIC MAP(S) Philipsburg 7.5 min		
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
7/3/75	Kleinkopf & Wilson	G-159	Drummond	980365.65
6/21/79	Hassemer	G-2	"	"
7/3/79	Hassemer	G-2	"	"

DESCRIPTION/SKETCH

Base is on concrete sidewalk, east corner of post office along Boardway (the main street).

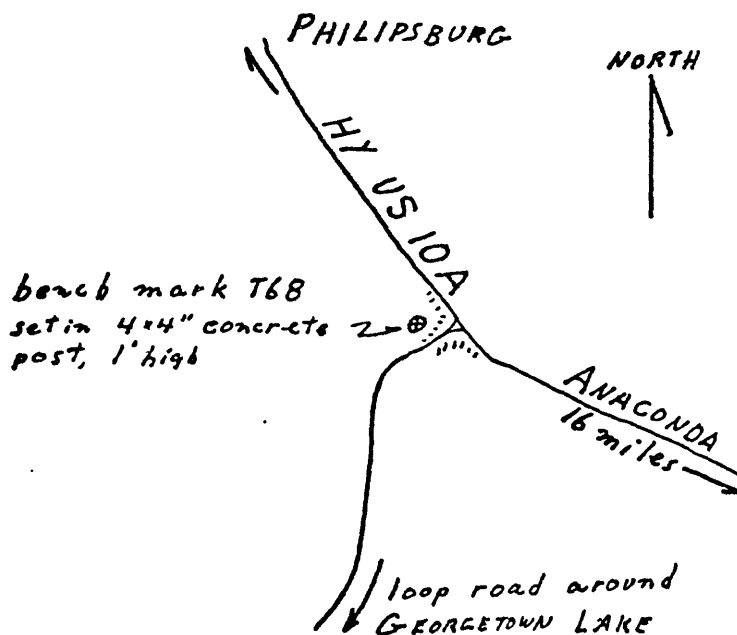


**U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION**

STATE/COUNTRY Montana		STATION DESIGNATION t68		OBSERVED GRAVITY 980151.96
NEAREST TOWN Anaconda		LONGITUDE 113°15.55'		LATITUDE 46°10.58'
ELEVATION 1948 m		TOPOGRAPHIC MAP(S) Georgetown Lake 7.5 min		
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
6/21/79	Hassemer	G-2	Drummond	980365.65
6/27/79	Hassemer	G-2	Philipsburg	980229.00

DESCRIPTION/SKETCH

Read on the ground at bench mark t68 (elev = 6392) at turn off to Georgetown Lake, 16 mile west of Anaconda.

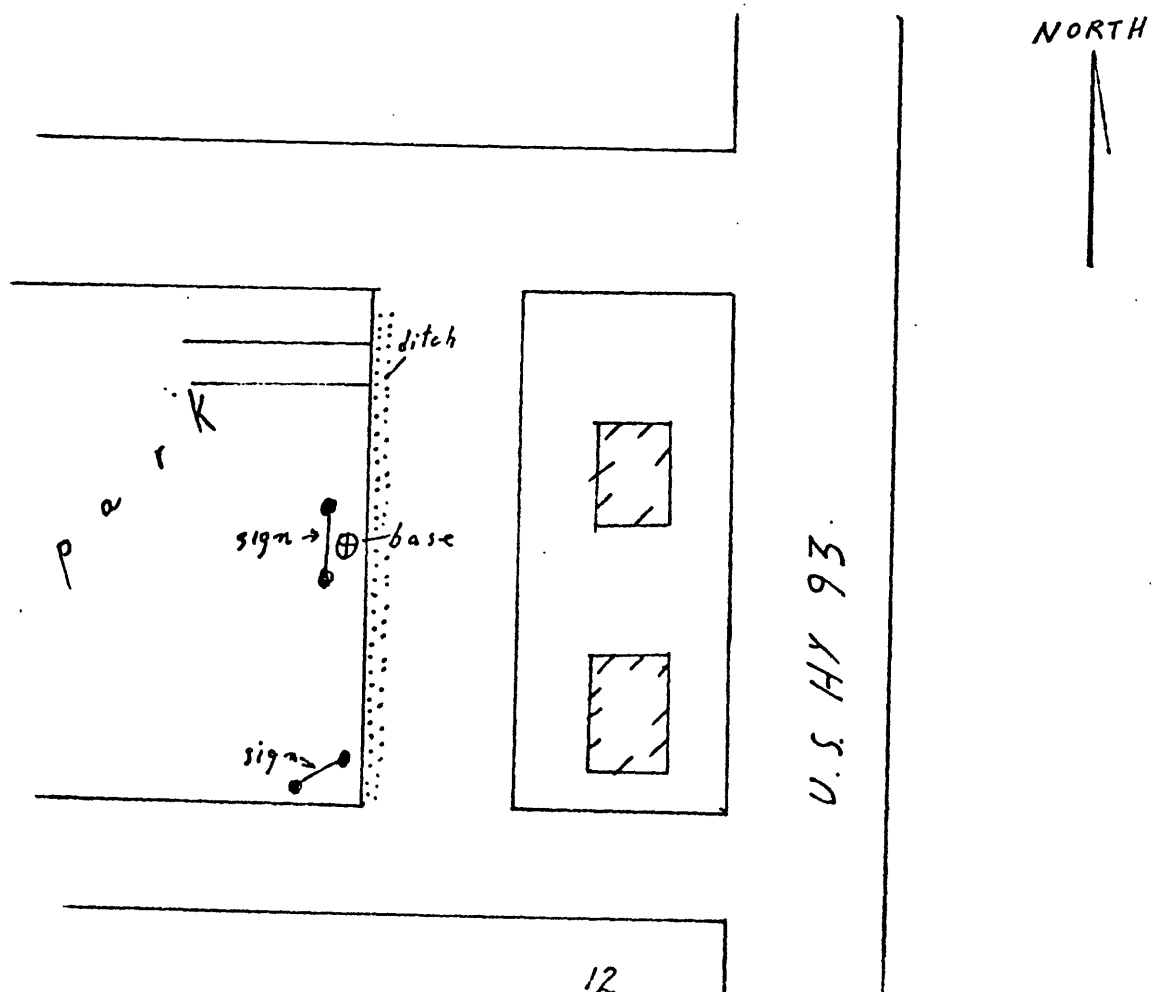


**U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION**

STATE/COUNTRY Montana		STATION DESIGNATION Victor		OBSERVED GRAVITY 980356.65
NEAREST TOWN Victor		LONGITUDE 114°08.80		LATITUDE 46°25.00'
ELEVATION 1052 m		TOPOGRAPHIC MAP(S) Victor 7.5 min		
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
7/7/80	Hassemer	G-2	Hamil & Famin	980317.37 & 980435.57
7/11/80	Hassemer	G-2	Hamil	980317.37

DESCRIPTION/SKETCH

Station is read on ground at center of sign on east side of a park, one block west of U.S. Highway 93.



Explanation of Table Headings

The computer printout lists the principal facts for the gravity stations. An explanation of the column headings follows:

IDENTIFICATION	Proj Butte for Butte CUSMAP project sta-id for Gravity survey station number
LATITUDE	North latitude in degrees, minutes, and hundredths of minutes
LONGITUDE	West longitude in degrees, minutes, and hundredths of minutes
ELE	Elevation in feet above sea level
ST	State
OBSERVED GRAVITY	Observed gravity in milligals
THEORETICAL GRAVITY	Theoretical gravity computed using the "Geodetic Reference System 1967" (International Association of Geodesy, 1971)
TERRAIN CORRECTION	Corrections due to effects of topography at density of 2.67 g/cm^3 to a distance of 166.7 km, in milligals
BOUGUER CORRECTION	Elevation correction in milligals
CURV CORRECTION	Corrections in milligals due to curvature of the Earth
SPECIAL CORRECTIONS	Any other corrections, none used
FREE AIR ANOMALY	Free-air anomaly in milligals
BOUGUER ANOMALY	Complete Bouguer anomaly in milligals for densities of 2.67 and 2.45 g/cm^3
SPEC FIELDS	Not used

BOUGUER GRAVITY DATA

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID:

Date: 04/06/81

STATION IDENTIFICATION proj sta-id	L O C A T I O N S LATITUDE LONGITUDE deg min deg min	ELE (in ft)	GRAVITY UNADJUSTED THEORETICAL	TERRAIN BOUGUER CURV	C O R R E C T I O N S SPECIAL	FREE AIR	A N O M A L I E S COMPLETE-ROUGHER SPEC d1=2.67 d2=2.45 FIELDS
RUTTE : f6minn	46 52.02 -113 58.67	3220.0 MT	980435.57	980787.94	1.54 -109.83 -1.10	0.00	-49.62 -159.00 -149.99
RUTTE : RS031	47 0.81 -113 55.11	7450.0 MT	980187.60	980801.17	13.23 -254.10 -1.50	0.00	86.67 -155.70 -135.73
RUTTE : RS032	46 59.19 -113 57.16	6894.0 MT	980216.71	980798.73	20.64 -235.13 -1.52	0.00	65.98 -150.03 -132.23
RUTTE : RS033	46 59.42 -113 53.14	6610.0 MT	980247.37	980799.08	7.75 -225.45 -1.52	0.00	69.61 -149.60 -131.54
RUTTE : RS034	46 56.86 -113 48.36	7646.0 MT	980158.23	980795.22	25.02 -260.78 -1.49	0.00	81.66 -155.59 -136.04
RUTTE : RS035	46 56.19 -113 48.35	7250.0 MT	980195.37	980794.21	14.19 -247.28 -1.51	0.00	82.60 -151.99 -132.66
RUTTE : RS036	46 57.80 -113 46.55	6257.0 MT	980262.99	980796.64	7.54 -213.41 -1.51	0.00	54.51 -152.87 -135.78
RUTTE : RS037	46 56.30 -113 51.97	7054.0 MT	980203.56	980794.38	16.79 -240.59 -1.51	0.00	72.22 -153.10 -134.53
RUTTE : RS041	47 0.85 -113 59.91	4950.0 MT	980348.03	980801.23	10.56 -168.83 -1.40	0.00	12.14 -147.53 -134.37
RUTTE : RS042	46 58.45 -113 59.67	3957.0 MT	980404.24	980797.62	6.59 -134.96 -1.25	0.00	-21.36 -150.98 -140.30
RUTTE : RS046	46 53.39 -114 1.04	3180.0 MT	980429.89	980790.00	1.42 -108.46 -1.09	0.00	-61.12 -169.25 -160.34
RUTTE : RS047	46 54.24 -114 0.51	3330.0 MT	980428.95	980791.28	1.80 -113.58 -1.12	0.00	-49.24 -162.14 -152.84
RUTTE : RS048	46 53.26 -113 55.47	3248.0 MT	980436.48	980789.80	4.59 -110.78 -1.10	0.00	-47.94 -155.23 -146.39
RUTTE : RS049	46 55.18 -113 54.42	3950.0 MT	980397.59	980792.70	7.67 -134.72 -1.25	0.00	-23.74 -152.04 -141.47
RUTTE : RS050	46 54.12 -113 55.55	3565.0 MT	980419.00	980791.09	5.39 -121.59 -1.17	0.00	-36.92 -154.30 -144.63
RUTTE : RS085	46 54.01 -113 57.59	3443.0 MT	980426.05	980790.93	2.50 -117.43 -1.15	0.00	-41.18 -157.26 -147.69
RUTTE : RS086	46 55.95 -113 57.31	3647.0 MT	980418.10	980793.85	5.10 -124.32 -1.19	0.00	-32.87 -153.35 -143.42
RUTTE : RS087	46 56.69 -113 57.03	3733.0 MT	980414.25	980794.97	6.03 -127.32 -1.21	0.00	-29.75 -152.25 -142.16
RUTTE : RS088	46 57.35 -113 55.00	3841.0 MT	980403.64	980795.96	11.30 -131.01 -1.23	0.00	-31.20 -152.14 -142.17
RUTTE : RS089	46 57.60 -113 52.93	3934.0 MT	980393.91	980796.34	13.80 -134.18 -1.25	0.00	-32.57 -154.19 -144.17
RUTTE : RS090	46 57.99 -113 51.98	4020.0 MT	980387.53	980796.92	15.49 -137.11 -1.26	0.00	-31.45 -154.34 -144.21
RUTTE : RS091	46 58.83 -113 50.13	4216.0 MT	980381.05	980798.19	13.73 -143.80 -1.30	0.00	-20.78 -152.14 -141.32
RUTTE : RS092	47 0.35 -113 50.35	4602.0 MT	980361.51	980800.48	13.17 -156.96 -1.36	0.00	-6.33 -151.48 -139.52
RUTTE : RS099	47 1.04 -114 0.77	6817.0 MT	980229.80	980801.52	17.21 -232.51 -1.52	0.00	69.05 -147.76 -129.90
RUTTE : RS100	46 52.54 -113 53.14	3280.0 MT	980432.37	980788.72	4.60 -111.87 -1.11	0.00	-47.97 -156.35 -147.42
RUTTE : RS104	46 54.03 -113 45.33	3360.0 MT	980420.18	980790.96	10.23 -114.60 -1.13	0.00	-54.88 -160.38 -151.68
RUTTE : RS106	46 56.19 -113 41.77	3914.0 MT	980399.34	980794.21	1.98 -133.50 -1.24	0.00	-26.89 -159.65 -148.71
RUTTE : RS107	46 57.22 -113 41.10	4309.0 MT	980376.48	980795.77	2.26 -146.97 -1.31	0.00	-14.18 -160.20 -148.17
RUTTE : RS108	46 59.07 -113 40.58	4026.0 MT	980400.58	980798.55	3.23 -137.31 -1.26	0.00	-19.47 -154.82 -143.67
RUTTE : RS109	46 59.80 -113 40.62	4152.0 MT	980393.79	980799.65	2.27 -141.61 -1.29	0.00	-15.51 -156.14 -144.56
RUTTE : mspbase	46 52.30 -113 59.45	3205.0 MT	980432.53	980788.36	1.89 -109.14 -1.09	0.00	-54.96 -163.30 -154.38
RUTTE : RS123	46 54.20 -113 54.05	4100.0 MT	980387.58	980791.22	7.30 -139.84 -1.28	0.00	-18.18 -152.00 -140.97
RUTTE : RS124	46 58.19 -113 42.25	4760.0 MT	980355.25	980797.23	3.04 -162.35 -1.38	0.00	5.51 -155.18 -141.94
RUTTE : RS125	46 58.70 -113 42.87	4860.0 MT	980351.88	980797.99	2.65 -165.76 -1.39	0.00	10.78 -153.73 -140.17
RUTTE : RS126	46 59.37 -113 44.02	5360.0 MT	980323.06	980799.00	4.11 -182.81 -1.45	0.00	27.93 -152.22 -137.38
RUTTE : RS127	46 59.62 -113 45.27	6042.0 MT	980280.67	980799.38	4.71 -206.08 -1.50	0.00	49.25 -153.61 -136.90
RUTTE : RS128	46 59.72 -113 47.62	6430.0 MT	980259.07	980799.53	6.40 -219.31 -1.51	0.00	63.95 -150.47 -132.80
RUTTE : RS129	47 0.34 -113 46.79	6402.0 MT	980261.18	980800.46	9.01 -218.35 -1.51	0.00	62.50 -148.36 -130.98
RUTTE : RS130	46 56.27 -113 43.09	3780.0 MT	980408.15	980794.34	3.87 -128.92 -1.22	0.00	-30.80 -157.08 -146.67
RUTTE : RS131	46 56.44 -113 44.67	4924.0 MT	980342.33	980794.59	3.42 -167.94 -1.40	0.00	10.64 -155.29 -141.61

West half BUTTE quad
Bouguer Gravity at Density#2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION		L O C A T I O N S		C R A V I T Y		TERRAIN BOUGUER CURV		SPECIAL		A N O M A L I E S	
proj	sta-id	LATITUDE deg min	LONGITUDE deg min	ELE (in ft)	UNSERVED THEORETICAL	TERRAIN BOUGUER CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER d1=2.67 d2=2.45	SPEC FIELDS	
RUTIF :	RS132	46 56.78	-113 46.01	5170.0 MT	980325.22	980795.10	0.00	16.13	-156.90	-142.64	
RUTIF :	RS133	46 55.38	-113 44.46	4268.0 MT	980377.98	980792.99	0.00	-13.76	-155.54	-143.85	
RUTIF :	RS134	46 55.44	-113 46.95	6220.0 MT	980259.39	980793.09	0.00	50.99	-153.04	-136.22	
RUTIF :	RS136	46 53.38	-113 49.90	3287.0 MT	980424.35	980789.98	0.00	-56.59	-158.98	-150.54	
RUTIF :	RS137	46 55.25	-113 47.95	6380.0 MT	980247.83	980792.80	0.00	54.74	-155.06	-137.78	
RUTIF :	RS138	46 55.25	-113 48.89	6580.0 MT	980233.42	980792.80	0.00	59.13	-154.83	-137.20	
RUTIF :	RS139	46 55.39	-113 49.65	6480.0 MT	980237.58	980793.01	0.00	53.68	-154.81	-137.63	
RUTIF :	RS140	46 54.98	-113 46.64	6673.0 MT	980216.61	980792.39	0.00	51.46	-152.55	-135.74	
RUTIF :	RS142	47 1.18	-113 39.05	5283.0 MT	980331.59	980801.73	0.00	26.50	-153.01	-138.22	
RUTIF :	RS143	47 0.17	-113 36.72	4535.0 MT	980373.51	980800.20	0.00	-0.36	-153.94	-141.29	
RUTIF :	RS147	47 0.55	-113 35.41	4900.0 MT	980352.87	980800.77	0.00	12.73	-153.97	-140.23	
RUTIF :	RS149	47 0.52	-113 33.19	6085.0 MT	980275.03	980800.73	0.00	46.29	-154.78	-138.21	
RUTIF :	RS150	47 0.16	-113 32.03	5780.0 MT	980298.27	980800.19	0.00	41.42	-151.23	-135.36	
RUTIF :	lakebase	47 11.00	-112 29.00	4029.0 MT	980404.92	980816.50	0.00	-32.80	-168.86	-157.65	
RUTIF :	dg434	45 36.86	-113 26.88	6054.0 MT	980067.39	980674.65	0.00	-38.16	-245.61	-228.52	
RUTIF :	D0741	45 59.81	-113 58.32	6278.0 MT	980129.52	980709.26	0.00	10.41	-201.56	-184.09	
RUTIF :	D0769	45 59.91	-113 4.31	6600.0 MT	980095.97	980709.41	0.00	6.96	-217.46	-198.97	
RUTIF :	D0770	46 0.05	-113 3.94	6550.0 MT	980096.73	980709.63	0.00	2.81	-219.94	-201.59	
RUTIF :	D0771	46 0.04	-113 3.25	6510.0 MT	980102.66	980709.61	0.00	5.00	-216.35	-198.11	
RUTIF :	D0782	46 0.36	-113 14.14	8839.0 MT	979955.17	980710.09	0.00	75.81	-215.23	-191.25	
RUTIF :	D0797	45 59.63	-113 22.71	7365.0 MT	980044.51	980708.99	0.00	27.79	-215.32	-195.29	
RUTIF :	B0001	46 46.98	-114 0.11	3591.0 MT	980399.14	980780.34	0.00	-43.59	-161.79	-152.05	
RUTIF :	B0002	46 46.96	-113 59.02	3685.0 MT	980393.47	980780.31	0.00	-40.39	-161.86	-151.85	
RUTIF :	B0003	46 46.66	-113 57.50	3762.0 MT	980388.04	980779.87	0.00	-38.13	-161.78	-151.59	
RUTIF :	B0004	46 47.18	-113 55.87	4130.0 MT	980366.74	980780.65	0.00	-25.63	-160.95	-149.80	
RUTIF :	B0005	46 45.89	-113 56.41	3864.0 MT	980379.25	980778.70	0.00	-36.17	-162.43	-152.03	
RUTIF :	B0006	46 46.12	-113 55.15	4160.0 MT	980360.69	980779.05	0.00	-27.26	-162.36	-151.23	
RUTIF :	B0007	46 46.30	-113 54.25	4420.0 MT	980345.42	980779.32	0.00	-18.36	-161.13	-149.37	
RUTIF :	B0008	46 44.21	-113 56.10	4035.0 MT	980366.59	980776.17	0.00	-30.23	-163.82	-152.81	
RUTIF :	B0009	46 43.11	-113 53.88	4803.0 MT	980316.36	980774.52	0.00	-6.63	-165.93	-152.81	
RUTIF :	B0010	46 42.66	-113 50.45	6702.0 MT	980194.57	980773.84	0.00	50.70	-164.06	-146.37	
RUTIF :	B0011	46 44.00	-113 51.05	6260.0 MT	980230.79	980775.86	0.00	43.37	-163.78	-146.72	
RUTIF :	B0012	46 44.83	-113 50.90	6520.0 MT	980214.82	980777.11	0.00	50.58	-162.69	-145.12	
RUTIF :	B0013	46 43.60	-113 50.87	5840.0 MT	980261.43	980775.26	0.00	35.15	-162.65	-146.35	
RUTIF :	B0014	46 42.60	-113 53.81	4700.0 MT	980322.34	980773.75	0.00	-9.55	-167.28	-154.28	
RUTIF :	B0015	46 43.03	-113 56.65	5699.0 MT	980261.01	980774.40	0.00	22.34	-166.87	-151.28	
RUTIF :	B0016	46 51.96	-113 57.02	3220.0 MT	980432.56	980787.84	0.00	-52.54	-157.59	-148.93	
RUTIF :	B0017	46 52.40	-113 54.45	3268.0 MT	980431.31	980788.51	0.00	-49.94	-156.61	-147.82	
RUTIF :	B0018	46 52.32	-113 52.98	3282.0 MT	980432.00	980788.38	0.00	-47.81	-156.75	-147.78	
RUTIF :	B0019	46 51.99	-113 52.29	3290.0 MT	980430.34	980787.89	0.00	-48.22	-157.24	-148.25	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION		L O C A T I O N S		G R A V I T Y		C O R R E C T I O N S		A N O M A L I E S	
IDENTIFICATION	sta-id	LATITUDE	LONGITUDE	ELE	ST	TERRAIN BOUGUER CURV	SPECIAL	FREE	SPEC
proj		deg min	deg min	(in ft)				AIR	d1=2.67 d2=2.45 FIELDS
RUTIE : B0020		46 50.93	-113 59.78	3199.0	MT	2.80	-109.11	-1.09	0.00
RUTIE : B0021		46 49.73	-113 57.67	3640.0	MT	4.62	-124.15	-1.19	0.00
RUTIE : B0022		46 49.51	-113 56.24	3940.0	MT	2.73	-134.38	-1.25	0.00
RUTIE : B0023		46 50.24	-113 56.75	4340.0	MT	2.02	-148.02	-1.32	0.00
RUTIE : B0024		46 49.68	-113 55.22	4180.0	MT	2.13	-142.57	-1.29	0.00
RUTIE : B0025		46 48.61	-113 55.28	5441.0	MT	10.62	-145.58	-1.46	0.00
RUTIE : B0026		46 46.88	-113 54.32	5950.0	MT	11.92	-202.94	-1.49	0.00
RUTIE : B0027		46 51.24	-113 53.12	3405.0	MT	5.30	-116.13	-1.14	0.00
RUTIE : B0028		46 52.54	-113 51.20	3278.0	MT	9.20	-111.80	-1.11	0.00
RUTIE : B0029		46 53.56	-113 48.61	3363.0	MT	11.50	-114.70	-1.13	0.00
RUTIE : B0030		46 53.51	-113 47.42	3346.0	MT	11.42	-114.12	-1.13	0.00
RUTIE : B0031		46 54.28	-113 44.81	3384.0	MT	7.75	-115.42	-1.13	0.00
RUTIE : B0032		46 54.81	-113 42.61	3410.0	MT	4.23	-116.31	-1.14	0.00
RUTIE : B0033		46 54.74	-113 39.58	3494.0	MT	2.26	-119.17	-1.16	0.00
RUTIE : B0034		46 53.54	-113 39.06	3560.0	MT	1.88	-121.42	-1.17	0.00
RUTIE : B0035		46 53.21	-113 39.90	3778.0	MT	1.65	-128.86	-1.22	0.00
RUTIE : B0036		46 54.45	-113 38.59	3523.0	MT	3.03	-120.16	-1.16	0.00
RUTIE : B0037		46 53.75	-113 37.70	3524.0	MT	2.05	-120.19	-1.16	0.00
RUTIE : B0038		46 52.26	-113 59.61	3200.0	MT	1.75	-109.14	-1.09	0.00
RUTIE : B0039		46 50.63	-113 50.46	3312.0	MT	5.97	-112.96	-1.12	0.00
RUTIE : B0040		46 50.23	-113 49.68	3320.0	MT	5.90	-113.24	-1.12	0.00
RUTIE : B0041		46 50.92	-113 52.31	3542.0	MT	4.68	-120.81	-1.17	0.00
RUTIE : B0042		46 47.69	-113 47.61	4513.0	MT	10.98	-153.93	-1.35	0.00
RUTIE : B0043		46 47.44	-113 51.49	6432.0	MT	11.79	-219.38	-1.51	0.00
RUTIE : B0044		46 47.96	-113 48.46	4766.0	MT	7.04	-162.55	-1.38	0.00
RUTIE : B0045		46 49.85	-113 49.02	3327.0	MT	5.87	-113.47	-1.12	0.00
RUTIE : B0046		46 48.84	-113 47.33	3355.0	MT	5.72	-114.43	-1.13	0.00
RUTIE : B0047		46 48.32	-113 46.56	3385.0	MT	4.68	-115.45	-1.13	0.00
RUTIE : B0048		46 49.29	-113 45.08	3778.0	MT	6.78	-128.86	-1.22	0.00
RUTIE : B0049		46 48.68	-113 44.14	5481.0	MT	12.22	-146.94	-1.46	0.00
RUTIE : B0050		46 48.83	-113 42.18	5620.0	MT	9.67	-191.68	-1.47	0.00
RUTIE : B0051		46 49.91	-113 40.32	5948.0	MT	7.56	-202.87	-1.49	0.00
RUTIE : B0052		46 51.13	-113 57.75	5158.0	MT	17.72	-175.92	-1.43	0.00
RUTIE : B0053		46 48.08	-113 57.63	5906.0	MT	13.99	-201.44	-1.49	0.00
RUTIE : B0054		46 46.05	-113 59.38	5378.0	MT	9.38	-143.43	-1.45	0.00
RUTIE : B0055		46 45.45	-113 53.18	7030.0	MT	19.57	-239.77	-1.52	0.00
RUTIE : B0056		46 49.30	-113 51.79	6209.0	MT	24.69	-211.77	-1.51	0.00
RUTIE : B0057		46 51.83	-113 47.72	6813.0	MT	22.13	-232.37	-1.52	0.00
RUTIE : B0058		46 50.96	-113 45.65	5563.0	MT	7.34	-149.74	-1.47	0.00
RUTIE : B0059		46 51.28	-113 40.93	5458.0	MT	8.01	-146.16	-1.46	0.00
RUTIE : B0060		46 50.23	-113 49.68	3320.0	MT	5.90	-113.24	-1.12	0.00
RUTIE : B0061		46 50.92	-113 52.31	3542.0	MT	4.68	-120.81	-1.17	0.00
RUTIE : B0062		46 47.69	-113 47.61	4513.0	MT	10.98	-153.93	-1.35	0.00
RUTIE : B0063		46 47.44	-113 51.49	6432.0	MT	11.79	-219.38	-1.51	0.00
RUTIE : B0064		46 47.96	-113 48.46	4766.0	MT	7.04	-162.55	-1.38	0.00
RUTIE : B0065		46 49.85	-113 49.02	3327.0	MT	5.87	-113.47	-1.12	0.00
RUTIE : B0066		46 48.84	-113 47.33	3355.0	MT	5.72	-114.43	-1.13	0.00
RUTIE : B0067		46 48.32	-113 46.56	3385.0	MT	4.68	-115.45	-1.13	0.00
RUTIE : B0068		46 49.29	-113 45.08	3778.0	MT	6.78	-128.86	-1.22	0.00
RUTIE : B0069		46 48.68	-113 44.14	5481.0	MT	12.22	-146.94	-1.46	0.00
RUTIE : B0070		46 48.83	-113 42.18	5620.0	MT	9.67	-191.68	-1.47	0.00
RUTIE : B0071		46 49.91	-113 40.32	5948.0	MT	7.56	-202.87	-1.49	0.00
RUTIE : B0072		46 51.13	-113 57.75	5158.0	MT	17.72	-175.92	-1.43	0.00
RUTIE : B0073		46 48.08	-113 57.63	5906.0	MT	13.99	-201.44	-1.49	0.00
RUTIE : B0074		46 46.05	-113 59.38	5378.0	MT	9.38	-143.43	-1.45	0.00
RUTIE : B0075		46 45.45	-113 53.18	7030.0	MT	19.57	-239.77	-1.52	0.00
RUTIE : B0076		46 49.30	-113 51.79	6209.0	MT	24.69	-211.77	-1.51	0.00
RUTIE : B0077		46 51.83	-113 47.72	6813.0	MT	22.13	-232.37	-1.52	0.00
RUTIE : B0078		46 50.96	-113 45.65	5563.0	MT	7.34	-149.74	-1.47	0.00
RUTIE : B0079		46 51.28	-113 40.93	5458.0	MT	8.01	-146.16	-1.46	0.00
RUTIE : B0080		46 50.23	-113 49.68	3320.0	MT	5.90	-113.24	-1.12	0.00
RUTIE : B0081		46 50.92	-113 52.31	3542.0	MT	4.68	-120.81	-1.17	0.00
RUTIE : B0082		46 47.69	-113 47.61	4513.0	MT	10.98	-153.93	-1.35	0.00
RUTIE : B0083		46 47.44	-113 51.49	6432.0	MT	11.79	-219.38	-1.51	0.00
RUTIE : B0084		46 47.96	-113 48.46	4766.0	MT	7.04	-162.55	-1.38	0.00
RUTIE : B0085		46 49.85	-113 49.02	3327.0	MT	5.87	-113.47	-1.12	0.00
RUTIE : B0086		46 48.84	-113 47.33	3355.0	MT	5.72	-114.43	-1.13	0.00
RUTIE : B0087		46 48.32	-113 46.56	3385.0	MT	4.68	-115.45	-1.13	0.00
RUTIE : B0088		46 49.29	-113 45.08	3778.0	MT	6.78	-128.86	-1.22	0.00
RUTIE : B0089		46 48.68	-113 44.14	5481.0	MT	12.22	-146.94	-1.46	0.00
RUTIE : B0090		46 48.83	-113 42.18	5620.0	MT	9.67	-191.68	-1.47	0.00
RUTIE : B0091		46 49.91	-113 40.32	5948.0	MT	7.56	-202.87	-1.49	0.00
RUTIE : B0092		46 51.13	-113 57.75	5158.0	MT	17.72	-175.92	-1.43	0.00
RUTIE : B0093		46 48.08	-113 57.63	5906.0	MT	13.99	-201.44	-1.49	0.00
RUTIE : B0094		46 46.05	-113 59.38	5378.0	MT	9.38	-143.43	-1.45	0.00
RUTIE : B0095		46 45.45	-113 53.18	7030.0	MT	19.57	-239.77	-1.52	0.00
RUTIE : B0096		46 49.30	-113 51.79	6209.0	MT	24.69	-211.77	-1.51	0.00
RUTIE : B0097		46 51.83	-113 47.72	6813.0	MT	22.13	-232.37	-1.52	0.00
RUTIE : B0098		46 50.96	-113 45.65	5563.0	MT	7.34	-149.74	-1.47	0.00
RUTIE : B0099		46 51.28	-113 40.93	5458.0	MT	8.01	-146.16	-1.46	0.00
RUTIE : B0100		46 50.23	-113 49.68	3320.0	MT	5.90	-113.24	-1.12	0.00
RUTIE : B0101		46 50.92	-113 52.31	3542.0	MT	4.68	-120.81	-1.17	0.00
RUTIE : B0102		46 47.69	-113 47.61	4513.0	MT	10.98	-153.93	-1.35	0.00
RUTIE : B0103		46 47.44	-113 51.49	6432.0	MT	11.79	-219.38	-1.51	0.00
RUTIE : B0104		46 47.96	-113 48.46	4766.0	MT	7.04	-162.55	-1.38	0.00
RUTIE : B0105		46 49.85	-113 49.02	3327.0	MT	5.87	-113.47	-1.12	0.00
RUTIE : B0106		46 48.84	-113 47.33	3355.0	MT	5.72	-114.43	-1.13	0.00
RUTIE : B0107		46 48.32	-113 46.56	3385.0	MT	4.68	-115.45	-1.13	0.00
RUTIE : B0108		46 49.29	-113 45.08	3778.0	MT	6.78	-128.86	-1.22	0.00
RUTIE : B0109		46 48.68	-113 44.14	5481.0	MT	12.22	-146.94	-1.46	0.00
RUTIE : B0110		46 48.83	-113 42.18	5620.0	MT	9.67	-191.68	-1.47	0.00
RUTIE : B0111		46 49.91	-113 40.32	5948.0	MT	7.56	-202.87	-1.49	0.00
RUTIE : B0112		46 51.13	-113 57.75	5158.0	MT	17.72	-175.92	-1.43	0.00
RUTIE : B0113		46 48.08	-113 57.63	5906.0	MT	13.99	-201.44	-1.49	0.00
RUTIE : B0114		46 46.05	-113 59.38	5378.0	MT	9.38	-143.43	-1.45	0.00
RUTIE : B0115		46 45.45	-113 53.18	7030.0	MT	19.57	-239.77	-1.52	0.00
RUTIE : B0116		46 49.30	-113 51.79	6209.0	MT	24.69	-211.77	-1.51	0.00
RUTIE : B0117		46 51.83	-113 47.72	6813.0	MT	22.13	-232.37	-1.52	0.00
RUTIE : B0118		46 50.96	-113 45.65	5563.0	MT	7.34	-149.74	-1.47	0.00
RUTIE : B0119		46 51.28	-113 40.93	5458.0	MT	8.01	-146.16	-1.46	0.00
RUTIE : B0120		46 50.23	-113 49.68	3320.0	MT	5.90	-113.24	-1.12	0.00
RUTIE : B0121		46 50.92	-113 52.31	3542.0	MT	4.68	-120.81	-1.17	0.00
RUTIE : B0122		46 47.69	-113 47.61	4513.0	MT	10.98	-153.93	-1.35	0.00
RUTIE : B0123		46 47.44	-113 51.49	6432.0	MT	11.79	-219.38	-1.51	0.00
RUTIE : B0124		46 47.96	-113 48.46	4766.0	MT	7.04	-162.55	-1.38	0.00
RUTIE : B0125		46 49.85	-113 49.02	3327.0	MT	5.87	-113.47	-1.12	0.00
RUTIE : B0126		46 48.84	-113 47.33	3355.0	MT	5.72	-114.43	-1.13	0.00
RUTIE : B0127		46 48.32	-113 46.56	3385.0	MT	4.68	-115.45	-1.13	0.00
RUTIE : B0128		46 49.29	-113 45.08	3778.0	MT	6.78	-128.86	-1.22	0.00
RUTIE : B0129		46 48.68	-113 44.14	5481.0	MT	12.22	-146.94	-1.46	0.00
RUTIE : B0130		46 48.83	-113 42.18	5620.0	MT	9.67	-191.68	-1.47	0.00
RUTIE : B0131		46 49.91	-113 40.32	5948.0	MT	7.56	-202.87	-1.49	0.00
RUTIE : B0132		46 51.13	-113 57.75	5158.0	MT	17.72	-175.92	-1.43	0.00

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: 04/06/81

ROUGH GRAVITY DATA

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STATION IDENTIFICATION proj sta-id	L LATITUDE deg min	C LONGITUDE deg min	I TIME min	N ELEVATION (in ft)	S SURFACE CORRECTION	TERRAIN BOUGUER CURV	C CORRECTION TERRAIN BOUGUER CURV	O ORIGINAL TERRAIN BOUGUER CURV	N NORMAL TERRAIN BOUGUER CURV	S SPECIAL TERRAIN BOUGUER CURV	A FREE AIR	N NORMAL TERRAIN BOUGUER CURV	O ORIGINAL TERRAIN BOUGUER CURV	M NORMAL TERRAIN BOUGUER CURV	A NORMAL TERRAIN BOUGUER CURV	L NORMAL TERRAIN BOUGUER CURV	I NORMAL TERRAIN BOUGUER CURV	E NORMAL TERRAIN BOUGUER CURV	F NORMAL TERRAIN BOUGUER CURV	S NORMAL TERRAIN BOUGUER CURV	SPEC NORMAL TERRAIN BOUGUER CURV	FIELDS
RUTTE : B0060	46 53.40	-113 42.89		5483.0	MT	980790.02	9.43	-187.01	-1.46	0.00	19.95	-159.09	-144.34									
RUTTE : B0061	46 54.09	-113 40.30		4314.0	MT	980791.05	5.34	-147.14	-1.31	0.00	-14.67	-157.78	-145.99									
RUTTE : B0062	46 51.77	-113 38.36		4122.0	MT	980787.55	1.95	-140.59	-1.28	0.00	-23.20	-163.12	-151.59									
RUTTE : B0063	46 47.29	-113 38.15		6007.0	MT	980780.81	8.99	-204.88	-1.50	0.00	29.71	-167.68	-151.42									
RUTTE : B0064	46 45.49	-113 39.83		5492.0	MT	980778.10	8.94	-187.32	-1.46	0.00	13.22	-166.61	-151.80									
RUTTE : B0065	46 42.64	-113 38.15		5573.0	MT	980773.81	15.06	-190.08	-1.47	0.00	7.04	-169.45	-154.90									
RUTTE : B0066	46 40.63	-113 36.11		6385.0	MT	980770.78	12.84	-217.77	-1.51	0.00	34.19	-172.26	-155.25									
RUTTE : B0067	46 40.75	-113 38.35		6350.0	MT	980770.96	15.32	-216.58	-1.51	0.00	33.50	-169.27	-152.56									
RUTTE : B0068	46 41.39	-113 41.63		5336.0	MT	980771.93	9.40	-182.00	-1.45	0.00	7.06	-166.98	-152.64									
RUTTE : B0069	46 42.66	-113 44.32		6425.0	MT	980773.84	14.18	-219.14	-1.51	0.00	39.29	-167.18	-150.17									
RUTTE : B0070	46 52.02	-113 58.67		3220.0	MT	980787.94	2.78	-109.83	-1.10	0.00	-49.62	-157.76	-148.85									
RUTTE : B0071	46 51.10	-113 35.33		3782.0	MT	980786.55	1.24	-128.99	-1.22	0.00	-42.00	-170.97	-160.34									
RUTTE : B0072	46 50.38	-113 35.76		3882.0	MT	980785.47	2.61	-132.40	-1.24	0.00	-31.43	-162.47	-151.67									
RUTTE : B0073	46 49.14	-113 38.07		5510.0	MT	980783.60	8.27	-187.93	-1.46	0.00	16.44	-164.68	-149.76									
RUTTE : B0074	46 48.45	-113 34.65		5175.0	MT	980782.56	4.42	-176.50	-1.43	0.00	11.69	-161.83	-147.53									
RUTTE : B0075	46 47.93	-113 32.35		5472.0	MT	980781.77	3.53	-186.63	-1.46	0.00	22.80	-161.76	-146.55									
RUTTE : B0076	46 47.20	-113 30.77		5801.0	MT	980780.68	7.17	-197.85	-1.48	0.00	31.20	-160.97	-145.14									
RUTTE : B0077	46 45.89	-113 33.33		4012.0	MT	980778.70	7.21	-136.84	-1.26	0.00	-35.16	-166.05	-155.27									
RUTTE : B0078	46 45.30	-113 42.45		3467.0	MT	980777.81	4.31	-118.25	-1.15	0.00	-51.43	-166.52	-157.04									
RUTTE : B0079	46 46.39	-113 43.64		3916.0	MT	980779.45	4.94	-133.56	-1.24	0.00	-35.42	-165.29	-154.59									
RUTTE : B0080	46 45.81	-113 44.84		5383.0	MT	980778.59	9.41	-183.60	-1.45	0.00	8.84	-166.80	-152.33									
RUTTE : B0081	46 45.69	-113 45.06		5165.0	MT	980778.41	4.85	-176.16	-1.43	0.00	5.00	-167.74	-153.50									
RUTTE : B0082	46 45.59	-113 47.58		5846.0	MT	980778.25	12.45	-199.39	-1.49	0.00	21.52	-166.90	-151.38									
RUTTE : B0083	46 39.75	-113 9.25		3949.0	MT	980769.45	1.22	-134.69	-1.25	0.00	-32.54	-167.26	-156.16									
RUTTE : B0084	46 10.58	-113 15.55		6392.0	MT	980725.50	1.54	-218.01	-1.51	0.00	27.31	-190.67	-172.71									
RUTTE : B0085	46 13.82	-113 33.34		5361.0	MT	980730.38	2.81	-182.85	-1.45	0.00	-19.74	-201.23	-186.28									
RUTTE : B0086	46 14.16	-113 34.55		5445.0	MT	980730.89	2.76	-185.71	-1.46	0.00	-16.66	-201.07	-185.87									
RUTTE : B0087	46 14.82	-113 37.38		5780.0	MT	980731.89	2.68	-197.14	-1.48	0.00	-3.11	-199.05	-182.90									
RUTTE : B0088	46 14.66	-113 38.20		5811.0	MT	980731.65	4.27	-198.20	-1.48	0.00	-2.52	-197.93	-181.83									
RUTTE : B0089	46 14.46	-113 39.46		5950.0	MT	980731.34	6.17	-202.94	-1.49	0.00	1.80	-196.46	-180.12									
RUTTE : B0090	46 12.80	-113 41.72		6374.0	MT	980728.84	2.27	-217.40	-1.51	0.00	16.60	-200.04	-182.19									
RUTTE : B0091	46 13.28	-113 42.82		6584.0	MT	980729.57	2.05	-224.56	-1.52	0.00	24.79	-199.24	-180.78									
RUTTE : B0092	46 13.56	-113 43.76		6815.0	MT	980729.99	2.06	-232.44	-1.52	0.00	33.03	-198.87	-179.76									
RUTTE : B0093	46 13.96	-113 44.51		6913.0	MT	980730.59	2.64	-235.78	-1.52	0.00	36.24	-198.42	-179.08									
RUTTE : B0094	46 12.06	-113 41.45		6521.0	MT	980727.73	1.66	-222.41	-1.51	0.00	21.66	-200.61	-182.30									
RUTTE : B0095	46 10.89	-113 41.41		6644.0	MT	980725.97	1.47	-226.61	-1.52	0.00	22.84	-203.81	-185.13									
RUTTE : B0096	46 9.57	-113 39.45		7014.0	MT	980723.98	2.01	-239.23	-1.52	0.00	36.95	-201.78	-182.11									
RUTTE : B0097	46 8.40	-113 42.48		7142.0	MT	980722.21	1.66	-243.59	-1.51	0.00	35.92	-207.53	-187.47									
RUTTE : B0098	46 7.61	-113 41.23		6969.0	MT	980721.02	1.99	-237.69	-1.52	0.00	30.59	-206.63	-187.08									
RUTTE : B0099	46 14.49	-113 18.78		5507.0	MT	980731.39	2.39	-187.83	-1.46	0.00	-14.46	-201.36	-185.96									

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj sta-id	LATITUDE deg min	LONGITUDE deg min	ELEVATION (in ft)	GRAVITY OBSERVED THEORETICAL	CORRECTIONS		ANOMALIES	
					TERRAIN BOUGUER CURV	SPECIAL	FREE AIR	COMPLETE-ROUGHER SPEC
							d1=2.67	d2=2.45 FIELDS
RUTTE : B0098	46 11.27	-113 37.96	8639.0 MT	979990.61	980726.54	0.00	76.01	-201.30 -178.45
RUTTE : B0099	46 13.18	-113 39.04	8168.0 MT	980031.62	980729.41	0.00	69.90	-198.73 -176.60
RUTTE : B0100	46 14.66	-113 43.54	8300.0 MT	980024.89	980731.65	0.00	73.34	-195.38 -173.24
RUTTE : B0101	46 13.99	-113 48.04	7614.0 MT	980058.58	980730.64	0.00	62.39	-197.96 -176.51
RUTTE : B0102	46 13.15	-113 47.94	8165.0 MT	980030.58	980729.38	0.00	68.62	-198.24 -176.25
RUTTE : B0103	46 13.09	-113 52.08	7132.0 MT	980095.84	980729.28	0.00	36.94	-194.90 -175.80
RUTTE : B0104	46 11.35	-113 51.70	6052.0 MT	980100.38	980726.66	0.00	2.63	-199.32 -182.68
RUTTE : B0105	46 11.47	-113 49.01	7831.0 MT	980052.17	980726.84	0.00	61.38	-194.82 -173.71
RUTTE : B0106	46 8.44	-113 50.19	6745.0 MT	980110.96	980722.27	0.00	22.71	-200.09 -181.73
RUTTE : B0107	46 9.67	-113 47.38	7394.0 MT	980079.60	980724.13	0.00	50.47	-198.53 -178.01
RUTTE : B0108	46 9.95	-113 38.00	7397.0 MT	980076.35	980724.55	0.00	47.08	-201.87 -181.36
RUTTE : B0109	46 9.50	-113 19.46	6860.0 MT	980115.18	980723.87	0.00	36.13	-196.06 -176.93
RUTTE : B0110	46 9.25	-113 19.48	6884.0 MT	980113.90	980723.49	0.00	37.48	-195.75 -176.53
RUTTE : B0111	46 8.02	-113 20.19	7364.0 MT	980081.38	980721.64	0.00	51.92	-194.77 -174.45
RUTTE : B0112	46 7.55	-113 20.26	7487.0 MT	980071.66	980720.93	0.00	54.46	-196.77 -176.07
RUTTE : B0113	46 7.21	-113 20.01	7444.0 MT	980074.77	980720.41	0.00	54.04	-197.07 -176.38
RUTTE : B0114	46 7.39	-113 17.75	7125.0 MT	980095.42	980720.69	0.00	44.45	-197.36 -177.44
RUTTE : B0115	46 7.82	-113 17.06	7260.0 MT	980091.94	980721.34	0.00	53.00	-193.83 -173.49
RUTTE : B0116	46 7.83	-113 14.14	6970.0 MT	980109.39	980721.35	0.00	43.20	-193.22 -173.74
RUTTE : B0117	46 10.08	-113 12.92	6437.0 MT	980148.21	980724.74	0.00	28.55	-189.23 -171.29
RUTTE : B0118	46 10.14	-113 14.24	6439.0 MT	980147.46	980724.84	0.00	27.90	-191.40 -173.33
RUTTE : B0119	46 10.58	-113 15.55	6392.0 MT	980151.96	980725.50	0.00	27.31	-190.67 -172.71
RUTTE : B0120	46 10.34	-113 17.37	6381.0 MT	980148.38	980725.13	0.00	23.07	-194.54 -176.61
RUTTE : B0121	46 9.31	-113 18.75	6500.0 MT	980137.79	980723.59	0.00	25.21	-195.51 -177.33
RUTTE : B0122	46 9.98	-113 19.55	6402.0 MT	980145.08	980724.59	0.00	22.28	-196.23 -178.22
RUTTE : B0123	46 9.47	-113 21.07	6792.0 MT	980119.59	980723.82	0.00	34.20	-195.64 -176.70
RUTTE : B0124	46 7.96	-113 46.17	8026.0 MT	980032.01	980721.55	0.00	64.82	-200.72 -178.84
RUTTE : B0125	46 7.30	-113 48.89	6882.0 MT	980104.31	980720.55	0.00	30.65	-199.73 -180.75
RUTTE : B0126	46 4.68	-113 49.67	8150.0 MT	980016.38	980716.60	0.00	65.79	-198.50 -176.72
RUTTE : B0127	46 3.79	-113 47.51	8975.0 MT	979957.98	980715.26	0.00	86.23	-202.51 -178.72
RUTTE : B0128	46 6.12	-113 45.91	8796.0 MT	979971.77	980718.77	0.00	79.69	-202.46 -179.22
RUTTE : B0129	46 4.37	-113 43.05	8460.0 MT	979998.71	980716.13	0.00	77.71	-197.72 -175.02
RUTTE : B0130	46 7.32	-113 39.27	6653.0 MT	980116.03	980720.59	0.00	20.82	-204.57 -186.00
RUTTE : B0131	46 7.00	-113 33.49	7329.0 MT	980073.97	980720.10	0.00	42.75	-202.30 -182.11
RUTTE : B0132	46 11.99	-113 15.13	6465.0 MT	980151.49	980727.63	0.00	31.58	-188.89 -170.72
RUTTE : B0133	46 12.79	-113 15.43	6475.0 MT	980150.29	980728.83	0.00	30.11	-190.29 -172.13
RUTTE : B0134	46 13.45	-113 15.09	6614.0 MT	980142.85	980729.62	0.00	34.74	-190.68 -172.11
RUTTE : B0135	46 14.15	-113 15.45	6673.0 MT	980139.99	980730.88	0.00	36.37	-191.01 -172.27
RUTTE : B0136	46 14.73	-113 16.02	7045.0 MT	980114.88	980731.75	0.00	45.33	-192.68 -173.07
RUTTE : B0137	46 13.12	-113 17.50	6587.0 MT	980141.22	980729.33	0.00	31.07	-189.46 -171.29

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION		L O C A T I O N		C O R R E C T I O N S	C O R R E C T I O N S		TERRAIN BOUGUER CURV		FREE AIR	A N O M A L I E S		SPEC FIELDS			
proj	sta-id	LATITUDE deg	LONGITUDE deg		ELEV (in ft)	ST	TERRAIN BOUGUER CURV	SPECIAL		COMPLETE-BOUGUER d1=2.67 d2=2.45					
RUTTE :	B0138	46	9.16	-113 12.74	6510.0	MT	980140.88	980723.36	3.57	-222.04	-1.51	0.00	29.47	-190.52	-172.39
RUTTE :	B0139	46	8.57	-113 13.17	6640.0	MT	980129.59	980722.47	4.99	-226.47	-1.52	0.00	31.28	-191.72	-173.34
RUTTE :	B0140	46	8.65	-113 15.75	7457.0	MT	980079.70	980722.59	5.27	-254.34	-1.50	0.00	58.02	-192.55	-171.90
RUTTE :	B0141	46	8.18	-113 16.07	7282.0	MT	980092.93	980721.88	2.54	-248.37	-1.51	0.00	55.52	-191.82	-171.44
RUTTE :	B0142	46	5.71	-113 20.87	7805.0	MT	980043.77	980718.16	11.45	-266.21	-1.48	0.00	59.22	-197.02	-175.91
RUTTE :	B0143	46	5.70	-113 18.48	8408.0	MT	980012.63	980718.14	6.13	-286.77	-1.43	0.00	84.74	-197.34	-174.09
RUTTE :	B0144	46	3.33	-113 27.93	8062.0	MT	980021.09	980714.57	7.92	-274.97	-1.46	0.00	64.27	-204.24	-182.12
RUTTE :	B0145	46	5.61	-113 25.22	7204.0	MT	980084.87	980718.01	3.63	-245.71	-1.51	0.00	44.01	-199.58	-179.51
RUTTE :	B0146	46	5.87	-113 28.23	7096.0	MT	980083.93	980718.40	4.90	-242.02	-1.51	0.00	32.53	-206.11	-186.45
RUTTE :	B0147	46	2.69	-113 30.53	7608.0	MT	980041.86	980713.60	9.61	-259.49	-1.50	0.00	43.35	-208.02	-187.31
RUTTE :	B0148	46	1.18	-113 32.78	7875.0	MT	980025.43	980711.33	9.54	-268.59	-1.48	0.00	54.28	-206.25	-184.78
RUTTE :	B0149	46	1.57	-113 35.38	7812.0	MT	980029.82	980711.91	8.35	-266.45	-1.48	0.00	52.17	-207.41	-186.02
RUTTE :	B0150	46	2.97	-113 37.85	8122.0	MT	980014.14	980714.02	13.82	-277.02	-1.46	0.00	63.50	-201.16	-179.35
RUTTE :	B0151	46	2.90	-113 44.76	8750.0	MT	979971.24	980713.92	18.20	-298.44	-1.39	0.00	79.69	-201.94	-178.73
RUTTE :	B0152	46	0.95	-113 45.22	7890.0	MT	980033.01	980710.98	5.59	-269.10	-1.48	0.00	63.62	-201.38	-179.54
RUTTE :	B0153	46	0.31	-113 47.52	7683.0	MT	980040.00	980710.02	7.44	-262.05	-1.49	0.00	52.13	-203.97	-182.87
RUTTE :	B0154	46	1.88	-113 51.80	6868.0	MT	980091.83	980712.38	2.44	-234.25	-1.52	0.00	25.02	-208.30	-189.08
RUTTE :	B0155	46	5.74	-113 56.06	7353.0	MT	980064.36	980718.20	11.15	-250.79	-1.51	0.00	37.30	-203.85	-183.98
RUTTE :	B0156	46	4.63	-113 53.23	7051.0	MT	980088.54	980716.52	5.51	-240.49	-1.51	0.00	34.78	-201.71	-182.23
RUTTE :	B0157	46	11.58	-113 42.78	6438.0	MT	980137.78	980727.01	1.77	-219.58	-1.51	0.00	15.95	-203.38	-185.30
RUTTE :	B0159	46	12.07	-113 43.02	6510.0	MT	980137.37	980727.74	1.51	-222.04	-1.51	0.00	21.56	-200.48	-182.18
RUTTE :	B0160	46	11.61	-113 41.55	6490.0	MT	980136.07	980727.05	1.76	-221.35	-1.51	0.00	19.08	-202.03	-183.81
RUTTE :	B0161	46	9.87	-113 40.43	6670.0	MT	980120.90	980724.43	2.22	-227.49	-1.52	0.00	23.44	-203.35	-184.66
RUTTE :	B0162	46	9.02	-113 43.70	7402.0	MT	980073.75	980723.15	2.60	-252.46	-1.51	0.00	46.35	-205.02	-184.31
RUTTE :	B0163	46	9.58	-113 43.00	7727.0	MT	980052.01	980723.99	6.00	-263.55	-1.49	0.00	54.29	-204.74	-183.40
RUTTE :	B0164	46	8.61	-113 40.91	7371.0	MT	980074.10	980722.53	3.43	-251.40	-1.51	0.00	44.40	-205.08	-184.52
RUTTE :	B0165	46	9.22	-113 41.06	6715.0	MT	980115.72	980723.45	2.67	-229.03	-1.52	0.00	23.47	-204.40	-185.63
RUTTE :	B0167	46	8.45	-113 20.95	6885.0	MT	980112.78	980722.29	2.91	-234.83	-1.52	0.00	37.67	-195.77	-176.53
RUTTE :	B0168	46	7.82	-113 23.44	6238.0	MT	980146.62	980721.34	1.85	-212.76	-1.51	0.00	11.66	-200.75	-183.25
RUTTE :	B0169	46	8.40	-113 22.70	6170.0	MT	980149.96	980722.21	1.71	-210.44	-1.50	0.00	7.74	-202.49	-185.17
RUTTE :	B0170	46	8.70	-113 23.83	5899.0	MT	980168.67	980722.66	2.53	-201.20	-1.49	0.00	0.54	-199.62	-183.13
RUTTE :	B0171	46	12.13	-113 17.21	6581.0	MT	980141.10	980727.84	2.85	-224.46	-1.52	0.00	31.88	-191.25	-172.86
RUTTE :	B0172	46	11.54	-113 18.00	6596.0	MT	980139.14	980726.95	2.80	-224.97	-1.52	0.00	32.21	-191.47	-173.04
RUTTE :	B0173	46	11.87	-113 18.76	6734.0	MT	980129.56	980727.45	4.52	-229.68	-1.52	0.00	35.10	-191.57	-172.89
RUTTE :	B0174	46	8.44	-113 9.89	7340.0	MT	980088.29	980722.27	6.18	-250.35	-1.51	0.00	55.94	-189.74	-169.49
RUTTE :	B0175	46	6.80	-113 11.11	9129.0	MT	979959.17	980719.80	17.59	-311.36	-1.34	0.00	97.34	-197.77	-173.46
RUTTE :	B0176	46	5.73	-113 13.36	8736.0	MT	979986.39	980718.19	17.35	-297.96	-1.39	0.00	89.26	-192.75	-169.51
RUTTE :	B0177	46	4.59	-113 14.90	9607.0	MT	979926.94	980716.47	18.75	-327.67	-1.26	0.00	113.33	-196.85	-171.29
RUTTE :	B0178	46	4.88	-113 12.05	8011.0	MT	980030.94	980716.91	5.49	-273.23	-1.47	0.00	66.99	-202.22	-180.04
RUTTE :	B0179	46	4.66	-113 9.07	8946.0	MT	979971.93	980716.57	7.20	-305.12	-1.37	0.00	96.14	-203.15	-178.49

West half BUTTE Quad
 Bouguer Gravity at Density=2.67
 Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj sta-id	L LATITUDE deg	C LONGITUDE deg	A TIME min	N ELEVATION (in ft)	G OBSERVED GRAVITY	P THEORETICAL GRAVITY	T TERRAIN BOUGUER CORRECTION	C CURVATURE CORRECTION	S SPECIAL	A FREE AIR	N COMPLETE-BOUGUER CORRECTION	S SPEC FIELDS
RUTTE : B0180	46	1.76	-113	9.89	8956.0	MT	979958.25	980712.20	0.00	87.77	-209.32	-184.84
RUTTE : B0181	46	3.57	-113	6.36	10280.0	MT	979852.35	980714.93	0.00	103.48	-211.71	-185.74
RUTTE : B0182	46	4.81	-113	3.96	9976.0	MT	979820.07	980716.80	0.00	102.78	-212.36	-186.39
RUTTE : B0183	46	5.22	-113	1.70	7890.0	MT	980030.04	980717.41	0.00	54.21	-210.00	-188.23
RUTTE : B0184	46	6.00	-113	1.31	8012.0	MT	980021.50	980718.59	0.00	55.95	-207.24	-185.55
RUTTE : B0185	46	7.86	-113	25.50	5911.0	MT	980166.25	980721.40	0.00	0.51	-199.56	-183.07
RUTTE : B0186	46	9.61	-113	24.29	6393.0	MT	980138.35	980724.04	0.00	15.26	-201.73	-183.85
RUTTE : B0187	46	10.74	-113	25.81	5955.0	MT	980160.85	980725.74	0.00	-5.10	-208.83	-192.04
RUTTE : B0188	46	11.60	-113	25.71	5890.0	MT	980168.07	980727.03	0.00	-5.28	-206.59	-190.00
RUTTE : B0189	46	11.69	-113	24.77	5780.0	MT	980173.31	980727.17	0.00	-10.51	-208.09	-191.81
RUTTE : B0190	46	14.03	-113	21.20	5458.0	MT	980195.86	980730.70	0.00	-21.75	-208.00	-192.66
RUTTE : B0191	46	13.36	-113	22.10	5445.0	MT	980197.94	980729.69	0.00	-19.88	-205.66	-190.35
RUTTE : B0192	46	12.80	-113	18.42	6402.0	MT	980140.36	980728.84	0.00	22.31	-193.65	-175.86
RUTTE : B0193	46	13.59	-113	19.10	5730.0	MT	980183.70	980730.03	0.00	-7.68	-202.64	-186.57
RUTTE : B0194	46	14.24	-113	19.59	5580.0	MT	980191.31	980731.02	0.00	-15.15	-205.40	-189.72
RUTTE : B0195	46	14.81	-113	20.83	5395.0	MT	980200.82	980731.88	0.00	-23.88	-207.99	-192.82
RUTTE : B0196	46	12.90	-113	21.51	5596.0	MT	980186.37	980728.99	0.00	-16.57	-207.26	-191.55
RUTTE : B0197	46	13.36	-113	20.84	5555.0	MT	980193.96	980729.69	0.00	-13.52	-202.60	-187.02
RUTTE : B0198	46	10.83	-113	20.21	6817.0	MT	980118.84	980725.88	0.00	33.75	-194.73	-175.91
RUTTE : B0199	46	4.06	-113	32.21	5922.0	MT	980153.77	980715.66	0.00	-5.20	-205.53	-189.02
RUTTE : B0200	46	3.93	-113	32.60	5948.0	MT	980152.63	980715.47	0.00	-3.70	-204.86	-188.28
RUTTE : B0201	46	2.86	-113	35.09	6104.0	MT	980141.18	980713.86	0.00	1.11	-204.72	-187.76
RUTTE : B0202	46	0.88	-113	36.84	6355.0	MT	980121.54	980710.88	0.00	8.04	-206.64	-188.95
RUTTE : B0203	46	1.92	-113	36.72	6213.0	MT	980130.81	980712.44	0.00	2.41	-206.04	-188.86
RUTTE : B0204	46	1.48	-113	38.55	6970.0	MT	980088.84	980711.79	0.00	32.23	-204.58	-185.06
RUTTE : B0205	46	1.50	-113	39.79	7296.0	MT	980069.43	980711.80	0.00	43.41	-205.01	-184.54
RUTTE : B0206	46	2.57	-113	40.65	7546.0	MT	980055.57	980713.42	0.00	51.42	-204.05	-183.00
RUTTE : B0207	46	2.35	-113	39.99	7355.0	MT	980068.03	980713.09	0.00	46.27	-204.22	-183.58
RUTTE : B0208	46	1.02	-113	40.62	7442.0	MT	980060.50	980711.09	0.00	48.92	-202.98	-182.22
RUTTE : B0209	46	0.23	-113	39.54	7943.0	MT	980023.91	980709.89	0.00	60.59	-205.36	-183.44
RUTTE : B0210	46	0.45	-113	40.61	7350.0	MT	980063.01	980710.23	0.00	43.64	-205.12	-184.62
RUTTE : B0211	46	4.52	-113	31.19	5882.0	MT	980154.35	980716.36	0.00	-9.08	-208.12	-191.72
RUTTE : B0212	46	5.03	-113	30.34	5881.0	MT	980154.64	980717.13	0.00	-9.65	-208.75	-192.35
RUTTE : B0213	46	10.19	-113	10.94	6350.0	MT	980154.04	980724.91	0.00	26.04	-189.99	-172.19
RUTTE : B0214	46	11.44	-113	11.75	6457.0	MT	980151.01	980726.80	0.00	31.17	-188.27	-170.19
RUTTE : B0215	46	11.69	-113	12.47	6580.0	MT	980144.84	980727.17	0.00	36.19	-187.63	-169.19
RUTTE : B0216	46	12.98	-113	12.55	6875.0	MT	980126.17	980729.12	0.00	43.29	-188.58	-169.47
RUTTE : B0217	46	17.68	-113	38.61	7245.0	MT	980099.73	980736.20	0.00	44.53	-196.19	-176.36
RUTTE : B0218	46	16.97	-113	40.44	6867.0	MT	980123.11	980735.13	0.00	33.46	-195.91	-177.01
RUTTE : B0219	46	16.29	-113	41.42	7715.0	MT	980061.25	980734.10	0.00	52.29	-199.85	-179.07

West half BUTTE Quad
 Bouguer Gravity at Density=2.67
 Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj sta-id	LATITUDE deg min	LONGITUDE deg min	ELEVATION (in ft)	GRAVITY OBSERVED THEORETICAL	CORRECTIONS		ANOMALIES	
					TERRAIN BOUGUER CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER SPEC FIELDS
RUTTE : B0220	46 16.96	-113 43.68	8015.0 MT	980045.84	980735.12	0.00	64.05	-197.80 -176.26
RUTTE : B0221	46 17.20	-113 49.00	7224.0 MT	980102.48	980735.48	0.00	46.03	-192.99 -173.30
RUTTE : B0222	46 18.30	-113 49.02	8237.0 MT	980034.85	980737.13	0.00	71.90	-193.07 -171.24
RUTTE : B0223	46 18.36	-113 46.81	8656.0 MT	980007.54	980737.23	0.00	83.85	-195.29 -172.29
RUTTE : B0224	46 19.41	-113 45.86	7603.0 MT	980082.73	980738.80	0.00	58.55	-197.07 -176.01
RUTTE : B0225	46 21.33	-113 40.53	6541.0 MT	980146.32	980741.70	0.00	19.47	-201.19 -183.01
RUTTE : B0226	46 11.62	-113 29.04	5455.0 MT	980200.75	980727.06	0.00	-13.51	-199.05 -183.76
RUTTE : B0227	46 11.43	-113 28.36	5508.0 MT	980197.92	980726.78	0.00	-11.07	-198.70 -183.24
RUTTE : B0228	46 11.08	-113 27.36	5630.0 MT	980188.43	980726.25	0.00	-8.57	-200.21 -184.42
RUTTE : B0229	46 10.62	-113 23.43	6293.0 MT	980145.37	980725.55	0.00	11.36	-201.97 -184.40
RUTTE : B0230	46 11.09	-113 22.79	5918.0 MT	980168.44	980726.27	0.00	-1.51	-203.65 -187.00
RUTTE : B0231	46 11.13	-113 24.59	5775.0 MT	980174.91	980726.33	0.00	-8.54	-205.98 -189.71
RUTTE : B0232	46 12.24	-113 24.00	5725.0 MT	980178.76	980728.00	0.00	-11.06	-206.74 -190.61
RUTTE : B0233	46 12.60	-113 23.22	5550.0 MT	980190.57	980728.54	0.00	-16.24	-205.73 -190.11
RUTTE : B0234	46 7.28	-113 25.35	6303.0 MT	980138.09	980720.52	0.00	10.06	-204.43 -186.75
RUTTE : B0235	46 6.57	-113 25.85	6125.0 MT	980148.26	980719.45	0.00	4.57	-201.83 -184.82
RUTTE : B0236	46 4.60	-113 26.84	6780.0 MT	980106.19	980716.48	0.00	27.01	-202.47 -183.56
RUTTE : B0237	46 2.32	-113 26.96	7346.0 MT	980062.98	980713.05	0.00	40.42	-206.17 -185.86
RUTTE : B0238	46 1.90	-113 26.20	7166.0 MT	980074.00	980712.41	0.00	35.16	-204.62 -184.86
RUTTE : B0239	46 1.93	-113 27.08	6920.0 MT	980089.12	980712.45	0.00	27.12	-204.65 -185.56
RUTTE : B0240	46 0.90	-113 27.12	7676.0 MT	980038.37	980710.91	0.00	48.95	-209.25 -187.98
RUTTE : B0241	46 0.97	-113 28.36	7555.0 MT	980046.84	980711.01	0.00	45.95	-209.11 -188.09
RUTTE : B0242	46 0.52	-113 28.37	7780.0 MT	980030.39	980710.33	0.00	51.31	-210.67 -189.09
RUTTE : B0243	46 10.00	-114 8.00	3697.0 MT	980317.37	980724.63	0.00	-59.67	-179.86 -169.96
RUTTE : B0244	46 0.19	-113 59.20	6081.0 MT	980143.38	980709.84	0.00	5.18	-200.90 -183.92
RUTTE : B0245	46 1.80	-113 59.41	5868.0 MT	980157.33	980712.26	0.00	-3.31	-202.57 -186.15
RUTTE : B0246	46 3.70	-113 59.45	6562.0 MT	980116.50	980715.13	0.00	18.20	-202.08 -183.93
RUTTE : B0247	46 4.74	-113 59.77	6681.0 MT	980111.53	980716.70	0.00	22.85	-198.49 -180.25
RUTTE : B0248	46 5.45	-113 59.76	6301.0 MT	980129.13	980717.77	0.00	3.67	-201.07 -184.20
RUTTE : B0249	46 2.79	-113 59.89	5790.0 MT	980166.81	980713.75	0.00	-2.65	-198.65 -182.50
RUTTE : B0250	46 2.02	-113 56.16	6653.0 MT	980107.15	980712.59	0.00	19.93	-206.36 -187.71
RUTTE : B0251	45 59.46	-113 51.30	6978.0 MT	980084.95	980708.73	0.00	32.13	-205.26 -185.70
RUTTE : B0252	46 0.59	-113 53.13	7005.0 MT	980083.74	980710.44	0.00	31.75	-204.76 -185.27
RUTTE : B0253	46 1.14	-113 54.77	7002.0 MT	980083.37	980711.27	0.00	30.27	-204.42 -185.08
RUTTE : B0254	46 1.68	-113 53.76	6561.0 MT	980112.98	980712.08	0.00	17.64	-205.85 -187.44
RUTTE : B0255	46 0.72	-113 49.92	7334.0 MT	980063.91	980710.63	0.00	42.64	-205.09 -184.68
RUTTE : B0256	46 1.74	-113 48.28	8135.0 MT	980015.47	980712.17	0.00	67.90	-202.96 -180.64
RUTTE : B0257	46 7.76	-113 51.19	5196.0 MT	980199.85	980721.25	0.00	-32.93	-203.89 -189.80
RUTTE : B0258	46 6.36	-113 51.68	5710.0 MT	980165.90	980719.13	0.00	-16.47	-205.49 -189.91

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj sta-id	LATITUDE deg min	C A T I LONGITUDE deg min	D N S ELE (in ft)	G P A V I T Y UNRSERVED THEORETICAL	C O R R E C T I O N S TERRAIN BOUGUER CURV	A N O M A L I E S						
						FREE AIR	COMPLFIE-ROUGHER d1=2.67 d2=2.45	SPEC FIELDS				
RUTTF : B0259	46	2.27	-113 49.83	7545.0 MT	980712.97	4.30	-257.34	-1.50	0.00	50.50	-204.04	-183.06
RUTTF : B0260	46	3.37	-113 52.12	6904.0 MT	980714.63	2.88	-235.48	-1.52	0.00	30.22	-203.89	-184.60
RUTTF : B0261	46	3.49	-113 53.62	6150.0 MT	980714.80	2.75	-209.76	-1.50	0.00	5.22	-203.29	-186.11
RUTTF : B0262	46	3.50	-113 51.12	7210.0 MT	980714.82	3.61	-245.91	-1.51	0.00	38.74	-205.07	-184.98
RUTTF : B0263	46	5.29	-113 51.26	7339.0 MT	980717.52	7.40	-250.31	-1.51	0.00	43.13	-201.29	-181.15
RUTTF : B0264	46	6.90	-113 52.92	6961.0 MT	980719.95	6.76	-237.42	-1.52	0.00	30.75	-201.42	-182.29
RUTTF : B0265	46	7.48	-113 56.36	6704.0 MT	980720.82	5.20	-228.65	-1.52	0.00	22.37	-202.60	-184.06
RUTTF : B0266	46	8.13	-113 58.24	6862.0 MT	980721.80	11.14	-234.04	-1.52	0.00	21.18	-203.24	-184.75
RUTTF : B0267	46	5.76	-113 54.57	6795.0 MT	980718.23	2.34	-231.76	-1.52	0.00	26.49	-204.45	-185.42
RUTTF : B0268	46	4.69	-113 56.13	7041.0 MT	980716.62	7.26	-240.15	-1.52	0.00	33.82	-200.58	-181.27
RUTTF : B0269	46	7.52	-113 54.95	7516.0 MT	980720.88	11.76	-256.35	-1.50	0.00	42.56	-203.53	-183.25
RUTTF : B0270	46	8.44	-113 54.95	7529.0 MT	980722.27	14.55	-256.79	-1.50	0.00	39.58	-204.16	-184.08
RUTTF : B0271	46	9.51	-113 53.00	4820.0 MT	980723.88	9.05	-164.40	-1.39	0.00	-46.85	-203.59	-190.67
RUTTF : B0272	46	10.24	-113 54.51	4660.0 MT	980724.98	9.61	-158.94	-1.37	0.00	-53.86	-204.56	-192.14
RUTTF : B0273	46	3.11	-113 33.77	6100.0 MT	980714.23	3.26	-208.05	-1.50	0.00	-1.04	-207.34	-190.34
RUTTF : B0274	46	1.90	-113 33.84	6500.0 MT	980712.41	3.31	-221.70	-1.51	0.00	11.89	-208.01	-189.89
RUTTF : B0275	46	0.26	-113 34.82	7810.0 MT	980709.94	5.30	-266.38	-1.48	0.00	56.68	-205.88	-184.24
RUTTF : B0276	46	4.53	-113 35.67	7252.0 MT	980716.38	4.55	-247.34	-1.51	0.00	42.78	-201.52	-181.39
RUTTF : B0277	46	3.65	-113 35.35	6530.0 MT	980715.05	2.29	-222.72	-1.51	0.00	18.23	-203.71	-185.43
RUTTF : B0278	46	3.31	-113 31.85	6038.0 MT	980714.54	3.21	-205.94	-1.50	0.00	-3.24	-207.46	-190.63
RUTTF : B0279	46	1.95	-113 31.40	6100.0 MT	980712.48	5.70	-208.05	-1.50	0.00	-3.22	-207.07	-190.27
RUTTF : B0280	46	0.15	-113 31.60	6322.0 MT	980709.77	8.25	-215.63	-1.51	0.00	5.58	-203.31	-186.10
RUTTF : B0281	46	2.26	-113 29.68	6500.0 MT	980712.95	7.23	-221.70	-1.51	0.00	8.07	-207.91	-190.11
RUTTF : B0282	46	5.76	-113 32.27	6220.0 MT	980718.23	2.24	-212.15	-1.51	0.00	6.08	-205.33	-187.91
RUTTF : B0283	46	6.02	-113 30.16	5852.0 MT	980718.63	2.19	-199.59	-1.49	0.00	-9.49	-208.38	-191.99
RUTTF : B0284	46	11.06	-113 30.11	5454.0 MT	980726.22	1.40	-186.02	-1.46	0.00	-16.23	-202.31	-186.98
RUTTF : B0285	46	9.80	-113 33.12	5609.0 MT	980724.32	2.44	-191.31	-1.47	0.00	-10.61	-200.94	-185.26
RUTTF : B0286	46	9.29	-113 34.11	5636.0 MT	980723.55	2.83	-192.23	-1.47	0.00	-8.38	-199.25	-183.52
RUTTF : B0287	46	8.87	-113 34.54	5710.0 MT	980722.92	2.63	-194.75	-1.48	0.00	-6.89	-200.49	-184.54
RUTTF : B0288	46	8.66	-113 37.39	6183.0 MT	980722.60	1.91	-210.88	-1.50	0.00	8.14	-202.34	-184.99
RUTTF : B0289	46	7.83	-113 39.03	6644.0 MT	980721.35	2.25	-226.61	-1.52	0.00	20.88	-204.99	-186.38
RUTTF : B0290	46	7.01	-113 35.41	6070.0 MT	980720.12	2.19	-207.03	-1.50	0.00	2.94	-203.40	-186.39
RUTTF : B0291	46	7.77	-113 36.42	5946.0 MT	980721.26	2.04	-202.80	-1.49	0.00	1.79	-200.46	-183.79
RUTTF : B0292	46	10.74	-113 29.60	5533.0 MT	980725.74	1.35	-188.71	-1.46	0.00	-14.12	-202.95	-187.39
RUTTF : B0293	46	8.66	-113 29.60	5622.0 MT	980722.60	2.35	-191.75	-1.47	0.00	-12.12	-202.99	-187.26
RUTTF : B0294	46	10.53	-113 28.04	5558.0 MT	980725.42	1.38	-189.57	-1.47	0.00	-13.86	-203.51	-187.88
RUTTF : B0295	46	12.43	-113 30.26	5353.0 MT	980728.29	3.43	-182.57	-1.45	0.00	-19.68	-200.28	-185.40
RUTTF : B0296	46	12.19	-113 34.72	6244.0 MT	980727.92	1.97	-212.96	-1.51	0.00	9.96	-202.54	-185.03
RUTTF : B0297	46	11.39	-113 34.29	6250.0 MT	980726.72	2.55	-213.17	-1.51	0.00	11.56	-200.56	-183.08
RUTTF : B0298	46	12.68	-113 35.24	5909.0 MT	980728.66	2.64	-201.54	-1.49	0.00	-1.26	-201.65	-185.14

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

BOUGUER GRAVITY DATA

STATION		L U C A T I		O N S		C R A V J T Y		C O R P E C T I O N S		A N O M A L I E S		S P E C						
ID	sta-id	lat	long	deg	min	ele	st	ursrved	thoretical	terrain	bouguer	curv	special	free	air	complete	rougher	spec
		deg	min	deg	min	(in ft)										d1=2.67	d2=2.45	fields
RUTTE :	B0299	46	9.80	-114	1.04	4179.0	MT	980267.54	980724.32	7.04	-142.53	-1.29	0.00	-63.89	-200.68	-189.41		
RUTTE :	B0300	46	9.56	-113	58.93	4289.0	MT	980255.27	980723.96	10.16	-146.29	-1.31	0.00	-65.46	-202.89	-191.57		
RUTTE :	B0301	46	9.81	-113	57.32	4430.0	MT	980246.00	980724.34	10.72	-151.09	-1.33	0.00	-61.86	-203.56	-191.89		
RUTTE :	B0302	46	9.95	-113	56.15	4550.0	MT	980238.47	980724.55	10.63	-155.19	-1.35	0.00	-58.32	-204.23	-192.21		
RUTTE :	B0303	46	10.08	-113	58.56	5507.0	MT	980184.15	980724.74	5.73	-189.19	-1.47	0.00	-19.14	-204.07	-188.83		
RUTTE :	B0304	46	10.32	-113	56.61	5730.0	MT	980172.66	980725.11	7.88	-195.43	-1.48	0.00	-13.79	-202.83	-187.25		
RUTTE :	B0305	46	11.38	-113	56.52	6390.0	MT	980136.08	980726.70	10.52	-217.94	-1.51	0.00	10.04	-198.90	-181.68		
RUTTE :	B0306	46	12.20	-113	56.11	5761.0	MT	980176.69	980727.94	4.73	-196.49	-1.48	0.00	-9.69	-202.93	-187.01		
RUTTE :	B0307	46	12.17	-113	57.23	5971.0	MT	980167.82	980727.89	3.55	-203.65	-1.49	0.00	1.22	-200.38	-183.77		
RUTTE :	B0308	46	12.47	-113	58.14	6042.0	MT	980161.77	980728.34	7.35	-206.08	-1.50	0.00	1.39	-198.83	-182.33		
RUTTE :	B0309	46	12.81	-113	56.66	6811.0	MT	980115.53	980728.86	8.10	-232.30	-1.52	0.00	26.89	-198.83	-180.23		
RUTTE :	B0310	46	11.31	-113	55.30	6683.0	MT	980121.27	980726.60	7.20	-227.94	-1.52	0.00	22.87	-199.39	-181.07		
RUTTE :	B0311	46	12.45	-113	54.64	7702.0	MT	980054.54	980728.32	16.48	-262.69	-1.49	0.00	50.15	-197.56	-177.15		
RUTTE :	B0312	46	12.89	-113	53.27	7485.0	MT	980076.14	980728.98	12.58	-255.29	-1.50	0.00	50.70	-193.51	-173.39		
RUTTE :	B0313	46	14.32	-113	53.32	7869.0	MT	980056.10	980731.13	9.34	-268.39	-1.48	0.00	64.58	-195.95	-174.48		
RUTTE :	B0314	46	13.94	-113	55.09	7559.0	MT	980071.72	980730.56	11.73	-257.82	-1.50	0.00	51.65	-195.94	-175.54		
RUTTE :	B0315	46	10.88	-113	59.59	5676.0	MT	980182.28	980725.95	4.79	-193.59	-1.48	0.00	-10.10	-200.37	-184.69		
RUTTE :	B0316	46	11.14	-113	53.50	4825.0	MT	980225.50	980726.34	12.42	-164.57	-1.39	0.00	-47.24	-200.77	-188.12		
RUTTE :	B0317	46	11.75	-113	52.06	5125.0	MT	980212.36	980727.26	8.78	-174.80	-1.42	0.00	-33.11	-200.55	-186.75		
RUTTE :	B0318	46	12.32	-113	51.60	5264.0	MT	980205.41	980728.12	9.66	-179.54	-1.44	0.00	-27.85	-199.17	-185.05		
RUTTE :	B0319	46	10.58	-113	50.88	6242.0	MT	980149.32	980725.50	3.17	-212.90	-1.51	0.00	10.58	-200.65	-183.25		
RUTTE :	B0320	46	12.95	-113	51.13	5460.0	MT	980193.75	980729.07	8.16	-186.23	-1.46	0.00	-22.04	-201.57	-186.77		
RUTTE :	B0321	46	14.25	-113	50.52	5830.0	MT	980175.89	980731.03	7.51	-198.84	-1.49	0.00	-7.10	-199.92	-184.03		
RUTTE :	B0322	46	15.22	-113	49.52	6168.0	MT	980156.54	980732.49	7.40	-210.37	-1.50	0.00	3.85	-200.62	-183.78		
RUTTE :	B0323	46	15.27	-113	48.03	6632.0	MT	980132.77	980732.57	4.62	-226.20	-1.52	0.00	23.61	-199.49	-181.11		
RUTTE :	B0324	46	14.72	-113	46.33	7260.0	MT	980097.80	980731.74	3.49	-247.62	-1.51	0.00	48.46	-197.18	-176.94		
RUTTE :	B0325	46	13.99	-113	45.31	7038.0	MT	980109.89	980730.64	3.28	-240.05	-1.52	0.00	40.80	-197.48	-177.85		
RUTTE :	B0326	46	10.99	-113	45.48	6520.0	MT	980132.56	980726.12	2.12	-222.38	-1.51	0.00	19.33	-202.45	-184.17		
RUTTE :	B0327	46	9.05	-113	45.75	6750.0	MT	980117.84	980723.19	2.38	-230.22	-1.52	0.00	29.14	-200.22	-181.32		
RUTTE :	B0328	46	9.71	-113	46.25	6680.0	MT	980122.41	980724.19	2.54	-227.84	-1.52	0.00	26.14	-200.67	-181.98		
RUTTE :	B0329	46	11.99	-113	45.82	6630.0	MT	980129.99	980727.63	1.97	-226.13	-1.52	0.00	25.58	-200.10	-181.50		
RUTTE :	B0330	46	15.90	-113	47.35	7604.0	MT	980078.54	980733.52	5.51	-259.35	-1.50	0.00	59.74	-195.60	-174.56		
RUTTE :	B0331	46	16.20	-113	48.34	7488.0	MT	980083.76	980733.97	6.34	-255.39	-1.50	0.00	53.61	-196.95	-176.30		
RUTTE :	B0332	46	17.77	-113	59.32	4305.0	MT	980278.80	980736.34	4.69	-146.83	-1.31	0.00	-52.81	-196.26	-184.44		
RUTTE :	B0333	46	17.72	-113	58.28	4463.0	MT	980266.98	980736.26	6.04	-152.22	-1.34	0.00	-49.70	-197.21	-185.06		
RUTTE :	B0334	46	17.60	-113	55.96	5120.0	MT	980223.01	980736.08	9.77	-174.63	-1.42	0.00	-31.75	-198.03	-184.33		
RUTTE :	B0335	46	18.23	-113	56.24	5841.0	MT	980188.01	980737.03	5.49	-199.22	-1.49	0.00	0.06	-195.16	-179.07		
RUTTE :	B0336	46	18.87	-113	55.98	6702.0	MT	980139.94	980737.99	8.55	-228.59	-1.52	0.00	31.92	-189.63	-171.38		
RUTTE :	B0337	46	18.74	-113	55.07	7138.0	MT	980112.09	980737.80	10.77	-243.46	-1.51	0.00	45.23	-188.97	-169.67		
RUTTE :	B0338	46	19.26	-113	54.21	8202.0	MT	980040.82	980738.58	21.81	-279.75	-1.45	0.00	73.13	-186.26	-164.89		

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

BOUGUER GRAVITY DATA

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STATION IDENTIFICATION proj sta-id	LATITUDE deg	LONGITUDE deg min	ELEVATION ELE (in ft)	OBSERVED	GRAVITY THEORETICAL	TERRAIN BOUGUER CURV	CORRECTION	SPECIAL	FREE AIR	ANOMALIES	
										COMPLTE	SPEC FIELDS
										d1=2.67	d2=2.45
RUTTF : B0339	46 17.95	-113 52.26	4463.0 MT	980021.85	980736.61	18.78	-288.65	0.00	80.65	-190.64	-168.29
RUTTF : B0340	46 17.39	-113 51.21	8399.0 MT	980029.76	980735.77	11.55	-286.47	0.00	83.39	-192.96	-170.19
RUTTF : B0341	46 16.32	-113 51.98	8025.0 MT	980051.84	980734.15	8.49	-273.71	0.00	71.96	-194.73	-172.75
RUTTF : B0342	46 18.26	-113 50.24	7246.0 MT	980105.20	980737.07	4.54	-247.14	0.00	49.21	-194.90	-174.78
RUTTF : B0343	46 19.82	-113 49.45	7210.0 MT	980109.31	980739.42	7.84	-245.91	0.00	47.59	-191.99	-172.25
RUTTE : B0344	46 19.37	-113 52.06	7650.0 MT	980083.60	980738.75	7.97	-260.92	0.00	63.89	-190.55	-169.59
RUTTE : B0345	46 16.71	-113 59.80	4686.0 MT	980253.11	980734.73	3.28	-159.83	0.00	-41.09	-199.01	-185.99
RUTTF : B0346	46 16.47	-113 58.64	5264.0 MT	980225.58	980734.38	5.08	-179.54	0.00	-13.94	-189.84	-175.35
RUTTF : B0347	46 14.74	-113 59.24	6176.0 MT	980155.68	980731.77	7.95	-210.65	0.00	4.47	-199.73	-182.91
RUTTE : B0348	46 15.61	-113 53.52	7394.0 MT	980096.39	980733.08	6.63	-252.19	0.00	58.30	-188.76	-168.41
RUTTF : B0349	46 15.51	-113 55.31	7350.0 MT	980090.48	980732.93	11.44	-250.69	0.00	48.41	-192.34	-172.51
RUTTF : B0350	46 15.56	-113 58.18	6765.0 MT	980119.76	980733.01	12.58	-230.73	0.00	22.65	-197.02	-178.92
RUTTF : B0351	46 13.65	-113 59.52	4802.0 MT	980237.37	980730.13	5.83	-163.78	0.00	-41.32	-200.66	-187.53
RUTTF : B0352	46 12.82	-113 59.93	4620.0 MT	980247.17	980728.88	6.41	-157.58	0.00	-47.36	-199.89	-187.32
RUTTF : B0353	46 6.98	-113 39.38	6235.0 MT	980140.87	980720.07	2.40	-212.66	0.00	6.90	-204.87	-187.42
RUTTE : B0354	46 6.70	-113 40.47	6245.0 MT	980137.89	980719.65	2.96	-213.00	0.00	5.28	-206.26	-188.83
RUTTF : B0355	46 5.35	-113 39.81	6550.0 MT	980119.81	980717.61	3.04	-223.40	0.00	17.90	-203.98	-185.70
RUTTE : B0356	46 6.03	-113 39.56	6500.0 MT	980122.44	980718.64	2.64	-221.70	0.00	14.80	-205.77	-187.60
RUTTF : B0357	46 7.56	-113 37.12	5890.0 MT	980166.05	980720.95	3.96	-200.89	0.00	-1.21	-199.63	-183.29
RUTTF : B0358	46 8.24	-113 35.35	5790.0 MT	980172.55	980721.97	2.44	-197.48	0.00	-5.14	-201.66	-185.47
RUTTF : B0359	46 10.39	-113 32.36	5510.0 MT	980193.76	980725.21	2.36	-187.93	0.00	-13.48	-200.51	-185.10
RUTTF : B0360	46 10.69	-113 31.39	5500.0 MT	980193.83	980725.66	2.32	-187.59	0.00	-14.80	-201.53	-186.14
RUTTF : B0362	46 30.98	-113 50.89	5850.0 MT	980220.25	980756.24	2.41	-199.53	0.00	13.93	-184.68	-168.31
RUTTF : B0363	46 31.64	-113 49.65	6804.0 MT	980159.38	980757.23	8.62	-232.06	0.00	41.70	-183.26	-164.72
RUTTE : B0364	46 31.11	-113 48.47	6345.0 MT	980184.87	980756.44	9.31	-216.41	0.00	24.86	-183.75	-166.56
RUTTE : B0365	46 31.77	-113 50.87	6420.0 MT	980185.47	980757.43	6.68	-218.97	0.00	31.51	-182.29	-164.67
RUTTF : B0366	46 33.05	-113 50.38	6573.0 MT	980178.82	980759.36	7.08	-224.19	0.00	37.31	-181.31	-163.30
RUTTF : B0367	46 33.39	-113 46.19	7036.0 MT	980140.49	980759.88	15.74	-239.98	0.00	41.97	-183.78	-165.18
RUTTF : B0368	46 32.96	-113 47.04	6755.0 MT	980169.25	980759.23	10.22	-230.39	0.00	44.97	-176.72	-158.45
RUTTF : B0369	46 33.95	-113 48.18	7231.0 MT	980138.39	980760.72	10.69	-246.63	0.00	57.34	-180.11	-160.54
RUTTF : B0370	46 33.89	-113 49.03	6980.0 MT	980158.45	980760.63	8.76	-238.07	0.00	53.91	-176.91	-157.89
RUTTE : B0371	46 37.06	-113 50.72	6413.0 MT	980198.78	980765.41	6.75	-218.73	0.00	34.20	-179.30	-161.70
RUTTF : B0374	46 36.50	-113 46.61	5750.0 MT	980238.01	980764.56	5.89	-196.12	0.00	13.97	-177.74	-161.94
RUTTF : B0375	46 36.22	-113 45.91	5560.0 MT	980248.59	980764.14	6.40	-189.64	0.00	7.13	-177.58	-162.36
RUTTE : B0376	46 35.54	-113 45.95	5190.0 MT	980266.50	980763.12	8.68	-177.02	0.00	-8.71	-178.48	-164.49
RUTTE : B0377	46 34.27	-113 44.57	4460.0 MT	980298.79	980761.20	13.16	-152.12	0.00	-43.11	-183.41	-171.85
RUTTE : B0378	46 33.80	-113 42.38	4080.0 MT	980322.52	980760.49	10.58	-139.16	0.00	-54.39	-184.24	-173.54
RUTTF : B0379	46 41.29	-113 46.71	5453.0 MT	980271.55	980771.77	5.38	-185.99	0.00	12.38	-169.68	-154.68
RUTTF : B0380	46 40.39	-113 46.89	6086.0 MT	980226.35	980770.42	12.50	-207.58	0.00	28.02	-168.55	-152.35
RUTTE : B0381	46 39.70	-113 50.41	6096.0 MT	980231.71	980769.38	7.68	-207.92	0.00	35.36	-166.37	-149.75

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BOUGUER GRAVITY DATA

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West half BLITE Quad
 Bouguer Gravity at Density=2.67
 Meter ID: Date: 04/06/81

STATION		L O C A T I O N		E L E (in ft)	O B S R V E D	T H E O R E T I C A L	C O R R E C T I O N S		F R E E A I R	A N O M A L I E S		S P E C F I E L D S
IDENTIFICATION	sta-id	L A T I T U D E	L O N G I T U D E				T E R R A I N	B O U G U E R		C O M P L E T E	R O U G U E R	
		deg min	deg min					C U R V		d1=2.67	d2=2.45	
RUTIE :	B0382	46 38.62	-113 50.90	6145.0	MT	980221.50	980767.75	11.04	-209.59	-1.50	0.00	168.67 -152.18
RUTIE :	B0383	46 38.77	-113 49.28	6644.0	MT	980188.96	980767.98	6.26	-226.61	-1.52	0.00	-176.36 -158.08
RUTIE :	B0384	46 37.83	-113 48.00	7272.0	MT	980148.05	980766.56	11.50	-248.03	-1.51	0.00	-173.03 -153.42
RUTIE :	B0385	46 37.70	-113 46.54	7449.0	MT	980137.57	980766.37	11.18	-254.06	-1.50	0.00	-173.03 -152.90
RUTIE :	B0386	46 37.59	-113 45.33	7723.0	MT	980114.86	980766.20	16.95	-263.41	-1.49	0.00	-173.40 -152.97
RUTIE :	B0387	46 38.09	-113 43.63	7481.0	MT	980128.37	980766.95	19.43	-255.16	-1.50	0.00	-172.66 -153.11
RUTIE :	B0388	46 37.91	-113 41.98	7055.0	MT	980155.08	980766.69	18.36	-240.63	-1.51	0.00	-172.25 -153.81
RUTIE :	B0389	46 37.92	-113 40.92	6916.0	MT	980164.07	980766.70	20.12	-235.89	-1.52	0.00	-169.83 -151.93
RUTIE :	B0390	46 44.13	-113 41.49	3510.0	MT	980391.67	980776.05	5.00	-119.72	-1.16	0.00	-170.25 -160.71
RUTIE :	B0391	46 46.61	-113 42.78	3462.0	MT	980404.48	980779.79	4.39	-118.08	-1.15	0.00	-164.65 -155.19
RUTIE :	B0392	46 47.30	-113 43.60	3442.0	MT	980406.94	980780.83	5.47	-117.40	-1.15	0.00	-163.35 -154.03
RUTIE :	B0393	46 46.78	-113 41.92	3557.0	MT	980397.59	980780.05	5.47	-121.32	-1.17	0.00	-165.05 -155.41
RUTIE :	B0394	46 46.78	-113 40.38	3897.0	MT	980374.60	980780.05	6.05	-132.92	-1.24	0.00	-167.17 -156.61
RUTIE :	B0395	46 42.99	-113 40.07	3590.0	MT	980386.20	980774.34	4.55	-122.44	-1.18	0.00	-169.68 -159.87
RUTIE :	B0396	46 41.92	-113 40.06	3595.0	MT	980380.93	980772.73	6.45	-122.62	-1.18	0.00	-171.14 -161.47
RUTIE :	B0397	46 40.68	-113 39.90	3644.0	MT	980373.50	980770.86	9.64	-124.29	-1.19	0.00	-170.59 -161.05
RUTIE :	B0398	46 39.29	-113 39.31	3730.0	MT	980366.70	980768.77	7.86	-127.22	-1.21	0.00	-171.94 -162.01
RUTIE :	B0399	46 38.04	-113 38.66	3780.0	MT	980357.27	980766.88	10.08	-128.92	-1.22	0.00	-174.28 -164.39
RUTIE :	B0400	46 36.73	-113 38.86	3844.0	MT	980348.09	980764.91	8.59	-131.11	-1.23	0.00	-179.16 -168.96
RUTIE :	B0401	46 36.70	-113 40.11	4000.0	MT	980336.47	980764.86	12.83	-136.43	-1.26	0.00	-177.19 -166.90
RUTIE :	B0402	46 35.80	-113 39.32	3870.0	MT	980342.24	980763.51	10.49	-132.00	-1.24	0.00	-180.16 -170.04
RUTIE :	B0403	46 34.98	-113 40.32	3959.0	MT	980334.28	980762.27	8.40	-135.03	-1.25	0.00	-183.66 -173.13
RUTIE :	B0404	46 34.15	-113 41.45	3970.0	MT	980328.42	980761.02	11.32	-135.41	-1.25	0.00	-184.69 -174.36
RUTIE :	B0405	46 32.03	-113 45.10	4140.0	MT	980311.97	980757.83	11.58	-141.20	-1.28	0.00	-187.54 -176.76
RUTIE :	B0406	46 31.18	-113 45.99	4150.0	MT	980309.17	980756.55	9.31	-141.54	-1.29	0.00	-190.73 -179.73
RUTIE :	B0407	46 29.39	-113 46.37	4260.0	MT	980293.73	980753.84	11.69	-145.30	-1.31	0.00	-194.52 -183.41
RUTIE :	B0408	46 27.73	-113 46.39	4322.0	MT	980285.97	980751.34	10.88	-147.41	-1.32	0.00	-196.90 -185.54
RUTIE :	B0409	46 26.54	-113 45.41	4390.0	MT	980278.98	980749.55	10.82	-149.73	-1.33	0.00	-198.09 -186.53
RUTIE :	B0410	46 26.15	-113 44.61	4444.0	MT	980274.43	980748.97	10.99	-151.57	-1.33	0.00	-198.66 -186.97
RUTIE :	B0411	46 25.33	-113 42.99	4460.0	MT	980269.03	980747.73	12.37	-152.12	-1.34	0.00	-200.49 -188.86
RUTIE :	B0412	46 24.17	-113 41.19	4570.0	MT	980263.80	980745.98	9.09	-155.87	-1.35	0.00	-200.68 -188.47
RUTIE :	B0413	46 23.48	-113 40.11	4607.0	MT	980260.03	980744.95	9.24	-157.13	-1.36	0.00	-201.05 -188.75
RUTIE :	B0414	46 22.48	-113 38.77	4671.0	MT	980258.95	980743.44	8.11	-159.31	-1.37	0.00	-197.93 -185.35
RUTIE :	B0415	46 21.45	-113 37.60	4726.0	MT	980256.78	980741.88	5.60	-161.19	-1.38	0.00	-197.77 -184.84
RUTIE :	B0416	46 21.00	-113 36.33	4793.0	MT	980253.63	980741.20	4.83	-163.48	-1.38	0.00	-197.01 -183.82
RUTIE :	B0417	46 20.08	-113 35.10	4820.0	MT	980248.89	980739.82	6.16	-164.40	-1.39	0.00	-197.42 -184.27
RUTIE :	B0418	46 19.35	-113 34.02	4875.0	MT	980244.22	980738.72	4.64	-166.27	-1.40	0.00	-199.23 -185.79
RUTIE :	B0419	46 19.75	-113 32.19	4919.0	MT	980244.18	980739.32	2.65	-167.77	-1.40	0.00	-199.23 -185.51
RUTIE :	B0420	46 18.56	-113 30.89	4996.0	MT	980235.00	980737.52	2.03	-170.40	-1.41	0.00	-202.63 -188.64
RUTIE :	B0421	46 17.55	-113 30.89	5046.0	MT	980231.48	980736.01	2.24	-172.10	-1.42	0.00	-201.43 -187.32

Date: 04/06/81

STATION IDENTIFICATION proj	L LATITUDE deg	C LONGITUDE deg	A TIME min	I ELEVATION (in ft)	O OBSERVATION STATION	G GROSS SURFACE	R RELATIVE THICKNESS	C CORRECTION			S SPECIAL	F FREE AIR	A ANOMALY	S COMPLETE CORRECTION	F FIELD
								TERRAIN	BOUGUER	CURV					
ROUTTE : B0422	46 16.39	-113 30.96	5113.0	MT	980224.08	980734.26	2.44	-174.39	-1.42	0.00	-29.51	-202.88	-188.60		
ROUTTE : B0423	46 15.33	-113 31.21	5166.0	MT	980220.09	980732.66	2.92	-176.20	-1.43	0.00	-26.91	-201.62	-187.23		
ROUTTE : B0424	46 14.32	-113 31.17	5220.0	MT	980217.69	980731.13	2.96	-178.04	-1.44	0.00	-22.72	-199.24	-184.69		
ROUTTE : B0425	46 13.43	-113 31.30	5250.0	MT	980214.01	980729.80	3.81	-179.06	-1.44	0.00	-22.24	-198.93	-184.37		
ROUTTE : fair	46 3.30	-112 45.60	5200.0	MT	980189.30	980714.52	0.87	-177.36	-1.43	0.00	-36.38	-214.30	-199.64		
ROUTTE : B0493	46 9.70	-113 2.79	5603.0	MT	980182.81	980724.17	4.95	-191.10	-1.47	0.00	-14.65	-202.27	-186.81		
ROUTTE : B0494	46 9.50	-113 1.15	5521.0	MT	980184.30	980723.87	3.69	-188.31	-1.46	0.00	-20.56	-206.64	-191.31		
ROUTTE : B0495	46 9.35	-113 2.26	5566.0	MT	980182.29	980723.64	4.17	-189.84	-1.47	0.00	-18.11	-205.25	-189.83		
ROUTTE : B0496	46 9.83	-113 4.82	5751.0	MT	980177.67	980724.37	6.30	-196.15	-1.48	0.00	-6.07	-197.40	-181.64		
ROUTTE : B0497	46 9.79	-113 6.87	5880.0	MT	980176.03	980724.30	4.41	-200.55	-1.49	0.00	4.47	-193.16	-176.88		
ROUTTE : B0498	46 9.94	-113 9.09	6027.0	MT	980170.67	980724.53	3.31	-205.56	-1.50	0.00	12.70	-191.06	-174.27		
ROUTTE : B0499	46 6.56	-113 15.86	7811.0	MT	980056.32	980719.44	4.40	-266.41	-1.48	0.00	71.05	-192.41	-170.70		
ROUTTE : B0500	46 4.53	-113 16.07	8160.0	MT	980031.20	980716.38	5.01	-278.31	-1.46	0.00	81.78	-192.98	-170.34		
ROUTTE : B0501	46 2.93	-113 16.70	9200.0	MT	979949.48	980713.96	8.56	-313.79	-1.33	0.00	100.16	-206.40	-181.14		
ROUTTE : B0502	46 2.19	-113 15.92	8270.0	MT	980002.86	980712.85	4.70	-282.07	-1.45	0.00	67.30	-211.52	-188.54		
ROUTTE : B0503	46 2.02	-113 14.17	7490.0	MT	980046.03	980712.59	8.40	-255.46	-1.50	0.00	37.45	-211.11	-190.63		
ROUTTE : B0504	46 3.92	-113 15.84	8230.0	MT	980021.56	980715.45	8.62	-280.70	-1.45	0.00	79.63	-193.90	-171.36		
ROUTTE : B0505	46 5.68	-113 15.94	7670.0	MT	980062.62	980718.11	3.58	-261.60	-1.49	0.00	65.43	-194.09	-172.70		
ROUTTE : B0506	46 3.82	-113 0.34	6294.0	MT	980125.06	980715.30	5.58	-214.67	-1.51	0.00	1.40	-209.20	-191.84		
ROUTTE : B0507	46 0.31	-113 2.62	7048.0	MT	980071.49	980710.02	3.20	-240.39	-1.51	0.00	23.97	-214.74	-195.07		
ROUTTE : B0508	46 2.74	-113 3.78	8069.0	MT	980011.84	980713.68	6.11	-275.21	-1.46	0.00	56.57	-214.00	-191.70		
ROUTTE : B0509	46 2.43	-113 4.62	7765.0	MT	980032.35	980713.21	4.25	-264.84	-1.49	0.00	48.99	-213.09	-191.50		
ROUTTE : B0510	46 2.43	-113 2.30	7565.0	MT	980044.20	980713.21	3.96	-258.02	-1.50	0.00	42.05	-213.51	-192.45		
ROUTTE : B0511	46 1.39	-113 0.97	7660.0	MT	980035.58	980711.64	4.51	-261.26	-1.49	0.00	43.92	-214.32	-193.05		
ROUTTE : B0512	46 0.30	-113 1.50	7125.0	MT	980070.83	980710.00	2.83	-243.01	-1.51	0.00	30.55	-211.14	-191.23		
ROUTTE : B0513	46 0.36	-113 5.64	7020.0	MT	980069.18	980710.09	3.02	-239.43	-1.52	0.00	18.95	-218.98	-199.37		
ROUTTE : B0514	46 0.19	-113 11.66	6970.0	MT	980069.45	980709.84	5.84	-237.73	-1.52	0.00	14.78	-218.62	-199.39		
ROUTTE : B0515	46 7.82	-113 0.24	5764.0	MT	980163.78	980721.34	3.28	-196.59	-1.48	0.00	-15.71	-210.51	-194.45		
ROUTTE : B0516	46 7.13	-113 2.64	6920.0	MT	980094.29	980720.30	5.37	-236.02	-1.52	0.00	24.45	-207.71	-188.58		
ROUTTE : B0517	46 5.84	-113 4.27	8203.0	MT	980011.01	980718.38	8.08	-279.78	-1.45	0.00	63.61	-209.54	-187.03		
ROUTTE : B0518	46 9.01	-113 10.99	6490.0	MT	980141.40	980723.13	3.07	-221.35	-1.51	0.00	28.33	-191.47	-173.36		
ROUTTE : B0519	46 8.15	-113 12.29	6700.0	MT	980127.65	980721.84	4.15	-228.52	-1.52	0.00	35.60	-190.28	-171.67		
ROUTTE : B0520	46 6.50	-113 12.71	7150.0	MT	980090.73	980719.34	4.64	-213.87	-1.51	0.00	43.46	-197.28	-177.45		
ROUTTE : B0522	46 8.59	-113 7.60	6480.0	MT	980137.01	980722.50	3.80	-221.01	-1.51	0.00	23.63	-195.10	-177.08		
ROUTTE : B0523	46 6.24	-113 7.36	7951.0	MT	980033.78	980718.95	5.81	-271.19	-1.47	0.00	62.14	-204.71	-182.72		
ROUTTE : B0524	46 8.75	-113 5.35	8037.0	MT	980026.92	980722.74	17.06	-274.12	-1.47	0.00	59.58	-198.95	-177.65		
ROUTTE : B0525	46 7.93	-113 6.36	7210.0	MT	980088.31	980721.50	3.43	-245.91	-1.51	0.00	44.52	-199.48	-179.37		
ROUTTE : B0526	46 7.19	-113 7.71	7410.0	MT	980077.00	980720.39	4.26	-252.73	-1.50	0.00	53.11	-196.87	-176.27		
ROUTTE : B0527	46 5.47	-113 21.93	6115.0	MT	980140.98	980717.80	10.35	-238.56	-1.50	0.00	-1.98	-201.70	-185.24		
ROUTTE : B0528	46 4.97	-113 19.73	6840.0	MT	980100.04	980717.04	10.16	-233.29	-1.52	0.00	25.94	-198.71	-180.19		

BOUGUER GRAVITY DATA

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West half BUTTE Quad
 Bouguer Gravity at Density=2.67
 Meter ID: Date: 04/06/81

STATION		L O C A T I O N		E L E		G R A V I T Y		C O R R E C T I O N S		A N O M A L I E S	
IDENTIFICATION	sta-id	LATITUDE	LONGITUDE	deg	min	deg	min	TERRAIN BOUGUER CURV	SPECIAL	FREE AIR	COMPLETE-ROUGHER SPEC
proj		deg	deg		(in ft)					d1=2.67	d2=2.45
RUTTE : B0529		46	3.37	-113	18.21	7595.0	MT	980714.63	0.00	54.69	-197.45
RUTTE : B0530		46	2.49	-113	19.10	9193.0	MT	979943.78	0.00	94.46	-208.95
RUTTE : B0531		46	1.64	-113	19.12	8320.0	MT	979989.81	0.00	59.78	-216.69
RUTTE : B0532		46	1.62	-113	20.23	7840.0	MT	980711.99	0.00	48.80	-211.66
RUTTE : B0533		46	2.86	-113	21.15	6900.0	MT	980713.86	0.00	19.89	-206.00
RUTTE : B0534		46	3.91	-113	21.90	6365.0	MT	980715.45	0.00	-5.24	-211.20
RUTTE : B0535		46	20.10	-113	18.58	5137.0	MT	980739.84	0.00	-25.92	-200.47
RUTTE : B0536		46	20.33	-113	20.85	5204.0	MT	980740.20	0.00	-24.69	-202.10
RUTTE : B0537		46	21.86	-113	22.10	5243.0	MT	980742.50	0.00	-16.87	-195.40
RUTTE : B0538		46	22.13	-113	23.78	5506.0	MT	980742.91	0.00	-5.14	-192.89
RUTTE : B0539		46	21.18	-113	20.82	5232.0	MT	980741.48	0.00	-24.17	-202.79
RUTTE : B0540		46	20.32	-113	19.81	5109.0	MT	980740.18	0.00	-33.29	-207.20
RUTTE : B0541		46	21.43	-113	26.18	6047.0	MT	980741.85	0.00	10.84	-195.63
RUTTE : B0542		46	20.92	-113	24.09	6249.0	MT	980741.09	0.00	20.98	-191.49
RUTTE : B0543		46	20.08	-113	25.72	6797.0	MT	980739.82	0.00	34.83	-192.95
RUTTE : B0544		46	17.65	-113	23.39	6611.0	MT	980736.16	0.00	28.65	-193.31
RUTTE : B0545		46	18.91	-113	24.06	6587.0	MT	980738.05	0.00	30.56	-193.11
RUTTE : B0546		46	18.79	-113	25.55	6524.0	MT	980737.88	0.00	26.87	-192.99
RUTTE : B0547		46	18.70	-113	27.36	5951.0	MT	980737.73	0.00	4.45	-196.89
RUTTE : B0548		46	19.39	-113	27.75	5360.0	MT	980738.78	0.00	-18.66	-200.79
RUTTE : B0549		46	20.97	-113	29.86	5134.0	MT	980741.16	0.00	-25.06	-199.96
RUTTE : B0550		46	21.19	-113	28.35	5328.0	MT	980741.49	0.00	-22.80	-204.10
RUTTE : B0551		46	12.27	-113	44.06	6620.0	MT	980728.05	0.00	24.17	-201.71
RUTTE : B0552		46	7.33	-113	40.93	6740.0	MT	980720.60	0.00	23.10	-206.80
RUTTE : B0553		46	6.66	-113	42.95	6980.0	MT	980719.59	0.00	32.98	-204.76
RUTTE : B0554		46	6.92	-113	45.35	7886.0	MT	980719.98	0.00	64.23	-201.27
RUTTE : B0555		46	4.48	-113	25.72	7180.0	MT	980716.30	0.00	41.12	-202.33
RUTTE : B0556		46	3.48	-113	25.90	7816.0	MT	980714.80	0.00	59.91	-203.87
RUTTE : B0557		46	3.88	-113	25.06	7390.0	MT	980715.40	0.00	47.66	-201.49
RUTTE : B0558		46	7.25	-113	23.43	6485.0	MT	980720.48	0.00	19.51	-200.95
RUTTE : B0559		46	6.47	-113	23.78	7010.0	MT	980719.30	0.00	37.14	-200.46
RUTTE : B0560		46	0.83	-113	25.14	7515.0	MT	980710.80	0.00	38.30	-212.57
RUTTE : B0561		46	2.12	-113	24.30	9140.0	MT	979949.61	0.00	95.87	-206.98
RUTTE : B0562		46	0.86	-113	23.76	9808.0	MT	979886.48	0.00	97.38	-216.07
RUTTE : B0563		46	0.79	-113	22.29	9036.0	MT	979945.80	0.00	84.29	-217.20
RUTTE : B0564		46	0.07	-113	25.60	7640.0	MT	980709.65	0.00	39.62	-213.32
RUTTE : B0565		45	59.08	-113	40.96	6565.0	MT	980708.16	0.00	8.16	-209.98
RUTTE : B0566		45	59.64	-113	40.16	8468.0	MT	979977.85	0.00	64.63	-209.98
RUTTE : B0567		45	59.36	-113	39.54	7990.0	MT	980708.58	0.00	62.25	-204.40
RUTTE : victor		46	25.00	-114	8.80	3450.0	MT	980747.23	0.00	-66.22	-182.74

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION		L U C A T I		O N S		C O R R E C T I O N S		A N O M A L I E S		S P E C									
IDENTIFICATION		LATITUDE		LONGITUDE		ELE		TERRAIN		BOUGUER		SPECIAL		FREE		COMPLTE-ROUGHER		FIELDS	
proj	sta-id	deg	min	deg	min	(in ft)	ST	GRAVITY	URSERVED	THEORETICAL	TERRAIN	BOUGUER	CURV	SPECIAL	AIR	dl=2.67	d2=2.45	FIELDS	
RUTIE :	B0568	46	19.18	-113	57.68	5953.0	MT	980186.87	980738.46	6.52	-203.04	-1.49	0.00	0.00	0.01	-190.01	-173.69		
RUTIE :	B0569	46	20.08	-113	57.07	6273.0	MT	980173.68	980739.82	4.83	-213.95	-1.51	0.00	0.00	23.53	-187.10	-169.75		
RUTIE :	B0570	46	21.00	-113	56.69	6657.0	MT	980148.23	980741.20	9.06	-227.05	-1.52	0.00	0.00	32.78	-186.73	-168.64		
RUTIE :	B0571	46	20.47	-113	59.33	5098.0	MT	980247.79	980740.41	3.18	-173.88	-1.42	0.00	0.00	-13.36	-185.48	-171.30		
RUTIE :	B0572	46	22.26	-113	59.84	4510.0	MT	980286.39	980743.10	2.60	-153.82	-1.34	0.00	0.00	-32.71	-185.28	-172.71		
RUTIE :	B0573	46	21.86	-113	57.85	5370.0	MT	980233.15	980742.50	3.67	-183.16	-1.45	0.00	0.00	-4.53	-185.47	-170.56		
RUTIE :	B0574	46	23.71	-113	57.30	6070.0	MT	980194.80	980745.29	5.32	-207.03	-1.50	0.00	0.00	20.10	-183.11	-166.36		
RUTIE :	B0575	46	22.68	-113	58.10	5070.0	MT	980252.86	980743.73	3.91	-172.92	-1.42	0.00	0.00	-14.25	-184.68	-170.64		
RUTIE :	B0576	46	27.22	-113	59.74	3920.0	MT	980334.29	980750.58	1.87	-133.70	-1.24	0.00	0.00	-47.74	-180.82	-169.85		
RUTIE :	B0577	46	26.42	-113	58.82	4150.0	MT	980319.77	980749.38	1.95	-141.54	-1.29	0.00	0.00	-39.44	-180.32	-168.71		
RUTIE :	B0578	46	24.65	-113	58.99	4666.0	MT	980285.98	980746.70	2.15	-159.14	-1.37	0.00	0.00	-22.06	-180.42	-167.37		
RUTIE :	B0579	46	25.97	-113	57.76	4520.0	MT	980296.79	980748.70	2.30	-154.16	-1.35	0.00	0.00	-26.97	-180.18	-167.55		
RUTIE :	B0580	46	28.35	-113	59.04	3968.0	MT	980331.36	980752.28	1.57	-135.34	-1.25	0.00	0.00	-47.86	-182.89	-171.76		
RUTIE :	B0581	46	29.62	-113	59.73	3820.0	MT	980346.34	980754.20	1.97	-130.29	-1.23	0.00	0.00	-48.70	-178.25	-167.57		
RUTIE :	B0582	46	28.04	-113	56.74	4197.0	MT	980319.21	980751.81	2.40	-143.15	-1.29	0.00	0.00	-38.02	-180.06	-168.36		
RUTIE :	B0583	46	26.85	-113	55.17	4414.0	MT	980300.56	980750.02	4.05	-150.55	-1.33	0.00	0.00	-34.48	-182.31	-170.13		
RUTIE :	B0584	46	25.64	-113	54.97	4580.0	MT	980284.20	980748.20	4.86	-156.21	-1.36	0.00	0.00	-33.42	-186.12	-173.54		
RUTIE :	B0585	46	24.16	-113	54.20	4780.0	MT	980265.69	980745.97	7.21	-163.03	-1.38	0.00	0.00	-30.91	-188.11	-175.16		
RUTIE :	B0586	46	22.96	-113	54.77	5095.0	MT	980247.87	980744.16	6.81	-173.78	-1.42	0.00	0.00	-17.31	-185.70	-171.83		
RUTIE :	B0587	46	21.80	-113	55.78	5580.0	MT	980216.81	980742.41	4.95	-190.32	-1.47	0.00	0.00	-1.05	-187.88	-172.49		
RUTIE :	B0588	46	22.08	-113	52.57	5670.0	MT	980213.03	980742.83	7.83	-193.39	-1.48	0.00	0.00	3.21	-183.82	-168.41		
RUTIE :	B0589	46	21.72	-113	52.27	5960.0	MT	980190.94	980742.29	7.04	-203.28	-1.49	0.00	0.00	8.91	-188.82	-172.53		
RUTIE :	B0590	46	23.31	-113	52.56	5035.0	MT	980246.17	980744.69	9.07	-171.73	-1.41	0.00	0.00	-25.18	-189.25	-175.73		
RUTIE :	B0591	46	26.75	-113	52.92	5300.0	MT	980240.34	980749.87	6.99	-180.77	-1.44	0.00	0.00	-11.29	-186.51	-172.07		
RUTIE :	B0592	46	27.11	-113	51.01	6765.0	MT	980157.35	980750.41	7.74	-230.73	-1.52	0.00	0.00	42.83	-181.68	-163.18		
RUTIE :	B0593	46	28.11	-113	49.68	6200.0	MT	980188.53	980751.92	6.56	-211.46	-1.51	0.00	0.00	19.42	-186.99	-169.98		
RUTIE :	B0594	46	29.69	-113	48.48	6076.0	MT	980198.18	980754.30	6.33	-207.23	-1.50	0.00	0.00	15.03	-187.37	-170.69		
RUTIE :	B0595	46	29.33	-113	49.66	6341.0	MT	980184.61	980753.76	5.52	-216.27	-1.51	0.00	0.00	26.91	-185.36	-167.87		
RUTIE :	B0596	46	29.36	-113	51.62	7154.0	MT	980133.35	980753.80	11.02	-214.00	-1.51	0.00	0.00	51.99	-182.51	-163.19		
RUTIE :	B0597	46	28.75	-113	53.86	6151.0	MT	980199.09	980752.88	8.00	-209.79	-1.50	0.00	0.00	24.41	-178.88	-162.13		
RUTIE :	B0598	46	34.93	-113	50.14	6738.0	MT	980175.46	980762.20	8.42	-229.81	-1.52	0.00	0.00	46.62	-176.29	-157.92		
RUTIE :	B0599	46	35.64	-113	48.52	7044.0	MT	980157.22	980763.27	8.48	-240.25	-1.52	0.00	0.00	56.06	-177.23	-158.01		
RUTIE :	B0600	46	34.23	-113	50.92	6349.0	MT	980194.81	980761.14	7.59	-216.55	-1.51	0.00	0.00	30.48	-179.99	-162.65		
RUTIE :	B0601	46	25.03	-113	51.83	7268.0	MT	980117.76	980747.28	10.69	-247.89	-1.51	0.00	0.00	53.63	-185.08	-165.41		
RUTIE :	B0602	46	24.61	-113	49.51	8027.0	MT	980063.76	980746.64	14.94	-273.78	-1.47	0.00	0.00	71.56	-188.74	-167.29		
RUTIE :	B0603	46	24.58	-113	47.65	7279.0	MT	980113.56	980746.60	7.75	-248.27	-1.51	0.00	0.00	51.15	-190.88	-170.94		
RUTIE :	B0604	46	23.27	-113	48.43	8122.0	MT	980052.88	980744.63	14.78	-277.02	-1.46	0.00	0.00	71.63	-192.06	-170.34		
RUTIE :	B0605	46	22.31	-113	47.18	7560.0	MT	980093.57	980743.18	5.41	-257.85	-1.50	0.00	0.00	60.97	-192.96	-172.04		
RUTIE :	B0606	46	22.75	-113	50.50	5280.0	MT	980225.11	980743.84	11.18	-180.09	-1.44	0.00	0.00	-22.37	-192.72	-178.68		
RUTIE :	B0607	46	29.42	-113	56.61	4590.0	MT	980299.28	980753.89	2.22	-156.55	-1.36	0.00	0.00	-23.10	-178.79	-165.96		

West half BUTTE Quad
 Bouguer Gravity at Density=2.67
 Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj sta-id	L U C LATITUDE deg min	A T I LONGITUDE deg min	N S ELE (in ft)	C R A V I T Y UNRSERVED THEORETICAL	C O R R E C T I O N S		F R E E A I R	A N O M A L I E S COMPLTFTE-ROUGHER d1=2.67 d2=2.45	S P E C F I E L D S		
					T F R A I N B O U G U E R C U R V	S P E C I A L					
RUTTE : B0608	46 32.72	-113 59.41	3622.0 MT	980758.87	1.43	-123.54	-1.19	0.00	-62.80	-186.09	-175.93
RUTTE : B0609	46 33.52	-113 59.52	3489.0 MT	980760.07	1.82	-119.00	-1.16	0.00	-64.72	-183.06	-173.31
RUTTE : B0610	46 34.40	-113 58.92	3558.0 MT	980761.40	1.52	-121.35	-1.17	0.00	-63.84	-184.84	-174.87
RUTTE : B0612	46 35.30	-113 58.91	3692.0 MT	980762.75	1.27	-125.92	-1.20	0.00	-59.87	-185.72	-175.35
RUTTE : B0613	46 35.47	-113 57.24	3776.0 MT	980763.01	1.49	-128.79	-1.22	0.00	-51.61	-180.13	-169.54
RUTTE : B0614	46 32.08	-113 56.57	4141.0 MT	980757.90	2.54	-141.24	-1.29	0.00	-39.56	-179.54	-168.01
RUTTE : B0615	46 33.53	-113 57.63	3783.0 MT	980760.09	1.57	-129.03	-1.22	0.00	-51.66	-180.34	-169.73
RUTTE : B0616	46 33.57	-113 56.70	3985.0 MT	980760.15	1.83	-135.92	-1.26	0.00	-45.07	-180.41	-169.26
RUTTE : B0617	46 32.22	-113 53.49	4863.0 MT	980758.11	3.27	-165.86	-1.39	0.00	-13.24	-177.23	-163.71
RUTTE : B0618	46 33.52	-113 52.73	4954.0 MT	980760.07	2.84	-168.97	-1.41	0.00	-11.89	-179.42	-165.61
RUTTE : B0619	46 37.89	-113 58.91	3858.0 MT	980766.66	1.40	-131.59	-1.23	0.00	-48.73	-180.15	-169.32
RUTTE : B0620	46 38.56	-113 59.57	3589.0 MT	980767.66	1.57	-122.41	-1.18	0.00	-54.51	-176.53	-166.48
RUTTE : B0621	46 38.25	-113 56.82	4090.0 MT	980767.20	1.52	-139.50	-1.28	0.00	-33.29	-172.55	-161.07
RUTTE : B0622	46 38.79	-113 58.25	3715.0 MT	980768.01	1.99	-126.71	-1.20	0.00	-48.05	-173.97	-163.59
RUTTE : B0623	46 39.09	-113 56.05	3970.0 MT	980759.37	3.23	-135.41	-1.25	0.00	-35.85	-169.28	-158.29
RUTTE : B0624	46 39.10	-113 53.31	4280.0 MT	980768.48	6.20	-145.98	-1.31	0.00	-30.80	-171.89	-160.26
RUTTE : B0625	46 38.63	-113 51.84	5089.0 MT	980767.77	6.69	-173.57	-1.42	0.00	-3.21	-171.51	-157.65
RUTTE : B0626	46 36.22	-113 54.46	4391.0 MT	980764.14	2.21	-149.76	-1.33	0.00	-26.37	-175.25	-162.99
RUTTE : B0627	46 37.30	-113 54.81	4200.0 MT	980765.77	2.74	-143.25	-1.30	0.00	-33.44	-175.24	-163.56
RUTTE : B0628	46 36.16	-113 51.02	5110.0 MT	980764.05	4.59	-174.29	-1.42	0.00	-3.05	-174.17	-160.07
RUTTE : B0373	46 36.80	-113 48.32	6790.0 MT	980765.02	5.21	-231.59	-1.52	0.00	52.61	-175.29	-156.51
RUTTE : B0629	46 40.60	-113 59.57	3999.0 MT	980770.73	2.14	-136.39	-1.26	0.00	-31.06	-166.57	-155.40
RUTTE : B0630	46 42.47	-113 58.80	6015.0 MT	980773.55	13.96	-205.15	-1.50	0.00	26.88	-165.82	-149.94
RUTTE : B0631	46 39.64	-113 57.66	4186.0 MT	980769.29	1.54	-142.77	-1.29	0.00	-26.99	-169.51	-157.77
RUTTE : B0632	46 40.60	-113 56.69	4400.0 MT	980770.73	2.90	-150.07	-1.33	0.00	-18.89	-167.39	-155.16
RUTTE : B0633	46 40.97	-113 50.75	6767.0 MT	980771.30	12.45	-230.80	-1.52	0.00	50.77	-169.10	-150.99
RUTTE : B0634	46 49.61	-113 59.90	3665.0 MT	980784.30	2.68	-125.00	-1.19	0.00	-37.26	-160.78	-150.60
RUTTE : B0635	46 41.68	-113 53.41	4870.0 MT	980772.36	5.87	-166.10	-1.39	0.00	-3.53	-165.16	-151.84
RUTTE : B0636	46 56.49	-113 59.12	4000.0 MT	980794.66	2.77	-136.43	-1.26	0.00	-19.01	-153.93	-142.81
RUTTE : B0637	46 54.06	-113 59.97	3420.0 MT	980791.01	1.68	-116.65	-1.14	0.00	-45.29	-161.40	-151.83
RUTTE : B0638	46 54.91	-113 52.07	5590.0 MT	980792.29	10.07	-190.66	-1.47	0.00	26.97	-155.09	-140.09
RUTTE : B0639	46 56.47	-113 39.99	3620.0 MT	980794.63	3.09	-123.47	-1.19	0.00	-35.29	-156.85	-146.84
RUTTE : B0640	46 57.30	-113 39.77	4490.0 MT	980795.88	2.89	-153.14	-1.34	0.00	-2.57	-154.16	-141.67
RUTTE : B0641	46 59.34	-113 39.30	4447.0 MT	980798.95	1.95	-151.67	-1.34	0.00	-4.28	-155.34	-142.90
RUTTE : B0642	46 58.83	-113 37.66	4978.0 MT	980798.19	1.59	-169.78	-1.41	0.00	14.67	-154.93	-140.95
RUTTE : B0643	46 59.39	-113 36.21	4760.0 MT	980799.03	3.65	-162.35	-1.38	0.00	7.64	-152.45	-139.25
RUTTE : B0644	46 58.97	-113 36.25	4696.0 MT	980798.40	1.85	-160.17	-1.37	0.00	4.47	-155.22	-142.06
RUTTE : B0645	46 57.72	-113 35.43	4299.0 MT	980796.52	1.99	-146.63	-1.31	0.00	-9.42	-155.37	-143.35
RUTTE : B0646	46 56.57	-113 36.01	3537.0 MT	980794.79	4.07	-120.64	-1.17	0.00	-37.52	-155.26	-145.56
RUTTE : B0647	46 56.47	-113 37.87	3595.0 MT	980794.63	2.44	-122.62	-1.18	0.00	-35.24	-156.60	-146.60

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION	L O C A T I O N	L A T I T U D E	L O N G I T U D E	E L E V A T I O N	G R A V I T Y	T F R P A I N	C O R R E C T I O N S	F R E E A I R	A N O M A L I E S	S P E C F I E L D S
ID	sta-id	lat	lon	ft	observed	Bouguer	Bouguer	Bouguer	Bouguer	Bouguer
1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31	32	33
34	35	36	37	38	39	40	41	42	43	44
45	46	47	48	49	50	51	52	53	54	55
56	57	58	59	60	61	62	63	64	65	66
67	68	69	70	71	72	73	74	75	76	77
78	79	80	81	82	83	84	85	86	87	88
89	90	91	92	93	94	95	96	97	98	99
100	101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120	121
122	123	124	125	126	127	128	129	130	131	132
133	134	135	136	137	138	139	140	141	142	143
144	145	146	147	148	149	150	151	152	153	154
155	156	157	158	159	160	161	162	163	164	165
166	167	168	169	170	171	172	173	174	175	176
177	178	179	180	181	182	183	184	185	186	187
188	189	190	191	192	193	194	195	196	197	198
199	200	201	202	203	204	205	206	207	208	209
210	211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230	231
232	233	234	235	236	237	238	239	240	241	242
243	244	245	246	247	248	249	250	251	252	253
254	255	256	257	258	259	260	261	262	263	264
265	266	267	268	269	270	271	272	273	274	275
276	277	278	279	280	281	282	283	284	285	286
287	288	289	290	291	292	293	294	295	296	297
298	299	300	301	302	303	304	305	306	307	308
309	310	311	312	313	314	315	316	317	318	319
320	321	322	323	324	325	326	327	328	329	330
331	332	333	334	335	336	337	338	339	340	341
342	343	344	345	346	347	348	349	350	351	352
353	354	355	356	357	358	359	360	361	362	363
364	365	366	367	368	369	370	371	372	373	374
375	376	377	378	379	380	381	382	383	384	385
386	387	388	389	390	391	392	393	394	395	396
397	398	399	400	401	402	403	404	405	406	407
408	409	410	411	412	413	414	415	416	417	418
419	420	421	422	423	424	425	426	427	428	429
430	431	432	433	434	435	436	437	438	439	440
441	442	443	444	445	446	447	448	449	450	451
452	453	454	455	456	457	458	459	460	461	462
463	464	465	466	467	468	469	470	471	472	473
474	475	476	477	478	479	480	481	482	483	484
485	486	487	488	489	490	491	492	493	494	495
496	497	498	499	500	501	502	503	504	505	506
507	508	509	510	511	512	513	514	515	516	517
518	519	520	521	522	523	524	525	526	527	528
529	530	531	532	533	534	535	536	537	538	539
540	541	542	543	544	545	546	547	548	549	550
551	552	553	554	555	556	557	558	559	560	561
562	563	564	565	566	567	568	569	570	571	572
573	574	575	576	577	578	579	580	581	582	583
584	585	586	587	588	589	590	591	592	593	594
595	596	597	598	599	600	601	602	603	604	605
606	607	608	609	610	611	612	613	614	615	616
617	618	619	620	621	622	623	624	625	626	627
628	629	630	631	632	633	634	635	636	637	638
639	640	641	642	643	644	645	646	647	648	649
650	651	652	653	654	655	656	657	658	659	660
661	662	663	664	665	666	667	668	669	670	671
672	673	674	675	676	677	678	679	680	681	682
683	684	685	686	687	688	689	690	691	692	693
694	695	696	697	698	699	700	701	702	703	704
705	706	707	708	709	710	711	712	713	714	715
716	717	718	719	720	721	722	723	724	725	726
727	728	729	730	731	732	733	734	735	736	737
738	739	740	741	742	743	744	745	746	747	748
749	750	751	752	753	754	755	756	757	758	759
760	761	762	763	764	765	766	767	768	769	770
771	772	773	774	775	776	777	778	779	780	781
782	783	784	785	786	787	788	789	790	791	792
793	794	795	796	797	798	799	800	801	802	803
804	805	806	807	808	809	810	811	812	813	814
815	816	817	818	819	820	821	822	823	824	825
826	827	828	829	830	831	832	833	834	835	836
837	838	839	840	841	842	843	844	845	846	847
848	849	850	851	852	853	854	855	856	857	858
859	860	861	862	863	864	865	866	867	868	869
870	871	872	873	874	875	876	877	878	879	880
881	882	883	884	885	886	887	888	889	890	891
892	893	894	895	896	897	898	899	900	901	902
903	904	905	906	907	908	909	910	911	912	913
914	915	916	917	918	919	920	921	922	923	924
925	926	927	928	929	930	931	932	933	934	935
936	937	938	939	940	941	942	943	944	945	946
947	948	949	950	951	952	953	954	955	956	957
958	959	960	961	962	963	964	965	966	967	968
969	970	971	972	973	974	975	976	977	978	979
980	981	982	983	984	985	986	987	988	989	990
991	992	993	994	995	996	997	998	999	1000	1001

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION		L U C A T I		O N S		G R A V I T Y		C O R R E C T I O N S		A N O M A L I E S		S P E C	
IDENTIFICATION	sta-id	LATITUDE	LONGITUDE	ELE	ST	OBSERVED	THEORETICAL	TERRAIN	BOUGUER	CURV	SPECIAL	FREE	COMPLTF-ROUGUER
proj		deg	min	deg	min	(in ft)						AIR	d1=2.67 d2=2.45
RUTIE : B0687		46 58.69	-113 16.89	4415.0	MT	980375.69	980797.98	2.74	-150.58	-1.33	0.00	-7.23	-156.40 -144.11
RUTIE : B0688		46 58.21	-113 18.58	4298.0	MT	980379.34	980797.26	2.86	-146.59	-1.31	0.00	-13.84	-158.89 -146.94
RUTIE : B0689		46 59.69	-113 19.26	3830.0	MT	980407.43	980799.48	4.44	-130.63	-1.23	0.00	-31.97	-159.39 -148.89
RUTIE : B0690		46 51.77	-113 33.81	3692.0	MT	980395.14	980787.55	1.11	-125.92	-1.20	0.00	-45.31	-171.32 -160.94
RUTIE : B0691		46 51.31	-113 32.70	3805.0	MT	980391.56	980786.87	0.98	-129.78	-1.22	0.00	-37.57	-167.59 -156.88
RUTIE : B0692		46 50.09	-113 30.77	4140.0	MT	980379.00	980785.03	1.33	-141.20	-1.28	0.00	-16.81	-157.97 -146.34
RUTIE : B0693		46 48.78	-113 30.86	4280.0	MT	980361.38	980783.05	3.69	-145.98	-1.31	0.00	-19.30	-162.89 -151.06
RUTIE : B0694		46 45.51	-113 30.61	6084.0	MT	980242.18	980778.13	10.68	-207.51	-1.50	0.00	35.95	-162.38 -146.03
RUTIE : B0695		46 46.69	-113 28.31	5690.0	MT	980273.97	980779.91	4.23	-194.07	-1.48	0.00	28.94	-162.37 -146.61
RUTIE : B0696		46 47.30	-113 26.22	5557.0	MT	980283.24	980780.83	1.38	-189.53	-1.47	0.00	24.80	-164.82 -149.20
RUTIE : B0697		46 46.30	-113 24.21	4800.0	MT	980322.98	980779.32	3.56	-163.71	-1.39	0.00	-5.09	-166.63 -153.32
RUTIE : B0698		46 45.22	-113 20.96	4124.0	MT	980360.37	980777.70	4.79	-140.66	-1.28	0.00	-29.61	-166.76 -155.46
RUTIE : B0699		46 44.63	-113 20.88	4014.0	MT	980366.52	980776.80	5.92	-136.91	-1.26	0.00	-32.90	-165.15 -154.26
RUTIE : B0700		46 42.82	-113 19.76	3840.0	MT	980375.94	980774.08	2.33	-130.97	-1.23	0.00	-37.12	-166.99 -156.29
RUTIE : B0701		46 46.95	-113 20.70	4479.0	MT	980343.53	980780.30	5.82	-152.77	-1.34	0.00	-15.69	-163.98 -151.76
RUTIE : B0702		46 48.26	-113 21.00	4782.0	MT	980327.79	980782.27	5.77	-163.10	-1.38	0.00	-4.93	-163.64 -150.57
RUTIE : B0703		46 49.65	-113 20.87	6082.0	MT	980259.04	980784.37	3.11	-207.44	-1.50	0.00	46.39	-159.44 -142.48
RUTIE : B0704		46 49.92	-113 23.19	6016.0	MT	980264.06	980784.77	2.71	-205.19	-1.50	0.00	44.80	-159.17 -142.36
RUTIE : B0705		46 49.64	-113 25.21	6445.0	MT	980232.67	980784.35	8.73	-219.82	-1.51	0.00	54.14	-158.46 -140.94
RUTIE : B0706		46 48.47	-113 23.88	6810.0	MT	980196.23	980782.59	15.34	-232.27	-1.52	0.00	53.76	-164.69 -146.69
RUTIE : B0707		46 48.20	-113 24.82	6248.0	MT	980242.98	980782.18	4.96	-213.10	-1.51	0.00	48.11	-161.53 -144.26
RUTIE : B0708		46 48.37	-113 27.99	5405.0	MT	980297.18	980782.44	1.62	-184.35	-1.45	0.00	22.84	-161.34 -146.17
RUTIE : B0709		46 49.50	-113 28.05	4390.0	MT	980359.23	980784.14	3.01	-149.73	-1.33	0.00	-12.19	-160.24 -148.04
RUTIE : B0710		46 47.87	-113 36.16	6118.0	MT	980240.99	980781.69	9.59	-208.67	-1.50	0.00	34.41	-166.17 -149.65
RUTIE : B0711		46 43.30	-113 33.49	3636.0	MT	980381.54	980774.80	4.23	-124.01	-1.19	0.00	-51.42	-172.39 -162.42
RUTIE : B0712		46 43.17	-113 34.55	3590.0	MT	980382.84	980774.61	4.37	-122.44	-1.18	0.00	-54.24	-173.49 -163.67
RUTIE : B0713		46 43.38	-113 36.36	3550.0	MT	980385.18	980774.92	6.80	-121.08	-1.17	0.00	-55.98	-171.43 -161.92
RUTIE : B0714		46 43.69	-113 35.06	3660.0	MT	980380.59	980775.70	4.71	-124.83	-1.19	0.00	-50.99	-172.31 -162.31
RUTIE : B0715		46 44.76	-113 45.00	3655.0	MT	980382.89	980777.00	10.29	-124.66	-1.19	0.00	-50.48	-166.04 -156.52
RUTIE : B0716		46 44.14	-113 47.00	6169.0	MT	980229.47	980776.07	15.14	-210.41	-1.50	0.00	33.29	-163.48 -147.27
RUTIE : B0716A		46 51.50	-113 30.61	3945.0	MT	980393.96	980787.15	1.18	-134.55	-1.25	0.00	-22.30	-156.92 -145.83
RUTIE : B0717		46 50.86	-113 29.49	4130.0	MT	980384.98	980786.19	1.08	-140.86	-1.28	0.00	-12.93	-153.99 -142.37
RUTIE : B0718		46 52.10	-113 25.45	5380.0	MT	980299.00	980788.05	4.17	-183.50	-1.45	0.00	16.69	-164.08 -149.19
RUTIE : B0719		46 51.15	-113 23.70	5774.0	MT	980277.74	980786.63	4.22	-196.94	-1.48	0.00	33.89	-160.30 -144.30
RUTIE : B0720		46 50.24	-113 18.73	4900.0	MT	980327.09	980785.26	3.27	-167.12	-1.40	0.00	2.48	-162.77 -149.15
RUTIE : B0721		46 51.85	-113 20.11	4555.0	MT	980349.18	980787.68	2.36	-155.36	-1.35	0.00	-10.28	-164.63 -151.91
RUTIE : B0722		46 51.28	-113 17.55	5250.0	MT	980305.08	980786.82	2.76	-179.06	-1.44	0.00	11.79	-165.95 -151.30
RUTIE : B0723		46 52.31	-113 15.62	6565.0	MT	980230.41	980788.38	4.58	-223.91	-1.52	0.00	59.14	-161.71 -143.51
RUTIE : B0724		46 51.08	-113 15.54	7060.0	MT	980189.25	980786.52	11.40	-240.80	-1.51	0.00	66.33	-164.58 -145.55
RUTIE : B0725		46 49.06	-113 16.26	6525.0	MT	980226.24	980783.48	6.61	-222.55	-1.51	0.00	56.10	-161.35 -143.43

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION		L O C A T I O N		G R A V I T Y		C O R R E C T I O N S		A N O M A L I E S		S P E C	
IDENTIFICATION	ste-id	LATITUDE	LONGITUDE	THEORETICAL	BOUGUER	TERRAIN	SPECIAL	FREE	COMPLETE	ROUGHER	FIELDS
		deg min	deg min	(in ft)				AIR	d1=2.67	d2=2.45	
RUTIF :	B0730	46 44.15	-113 16.72	4125.0 MT	980357.58	980776.09	0.00	-30.70	-166.08	-154.92	
RUTIF :	B0726	46 47.79	-113 18.43	5001.0 MT	980312.74	980781.56	0.00	1.31	-163.72	-150.12	
RUTIF :	B0727	46 47.08	-113 15.49	5986.0 MT	980256.40	980780.49	0.00	38.60	-165.33	-148.53	
RUTIF :	B0728	46 45.24	-113 15.91	4800.0 MT	980320.15	980777.73	0.00	-6.33	-164.00	-151.01	
RUTIF :	B0729	46 46.07	-113 17.27	5330.0 MT	980291.51	980778.98	0.00	13.59	-163.49	-148.90	
RUTIF :	B0731	46 43.27	-113 17.66	3825.0 MT	980376.22	980774.76	0.00	-38.93	-166.63	-156.11	
RUTIF :	B0732	46 43.77	-113 38.77	3560.0 MT	980386.85	980775.51	0.00	-53.95	-171.78	-162.07	
RUTIF :	B0733	46 44.82	-113 37.34	5854.0 MT	980244.75	980777.09	0.00	17.95	-169.34	-153.91	
RUTIF :	B0734	46 41.46	-113 34.06	5739.0 MT	980244.96	980772.03	0.00	12.42	-176.87	-161.28	
RUTIF :	B0735	46 39.86	-113 32.42	6075.0 MT	980227.40	980769.63	0.00	28.84	-174.03	-157.32	
RUTIF :	B0736	46 38.45	-113 35.04	6634.0 MT	980184.17	980767.50	0.00	40.26	-172.31	-154.79	
RUTIF :	B0737	46 38.79	-113 31.18	6531.0 MT	980195.53	980768.01	0.00	41.43	-174.67	-156.87	
RUTIF :	B0738	46 39.14	-113 42.70	6760.0 MT	980182.32	980768.54	0.00	49.20	-168.50	-150.56	
RUTIF :	B0739	46 40.80	-113 41.30	3760.0 MT	980365.05	980771.04	0.00	-52.49	-172.17	-162.31	
RUTIF :	B0740	46 41.02	-113 43.58	4010.0 MT	980352.82	980771.37	0.00	-41.55	-170.63	-159.99	
RUTIF :	B0741	46 39.72	-113 44.00	4440.0 MT	980320.54	980769.41	0.00	-31.46	-172.78	-161.13	
RUTIF :	B0742	46 37.07	-113 36.33	4126.0 MT	980330.15	980765.42	0.00	-47.37	-177.78	-167.04	
RUTIF :	B0743	46 36.01	-113 34.96	5080.0 MT	980268.79	980763.82	0.00	-17.47	-183.78	-170.08	
RUTIF :	B0744	46 35.37	-113 33.35	7820.0 MT	980098.85	980762.86	0.00	71.00	-177.86	-157.36	
RUTIF :	B0745	46 35.37	-113 35.98	6094.0 MT	980212.92	980762.86	0.00	22.91	-179.53	-162.85	
RUTIF :	B0746	46 42.95	-113 31.78	3648.0 MT	980380.06	980774.27	0.00	-51.24	-171.43	-161.53	
RUTIF :	B0747	46 41.83	-113 29.00	3702.0 MT	980374.89	980772.59	0.00	-49.65	-171.19	-161.18	
RUTIF :	B0748	46 43.29	-113 28.18	4275.0 MT	980346.01	980774.79	0.00	-26.87	-165.83	-154.38	
RUTIF :	B0749	46 44.21	-113 27.48	4820.0 MT	980315.83	980776.17	0.00	-7.22	-164.64	-151.67	
RUTIF :	B0750	46 43.71	-113 30.61	4300.0 MT	980345.57	980775.42	0.00	-25.59	-167.39	-155.70	
RUTIF :	B0751	46 44.94	-113 29.02	5650.0 MT	980271.08	980777.27	0.00	24.93	-164.67	-149.05	
RUTIF :	B0752	46 42.16	-113 23.94	3747.0 MT	980376.30	980773.09	0.00	-44.51	-168.98	-158.72	
RUTIF :	B0753	46 42.66	-113 25.58	5322.0 MT	980282.99	980773.84	0.00	9.46	-164.17	-149.86	
RUTIF :	B0754	46 43.73	-113 26.60	6150.0 MT	980239.59	980775.45	0.00	42.25	-161.01	-144.26	
RUTIF :	B0755	46 44.56	-113 26.19	6175.0 MT	980241.87	980776.70	0.00	45.62	-160.14	-143.19	
RUTIF :	B0756	46 43.83	-113 25.12	6314.0 MT	980226.27	980775.60	0.00	44.19	-164.86	-147.64	
RUTIF :	B0757	46 43.94	-113 22.99	4820.0 MT	980321.37	980775.77	0.00	-1.27	-164.71	-151.24	
RUTIF :	B0758	46 42.90	-113 22.99	3990.0 MT	980363.49	980774.20	0.00	-35.59	-168.09	-157.17	
RUTIF :	B0759	46 42.11	-113 26.13	3730.0 MT	980375.49	980773.01	0.00	-46.84	-168.97	-158.91	
RUTIF :	B0760	46 40.53	-113 27.17	4230.0 MT	980340.03	980770.63	0.00	-32.92	-172.87	-161.34	
RUTIF :	B0761	46 39.84	-113 26.15	6073.0 MT	980230.54	980769.59	0.00	31.82	-167.31	-150.90	
RUTIF :	B0762	46 40.37	-113 24.47	4860.0 MT	980309.14	980770.39	0.00	-4.36	-168.66	-155.12	
RUTIF :	B0763	46 41.88	-113 20.70	3784.0 MT	980371.22	980772.66	0.00	-45.69	-172.76	-162.29	
RUTIF :	B0764	46 41.91	-113 21.80	3780.0 MT	980375.45	980772.71	0.00	-41.87	-169.25	-158.75	
RUTIF :	B0765	46 41.68	-113 22.40	3835.0 MT	980370.64	980772.36	0.00	-41.17	-169.14	-158.59	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj sta-id	LATITUDE deg min	LONGITUDE deg min	ELEVATION (in ft)	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS			ANOMALIES		
						TERRAIN	BOUGUER	CURV	SPECIAL	FREE	COMPLETE-ROUGHNER
										AIR	SPEC
										d1=2.67	d2=2.45
											FIELDS
BUTTF : B0766	46 41.09	-113 22.99	3970.0 MT	980360.31	980771.48	3.73	-135.41	-1.25	0.00	-37.92	-170.85
BUTTF : B0767	46 39.42	-113 24.34	4230.0 MT	980339.91	980768.96	8.18	-144.27	-1.30	0.00	-31.37	-168.76
BUTTF : B0768	46 40.56	-113 23.63	4060.0 MT	980353.80	980770.68	5.08	-138.48	-1.27	0.00	-35.18	-169.84
BUTTF : B0769	46 42.35	-113 19.76	3830.0 MT	980371.81	980773.38	2.32	-130.63	-1.23	0.00	-41.48	-171.02
BUTTF : B0770	46 40.37	-113 15.53	4750.0 MT	980317.96	980770.39	0.82	-162.01	-1.38	0.00	-5.88	-168.45
BUTTF : B0771	46 40.83	-113 16.78	4167.0 MT	980348.74	980771.09	1.79	-142.12	-1.29	0.00	-30.58	-172.21
BUTTF : B0772	46 41.24	-113 17.81	3990.0 MT	980357.87	980771.70	1.68	-136.09	-1.26	0.00	-38.71	-174.38
BUTTF : B0773	46 42.19	-113 22.23	3780.0 MT	980375.58	980773.13	2.89	-128.92	-1.22	0.00	-42.17	-169.42
BUTTF : B0774	46 41.68	-113 24.43	3730.0 MT	980375.62	980772.36	4.95	-127.22	-1.21	0.00	-46.06	-169.54
BUTTF : B0775	46 34.46	-113 39.44	4060.0 MT	980324.43	980761.48	10.43	-138.48	-1.27	0.00	-55.35	-184.67
BUTTF : B0776	46 33.44	-113 38.29	4260.0 MT	980304.58	980759.95	15.25	-145.30	-1.31	0.00	-54.87	-186.22
BUTTF : B0777	46 32.37	-113 37.84	4440.0 MT	980289.21	980758.34	15.41	-151.44	-1.33	0.00	-51.71	-189.07
BUTTF : B0778	46 31.39	-113 37.20	4620.0 MT	980277.17	980756.86	10.79	-157.58	-1.36	0.00	-45.35	-193.50
BUTTF : B0779	46 30.59	-113 36.83	4840.0 MT	980262.61	980755.66	10.37	-165.08	-1.39	0.00	-38.04	-194.14
BUTTF : B0780	46 30.79	-113 44.95	4460.0 MT	980288.44	980755.95	12.48	-152.12	-1.34	0.00	-48.22	-189.20
BUTTF : B0781	46 37.41	-113 34.93	4300.0 MT	980321.44	980765.93	10.42	-146.66	-1.31	0.00	-40.24	-177.79
BUTTF : B0782	46 34.83	-113 34.75	7080.0 MT	980149.24	980762.05	7.48	-241.48	-1.51	0.00	52.68	-182.83
BUTTF : B0783	46 35.70	-113 31.65	7051.0 MT	980157.00	980763.35	10.89	-240.49	-1.51	0.00	56.40	-174.71
BUTTF : B0784	46 35.92	-113 30.71	6961.0 MT	980162.95	980763.69	10.36	-237.42	-1.52	0.00	53.57	-175.00
BUTTF : B0785	46 34.15	-113 34.56	7050.0 MT	980145.02	980761.02	7.93	-240.46	-1.51	0.00	46.67	-187.37
BUTTF : B0786	46 32.92	-113 35.00	7344.0 MT	980123.17	980759.16	13.49	-250.48	-1.51	0.00	54.29	-184.21
BUTTF : B0787	46 32.43	-113 34.05	7054.0 MT	980145.63	980758.43	5.40	-240.59	-1.51	0.00	50.25	-186.46
BUTTF : B0788	46 31.90	-113 33.31	6692.0 MT	980166.24	980757.63	2.56	-228.24	-1.52	0.00	37.65	-189.56
BUTTF : B0789	46 30.59	-113 34.40	7430.0 MT	980107.00	980755.66	7.87	-253.42	-1.50	0.00	49.71	-197.34
BUTTF : B0790	46 30.39	-113 35.52	7078.0 MT	980128.01	980755.35	13.37	-241.41	-1.51	0.00	37.95	-191.60
BUTTF : B0791	46 30.93	-113 30.48	5789.0 MT	980214.15	980756.16	2.61	-197.45	-1.48	0.00	2.17	-194.15
BUTTF : B0792	46 29.61	-113 29.69	5745.0 MT	980213.20	980754.18	2.84	-195.95	-1.48	0.00	-0.92	-195.51
BUTTF : B0793	46 28.13	-113 29.27	5558.0 MT	980219.37	980751.95	2.74	-189.57	-1.47	0.00	-10.10	-198.39
BUTTF : B0794	46 26.38	-113 29.42	5418.0 MT	980228.54	980749.31	2.59	-184.79	-1.45	0.00	-11.44	-195.10
BUTTF : B0795	46 25.25	-113 41.41	5979.0 MT	980182.02	980747.61	10.81	-203.93	-1.49	0.00	-3.54	-198.15
BUTTF : B0796	46 26.30	-113 40.83	7555.0 MT	980089.70	980749.19	13.61	-257.68	-1.50	0.00	50.62	-194.95
BUTTF : B0797	46 27.77	-113 40.74	8040.0 MT	980063.58	980751.41	14.56	-274.22	-1.47	0.00	67.84	-193.29
BUTTF : B0798	46 28.11	-113 39.87	8160.0 MT	980055.11	980751.92	13.00	-278.31	-1.46	0.00	70.13	-196.64
BUTTF : B0799	46 27.62	-113 38.80	8201.0 MT	980049.32	980751.18	17.99	-279.71	-1.45	0.00	68.93	-194.24
BUTTF : B0800	46 27.69	-113 36.16	7140.0 MT	980126.73	980751.29	4.50	-243.52	-1.51	0.00	46.57	-193.97
BUTTF : B0801	46 27.63	-113 34.40	7960.0 MT	980072.88	980751.20	9.14	-271.49	-1.47	0.00	69.84	-193.98
BUTTF : B0802	46 25.93	-113 35.40	7373.0 MT	980108.58	980748.63	6.24	-251.47	-1.51	0.00	52.96	-193.78
BUTTF : B0803	46 25.28	-113 36.27	7330.0 MT	980110.67	980747.66	5.90	-250.00	-1.51	0.00	51.99	-193.62
BUTTF : B0804	46 24.66	-113 36.90	7500.0 MT	980097.07	980746.72	9.33	-255.80	-1.50	0.00	55.29	-192.68
BUTTF : B0805	46 23.42	-113 36.76	6356.0 MT	980163.84	980744.85	7.51	-216.78	-1.51	0.00	16.46	-194.33

West half BUTTE Quad
 Bouguer Gravity at Density=2.67
 Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj sta-id	L LATITUDE deg min	C LONGITUDE deg min	I ELE (in ft)	N ST	G OBSERVED	P THEORETICAL	T TFRPAIN	C CORR	O BOUGUER	R CURV	S SPECIAL	F FREE AIR	A COMPLETE-ROUGHER d1=2.67 d2=2.45	I FIELDS
RUTTE : B0806	46 43.03	-113 16.00	3838.0	MT	980375.62	980774.40	4.38	-130.90	-1.23	0.00	0.00	-37.94	-165.70	-155.17
RUTTE : B0807	46 41.65	-113 13.20	3910.0	MT	980370.27	980772.62	2.69	-133.36	-1.24	0.00	0.00	-34.74	-166.65	-155.78
RUTTE : B0808	46 41.52	-113 12.01	3899.0	MT	980367.43	980772.13	3.02	-132.98	-1.24	0.00	0.00	-38.12	-169.33	-158.52
RUTTE : B0809	46 40.68	-113 10.38	3950.0	MT	980367.28	980770.86	2.09	-134.72	-1.25	0.00	0.00	-32.21	-166.10	-155.07
RUTTE : B0810	46 40.16	-113 8.73	3970.0	MT	980364.05	980770.07	1.61	-135.41	-1.25	0.00	0.00	-32.78	-167.83	-156.71
RUTTE : B0811	46 41.27	-113 7.51	4400.0	MT	980339.70	980771.74	2.09	-150.07	-1.33	0.00	0.00	-18.39	-167.70	-155.39
RUTTE : B0812	46 42.35	-113 8.11	5250.0	MT	980290.90	980773.38	2.22	-179.06	-1.44	0.00	0.00	11.06	-167.22	-152.53
RUTTE : B0813	46 42.96	-113 10.36	5876.0	MT	980254.36	980774.29	5.19	-200.41	-1.49	0.00	0.00	32.43	-164.28	-148.08
RUTTE : B0814	46 44.47	-113 10.15	5770.0	MT	980261.90	980776.56	2.49	-196.80	-1.48	0.00	0.00	27.73	-168.06	-151.92
RUTTE : B0815	46 45.37	-113 11.79	5190.0	MT	980302.06	980777.92	2.46	-177.02	-1.43	0.00	0.00	12.04	-163.95	-149.45
RUTTE : B0816	46 43.28	-113 13.74	4130.0	MT	980353.66	980774.77	7.01	-140.86	-1.28	0.00	0.00	-32.83	-167.97	-156.83
RUTTE : B0817	46 23.50	-113 42.34	4800.0	MT	980245.91	980744.97	10.63	-163.71	-1.39	0.00	0.00	-47.81	-202.28	-189.55
RUTTE : B0818	46 22.80	-113 43.31	5500.0	MT	980207.60	980743.91	7.50	-187.59	-1.46	0.00	0.00	-19.28	-200.83	-185.87
RUTTE : B0819	46 25.29	-113 40.22	4870.0	MT	980239.89	980747.67	16.31	-166.10	-1.39	0.00	0.00	-49.95	-201.13	-188.68
RUTTE : B0820	46 34.43	-113 37.62	4440.0	MT	980298.04	980761.44	13.83	-151.44	-1.33	0.00	0.00	-45.99	-184.93	-173.48
RUTTE : B0821	46 30.62	-113 42.59	5310.0	MT	980229.27	980755.70	14.38	-181.11	-1.44	0.00	0.00	-27.25	-195.42	-181.57
RUTTE : B0822	46 30.43	-113 41.33	5960.0	MT	980197.21	980755.41	10.69	-203.28	-1.49	0.00	0.00	2.05	-192.03	-176.04
RUTTE : B0823	46 39.75	-113 9.25	3949.0	MT	980365.65	980769.45	1.22	-134.69	-1.25	0.00	0.00	-32.54	-167.26	-156.16
RUTTE : B0824	46 38.92	-113 7.15	3992.0	MT	980360.28	980768.20	1.12	-136.16	-1.26	0.00	0.00	-32.61	-168.91	-157.68
RUTTE : B0825	46 37.89	-113 5.31	4010.0	MT	980358.61	980766.66	1.68	-136.77	-1.26	0.00	0.00	-31.04	-167.39	-156.16
RUTTE : B0826	46 37.50	-113 4.36	4020.0	MT	980353.85	980766.06	1.51	-137.11	-1.26	0.00	0.00	-34.27	-171.14	-159.86
RUTTE : B0827	46 36.85	-113 2.57	4070.0	MT	980344.46	980765.09	1.27	-138.82	-1.27	0.00	0.00	-37.98	-176.80	-165.36
RUTTE : B0828	46 36.27	-113 0.34	4132.0	MT	980350.57	980764.21	1.18	-140.93	-1.28	0.00	0.00	-25.18	-166.21	-154.59
RUTTE : B0829	46 40.12	-113 5.86	4210.0	MT	980351.30	980770.02	2.04	-143.59	-1.30	0.00	0.00	-22.92	-165.76	-153.99
RUTTE : B0830	46 41.27	-113 5.29	4460.0	MT	980335.85	980771.74	4.26	-152.12	-1.34	0.00	0.00	-16.60	-165.79	-153.50
RUTTE : B0831	46 42.73	-113 5.06	5000.0	MT	980309.34	980773.95	1.70	-170.54	-1.41	0.00	0.00	5.44	-164.80	-150.78
RUTTE : B0832	46 44.27	-113 5.22	4890.0	MT	980314.80	980776.27	1.56	-166.78	-1.40	0.00	0.00	-1.76	-168.38	-154.65
RUTTE : B0833	46 44.47	-113 6.08	5011.0	MT	980305.50	980776.56	1.30	-170.91	-1.41	0.00	0.00	0.01	-171.01	-156.92
RUTTE : B0834	46 41.44	-113 3.22	5693.0	MT	980266.87	980772.00	2.09	-194.17	-1.48	0.00	0.00	30.03	-163.53	-147.58
RUTTE : B0835	46 41.59	-113 1.48	6814.0	MT	980191.76	980772.23	11.58	-232.41	-1.52	0.00	0.00	60.02	-162.32	-144.00
RUTTE : B0836	46 42.80	-113 1.47	6020.0	MT	980251.08	980774.05	1.84	-205.33	-1.50	0.00	0.00	42.92	-162.06	-145.17
RUTTE : B0837	46 39.39	-113 9.57	3994.0	MT	980356.90	980768.91	0.95	-136.22	-1.26	0.00	0.00	-36.52	-173.05	-161.80
RUTTE : B0838	46 38.87	-113 9.72	4012.0	MT	980351.99	980768.13	0.81	-136.84	-1.26	0.00	0.00	-38.95	-176.24	-164.93
RUTTE : B0839	46 38.30	-113 10.62	4150.0	MT	980340.53	980767.27	1.07	-141.54	-1.29	0.00	0.00	-36.58	-178.34	-166.66
RUTTE : B0840	46 37.91	-113 9.86	4036.0	MT	980345.83	980766.69	0.73	-137.66	-1.27	0.00	0.00	-41.41	-179.60	-168.22
RUTTE : B0841	46 45.60	-113 4.74	4742.0	MT	980326.25	980778.27	1.25	-161.74	-1.38	0.00	0.00	-6.22	-168.08	-154.75
RUTTE : B0842	46 46.44	-113 4.80	4667.0	MT	980332.08	980779.53	0.99	-159.18	-1.37	0.00	0.00	-8.71	-168.26	-155.11
RUTTE : B0843	46 48.19	-113 3.72	4554.0	MT	980343.15	980782.16	0.90	-155.32	-1.35	0.00	0.00	-10.89	-166.67	-153.83
RUTTE : B0844	46 49.11	-113 2.43	4499.0	MT	980351.05	980783.55	0.96	-153.45	-1.34	0.00	0.00	-9.55	-163.38	-150.70
RUTTE : B0845	46 49.60	-113 0.64	4459.0	MT	980351.39	980784.29	0.95	-152.08	-1.34	0.00	0.00	-13.70	-166.17	-153.61

West half BUTTE Quad
 Bouguer Gravity at Density=2.67
 Meter ID: Date: 04/06/81

STATION		L O C A T I O N S		G R A V I T Y		C O R R E C T I O N S		A N O M A L I E S		S P E C			
ID/NTIFICATION	proj sta-id	LATITUDE deg min	LONGITUDE deg min	ELE (in ft)	ST	THEORETICAL	TERRAIN BOUGUER CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER	FIELDS		
RUTIE : B0845		46 51.64	-113 0.38	4329.0	MT	980787.36	0.56	-147.65	-1.32	0.00	-29.09	-177.50	-165.27
RUTIE : B0846		46 52.53	-113 2.29	4313.0	MT	980788.70	0.63	-147.10	-1.31	0.00	-20.76	-168.54	-156.37
RUTIF : B0847		46 53.39	-113 3.27	4328.0	MT	980790.00	0.58	-147.62	-1.32	0.00	-18.33	-166.68	-154.46
RUTIE : B0848		46 55.13	-113 3.56	4316.0	MT	980792.62	0.40	-147.21	-1.31	0.00	-35.01	-183.13	-170.92
RUTIF : B0849		46 54.25	-113 3.58	4270.0	MT	980791.29	0.53	-145.64	-1.31	0.00	-31.00	-177.41	-165.35
RUTIF : B0850		46 55.12	-113 1.65	4298.0	MT	980792.60	0.35	-146.59	-1.31	0.00	-33.33	-180.89	-168.73
RUTIF : B0851		46 55.13	-113 0.37	4266.0	MT	980792.62	0.40	-145.50	-1.31	0.00	-34.92	-181.32	-169.26
RUTIF : B0852		46 54.24	-113 0.79	4260.0	MT	980791.28	0.40	-145.30	-1.31	0.00	-31.24	-177.44	-165.40
RUTIF : B0853		46 56.00	-113 1.01	4347.0	MT	980793.93	0.42	-148.26	-1.32	0.00	-39.76	-188.92	-176.63
RUTIE : B0854		46 56.87	-113 1.25	4298.0	MT	980795.23	0.38	-146.59	-1.31	0.00	-43.65	-191.17	-179.01
RUTIE : B0855		46 57.97	-113 0.44	4331.0	MT	980796.89	0.51	-147.72	-1.32	0.00	-42.11	-190.64	-178.40
RUTIE : B0856		46 56.87	-113 2.91	4318.0	MT	980795.23	0.36	-147.27	-1.31	0.00	-40.33	-188.56	-176.34
RUTIF : B0857		46 55.98	-113 4.34	4374.0	MT	980793.90	0.64	-149.19	-1.32	0.00	-30.30	-180.17	-167.82
RUTIF : B0858		46 57.29	-113 5.49	4343.0	MT	980795.85	0.47	-148.13	-1.32	0.00	-21.77	-170.74	-158.47
RUTIF : B0859		46 58.89	-113 5.69	4087.0	MT	980798.28	0.74	-139.40	-1.28	0.00	-30.03	-169.96	-158.43
RUTIF : B0860		46 59.83	-113 5.35	4183.0	MT	980799.70	0.56	-142.67	-1.29	0.00	-31.45	-174.85	-163.04
RUTIE : B0861		46 59.49	-113 0.34	4201.0	MT	980799.18	0.70	-143.28	-1.30	0.00	-37.80	-181.68	-169.83
RUTIE : B0862		46 59.80	-113 1.63	4180.0	MT	980799.65	0.67	-142.57	-1.29	0.00	-34.76	-177.95	-166.15
RUTIF : B0863		46 55.98	-113 6.28	4311.0	MT	980793.90	0.81	-147.04	-1.31	0.00	-22.08	-169.62	-157.46
RUTIE : B0864		46 57.25	-113 7.93	4423.0	MT	980795.81	1.64	-150.86	-1.33	0.00	-8.95	-159.49	-147.09
RUTIE : B0865		46 58.37	-113 8.78	4189.0	MT	980797.49	2.63	-142.88	-1.29	0.00	-17.15	-158.69	-147.02
RUTIF : B0866		46 59.05	-113 10.34	4250.0	MT	980798.52	2.03	-144.96	-1.30	0.00	-14.17	-158.40	-146.52
RUTIF : B0867		46 59.57	-113 12.48	4307.0	MT	980799.30	1.34	-146.90	-1.31	0.00	-13.02	-159.90	-147.79
RUTIF : B0868		46 57.57	-113 12.82	4700.0	MT	980796.29	4.35	-160.30	-1.37	0.00	2.42	-154.91	-141.95
RUTIE : B0869		46 57.36	-113 10.51	5590.0	MT	980795.98	3.13	-190.66	-1.47	0.00	29.11	-159.89	-144.32
RUTIF : B0871		46 35.96	-113 11.25	4173.0	MT	980763.75	0.65	-142.33	-1.29	0.00	-44.47	-187.44	-175.66
RUTIF : B0872		46 34.64	-113 12.10	4218.0	MT	980761.76	0.80	-143.86	-1.30	0.00	-40.13	-184.49	-172.59
RUTIF : B0873		46 33.17	-113 13.02	4313.0	MT	980759.54	1.11	-147.10	-1.31	0.00	-31.70	-179.00	-166.87
RUTIF : B0874		46 32.03	-113 11.73	4500.0	MT	980757.83	1.87	-153.48	-1.34	0.00	-21.27	-174.23	-161.62
RUTIF : B0875		46 30.05	-113 10.20	4850.0	MT	980754.84	4.29	-165.42	-1.39	0.00	-13.00	-175.52	-162.13
RUTIE : B0876		46 29.35	-113 8.50	5420.0	MT	980753.79	5.52	-184.86	-1.45	0.00	8.52	-172.28	-157.38
RUTIF : B0877		46 30.10	-113 7.28	5740.0	MT	980754.91	3.13	-195.77	-1.48	0.00	22.58	-171.54	-155.55
RUTIF : B0878		46 31.00	-113 5.72	5940.0	MT	980756.27	3.41	-202.60	-1.49	0.00	31.10	-169.58	-153.04
RUTIF : B0879		46 31.88	-113 5.03	4880.0	MT	980757.60	4.98	-166.44	-1.40	0.00	-4.23	-167.09	-153.67
RUTIF : B0880		46 33.61	-113 4.65	4532.0	MT	980760.20	2.38	-154.57	-1.35	0.00	-13.75	-167.29	-154.64
RUTIF : B0881		46 34.77	-113 3.20	4270.0	MT	980761.95	1.56	-145.64	-1.31	0.00	-21.87	-167.26	-155.28
RUTIF : B0882		46 35.76	-113 2.18	4079.0	MT	980763.45	1.31	-139.12	-1.27	0.00	-33.79	-172.88	-161.42
RUTIE : B0883		46 35.64	-113 0.73	4085.0	MT	980763.27	1.49	-139.33	-1.28	0.00	-28.36	-167.47	-156.01
RUTIE : B0884		46 37.44	-113 7.92	4140.0	MT	980765.98	0.76	-141.20	-1.28	0.00	-40.11	-181.84	-170.16
RUTIE : B0885		46 38.01	-113 6.72	4005.0	MT	980766.84	0.97	-136.60	-1.26	0.00	-38.40	-175.29	-164.01

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION	proj	sta-id	L O C A T I O N		E L E (in ft)	O N S ST	G R A V I T Y THEORETICAL	C O R R E C T I O N S		A N O M A L I E S		SPEC FIELDS			
			L A T I T U D E deg min	L O N G I T U D E deg min				TERRAIN	BOUGUER	CURV	SPECIAL		FREE AIR	COMPLETE-BOUGUER	
RUTTF : B0886			46 36.88	-113 8.57	4067.0	MT	980340.32	980765.13	1.01	-138.71	-1.27	0.00	-42.45	-181.43	-169.98
RUTTF : B0887			46 35.30	-113 9.54	4140.0	MT	980333.49	980762.89	1.00	-141.20	-1.28	0.00	-40.17	-181.66	-170.00
RUTTF : B0888			46 35.14	-113 7.32	4425.0	MT	980323.01	980762.51	0.68	-150.92	-1.33	0.00	-23.50	-175.07	-162.58
RUTTF : B0889			46 34.26	-113 6.69	4500.0	MT	980322.24	980761.19	0.91	-153.48	-1.34	0.00	-15.89	-169.80	-157.12
RUTTF : B0890			46 31.40	-113 13.49	4428.0	MT	980315.22	980756.68	1.70	-151.03	-1.33	0.00	-25.37	-176.03	-163.61
RUTTF : B0891			46 30.31	-113 13.47	4524.0	MT	980302.03	980755.23	1.81	-154.30	-1.35	0.00	-27.89	-181.73	-169.05
RUTTF : B0892			46 30.31	-113 14.64	4523.0	MT	980301.39	980755.23	1.62	-154.27	-1.35	0.00	-28.63	-182.62	-169.93
RUTTF : B0893			46 35.12	-113 13.57	4308.0	MT	980324.53	980762.48	0.94	-146.93	-1.31	0.00	-32.94	-180.25	-168.11
RUTTF : B0894			46 34.26	-113 14.88	4421.0	MT	980318.20	980761.19	0.74	-150.79	-1.33	0.00	-27.35	-178.73	-166.26
RUTTF : B0895			46 35.99	-113 14.84	4355.0	MT	980325.74	980763.70	0.68	-148.54	-1.32	0.00	-28.62	-177.80	-165.51
RUTTF : B0896			46 36.86	-113 13.62	4348.0	MT	980320.21	980765.10	0.67	-148.30	-1.32	0.00	-27.12	-176.07	-163.80
RUTTF : B0897			46 37.75	-113 12.36	4272.0	MT	980326.76	980766.45	0.66	-145.71	-1.31	0.00	-38.06	-184.41	-172.35
RUTTF : B0928			46 38.22	-113 3.30	4190.0	MT	980339.90	980767.15	1.67	-142.91	-1.29	0.00	-33.33	-175.87	-164.12
RUTTF : B0929			46 39.37	-113 2.49	4700.0	MT	980317.16	980768.88	1.94	-160.30	-1.37	0.00	-9.87	-169.60	-156.44
RUTTF : B0930			46 38.93	-113 12.56	4140.0	MT	980345.52	980768.22	0.89	-141.20	-1.28	0.00	-33.48	-175.08	-163.41
RUTTF : B0931			46 39.50	-113 13.61	4408.0	MT	980335.44	980769.08	0.69	-150.34	-1.33	0.00	-19.23	-170.22	-157.78
RUTTF : B0932			46 38.11	-113 14.87	4780.0	MT	980309.50	980766.98	0.83	-163.03	-1.38	0.00	-8.12	-171.70	-158.22
RUTTF : B0933			46 39.12	-113 16.10	5284.0	MT	980275.63	980768.51	3.19	-180.22	-1.44	0.00	3.86	-174.62	-159.91
RUTTF : B0934			46 36.88	-113 16.15	4429.0	MT	980324.89	980765.13	0.88	-151.06	-1.33	0.00	-23.86	-175.37	-162.89
RUTTF : B0935			46 39.37	-113 21.11	4877.0	MT	980304.91	980768.88	1.63	-166.34	-1.40	0.00	-5.48	-171.59	-157.90
RUTTF : B0936			46 38.22	-113 18.65	4607.0	MT	980318.08	980767.15	0.92	-157.13	-1.36	0.00	-15.96	-173.53	-160.55
RUTTF : B0937			46 39.49	-113 19.29	4611.0	MT	980319.91	980769.06	0.87	-157.27	-1.36	0.00	-15.66	-173.42	-160.42
RUTTF : B0938			46 36.88	-113 18.68	4699.0	MT	980308.43	980765.13	1.01	-160.27	-1.37	0.00	-14.94	-175.58	-162.34
RUTTF : B0939			46 36.15	-113 21.22	4950.0	MT	980290.77	980764.03	1.52	-168.83	-1.40	0.00	-7.91	-176.63	-162.73
RUTTF : B0940			46 35.74	-113 24.56	5723.0	MT	980240.75	980763.41	2.08	-195.20	-1.48	0.00	15.32	-179.27	-163.24
RUTTF : B0941			46 34.90	-113 23.47	5192.0	MT	980269.08	980762.15	1.71	-177.08	-1.43	0.00	-4.98	-181.79	-167.22
RUTTF : B0942			46 33.70	-113 21.20	4647.0	MT	980288.92	980760.34	1.96	-165.32	-1.39	0.00	-15.75	-180.50	-166.93
RUTTF : B0943			46 32.49	-113 17.39	4808.0	MT	980286.96	980758.52	0.78	-163.99	-1.39	0.00	-19.55	-184.15	-170.59
RUTTF : B0944			46 34.24	-113 17.04	4533.0	MT	980314.26	980761.16	1.19	-154.61	-1.35	0.00	-20.74	-175.51	-162.75
RUTTF : B0945			46 35.12	-113 16.14	4440.0	MT	980320.93	980762.48	0.97	-151.44	-1.33	0.00	-24.14	-175.93	-163.43
RUTTF : B0946			46 35.01	-113 25.93	5360.0	MT	980258.46	980762.31	3.20	-182.81	-1.45	0.00	0.02	-181.04	-166.12
RUTTF : B0947			46 35.85	-113 26.99	5020.0	MT	980279.08	980763.58	5.10	-171.22	-1.41	0.00	-12.58	-180.11	-166.30
RUTTF : B0948			46 36.92	-113 25.69	4737.0	MT	980301.78	980765.20	5.28	-161.57	-1.38	0.00	-18.08	-175.75	-162.75
RUTTF : B0949			46 37.46	-113 22.75	6153.0	MT	980221.35	980766.01	4.81	-209.86	-1.50	0.00	33.73	-172.82	-155.80
RUTTF : B0950			46 33.90	-113 22.81	5150.0	MT	980269.85	980760.64	1.23	-175.65	-1.43	0.00	-6.65	-182.50	-168.01
RUTTF : B0951			46 32.74	-113 22.49	5160.0	MT	980257.59	980758.90	2.43	-175.99	-1.43	0.00	-16.22	-191.21	-176.79
RUTTF : B0952			46 31.61	-113 19.93	5096.0	MT	980262.88	980757.20	1.22	-173.81	-1.42	0.00	-15.24	-189.25	-174.92
RUTTF : B0953			46 31.22	-113 21.16	4985.0	MT	980271.28	980756.60	2.69	-170.02	-1.41	0.00	-16.69	-185.43	-171.53
RUTTF : B0954			46 30.40	-113 22.67	5120.0	MT	980260.13	980755.37	3.18	-174.63	-1.42	0.00	-13.91	-186.79	-172.54
RUTTF : B0955			46 30.80	-113 23.72	5550.0	MT	980235.23	980755.97	2.84	-189.29	-1.47	0.00	0.99	-186.93	-171.44

BOUGUER GRAVITY DATA

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter IU: Date: 04/06/81

STATION	IDENTIFICATION	proj	sta-id	LATITUDE deg	LONGITUDE deg	TIME min	TIME min	ON S ELE (in ft)	ST	G P A V I T Y OBSERVED	THEORETICAL	TERRAIN	BOUGUER CURV	C O R R E C T I O N S SPECIAL	FREE AIR	A N O M A L I E S COMPLTE-ROUGHER d1=2.67 d2=2.45 FIELDS	SPEC
RUTIE :	B0956			46 31.59	-113 17.40			4782.0	MT	980286.02	980757.16	0.88	-163.10	-1.38	-21.58	-185.18	-171.70
RUTIE :	B0957			46 31.59	-113 15.51			4637.0	MT	980299.99	980757.16	1.06	-158.15	-1.36	-21.24	-179.70	-166.64
RUTIE :	phillish			46 19.90	-113 17.65			5239.0	MT	980229.00	980739.70	4.62	-178.69	-1.44	-18.29	-193.79	-179.33
RUTIE :	B0958			46 18.58	-113 18.22			5224.0	MT	980225.74	980737.55	2.44	-178.18	-1.44	-20.71	-197.89	-183.29
RUTIE :	B0959			46 17.96	-113 18.74			5283.0	MT	980220.88	980736.63	1.96	-180.19	-1.44	-19.10	-198.76	-183.96
RUTIE :	B0960			46 17.97	-113 19.69			5228.0	MT	980227.37	980736.64	1.61	-178.31	-1.44	-17.80	-195.93	-181.26
RUTIE :	B0961			46 17.48	-113 17.30			5678.0	MT	980199.81	980735.90	2.16	-193.66	-1.48	-2.33	-195.30	-179.40
RUTIE :	B0962			46 17.49	-113 15.08			5743.0	MT	980193.29	980735.91	7.95	-195.88	-1.48	-2.75	-192.16	-176.56
RUTIE :	B0963			46 19.43	-113 19.17			5154.0	MT	980225.74	980738.84	1.72	-175.79	-1.43	-28.57	-204.07	-189.61
RUTIE :	B0964			46 18.95	-113 22.42			5830.0	MT	980193.83	980738.12	1.85	-198.84	-1.49	3.76	-194.72	-178.37
RUTIE :	B0965			46 15.32	-113 24.15			6270.0	MT	980163.58	980732.64	1.36	-212.15	-1.51	15.63	-196.67	-179.17
RUTIE :	B0966			46 17.28	-113 25.44			6282.0	MT	980162.69	980735.59	1.66	-214.26	-1.51	17.60	-196.50	-178.86
RUTIE :	B0967			46 17.92	-113 25.66			5725.0	MT	980197.52	980736.56	2.50	-195.26	-1.48	-0.86	-195.10	-179.10
RUTIE :	B0968			46 15.11	-113 19.90			5397.0	MT	980207.65	980732.33	1.80	-184.08	-1.45	-17.32	-201.05	-185.91
RUTIE :	B0969			46 16.62	-113 19.68			5290.0	MT	980220.29	980734.60	1.69	-180.43	-1.44	-17.01	-197.19	-182.34
RUTIE :	B0970			46 13.74	-113 13.94			6761.0	MT	980136.16	980730.26	2.95	-230.60	-1.52	41.42	-187.74	-168.86
RUTIE :	B0971			46 14.80	-113 12.89			7020.0	MT	980121.97	980731.86	3.26	-239.43	-1.52	49.96	-187.72	-168.14
RUTIE :	B0972			46 16.06	-113 11.74			7340.0	MT	980103.03	980733.76	3.75	-250.35	-1.51	59.19	-188.91	-168.47
RUTIE :	B0973			46 17.49	-113 10.40			8076.0	MT	980056.78	980735.91	4.06	-275.45	-1.46	79.92	-192.93	-170.45
RUTIE :	B0974			46 18.57	-113 8.34			7680.0	MT	980081.86	980737.54	3.32	-261.94	-1.49	66.17	-193.94	-172.51
RUTIE :	B0975			46 10.95	-113 9.41			6140.0	MT	980163.29	980726.05	3.87	-209.42	-1.50	14.41	-192.64	-175.58
RUTIE :	B0976			46 12.26	-113 10.29			6320.0	MT	980159.46	980728.03	3.90	-215.56	-1.51	25.52	-187.65	-170.08
RUTIE :	B0977			46 13.50	-113 10.92			6490.0	MT	980149.03	980729.90	5.29	-221.35	-1.51	29.19	-188.39	-170.46
RUTIE :	B0978			46 15.78	-113 8.07			7400.0	MT	980095.01	980733.34	4.12	-252.39	-1.51	57.22	-192.55	-171.97
RUTIE :	B0979			46 14.73	-113 9.39			6960.0	MT	980120.60	980731.75	4.34	-237.39	-1.52	43.07	-191.50	-172.17
RUTIE :	B0980			46 10.86	-113 8.12			6070.0	MT	980166.33	980725.92	4.95	-207.03	-1.50	11.01	-192.57	-175.80
RUTIE :	B0981			46 12.75	-113 7.11			6510.0	MT	980139.39	980728.77	7.54	-222.04	-1.51	22.56	-193.45	-175.65
RUTIE :	B0982			46 10.98	-113 5.66			6190.0	MT	980158.25	980726.10	6.01	-211.12	-1.50	14.02	-192.60	-175.57
RUTIE :	B0983			46 13.40	-113 4.64			8410.0	MT	980020.75	980729.75	8.55	-286.84	-1.43	81.43	-198.29	-175.24
RUTIE :	B0984			46 12.61	-113 5.60			8412.0	MT	980019.82	980728.55	11.18	-286.91	-1.43	81.88	-195.28	-172.44
RUTIE :	B0985			46 12.53	-113 0.10			6130.0	MT	980148.22	980728.44	15.02	-209.08	-1.50	-3.99	-199.54	-183.43
RUTIE :	B0986			46 20.12	-113 37.05			5800.0	MT	980192.85	980739.88	2.91	-197.82	-1.48	-1.80	-198.20	-182.01
RUTIE :	B0987			46 19.38	-113 36.56			6368.0	MT	980155.38	980738.77	5.87	-217.19	-1.51	15.22	-197.62	-180.08
RUTIE :	B0988			46 18.77	-113 37.49			6130.0	MT	980169.83	980737.84	1.85	-209.08	-1.50	8.22	-200.51	-183.31
RUTIE :	B0989			46 20.06	-113 38.06			5030.0	MT	980236.64	980739.79	5.31	-171.56	-1.41	-30.28	-197.94	-184.13
RUTIE :	B0990			46 19.31	-113 39.97			5320.0	MT	980215.54	980738.66	6.11	-181.45	-1.45	-23.00	-199.78	-185.22
RUTIE :	B0991			46 17.68	-113 40.74			5550.0	MT	980198.64	980736.20	7.23	-189.29	-1.47	-15.83	-199.36	-184.23
RUTIE :	B0992			46 20.24	-113 39.51			5910.0	MT	980183.35	980740.05	2.53	-201.57	-1.49	-1.15	-201.68	-185.16
RUTIE :	B0993			46 19.10	-113 43.74			8060.0	MT	980048.87	980738.34	11.83	-274.90	-1.46	68.08	-196.46	-174.66
RUTIE :	B0994			46 20.00	-113 44.17			8030.0	MT	980051.85	980739.70	9.24	-273.88	-1.47	66.89	-199.22	-177.29

ROUGHER GRAVITY DATA

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj sta-id	L U C A T I LATITUDE LONGITUDE deg min deg min	D N S ELE (in ft)	G R A V I T Y OBSERVED THEORETICAL	C O R R E C T I O N S IFRPAIN BOUGHER CURV SPECIAL	A N O M A L I E S FREE AIR COMPLTE-ROUGHER SPEC d1=2.67 d2=2.45 FIELDS
RUTIE : B0995	46 19.72 -113 41.25	6636.0 MT	980136.61 980739.27	6.90 -226.33 -1.52	21.11 -199.84 -181.64
RUTIE : B0996	46 19.14 -113 15.58	6550.0 MT	980152.81 980738.40	3.46 -223.40 -1.51	30.11 -191.35 -173.10
RUTIE : B0997	46 19.03 -113 12.84	7740.0 MT	980077.16 980738.23	5.32 -263.99 -1.49	66.42 -193.74 -172.30
RUTIE : B0998	46 20.67 -113 17.25	5600.0 MT	980211.48 980740.70	2.82 -191.00 -1.47	-2.79 -192.44 -176.81
RUTIE : B0999	46 21.33 -113 15.56	5920.0 MT	980192.87 980741.70	4.90 -201.91 -1.49	7.67 -190.84 -174.48
RUTIE : B1000	46 21.42 -113 18.85	5044.0 MT	980239.66 980741.84	2.45 -172.04 -1.42	-27.99 -198.99 -184.90
RUTIE : B1001	46 22.05 -113 19.91	5070.0 MT	980236.04 980742.79	2.27 -172.92 -1.42	-29.22 -201.29 -187.12
RUTIE : B1002	46 22.95 -113 18.70	5030.0 MT	980251.43 980744.14	2.49 -171.56 -1.41	-19.85 -190.33 -176.28
RUTIE : B1003	46 24.28 -113 17.82	4964.0 MT	980255.90 980746.15	3.31 -169.31 -1.41	-23.58 -190.99 -177.19
RUTIE : B1004	46 25.50 -113 16.47	4920.0 MT	980259.85 980747.98	5.23 -167.81 -1.40	-25.60 -189.58 -176.07
RUTIE : B1005	46 26.46 -113 15.44	4878.0 MT	980265.94 980749.43	5.36 -166.37 -1.40	-24.91 -187.32 -173.94
RUTIE : B1006	46 27.87 -113 14.03	4835.0 MT	980277.60 980751.55	2.92 -164.91 -1.39	-19.41 -182.79 -169.33
RUTIE : B1007	46 26.49 -113 12.63	5060.0 MT	980258.73 980749.48	5.83 -172.58 -1.42	-15.06 -183.23 -169.37
RUTIE : B1008	46 25.24 -113 13.97	5460.0 MT	980230.65 980747.59	5.46 -186.23 -1.46	-3.67 -185.89 -170.88
RUTIE : B1009	46 24.03 -113 14.89	5830.0 MT	980209.24 980745.77	2.76 -198.84 -1.49	11.51 -186.06 -169.78
RUTIE : B1010	46 22.75 -113 16.73	6060.0 MT	980187.73 980743.84	2.94 -206.69 -1.50	13.55 -191.70 -174.79
RUTIE : B1011	46 28.87 -113 14.04	4704.0 MT	980289.45 980753.06	2.64 -160.44 -1.37	-21.38 -180.55 -167.44
RUTIE : B1012	46 29.77 -113 16.75	4795.0 MT	980282.43 980754.42	2.04 -163.54 -1.39	-21.21 -184.10 -170.68
RUTIE : B1013	46 29.09 -113 18.63	5180.0 MT	980256.45 980753.40	2.72 -176.67 -1.43	-9.98 -185.37 -170.92
RUTIE : B1014	46 28.84 -113 20.00	5500.0 MT	980235.61 980753.02	2.75 -187.59 -1.46	-0.38 -186.68 -171.33
RUTIE : B1015	46 27.23 -113 20.40	5889.0 MT	980209.25 980750.59	1.69 -200.86 -1.49	12.24 -188.41 -171.88
RUTIE : B1016	46 25.50 -113 22.20	6380.0 MT	980177.92 980747.98	2.47 -217.60 -1.51	29.66 -186.99 -169.14
RUTIE : B1017	46 26.88 -113 21.86	6430.0 MT	980176.19 980750.06	2.83 -219.31 -1.51	30.54 -187.45 -169.49
RUTIE : B1018	46 27.35 -113 23.49	5680.0 MT	980223.23 980750.77	3.07 -193.73 -1.48	6.41 -185.73 -169.90
RUTIE : B1019	46 28.29 -113 23.46	5510.0 MT	980234.41 980752.19	4.07 -187.93 -1.46	0.20 -185.13 -169.86
RUTIE : B1020	46 24.89 -113 24.66	6810.0 MT	980148.75 980747.07	3.75 -232.27 -1.52	41.80 -188.23 -169.28
RUTIE : B1021	46 25.28 -113 26.83	7937.0 MT	980069.32 980747.66	15.74 -270.71 -1.47	67.66 -188.78 -167.65
RUTIE : B1022	46 24.04 -113 22.60	6060.0 MT	980193.87 980745.79	1.49 -206.69 -1.50	17.74 -188.96 -171.93
RUTIE : B1023	46 22.93 -113 21.80	5530.0 MT	980221.69 980744.11	1.24 -188.61 -1.46	-2.57 -191.41 -175.85
RUTIE : B1024	46 25.34 -113 10.44	5300.0 MT	980243.93 980747.74	7.17 -180.77 -1.44	-5.58 -180.62 -166.19
RUTIE : B1025	46 26.02 -113 7.79	6420.0 MT	980177.29 980748.77	6.09 -218.97 -1.51	32.00 -182.39 -164.73
RUTIE : B1026	46 24.50 -113 9.08	5565.0 MT	980223.18 980746.48	7.98 -189.81 -1.47	-0.16 -183.45 -168.35
RUTIE : B1027	46 24.02 -113 11.25	6530.0 MT	980168.46 980745.76	3.03 -222.72 -1.51	36.52 -184.68 -166.46
RUTIE : B1028	46 23.48 -113 7.65	6170.0 MT	980183.95 980744.95	6.09 -210.44 -1.50	19.00 -186.85 -169.89
RUTIE : B1029	46 22.60 -113 6.50	6740.0 MT	980148.26 980743.62	5.63 -229.88 -1.52	38.19 -187.58 -168.98
RUTIE : B1030	46 24.79 -113 7.99	6260.0 MT	980183.37 980746.91	4.85 -213.51 -1.51	24.90 -185.27 -167.95
RUTIE : B1031	46 25.71 -113 5.73	7160.0 MT	980129.60 980748.30	4.89 -244.21 -1.51	54.30 -186.53 -166.68
RUTIE : B1032	46 25.14 -113 4.44	8260.0 MT	980058.91 980747.45	8.30 -281.73 -1.45	87.81 -187.06 -164.41
RUTIE : B1033	46 29.11 -113 11.75	4860.0 MT	980280.87 980753.42	3.81 -165.76 -1.39	-15.67 -179.01 -165.55
RUTIE : B1034	46 27.72 -113 11.24	5350.0 MT	980247.35 980751.33	4.23 -182.47 -1.45	-1.04 -180.73 -165.93

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION		L O C A T I O N		E L E		G R A V I T Y		T E R R A I N		F R E E		A N O M A L I E S	
proj	sta-id	lat deg	lon min	deg	min	URS	THEORETICAL	BOUGUER	CURV	AIR	COMPLETE	ROUGHER	SPEC
						(in ft)					d1=2.67	d2=2.45	FIELDS
RUTTE	B1048	46 17.54	-113 0.84	6060.0	MT	980158.03	980735.99	15.88	-206.69	-1.50	0.00	-8.30	-200.61 -184.76
RUTTE	B1049	46 18.36	-113 3.10	6380.0	MT	980142.52	980737.23	11.23	-217.60	-1.51	0.00	5.02	-202.86 -185.74
RUTTE	B1052	46 27.99	-113 3.04	6530.0	MT	980177.81	980751.73	4.95	-222.72	-1.51	0.00	39.89	-179.40 -161.33
RUTTE	B1053	46 28.86	-113 1.73	6170.0	MT	980207.00	980753.05	4.17	-210.44	-1.50	0.00	33.94	-173.83 -156.71
RUTTE	B1054	46 15.30	-113 34.19	6180.0	MT	980159.03	980732.61	1.96	-210.78	-1.50	0.00	7.35	-202.98 -185.65
RUTTE	B1055	46 16.19	-113 33.96	7050.0	MT	980102.77	980733.95	8.47	-240.46	-1.51	0.00	31.49	-202.01 -182.77
RUTTE	B1056	46 16.41	-113 35.75	6040.0	MT	980170.30	980734.29	1.53	-206.01	-1.50	0.00	3.79	-202.19 -185.22
RUTTE	B1057	46 20.65	-113 30.85	4970.0	MT	980242.58	980740.68	2.04	-169.51	-1.41	0.00	-30.87	-199.75 -185.83
RUTTE	B1058	46 22.06	-113 29.97	5075.0	MT	980238.45	980742.80	2.73	-173.09	-1.42	0.00	-27.25	-199.04 -184.88
RUTTE	B1059	46 21.27	-113 33.49	6336.0	MT	980159.70	980741.61	3.66	-216.10	-1.51	0.00	13.68	-200.27 -182.64
RUTTE	B1060	46 21.29	-113 32.16	5620.0	MT	980205.80	980741.64	1.63	-191.68	-1.47	0.00	-7.53	-199.06 -183.28
RUTTE	B1061	46 23.01	-113 32.07	6000.0	MT	980192.17	980744.23	1.22	-204.64	-1.50	0.00	11.96	-192.96 -176.08
RUTTE	B1062	46 23.08	-113 29.54	5207.0	MT	980228.79	980744.34	2.57	-177.60	-1.43	0.00	-26.05	-202.51 -187.97
RUTTE	B1063	46 24.68	-113 30.29	5240.0	MT	980236.06	980746.75	3.11	-178.72	-1.44	0.00	-18.09	-195.14 -180.55
RUTTE	B1064	46 25.14	-113 32.11	5800.0	MT	980197.62	980747.45	1.87	-197.82	-1.48	0.00	-4.60	-202.04 -185.77
RUTTE	B1065	46 24.31	-113 33.19	6150.0	MT	980182.83	980746.20	2.81	-209.76	-1.50	0.00	14.75	-193.71 -176.53
RUTTE	B1066	46 15.98	-113 29.62	5182.0	MT	980218.75	980733.64	3.66	-176.74	-1.43	0.00	-27.74	-202.25 -187.87
RUTTE	B1067	46 16.25	-113 27.18	5860.0	MT	980183.71	980734.05	1.31	-199.87	-1.49	0.00	0.53	-199.52 -183.03
RUTTE	B1068	46 16.83	-113 27.92	6354.0	MT	980154.47	980734.92	3.21	-216.72	-1.51	0.00	16.83	-198.19 -180.47
RUTTE	B1069	46 16.08	-113 17.00	6190.0	MT	980164.32	980733.79	2.38	-211.12	-1.50	0.00	12.40	-197.85 -180.52
RUTTE	B1070	46 26.99	-113 26.73	7685.0	MT	980092.74	980750.23	12.16	-262.11	-1.49	0.00	64.84	-186.61 -165.89
RUTTE	B1071	46 28.91	-113 27.22	7857.0	MT	980082.86	980753.13	16.38	-267.98	-1.48	0.00	68.21	-184.87 -164.01
RUTTE	B1072	46 30.47	-113 27.44	7835.0	MT	980089.80	980755.48	12.74	-267.23	-1.48	0.00	70.74	-185.24 -164.14
RUTTE	B1073	46 32.03	-113 27.90	7658.0	MT	980107.28	980757.83	8.96	-261.19	-1.49	0.00	69.24	-184.48 -163.58
RUTTE	B1074	46 15.98	-113 20.87	5325.0	MT	980216.48	980733.64	1.40	-181.62	-1.45	0.00	-16.56	-198.23 -183.26
RUTTE	B1075	46 13.31	-113 27.59	7018.0	MT	980107.47	980729.61	4.89	-239.36	-1.52	0.00	37.52	-198.47 -179.02
RUTTE	B1076	46 13.43	-113 26.57	6897.0	MT	980116.68	980729.80	4.73	-235.24	-1.52	0.00	35.19	-196.84 -177.72
RUTTE	B1077	46 14.22	-113 28.70	6311.0	MT	980152.52	980730.98	2.28	-215.25	-1.51	0.00	14.78	-199.70 -182.03
RUTTE	B1078	46 13.84	-113 24.57	5680.0	MT	980190.52	980730.41	2.01	-193.73	-1.48	0.00	-5.94	-199.13 -183.21