

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Principal Facts for Gravity Stations in Part of the Wallace 1° x 2°
Quadrangle, Idaho and Montana

by

Michael R. Brickey, Viki Bankey, and M. Dean Kleinkopf

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

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Principal facts for gravity stations in part of the Wallace 1° x 2°
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Introduction

During the summers of 1976-79, gravity data were collected in the Wallace 1° x 2° quadrangle in Idaho and Montana (fig. 1). The work was done in support of CUSMAP (Conterminous United States Mineral Appraisal Program). The data complement gravity surveys done previously by Wilson (1979).

Data collection

Gravity observations were made at more than 600 locations using LaCoste-Romberg and Worden gravity meters. The observations were referenced to the DOD (Department of Defense) bases at Missoula, Mont., Polson, Mont., and Wallace, Idaho, which are on the datum of the International Gravity Standardization Net, IGSN-71 (Defense Mapping Agency Aerospace Center, 1974).

Secondary base stations were established at the following locations: Hot Springs, Lakeside, Little North Fork, Plains, and Thompson Falls, Mont. Base descriptions are included in Appendix A.

Elevation Control

Station elevations were obtained from surveyed bench marks, spot elevations, and contour interpolations on U.S. Geological Survey topographic maps at scales of 1:24,000 and 1:62,500. Elevation accuracy is estimated to vary from 0.2 m for bench marks to 6.1 m for contour interpolations. The maximum resultant error of the Bouguer anomaly is estimated to be less than 2 mgal (milligals).

Data reduction

Computer programs on the U.S. Geological Survey Honeywell Multics computer system were used to obtain principal facts and terrain corrected gravity values. An unpublished program by D. A. Dansereau and R. R. Wahl was used to calculate corrections for earth tides and linear meter-drift in order to obtain the observed gravity values. The theoretical gravity value was calculated using the 1967 formula of the Geodetic Reference System (International Association of Geodesy, 1967).

Terrain corrections were computed, using a program by R. H. Godson (U. S. Geological Survey, unpublished data), from each station out to 166.7 km using the method of Plouff (1977). The program uses mean elevation data on a 15-second grid for corrections from 0 to 5 km; 1-minute terrain data for corrections from 5 to 21 km, and 3-minute terrain data for corrections from 21 to 166.7 km. An assumed density of 2.67 g/cm^3 (grams per cubic centimeter) was used for terrain corrections. This program also calculates earth curvature corrections and complete (terrain corrected) Bouguer anomaly values. Corrections for terrain ranged from 0.25 mgal to 29.20 mgal. Two complete Bouguer anomaly values per station were obtained, assuming average rock densities of 2.67 g/cm^3 and 2.45 g/cm^3 . The principal facts for these data are listed in Appendix B.

References

- Defense Mapping Agency Aerospace Center, 1974, World Relative Gravity Reference Network, North America. Part 2. Defense Mapping Agency Aerospace Center Reference Publication 25, with supplement updating gravity values to the International Gravity Standardization Net 1971, 1635 p.
- International Association of Geodesy, 1967, Geodetic Reference System, 1967, International Association of Geodesy Special Publication 3, 74 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 77-535.
- Wilson, D. M., 1979, Principal facts for gravity stations in the Wallace 2° Quadrangle, Montana and Idaho: U.S. Geological Survey Open-File Report 79-1309.

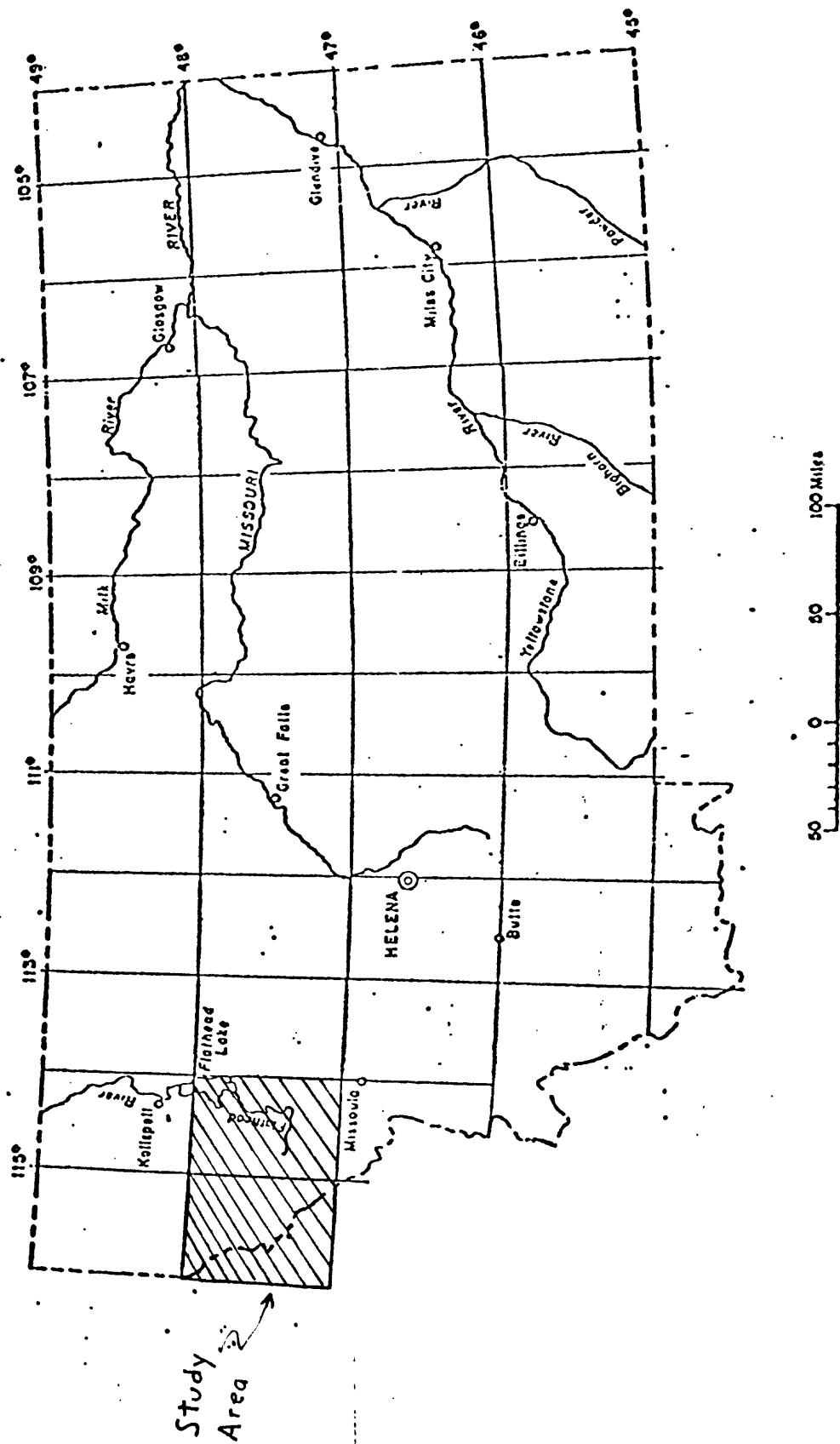


Fig. 1

Appendix A

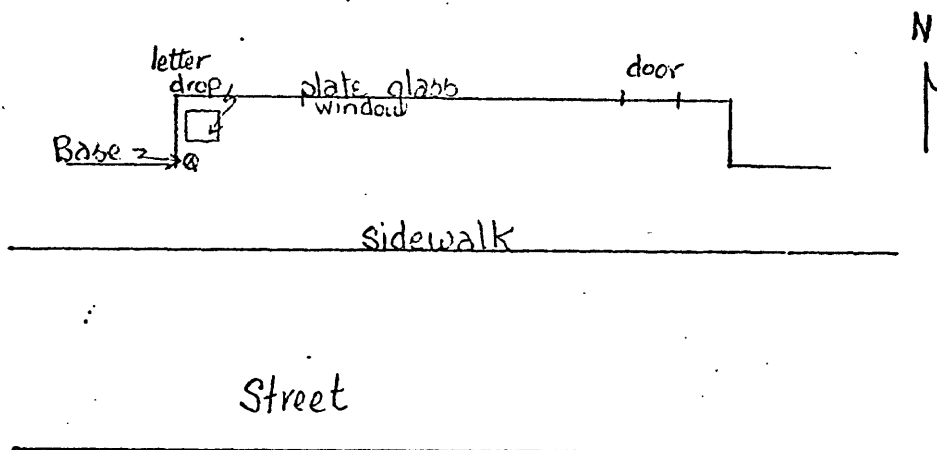
Description of gravity base stations

U.S. GEOLOGICAL SURVEY GRAVITY BASE STATION

STATE/COUNTRY		STATION DESIGNATION		OBSERVED GRAVITY
Montana		Hot Springs		980558.33
NEAREST TOWN		LONGITUDE		LATITUDE
Hot Springs		114° 40.20'		47° 36.52'
ELEVATION		TOPOGRAPHIC MAP(S)		
867.3 m (2845')		Hot Springs 1/24,000		
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
7/11/78	Brickey/Kleinkopf	G-235	Kalispell Airport(DOD)	980567.39 mgals

DESCRIPTION/SKETCH

Base read in front of U.S. Post Office, Hot Springs, at west end, in front along sidewalk and next to the letter drop.

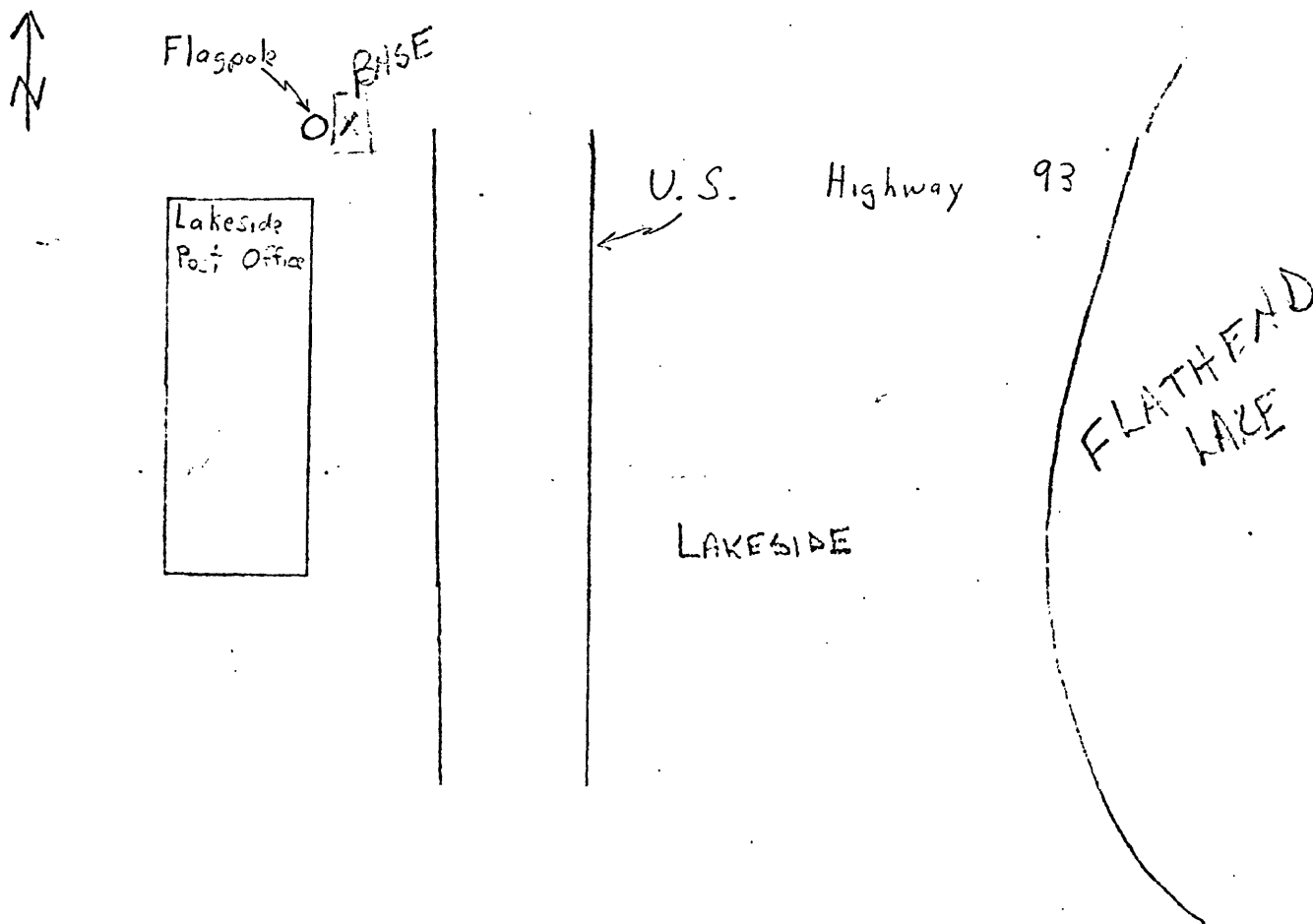


**U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION**

STATE/COUNTRY		STATION DESIGNATION		OBSERVED GRAVITY
Montana		Lakeside Post Office		980572.93
NEAREST TOWN		LONGITUDE		LATITUDE
Lakeside		114° 13.42'		48° 01.18'
ELEVATION		TOPOGRAPHIC MAP(S)		
887.1 m (2910')		KalisPELL 1/250,000		
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
7/17/78	Brickey/Kleinkopf	G-235	KalisPELL Airport(DOD)	980567.39 mgals

DESCRIPTION/SKETCH

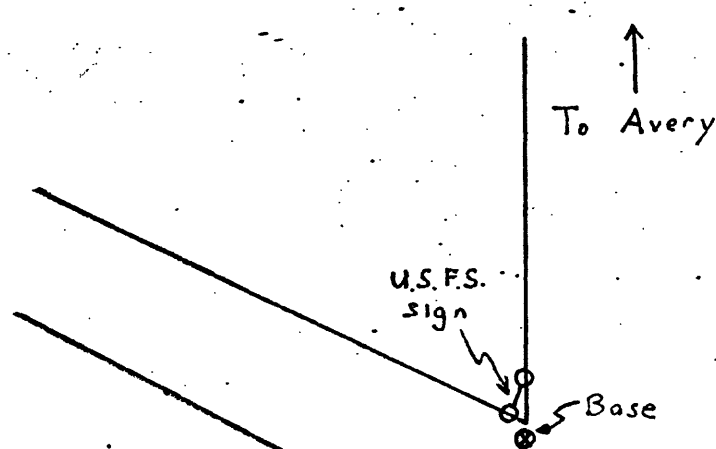
Read at base of flag pole, highway side, on cement slab about 3 meters north of main entrance.



U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION

STATE/COUNTRY Idaho		STATION DESIGNATION Little North Fork Campground (SU595)		OBSERVED GRAVITY 980422.25 mgals
NEAREST TOWN Avery		LONGITUDE 115° 51.24'		LATITUDE 47° 03.97'
ELEVATION 1235 m (4052')		TOPOGRAPHIC MAP(S) Wallace 1/250,000		
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
8/26/76	Kleir.kopf	Worden E-134	Avery Railroad Yard	980525.51 mgals

DESCRIPTION/SKETCH

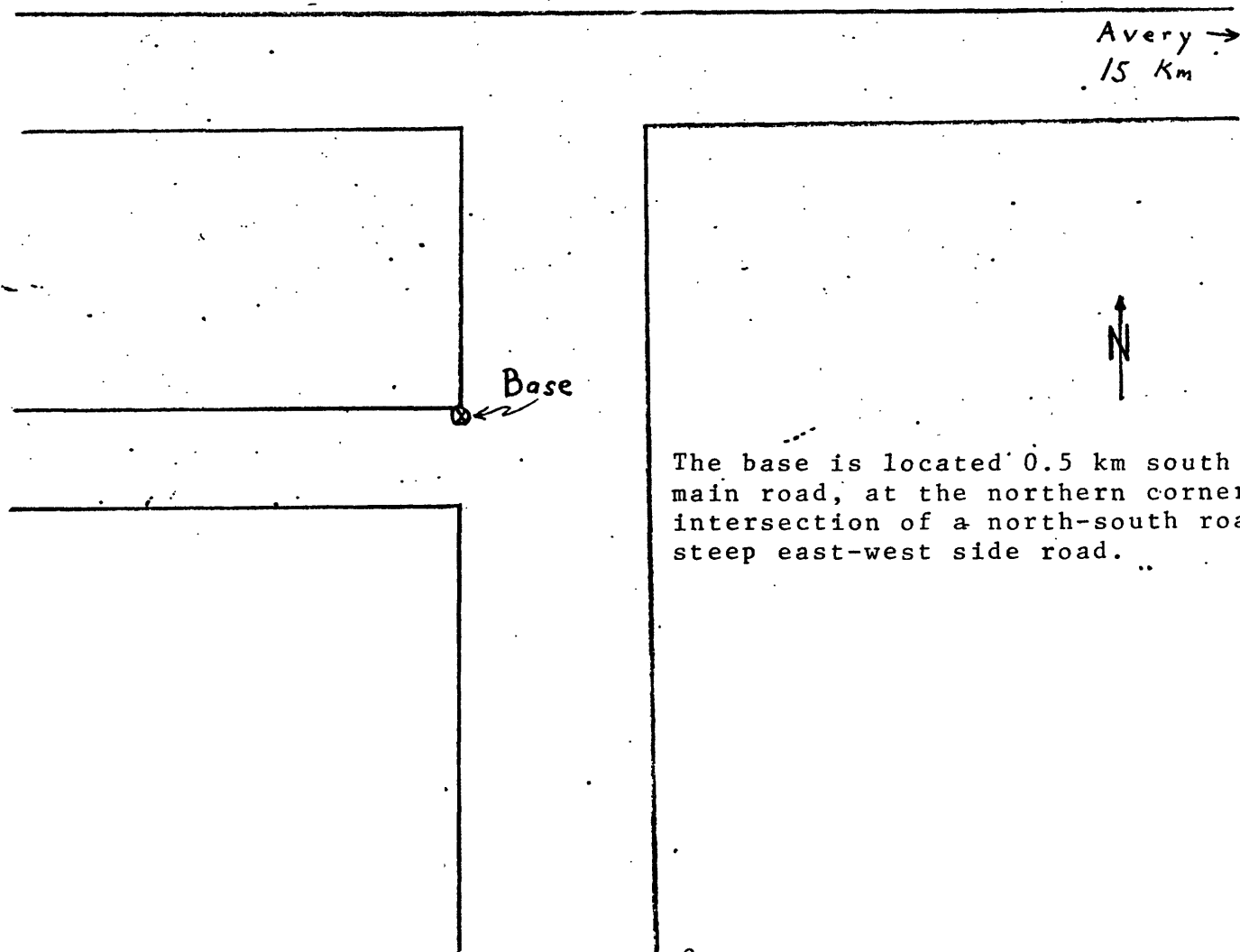


The base is located at the northern corner of the intersection of the north-south road to Avery and a diagonal side road, near a U.S. Forest Service sign.

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

STATE/COUNTRY Idaho		STATION DESIGNATION Marble Creek (SU 739)		OBSERVED GRAVITY 980544.75
NEAREST TOWN Avery		LONGITUDE 116° 01:22'		LATITUDE 47° 14:73'
ELEVATION 713 m 2339'		TOPOGRAPHIC MAP(S) Marble Mtn. 7 1/2'		
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
8/27/76	Kleinkopf	Worden E-134	Avery Bridge	980523.60

DESCRIPTION/SKETCH

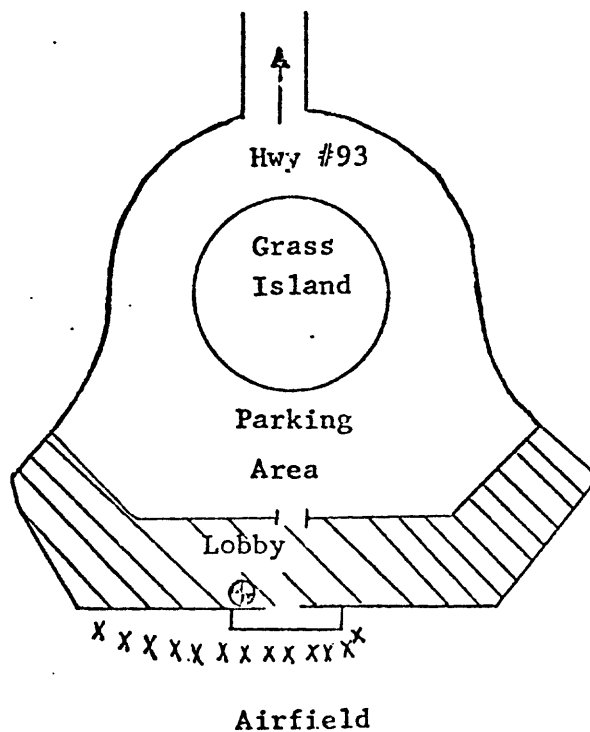


GRAVITY BASE STATION

LATITUDE 16° 55.00' N (1)		STATION DESIGNATION MISSOULA	
LONGITUDE 114° 06.50' W (1)		COUNTRY/STATE USA/Montana	
ELEVATION 976.3 METERS (1)		ADOPTED GRAVITY VALUE g = 980 443.15 mgals	
REFERENCE CODE NUMBERS		ESTIMATED ACCURACY	
ACIC 0442-0		± 0.1 mgals	DATE
IGC 15664J			MONTH/YEAR
WA 127			Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located at the Missoula Airport, inside the lobby, on the tile floor, one foot west of the exit to the apron and aircraft. (1)



(2)

REFERENCE SOURCE

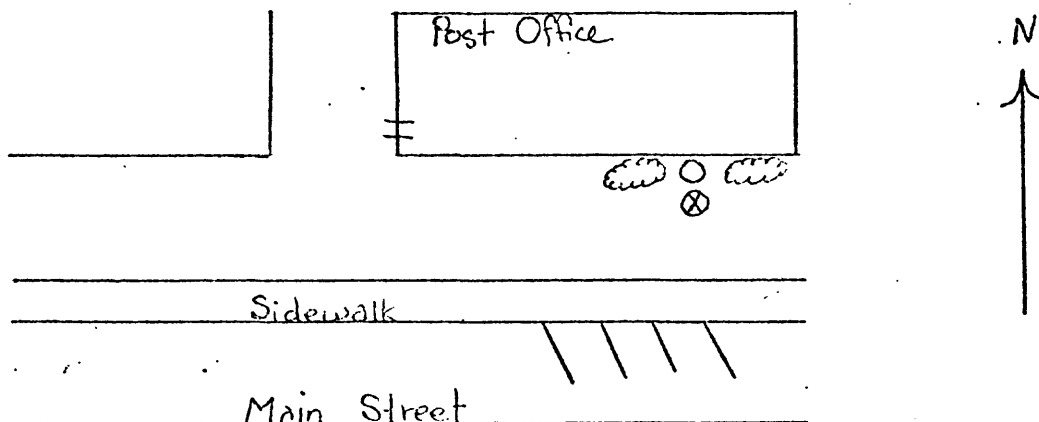
(1) 01355 (2) 05100

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

STATE/COUNTRY		STATION DESIGNATION		OBSERVED GRAVITY
Montana		Plains Post Office		980554.98 mgals
NEAREST TOWN		LONGITUDE		LATITUDE
Plains		114° 52.95'		47° 26.34'
ELEVATION		TOPOGRAPHIC MAP(S)		
		Plains 1/62,000		
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
6/30/75	Kleinkopf/Wilson	G-159	Cabinet: Ranger Station	mgals

DESCRIPTION/SKETCH

Base is at Post Office located on north side of Main Street and at base of flagpole.

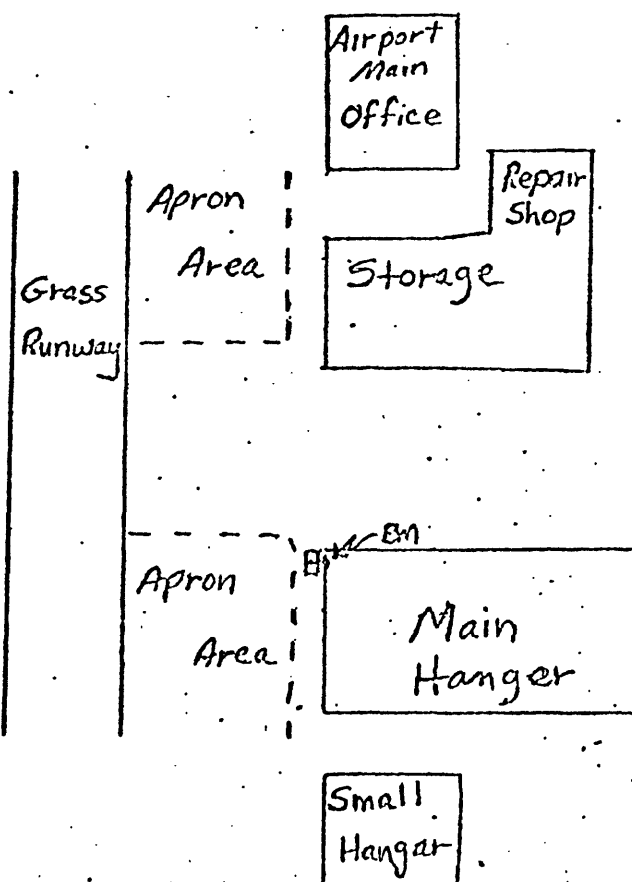


GRAVITY BASE STATION

LATITUDE		47° 41.00'N (1)	STATION DESIGNATION POLSON	
LONGITUDE		114° 09.75'W (1)		
ELEVATION		893.93 METERS (1)	COUNTRY/STATE USA/Montana	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 1223-0			g = 980 564.25 mgals	
IGB 15674J				
			ESTIMATED ACCURACY	DATE
			± 0.1 mgals	MONTH/YEAR 12/71

DESCRIPTION AND/OR SKETCH

Station is located at the Polson Airport, main hangar, one foot west of the foundation wall nearest the south apron area, on the ground outside the foundation wall containing a USC & GS BM stamped "B 376 1950". The BM is inside the hangar, one foot south of the hangar door and not visible from the station. (1)



(1)

REFERENCE SOURCE

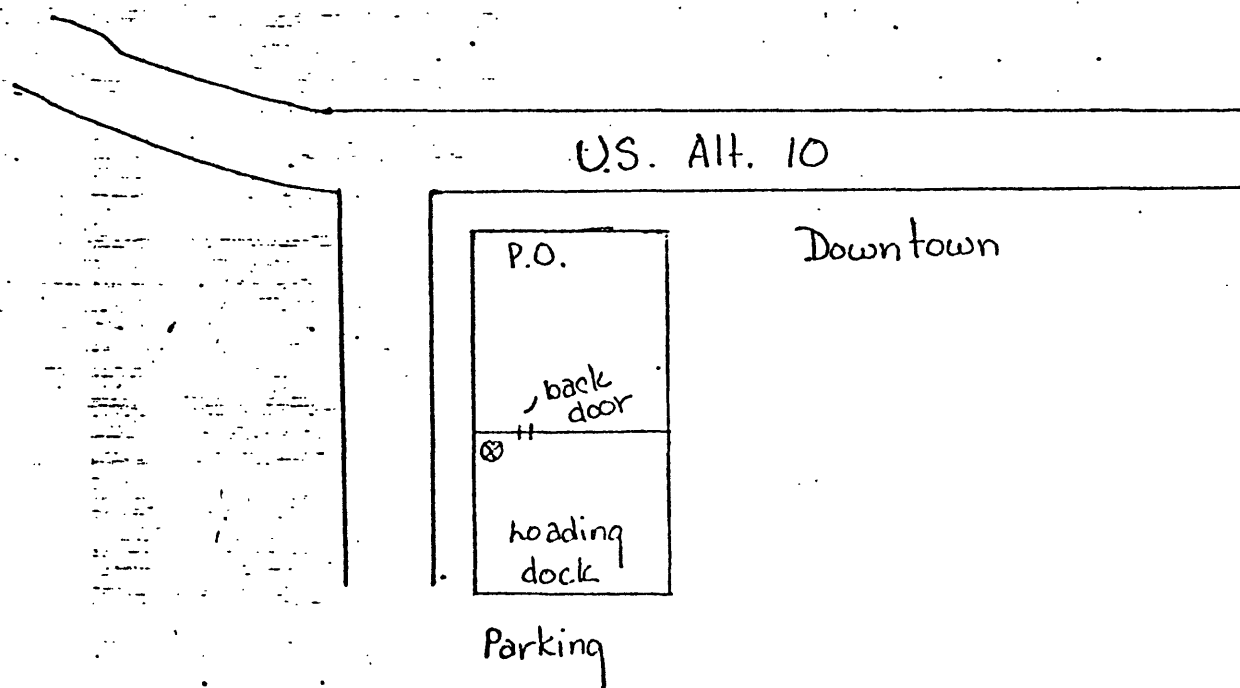
(1) 01355

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

STATE/COUNTRY Montana		STATION DESIGNATION Thompson Falls Post Office		OBSERVED GRAVITY 980556.65
NEAREST TOWN Thompson Falls		LONGITUDE 115° 21.16'		LATITUDE 47° 35.73'
ELEVATION 734.7 m (2410')		TOPOGRAPHIC MAP(S) Thompson Falls 1/62,500		
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
8/21/78	Brickey	G-235	Plains Post Office	980554.98 mgals

DESCRIPTION/SKETCH

Read at southwestern corner of new Post Office, on cement loading dock, 6 feet from back door. Picture taken.

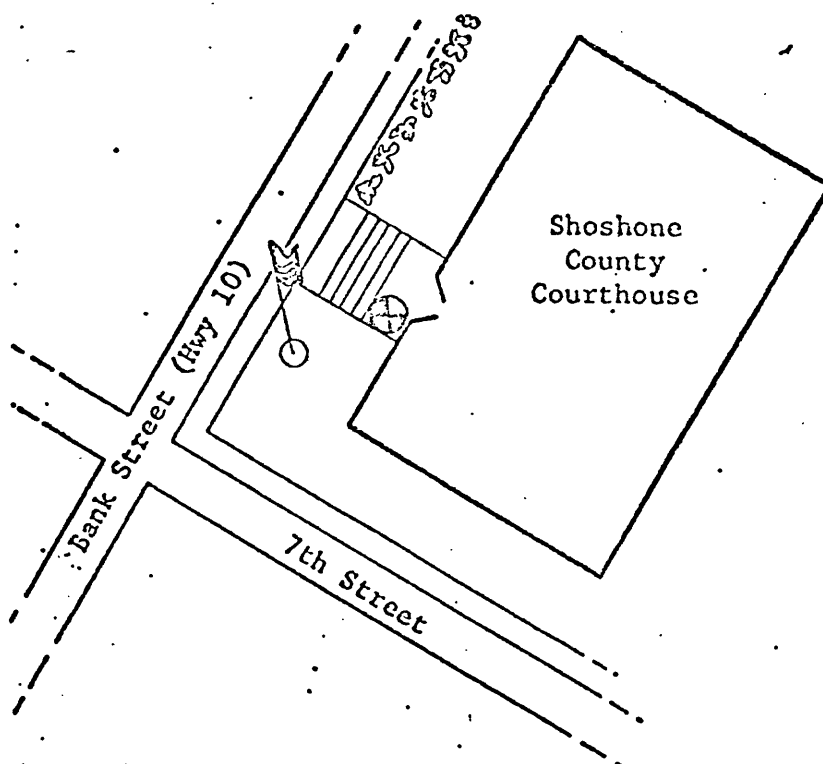


GRAVITY BASE STATION

LATITUDE 47° 28.28'N (1)		STATION DESIGNATION WALLACE	
LONGITUDE 115° 55.26'W (1)		COUNTRY/STATE USA/Idaho	
ELEVATION 835.76 METERS (1)		ADOPTED GRAVITY VALUE	
REFERENCE CODE NUMBERS		g = 980 557.96 mgals	
ACIC 4006-1			
IGB 15675B			
		ESTIMATED ACCURACY	DATE
		+ 0.1 mgals	MONTH/YEAR 10/70

DESCRIPTION AND/OR SKETCH

The station is in Wallace, at the Shoshone Courthouse on the top main steps, one foot west of the main entranceway, one foot below USC & GS BM, on the concrete step. (1)



REFERENCE SOURCE

(1) 03405

Appendix B

Principal facts for gravity stations

Explanation of headings

identification

proj

sta-id

location

latitude

and hundredths of minutes.

longitude

and hundredths of minutes.

elev, f

st

observed gravity

theoretical gravity

corrections

terrain

in milligals.

Bouguer

curv

special

anomalies

free air

complete-Bouguer

for designated densities.

spec fields

Project name.

Gravity station identification number.

North latitude in degrees, minutes,

West longitude in degrees, minutes,

Station elevation in feet.

State where survey area is located.

Observed gravity in milligals.

Theoretical gravity.

Terrain correction out to 166.7 km

Elevation correction in milligals.

Earth curvature correction in mgals.

Not used.

Free-air anomaly in milligals.

Complete Bouguer anomaly in milligals

Not used.

BOUGUER GRAVITY DATA

thompson falls gravity stations

m. kleinkopf

Meter ID: e-134 Date: 04/08/80

STATION IDENTIFICATION		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 F I E L D S					
proj	sta-id	LATITUDE deg min	LONGITUDE deg min	ELE (in ft)	ST	OBSERVED	THEORETICAL	TERRAIN	BOUGUER	CURV	SPECIAL	FREE AIR	COMPLETE d1=2.67	BOUGUER d2=2.45	SPEC FIELDS
north :	wa-1	47 34.81	-115 14.90	2498.0	mt	980540.76	980852.31	8.54	-85.20	-0.91	0.00	-76.58	-154.25	-147.86	
north :	wa2	47 36.37	-115 12.84	2476.0	mt	980537.31	980854.66	15.55	-84.45	-0.90	0.00	-84.54	-154.34	-149.13	
north :	wa3	47 37.61	-115 10.92	2551.0	mt	980531.23	980856.52	20.31	-87.01	-0.92	0.00	-85.43	-153.05	-148.27	
north :	wa4	47 39.00	-115 10.38	2624.0	mt	980535.75	980858.61	15.80	-89.50	-0.94	0.00	-76.14	-150.88	-145.22	
north :	wa5	47 39.66	-115 8.10	2655.0	mt	980534.09	980859.60	20.80	-90.55	-0.95	0.00	-75.88	-146.56	-141.47	
north :	wa6	47 40.51	-115 5.79	2759.0	mt	980540.34	980860.88	10.63	-94.10	-0.98	0.00	-61.13	-145.58	-138.91	
north :	wa7	47 42.54	-115 4.73	2875.0	mt	980542.29	980863.93	7.65	-98.06	-1.01	0.00	-51.33	-142.75	-135.21	
north :	wa-1	47 34.81	-115 14.90	2498.0	mt	980540.76	980852.31	8.54	-85.20	-0.91	0.00	-76.58	-154.25	-147.86	
north :	wa-1	47 34.81	-115 14.90	2498.0	mt	980540.76	980852.31	8.54	-85.20	-0.91	0.00	-76.58	-154.25	-147.86	
north :	wa8	47 35.11	-115 21.08	2399.0	mt	980557.34	980852.76	3.95	-81.48	-0.88	0.00	-70.79	-149.20	-142.74	
north :	wa9	47 34.56	-115 19.55	2468.0	mt	980552.57	980851.94	3.80	-84.18	-0.90	0.00	-67.31	-148.59	-141.89	
north :	wa10	47 33.86	-115 15.50	2485.0	mt	980543.54	980850.88	6.75	-84.76	-0.91	0.00	-73.59	-152.61	-145.10	
north :	wa11	47 32.15	-115 14.85	2960.0	mt	980518.88	980848.31	7.50	-100.96	-1.03	0.00	-51.13	-145.62	-133.42	
north :	wa12	47 34.44	-115 23.70	2620.0	mt	980542.83	980851.75	7.27	-89.36	-0.94	0.00	-62.58	-145.52	-138.78	
north :	su243	47 33.76	-115 27.06	2731.0	mt	980538.03	980850.73	8.28	-93.15	-0.97	0.00	-55.93	-141.77	-134.69	
north :	wa13	47 33.91	-115 24.86	2651.0	mt	980540.70	980850.96	9.21	-90.42	-0.95	0.00	-61.00	-143.16	-136.39	
north :	wa-1	47 34.81	-115 14.90	2498.0	mt	980540.76	980852.31	8.54	-85.20	-0.91	0.00	-76.68	-154.25	-147.86	

BOUGUER GRAVITY DATA

wallace cusmap gravity stations

d. kleinkopf 1978

Meter ID: e-134 Date: 03/05/80

STATION IDENTIFICATION		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				
prof	sta-id	LATITUDE deg min	LONGITUDE deg min	ELE (in ft)	ST	OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER	SPEC FIELDS
north :	thompson	47 35.71	-115 21.04	2410.0	mt	980556.65	980853.66	3.39 -82.20 -0.88	0.00	-70.42	-150.11	-143.54
north :	500	47 37.10	-115 23.21	2414.0	mt	980557.34	980855.75	4.25 -82.33 -0.89	0.00	-71.43	-150.40	-143.90
north :	501	47 42.09	-115 24.17	2571.0	mt	980558.10	980863.25	5.05 -87.69 -0.93	0.00	-63.42	-146.99	-140.10
north :	502	47 43.22	-115 22.50	2980.0	mt	980520.96	980864.95	16.61 -101.64 -1.04	0.00	-63.81	-149.88	-144.91
north :	503	47 44.86	-115 19.71	4362.0	mt	980452.27	980867.41	9.89 -148.78 -1.32	0.00	-5.06	-145.27	-133.72
north :	504	47 45.11	-115 17.96	5100.0	mt	980413.35	980867.79	7.67 -173.95 -1.42	0.00	24.99	-142.71	-128.89
north :	505	47 46.04	-115 18.99	6026.0	mt	980361.23	980869.19	6.31 -205.53 -1.50	0.00	58.49	-142.23	-125.69
north :	thompson	47 35.71	-115 21.04	2410.0	mt	980556.65	980853.66	3.39 -82.20 -0.88	0.00	-70.42	-150.11	-143.54
north :	we-7	47 42.54	-115 4.71	2875.0	mt	980542.40	980863.93	6.44 -98.06 -1.01	0.00	-51.22	-143.85	-136.22
north :	506	47 43.91	-115 3.08	3097.0	mt	980533.75	980865.98	3.05 -105.63 -1.07	0.00	-41.06	-144.70	-136.16
north :	507	47 45.78	-115 4.10	3190.0	mt	980530.86	980868.80	4.50 -108.80 -1.09	0.00	-38.02	-143.41	-134.72
north :	508	47 47.35	-115 6.00	3318.0	mt	980522.16	980871.15	7.29 -113.17 -1.12	0.00	-37.04	-144.03	-135.22
north :	509	47 49.00	-115 8.58	3514.0	mt	980513.85	980873.63	6.38 -119.85 -1.16	0.00	-29.40	-144.04	-134.59
north :	510	47 50.68	-115 9.72	3679.0	mt	980510.77	980876.16	4.37 -125.48 -1.20	0.00	-19.50	-141.81	-131.73
north :	511	47 52.35	-115 9.98	3835.0	mt	980505.59	980876.66	3.45 -130.80 -1.23	0.00	-12.52	-141.10	-130.51
north :	512	47 53.60	-115 10.39	4189.0	mt	980488.97	980880.54	1.71 -142.88 -1.29	0.00	2.25	-140.21	-128.47
north :	513	47 54.97	-115 10.67	4060.0	mt	980499.85	980882.45	1.87 -138.48 -1.27	0.00	-0.90	-138.78	-127.42
north :	514	47 56.42	-115 9.88	4089.0	mt	980500.14	980884.77	1.56 -139.46 -1.28	0.00	-0.21	-139.39	-127.93
north :	515	47 57.68	-115 9.31	3989.0	mt	980507.59	980886.66	2.83 -136.05 -1.26	0.00	-4.05	-138.53	-127.45
north :	516	47 59.83	-115 10.03	3647.0	mt	980527.93	980889.89	4.80 -124.39 -1.19	0.00	-19.09	-139.87	-129.92
north :	517	48 1.78	-115 11.39	3565.0	mt	980538.42	980892.82	0.36 -121.59 -1.17	0.00	-19.23	-141.64	-131.55
north :	518	48 3.42	-115 12.03	3486.0	mt	980545.77	980895.28	0.40 -118.90 -1.16	0.00	-21.77	-141.42	-131.56
north :	519	48 4.43	-115 13.45	3347.0	mt	980554.52	980896.80	0.59 -114.16 -1.13	0.00	-27.60	-142.29	-132.84
north :	happysin	48 5.22	-115 9.25	3394.0	mt	980552.87	980897.98	0.66 -115.76 -1.14	0.00	-26.02	-142.26	-132.68
north :	520	48 1.36	-115 0.74	3430.0	mt	980548.43	980892.19	1.01 -116.99 -1.14	0.00	-21.28	-138.40	-128.75
north :	521	48 0.27	-115 0.62	3350.0	mt	980551.42	980890.55	1.62 -114.26 -1.13	0.00	-24.17	-137.94	-128.56
north :	522	48 0.45	-115 3.60	3646.0	mt	980536.13	980890.82	0.97 -124.35 -1.19	0.00	-11.91	-136.49	-126.22
north :	523	47 58.94	-115 3.48	3911.0	mt	980510.05	980888.55	2.70 -133.39 -1.24	0.00	-10.82	-142.76	-131.89
north :	524	47 56.83	-115 3.00	3723.0	mt	980518.70	980885.39	1.47 -126.98 -1.21	0.00	-16.67	-143.39	-132.94
north :	525	47 55.03	-115 1.94	3554.0	mt	980536.84	980882.69	2.03 -114.40 -1.13	0.00	-30.51	-144.00	-134.65
north :	526	47 55.06	-115 5.97	3543.0	mt	980527.88	980892.73	2.00 -120.84 -1.17	0.00	-21.75	-141.76	-131.87
north :	527	47 55.17	-115 4.17	3651.0	mt	980522.06	980882.90	1.35 -124.52 -1.19	0.00	-17.59	-141.95	-131.70
north :	528	47 55.85	-115 7.80	3805.0	mt	980514.94	980883.91	1.68 -129.78 -1.22	0.00	-11.26	-140.58	-129.92
north :	529	47 53.97	-115 2.56	3283.0	mt	980538.89	980881.09	3.14 -111.97 -1.11	0.00	-33.54	-143.49	-134.43
north :	530	47 52.68	-115 0.77	3236.0	mt	980539.74	980879.16	2.99 -110.37 -1.10	0.00	-35.17	-143.65	-134.71
north :	531	47 50.06	-115 0.31	3228.0	mt	980536.63	980875.22	3.56 -110.10 -1.10	0.00	-35.10	-142.74	-133.87
north :	532	47 48.58	-115 1.16	3104.0	mt	980540.83	980873.00	4.70 -105.87 -1.07	0.00	-40.34	-142.57	-134.15
north :	533	47 47.15	-115 0.02	3093.0	mt	980538.50	980870.85	3.14 -105.49 -1.07	0.00	-41.55	-144.97	-136.45
north :	534	47 47.58	-114 58.10	3527.0	mt	980514.31	980871.50	4.62 -120.30 -1.17	0.00	-25.59	-142.43	-132.80

wallace cusmap gravity stations
d. kleinkopf 1978
Meter ID: e-134

Date: 03/05/80

BOUGUER GRAVITY DATA

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	
IDENTIFICATION	sta-id	LATITUDE	LONGITUDE	ELE	ST	THEORETICAL	TERRAIN BOUGUER CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER	FIELDS
proj		deg min	deg min	(in ft)							
north :	535	47 45.98	-114 59.29	3047.0	mt	980538.88	980869.09	0.00	-43.73	-145.46	-137.08
north :	536	47 44.78	-115 0.95	3000.0	mt	980542.11	980867.29	0.00	-43.12	-144.04	-135.72
north :	537	47 43.97	-115 1.75	2904.0	mt	980545.51	980866.07	0.00	-47.53	-143.31	-135.41
north :	538	47 42.79	-115 3.50	2853.0	mt	980544.88	980864.30	0.00	-51.18	-143.64	-136.02
north :	wal	47 34.81	-115 14.91	2498.0	mt	980540.69	980852.31	0.00	-76.75	-156.17	-149.63
north :	thompson	47 35.71	-115 21.04	2410.0	mt	980556.65	980853.66	0.00	-70.42	-150.11	-143.54
north :	thompson	47 35.71	-115 21.04	2410.0	mt	980556.65	980853.66	0.00	-70.42	-150.11	-143.54
north :	539	47 51.33	-115 36.68	2364.0	mt	980598.55	980877.13	0.00	-56.31	-134.98	-128.50
north :	540	47 49.61	-115 32.69	2388.0	mt	980593.08	980874.55	0.00	-56.94	-134.93	-128.50
north :	541	47 50.92	-115 31.42	2491.0	mt	980589.61	980876.52	0.00	-52.69	-128.97	-122.69
north :	542	47 51.33	-115 29.25	2572.0	mt	980583.07	980877.13	0.00	-52.23	-129.29	-118.39
north :	543	47 51.80	-115 26.74	2762.0	mt	980565.67	980877.84	0.00	-52.48	-134.90	-128.11
north :	544	47 52.28	-115 23.65	3316.0	mt	980530.34	980878.55	0.00	-36.45	-144.01	-135.14
north :	545	47 52.85	-115 20.56	3478.0	mt	980523.12	980879.41	0.00	-29.31	-141.48	-132.23
north :	546	47 52.28	-115 18.92	3684.0	mt	980511.27	980878.55	0.00	-20.93	-141.56	-131.62
north :	547	47 53.46	-115 16.92	3711.0	mt	980509.57	980880.33	0.00	-21.87	-143.66	-133.62
north :	548	47 54.95	-115 16.64	3614.0	mt	980516.97	980882.56	0.00	-25.82	-143.57	-133.87
north :	549	47 56.63	-115 15.47	4041.0	mt	980498.25	980885.09	0.00	-6.93	-141.66	-130.56
north :	550	47 58.11	-115 13.00	3470.0	mt	980537.20	980887.30	0.00	-23.87	-139.37	-129.86
north :	551	47 59.54	-115 13.12	3462.0	mt	980541.45	980889.45	0.00	-22.52	-139.46	-129.82
north :	552	48 1.53	-115 13.99	3445.0	mt	980545.60	980892.45	0.00	-22.95	-141.09	-131.36
north :	553	47 56.36	-115 12.24	3599.0	mt	980527.43	980884.68	0.00	-18.89	-139.45	-129.52
north :	554	47 50.85	-115 17.80	3724.0	mt	980503.88	980876.41	0.00	-22.41	-141.29	-131.49
north :	555	47 49.47	-115 18.98	3893.0	mt	980493.05	980874.34	0.00	-15.29	-135.04	-125.18
north :	556	47 49.39	-115 20.20	4418.0	mt	980464.72	980874.22	0.00	5.84	-140.87	-128.78
north :	557	47 48.00	-115 17.72	4207.0	mt	980470.80	980872.13	0.00	-5.83	-141.79	-130.59
north :	558	47 46.90	-115 17.95	4665.0	mt	980443.14	980870.48	0.00	11.21	-141.95	-129.33
north :	559	47 51.48	-115 21.36	4213.0	mt	980478.45	980877.35	0.00	-2.83	-140.69	-129.33
north :	560	47 50.34	-115 23.69	5080.0	mt	980426.78	980875.64	0.00	28.69	-139.60	-125.73
north :	561	47 48.79	-115 31.12	2340.0	mt	980593.83	980873.31	0.00	-59.47	-132.78	-126.73
north :	562	47 45.28	-115 27.54	2555.0	mt	980572.45	980868.04	0.00	-55.08	-139.56	-132.60
north :	563	47 45.48	-115 25.38	2718.0	mt	980550.37	980868.34	0.00	-62.42	-140.67	-134.22
north :	thompson	47 35.71	-115 21.04	2410.0	mt	980556.65	980853.66	0.00	-70.42	-150.11	-143.54
north :	thompson	47 35.71	-115 21.04	2410.0	mt	980556.65	980853.66	0.00	-70.42	-150.11	-143.54
north :	537	47 43.97	-115 1.75	2904.0	mt	980545.56	980866.07	0.00	-47.48	-143.25	-135.36
north :	564	47 44.09	-114 57.53	3563.0	mt	980508.88	980866.26	0.00	-22.39	-142.08	-132.22
north :	565	47 43.05	-115 0.50	3025.0	mt	980539.50	980864.70	0.00	-40.78	-141.49	-133.19
north :	566	47 41.30	-114 59.90	3187.0	mt	980528.09	980862.06	0.00	-34.33	-140.67	-131.91
north :	567	47 41.26	-114 58.02	3365.0	mt	980515.32	980862.00	0.00	-30.31	-144.43	-135.03
north :	568	47 41.69	-114 56.13	3597.0	mt	980504.29	980862.65	0.00	-20.18	-141.25	-131.27

BOUGUER GRAVITY DATA

wallace cusmap gravity stations

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Date: 03/05/80

Meter ID: e-134

STATION IDENTIFICATION		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						
proj	sta-id	LATITUDE deg min	LONGITUDE deg min	ELE (in ft)	ST	OBSERVED	THEORETICAL	TERRAIN	BOUGUER	CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER	SPEC FIELDS
north :	569	47 39.66	-114 58.43	3341.0	mt	980516.17	980859.60	5.57	-113.95	-1.12	0.00	-29.31	-138.82	-129.80
north :	570	47 38.63	-114 57.03	3601.0	mt	980501.03	980858.05	5.16	-122.82	-1.18	0.00	-18.47	-137.31	-127.52
north :	571	47 37.33	-114 55.50	4241.0	mt	980462.83	980856.09	1.51	-144.65	-1.30	0.00	5.44	-139.01	-127.10
north :	572	47 35.40	-114 54.38	3526.0	mt	980500.86	980853.20	1.69	-120.26	-1.17	0.00	-20.84	-140.57	-130.71
north :	573	47 33.43	-114 52.88	2953.0	mt	980535.35	980850.23	2.44	-100.72	-1.03	0.00	-37.24	-136.55	-128.37
north :	574	47 32.09	-114 52.22	2899.0	mt	980539.95	980848.22	2.46	-98.88	-1.02	0.00	-35.70	-133.13	-125.11
north :	575	47 30.57	-114 52.28	2725.0	mt	980548.73	980845.94	2.32	-92.94	-0.97	0.00	-40.99	-132.59	-125.04
north :	576	47 31.40	-114 59.59	2459.0	mt	980554.51	980847.19	4.73	-83.87	-0.90	0.00	-61.47	-141.51	-134.92
north :	577	47 31.66	-115 2.18	2444.0	mt	980548.07	980847.58	9.59	-83.36	-0.89	0.00	-69.71	-144.37	-138.22
north :	578	47 32.15	-115 3.96	2422.0	mt	980545.65	980848.31	14.58	-82.61	-0.89	0.00	-74.94	-143.85	-138.17
north :	579	47 32.96	-115 6.53	2525.0	mt	980545.17	980849.53	10.13	-86.12	-0.92	0.00	-66.95	-143.86	-137.52
north :	580	47 33.70	-115 8.44	2418.0	mt	980548.01	980850.64	13.39	-82.47	-0.89	0.00	-75.28	-145.25	-139.49
north :	581	47 34.70	-115 10.57	2410.0	mt	980545.05	980852.15	15.69	-82.20	-0.88	0.00	-80.50	-147.89	-142.34
north :	582	47 34.94	-115 12.64	2583.0	mt	980536.34	980852.51	10.36	-88.10	-0.93	0.00	-73.30	-151.97	-145.49
north :	thompson	47 35.71	-115 21.04	2410.0	mt	980556.65	980853.66	3.39	-82.20	-0.88	0.00	-70.42	-150.11	-143.54
north :	thompson	47 35.71	-115 21.04	2410.0	mt	980556.65	980853.66	3.39	-82.20	-0.88	0.00	-70.42	-150.11	-143.54
north :	583	47 54.13	-115 40.85	2453.0	mt	980601.68	980881.34	2.75	-83.66	-0.90	0.00	-49.02	-130.83	-124.09
north :	584	47 54.15	-115 38.54	2556.0	mt	980596.50	980881.36	2.55	-87.18	-0.93	0.00	-44.54	-130.10	-123.05
north :	585	47 52.12	-115 37.83	2419.0	mt	980599.35	980878.31	2.29	-82.50	-0.89	0.00	-51.52	-132.62	-125.94
north :	586	47 52.09	-115 35.31	2604.0	mt	980586.48	980878.27	7.25	-88.82	-0.94	0.00	-46.95	-129.46	-122.66
north :	539	47 51.33	-115 36.68	2364.0	mt	980598.70	980877.13	2.83	-80.63	-0.87	0.00	-56.15	-134.82	-128.34
north :	587	47 49.72	-115 35.04	2369.0	mt	980597.30	980874.71	2.75	-80.80	-0.87	0.00	-54.67	-133.60	-127.09
north :	588	47 47.09	-115 28.69	2576.0	mt	980575.57	980870.76	5.99	-87.86	-0.93	0.00	-52.99	-135.79	-128.97
north :	589	47 44.63	-115 28.88	2582.0	mt	980570.71	980867.06	2.19	-88.06	-0.93	0.00	-53.59	-140.40	-133.24
north :	590	47 43.22	-115 26.00	2379.0	mt	980575.93	980864.95	4.36	-81.14	-0.88	0.00	-65.33	-142.99	-136.59
north :	591	47 39.94	-115 24.38	2392.0	mt	980565.28	980860.02	3.70	-81.58	-0.88	0.00	-69.83	-148.60	-142.11
north :	592	47 37.78	-115 21.13	2777.0	mt	980535.23	980856.77	4.54	-94.72	-0.99	0.00	-60.44	-151.60	-144.09
north :	593	47 36.30	-115 18.65	2895.0	mt	980520.94	980854.55	5.35	-98.74	-1.02	0.00	-61.42	-155.83	-148.05
north :	594	47 40.20	-115 11.42	3011.0	mt	980512.08	980860.41	18.41	-102.70	-1.05	0.00	-65.24	-150.57	-143.54
north :	595	47 41.40	-115 12.25	3367.0	mt	980496.89	980862.21	15.49	-114.84	-1.13	0.00	-48.77	-149.25	-140.97
north :	596	47 42.46	-115 12.53	3707.0	mt	980372.61	980863.80	12.03	-126.43	-1.20	0.00	-42.68	-158.29	-148.77
north :	597	47 43.71	-115 14.71	5666.0	mt	980376.15	980865.69	6.59	-193.25	-1.47	0.00	43.08	-145.06	-129.55
north :	598	47 38.53	-115 12.11	4236.0	mt	980445.25	980857.90	10.58	-144.48	-1.30	0.00	-14.42	-149.62	-138.48
north :	thompson	47 35.71	-115 21.04	2410.0	mt	980556.65	980853.66	3.39	-82.20	-0.88	0.00	-70.42	-150.11	-143.54
north :	thompson	47 35.71	-115 21.04	2410.0	mt	980556.65	980853.66	3.39	-82.20	-0.88	0.00	-70.42	-150.11	-143.54
north :	543	47 51.80	-115 26.74	2762.0	mt	980565.82	980877.84	12.76	-94.20	-0.98	0.00	-52.33	-134.75	-127.96
north :	599	47 53.73	-115 28.00	3470.0	mt	980533.56	980880.73	8.31	-118.35	-1.15	0.00	-20.93	-132.13	-122.97
north :	600	47 55.39	-115 29.38	4097.0	mt	980500.43	980883.23	6.32	-139.74	-1.28	0.00	2.37	-132.32	-121.22
north :	602	47 58.38	-115 26.47	3370.0	mt	980541.88	980887.71	4.52	-114.94	-1.13	0.00	-28.99	-140.55	-131.35

BOUGUER GRAVITY DATA

wallace cusmap gravity stations

d. kleinkoof 1978

Meter ID: e-134 Date: 03/05/80

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	proj	sta-id	LATITUDE deg	LONGITUDE deg	ELE ST (in ft)	OBSERVED	TERRAIN BOUGUER CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER d1=2.67 d2=2.45	FIELDS
north :		603	47 58.96	-115 23.75	3202.0 mt	980549.62	980888.59	0.00	-37.92	-140.10	-131.68
north :		604	47 57.83	-115 20.53	3337.0 mt	980542.09	980886.89	0.00	-31.06	-140.49	-131.47
north :		605	47 57.39	-115 18.53	3446.0 mt	980534.80	980886.23	0.00	-27.45	-141.37	-131.98
north :		606	47 56.42	-115 16.98	3522.0 mt	980527.49	980884.77	0.00	-26.15	-141.80	-132.27
north :		607	47 52.27	-115 14.48	5107.0 mt	980422.22	980878.54	0.00	23.76	-148.45	-134.26
north :		608	47 51.78	-115 12.34	4162.0 mt	980486.20	980877.80	0.00	-0.32	-141.13	-129.52
north :thompson		47 35.71	-115 21.04	2410.0 mt	980556.65	980853.66	3.39	-82.20	-70.42	-150.11	-143.54
north :thompson		47 35.71	-115 21.04	2410.0 mt	980556.65	980853.66	3.39	-82.20	-70.42	-150.11	-143.54
north :		609	47 58.02	-115 43.05	2421.0 mt	980606.00	980887.17	0.00	-53.54	-133.81	-127.20
north :		610	47 58.41	-115 40.62	2679.0 mt	980586.62	980887.76	0.00	-49.26	-132.86	-125.97
north :		611	47 58.05	-115 39.06	2764.0 mt	980582.56	980887.22	0.00	-44.78	-131.86	-124.68
north :		612	47 58.68	-115 44.28	2346.0 mt	980611.33	980888.16	0.00	-56.26	-133.46	-127.10
north :		613	47 59.55	-115 41.88	2527.0 mt	980598.67	980889.47	0.00	-53.20	-135.40	-128.63
north :		614	48 1.35	-115 42.40	2756.0 mt	980584.31	980892.17	0.00	-48.74	-140.82	-133.23
north :		615	48 3.10	-115 43.17	3629.0 mt	980535.85	980894.80	0.00	-17.77	-141.35	-131.17
north :		539	47 51.33	-115 36.68	2364.0 mt	980598.87	980877.13	0.00	-55.99	-134.66	-128.18
north :		616	47 54.47	-115 24.75	4024.0 mt	980496.39	980881.84	0.00	-7.15	-135.57	-124.99
north :thompson		47 35.71	-115 21.04	2410.0 mt	980556.65	980853.66	3.39	-82.20	-70.42	-150.11	-143.54
north :thompson		47 35.71	-115 21.04	2410.0 mt	980556.65	980853.66	3.39	-82.20	-70.42	-150.11	-143.54
north :		617	47 56.53	-115 41.78	2380.0 mt	980606.16	980884.94	0.00	-55.00	-133.17	-126.73
north :		618	47 48.33	-115 10.76	3847.0 mt	980495.19	980872.63	0.00	-15.76	-142.43	-132.00
north :		619	47 48.96	-115 13.63	5272.0 mt	980405.88	980873.57	0.00	27.90	-143.95	-129.79
north :		620	47 47.96	-115 12.69	4017.0 mt	980481.17	980872.07	0.00	-13.25	-138.85	-128.50
north :		621	47 47.10	-115 14.59	5168.0 mt	980414.95	980870.77	0.00	30.00	-141.76	-127.61
north :		622	47 46.98	-115 8.81	4805.0 mt	980437.93	980870.59	0.00	19.04	-137.03	-124.17
north :		623	47 46.13	-115 8.75	4643.0 mt	980445.93	980869.32	0.00	13.09	-142.33	-129.52
north :		508	47 47.35	-115 6.00	3318.0 mt	980522.16	980871.15	0.00	-37.04	-144.03	-135.22
north :		624	47 41.26	-115 2.81	3531.0 mt	980504.23	980862.00	0.00	-25.80	-143.19	-133.52
north :thompson		47 35.71	-115 21.04	2410.0 mt	980556.65	980853.66	3.39	-82.20	-70.42	-150.11	-143.54
north :thompson		47 35.71	-115 21.04	2410.0 mt	980556.65	980853.66	3.39	-82.20	-70.42	-150.11	-143.54
north :		509	47 49.00	-115 8.58	3514.0 mt	980513.81	980873.63	0.00	-29.44	-144.08	-134.63
north :		625	47 54.25	-115 12.05	4162.0 mt	980491.70	980881.52	0.00	1.47	-140.90	-129.17
north :		626	47 52.77	-115 15.47	4970.0 mt	980436.13	980879.29	0.00	24.05	-143.28	-129.49
north :		627	47 50.52	-115 15.47	5937.0 mt	980371.93	980875.91	0.00	54.09	-141.37	-125.27
north :		628	47 48.92	-115 15.33	6082.0 mt	980367.49	980873.51	0.00	65.68	-135.66	-119.07
north :		629	47 51.62	-115 8.11	4145.0 mt	980486.64	980877.95	0.00	-1.63	-141.97	-130.41
north :		630	47 53.25	-115 7.70	3867.0 mt	980506.27	980880.02	0.00	-10.19	-141.28	-130.47
north :		631	47 53.63	-115 4.42	4493.0 mt	980468.70	980880.59	0.00	10.51	-139.79	-127.41
north :		632	47 51.79	-115 2.48	3506.0 mt	980523.44	980877.82	0.00	-24.76	-142.46	-127.76
north :		633	47 52.73	-115 6.17	3733.0 mt	980512.12	980879.23	0.00	-16.16	-133.17	-123.53

BOUGUER GRAVITY DATA

wallace cusmap gravity stations
d. kleinkopf 1978
Meter ID: e-134

Date: 03/05/80

STATION IDENTIFICATION proj	LATITUDE deg min	LONGITUDE deg min	ELEVATION (in ft)	STATION ID	GRAVITY		CORRECTIONS		SPECIAL	FREE AIR	ANOMALIES	
					OBSERVED	THEORETICAL	TERRAIN	BOUGUER			COMPLETE-BOUGUER	SPECIAL
north :thompson	47 35.71	-115 21.04	2410.0	mt	980556.65	980853.66	3.39	-82.20	-0.88	0.00	-70.42	-150.11 -143.54
north :thompson	47 35.71	-115 21.04	2410.0	mt	980556.65	980853.66	3.39	-82.20	-0.88	0.00	-70.42	-150.11 -143.54
north :634	47 39.26	-115 24.73	2410.0	mt	980561.58	980859.00	4.36	-82.20	-0.88	0.00	-70.82	-149.54 -143.06
north :635	47 55.60	-114 59.63	3314.0	mt	980540.52	980883.54	4.27	-113.03	-1.12	0.00	-31.44	-141.32 -132.27
north :636	47 56.46	-114 58.48	3332.0	mt	980540.53	980884.83	3.08	-113.64	-1.12	0.00	-31.04	-142.72 -133.52
north :637	47 58.12	-114 58.83	3518.0	mt	980541.85	980887.32	2.21	-119.99	-1.16	0.00	-14.72	-133.67 -123.87
north :638	47 59.40	-114 59.04	3358.0	mt	980549.96	980889.24	2.34	-114.53	-1.13	0.00	-23.58	-136.90 -127.56
north :639	47 57.36	-114 56.86	3952.0	mt	980508.64	980886.18	3.73	-134.79	-1.25	0.00	-6.00	-138.31 -127.41
north :640	47 55.11	-114 60.03	3892.0	mt	980506.32	980882.80	8.36	-132.74	-1.24	0.00	-10.58	-136.21 -125.86
north :641	47 52.12	-114 58.86	3601.0	mt	980517.62	980878.31	3.39	-122.82	-1.18	0.00	-22.15	-142.76 -132.82
north :642	47 51.77	-115 0.53	3333.0	mt	980531.34	980877.79	2.47	-113.68	-1.12	0.00	-33.09	-145.42 -136.16
north :537	47 43.97	-115 1.75	2904.0	mt	980545.62	980866.07	4.29	-99.05	-1.02	0.00	-47.42	-143.20 -135.31
north :643	47 36.15	-114 57.88	4140.0	mt	980464.21	980854.32	3.74	-141.20	-1.28	0.00	-0.90	-139.65 -128.22
north :644	47 31.42	-114 55.06	3050.0	mt	980524.07	980847.21	2.05	-104.03	-1.06	0.00	-36.38	-139.42 -130.93
north :thompson	47 35.71	-115 21.04	2410.0	mt	980556.65	980853.66	3.39	-82.20	-0.88	0.00	-70.42	-150.11 -143.54
north :plains	47 27.66	-114 52.73	2468.0	mt	980554.98	980841.56	3.34	-84.18	-0.90	0.00	-54.53	-136.26 -129.53
north :645	47 32.11	-114 56.80	3818.0	mt	980476.56	980848.25	2.69	-130.22	-1.23	0.00	-12.74	-141.50 -130.89
north :646	47 32.63	-114 59.05	2627.0	mt	980544.76	980849.08	4.92	-89.60	-0.95	0.00	-57.32	-142.95 -135.89
north :647	47 33.94	-114 58.37	3072.0	mt	980517.90	980851.00	9.41	-104.78	-1.06	0.00	-44.27	-140.70 -132.76
north :648	47 34.23	-114 52.23	3205.0	mt	980519.36	980851.44	2.21	-109.31	-1.09	0.00	-30.75	-138.95 -130.03
north :649	47 35.78	-114 51.73	3742.0	mt	980489.29	980853.77	2.97	-127.63	-1.21	0.00	-12.68	-138.54 -128.17
north :650	47 37.38	-114 52.16	4617.0	mt	980439.12	980856.17	3.75	-157.47	-1.36	0.00	16.98	-138.10 -125.32
north :plains	47 27.66	-114 52.73	2468.0	mt	980554.98	980841.56	3.34	-84.18	-0.90	0.00	-54.53	-136.26 -129.53
north :673	47 50.01	-114 33.73	2918.0	mt	980559.00	980875.15	1.27	-99.52	-1.02	0.00	-41.80	-141.07 -132.89
north :674	47 50.84	-114 36.21	2918.0	mt	980559.97	980876.39	1.21	-99.52	-1.02	0.00	-42.07	-141.41 -133.23
north :675	47 51.22	-114 35.79	2970.0	mt	980560.11	980876.96	0.97	-101.30	-1.04	0.00	-37.61	-138.98 -130.63
north :677	47 51.39	-114 35.46	3008.0	mt	980558.72	980877.22	0.93	-102.59	-1.05	0.00	-35.69	-138.40 -129.94
north :678	47 51.25	-114 36.21	2955.0	mt	980561.52	980877.01	1.10	-100.79	-1.03	0.00	-37.66	-138.38 -130.08
north :679	47 51.74	-114 35.03	2980.0	mt	980558.53	980877.74	1.56	-101.64	-1.04	0.00	-39.04	-140.15 -131.82
north :673	47 50.01	-114 33.73	2918.0	mt	980559.00	980875.15	1.27	-99.52	-1.02	0.00	-41.80	-141.07 -132.89
north :hotsprin	47 36.52	-114 40.19	2845.0	mt	980558.33	980854.38	2.60	-97.04	-1.00	0.00	-29.06	-124.50 -116.64
north :s104	47 17.41	-114 23.04	3365.0	mt	980489.65	980826.15	4.11	-114.77	-1.13	0.00	-20.13	-131.92 -122.71
north :hotsprin	47 36.52	-114 40.19	2845.0	mt	980558.33	980854.88	2.60	-97.04	-1.00	0.00	-29.06	-124.50 -116.64
north :hotsprin	47 36.52	-114 40.19	2845.0	mt	980558.33	980854.88	2.60	-97.04	-1.00	0.00	-29.06	-124.50 -116.64
north :717	47 30.05	-114 36.28	2821.0	mt	980550.21	980845.16	1.16	-96.22	-1.00	0.00	-29.71	-125.76 -117.85
north :718	47 30.65	-114 34.98	2931.0	mt	980544.55	980845.16	1.24	-99.97	-1.03	0.00	-25.03	-124.79 -116.57
north :719	47 30.07	-114 33.81	3196.0	mt	980527.25	980845.19	2.54	-109.01	-1.09	0.00	-17.45	-125.01 -116.15
north :720	47 30.90	-114 33.68	3252.0	mt	980525.13	980846.43	3.00	-110.92	-1.10	0.00	-15.55	-124.57 -115.59
north :721	47 31.43	-114 32.81	3372.0	mt	980520.98	980847.23	2.64	-115.01	-1.13	0.00	-9.22	-122.52 -113.18
north :722	47 33.55	-114 32.67	4958.0	mt	980414.95	980850.41	12.46	-169.10	-1.41	0.00	30.62	-127.43 -114.40

BOUGUER GRAVITY DATA

wallace cusmap gravity stations
d. kleinkopf 1978
Meter ID: e-134

Date: 03/05/80

STATION IDENTIFICATION		L O C A T I O N		C O R R E C T I O N S		A N O M A L I E S								
proj	sta-id	LATITUDE deg min	LONGITUDE deg min	TERRAIN	BOUGUER	CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER	SPEC FIELDS				
north :	723	47 31.81	-114 31.52	3038.0	mt	980540.51	980847.80	2.83	-103.62	-1.05	0.00	-21.66	-123.50	-115.11
north :	724	47 31.78	-114 30.28	2866.0	mt	980548.44	980847.76	3.19	-97.75	-1.01	0.00	-29.85	-125.42	-117.55
north :shotsprin		47 36.52	-114 40.19	2845.0	mt	980558.33	980854.88	2.60	-97.04	-1.00	0.00	-29.06	-124.50	-116.64
north :shotsprin		47 36.52	-114 40.19	2845.0	mt	980558.33	980854.88	2.60	-97.04	-1.00	0.00	-29.06	-124.50	-116.64
north :	725	47 34.25	-114 37.62	2899.0	mt	980553.52	980851.47	2.08	-98.88	-1.02	0.00	-25.38	-123.19	-115.13
north :	726	47 32.84	-114 35.69	3205.0	mt	980533.26	980849.35	1.57	-109.31	-1.09	0.00	-14.76	-123.60	-114.63
north :	727	47 34.60	-114 34.12	3015.0	mt	980547.88	980851.99	2.82	-102.83	-1.05	0.00	-20.64	-121.70	-113.37
north :	728	47 35.25	-114 32.68	2796.0	mt	980557.29	980852.97	1.99	-95.36	-0.99	0.00	-32.80	-127.16	-119.39
north :	729	47 31.77	-114 37.28	2946.0	mt	980546.25	980847.74	1.82	-100.48	-1.03	0.00	-24.51	-124.20	-115.98
north :	730	47 30.06	-114 37.46	2826.0	mt	980546.76	980845.17	0.89	-96.39	-1.00	0.00	-32.71	-129.20	-121.25
north :	731	47 28.33	-114 40.08	2837.0	mt	980535.19	980842.57	1.56	-96.76	-1.00	0.00	-40.64	-136.85	-128.92
north :	732	47 26.57	-114 38.82	2835.0	mt	980538.95	980839.92	1.58	-96.69	-1.00	0.00	-34.42	-130.53	-122.61
north :	733	47 26.57	-114 37.55	2800.0	mt	980537.94	980839.92	1.16	-95.50	-0.99	0.00	-38.72	-134.06	-126.20
north :	734	47 26.57	-114 36.25	2824.0	mt	980536.53	980839.92	1.17	-96.32	-1.00	0.00	-37.87	-134.02	-126.10
north :	735	47 26.57	-114 35.02	3063.0	mt	980525.16	980839.92	0.97	-104.47	-1.06	0.00	-26.78	-131.34	-122.72
north :	736	47 26.57	-114 33.78	3207.0	mt	980519.98	980839.92	2.26	-109.38	-1.09	0.00	-18.42	-126.64	-117.72
north :	737	47 25.71	-114 36.84	2834.0	mt	980537.99	980838.63	1.30	-96.66	-1.00	0.00	-34.18	-130.54	-122.60
north :	738	47 25.71	-114 37.55	2853.0	mt	980533.88	980838.63	1.49	-97.31	-1.01	0.00	-36.50	-133.33	-125.35
north :	739	47 25.71	-114 38.82	2953.0	mt	980530.00	980838.63	1.90	-100.72	-1.03	0.00	-30.99	-130.84	-122.61
north :	740	47 24.89	-114 38.82	3284.0	mt	980516.36	980837.40	2.54	-112.01	-1.11	0.00	-12.28	-122.86	-113.75
north :	741	47 30.38	-114 41.68	3444.0	mt	980508.93	980845.65	2.60	-117.46	-1.15	0.00	-12.93	-128.94	-119.38
north :	742	47 30.78	-114 43.28	3740.0	mt	980498.33	980846.25	1.93	-127.56	-1.21	0.00	3.69	-123.15	-112.70
north :	743	47 32.12	-114 44.00	3627.0	mt	980500.45	980848.21	7.06	-123.71	-1.19	0.00	-29.34	-124.60	-114.20
north :	744	47 32.53	-114 42.58	3608.0	mt	980505.18	980848.88	2.05	-123.06	-1.18	0.00	-4.49	-126.68	-116.62
north :	745	47 31.61	-114 40.42	3052.0	mt	980538.76	980847.50	3.25	-104.09	-1.06	0.00	-21.79	-123.69	-105.51
north :	746	47 32.86	-114 39.29	3296.0	mt	980525.70	980849.38	1.42	-112.42	-1.11	0.00	-13.79	-125.90	-116.67
north :	747	47 32.87	-114 40.68	3367.0	mt	980525.31	980849.39	1.30	-114.84	-1.13	0.00	-7.52	-122.19	-112.74
north :	748	47 33.94	-114 39.08	3293.0	mt	980528.83	980851.00	1.88	-112.32	-1.11	0.00	-12.57	-124.12	-114.93
north :shotsprin		47 36.52	-114 40.19	2845.0	mt	980558.33	980854.88	2.60	-97.04	-1.00	0.00	-29.06	-124.50	-116.64
north :lakeside		48 1.18	-114 13.42	2910.0	mt	980572.93	980891.91	0.93	-99.25	-1.02	0.00	-45.39	-144.73	-136.55
north :	749	47 56.17	-114 19.49	3558.0	mt	980534.72	980884.40	1.44	-121.35	-1.17	0.00	-15.17	-136.26	-126.28
north :	750	47 57.21	-114 19.20	3966.0	mt	980511.56	980885.96	2.60	-135.27	-1.25	0.00	-1.54	-135.46	-124.43
north :	751	47 58.17	-114 17.60	4570.0	mt	980475.94	980887.40	4.51	-155.87	-1.35	0.00	18.16	-134.55	-121.97
north :	752	47 58.90	-114 16.68	4640.0	mt	980471.99	980888.49	3.26	-158.26	-1.36	0.00	19.70	-136.67	-123.78
north :	753	47 57.42	-114 20.63	3770.0	mt	980523.22	980886.27	3.60	-128.58	-1.22	0.00	-8.62	-134.82	-124.42
north :	754	47 54.65	-114 27.88	4903.0	mt	980457.36	980882.09	5.07	-167.23	-1.40	0.00	36.19	-127.37	-113.89
north :	755	47 53.73	-114 26.81	4819.0	mt	980456.31	980880.73	4.86	-164.36	-1.39	0.00	28.60	-132.29	-119.03
north :	756	47 53.86	-114 25.47	5025.0	mt	980441.33	980880.93	6.17	-171.39	-1.41	0.00	32.78	-133.85	-120.12
north :lakeside		48 1.18	-114 13.42	2910.0	mt	980572.93	980891.91	0.93	-99.25	-1.02	0.00	-45.39	-144.73	-136.55
north :lakeside		48 1.18	-114 13.42	2910.0	mt	980572.93	980891.91	0.93	-99.25	-1.02	0.00	-45.39	-144.73	-136.55

wallace cusmap gravity stations

d. kleinkopf 1978

Meter ID: e-134

Date: 03/05/80

BOUGUER GRAVITY DATA

STATION IDENTIFICATION		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							
proj	sta-id	LATITUDE	LONGITUDE	ELE	ST	THEORETICAL	TERRAIN	BOUGUER	CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER	SPEC FIELDS		
		deg min	deg min	(in ft)								di=2.67	d2=2.45		
north :	757	48	3.53	-114 15.63	3240.0	mt	980557.07	980895.52	0.58	-110.51	-1.10	0.00	-33.83	-144.86	-135.71
north :	758	48	6.29	-114 27.49	3154.0	mt	980572.47	980899.59	0.83	-107.57	-1.08	0.00	-30.58	-138.41	-129.52
north :	759	48	6.38	-114 25.75	3364.0	mt	980558.92	980899.72	0.52	-114.74	-1.13	0.00	-24.53	-139.87	-130.37
north :	760	48	6.46	-114 24.13	3880.0	mt	980529.59	980899.84	0.28	-132.34	-1.24	0.00	-5.48	-138.77	-127.79
north :	761	48	7.19	-114 25.80	3187.0	mt	980570.56	980900.94	0.63	-108.70	-1.09	0.00	-30.74	-139.90	-130.90
north :	762	48	4.71	-114 26.67	3442.0	mt	980553.78	980897.21	0.67	-117.40	-1.15	0.00	-19.83	-137.70	-127.99
north :	763	48	4.10	-114 25.65	3600.0	mt	980541.16	980896.30	0.64	-122.79	-1.18	0.00	-16.68	-140.01	-129.85
north :	764	48	4.49	-114 24.34	3680.0	mt	980526.56	980896.88	0.45	-132.34	-1.24	0.00	-5.55	-138.67	-127.71
north :	765	48	4.67	-114 22.83	4160.0	mt	980496.24	980897.16	0.47	-141.89	-1.29	0.00	-9.82	-152.53	-140.77
north :	766	48	5.46	-114 21.13	4760.0	mt	980473.36	980898.34	1.45	-162.35	-1.38	0.00	22.49	-139.79	-126.41
north :	767	48	5.73	-114 19.81	3828.0	mt	980526.65	980898.74	0.38	-130.56	-1.23	0.00	-12.21	-143.62	-132.79
north :	768	48	6.40	-114 19.85	3538.0	mt	980544.77	980899.75	0.33	-120.67	-1.17	0.00	-22.35	-143.86	-133.85
north :	769	48	7.25	-114 19.53	3407.0	mt	980553.31	980901.02	0.36	-116.20	-1.14	0.00	-27.40	-144.38	-134.74
north :	770	48	4.90	-114 18.51	4420.0	mt	980490.50	980897.50	1.04	-150.75	-1.33	0.00	8.52	-142.52	-130.08
north :	771	48	4.88	-114 19.86	4320.0	mt	980494.95	980897.47	0.77	-147.34	-1.32	0.00	3.61	-144.28	-132.09
north :	772	48	5.31	-114 28.21	3180.0	mt	980569.20	980898.12	0.93	-108.46	-1.09	0.00	-29.94	-138.55	-129.60
north :	773	48	5.02	-114 29.41	3160.0	mt	980570.54	980897.68	0.95	-107.78	-1.08	0.00	-30.04	-137.95	-129.06
north :	774	48	3.28	-114 25.88	3838.0	mt	980529.40	980895.07	0.58	-130.90	-1.23	0.00	-4.85	-136.40	-125.56
north :	775	48	2.48	-114 26.47	4067.0	mt	980514.17	980893.87	0.51	-138.71	-1.27	0.00	2.65	-136.83	-125.33
north :	776	48	1.63	-114 26.35	4144.0	mt	980510.30	980892.59	0.66	-141.34	-1.29	0.00	7.29	-134.68	-122.98
north :	777	48	0.52	-114 26.29	4324.0	mt	980503.57	980890.92	1.60	-147.48	-1.32	0.00	19.15	-128.05	-115.92
north : lakeside	778	48	1.18	-114 13.42	2910.0	mt	980572.93	980891.91	0.93	-99.25	-1.02	0.00	-45.39	-144.73	-136.55
north : lakeside	779	48	1.12	-114 13.42	2910.0	mt	980572.93	980891.83	0.95	-99.25	-1.02	0.00	-45.30	-144.62	-136.44
north :	780	48	2.79	-114 24.81	3934.0	mt	980521.12	980894.34	0.56	-134.18	-1.25	0.00	-3.37	-138.23	-127.12
north :	779	48	2.02	-114 24.62	3991.0	mt	980516.13	980893.18	0.55	-136.12	-1.26	0.00	-1.84	-138.67	-127.40
north :	780	48	0.56	-114 25.15	5284.0	mt	980439.24	980890.98	1.93	-180.22	-1.44	0.00	44.97	-134.76	-119.95
north :	781	48	1.51	-114 25.53	4972.0	mt	980458.81	980892.41	1.27	-169.58	-1.41	0.00	33.80	-135.92	-121.94
north :	782	47	56.98	-114 23.74	3767.0	mt	980526.46	980885.61	1.96	-128.48	-1.22	0.00	-5.00	-132.74	-122.21
north :	783	47	56.21	-114 25.13	3807.0	mt	980522.87	980884.45	1.71	-129.85	-1.22	0.00	-3.68	-133.04	-122.38
north :	784	47	54.51	-114 31.95	3627.0	mt	980525.44	980881.91	2.09	-123.71	-1.19	0.00	-15.47	-138.28	-128.16
north :	785	47	52.77	-114 31.93	3054.0	mt	980557.17	980879.24	2.60	-104.16	-1.06	0.00	-34.99	-137.61	-129.15
north :	786	47	56.38	-114 32.98	4598.0	mt	980470.78	980884.71	2.22	-156.82	-1.36	0.00	18.32	-137.64	-124.79
north :	787	47	57.98	-114 31.98	4107.0	mt	980502.80	980887.11	4.54	-140.08	-1.28	0.00	1.79	-135.03	-123.75
north :	788	47	59.45	-114 30.81	3920.0	mt	980517.25	980889.34	2.41	-133.70	-1.24	0.00	-3.55	-136.09	-125.17
north : lakeside	789	48	1.18	-114 13.42	2910.0	mt	980572.93	980891.91	0.93	-99.25	-1.02	0.00	-45.39	-144.73	-136.55
north : plains	790	47	27.68	-114 52.73	2468.0	mt	980554.98	980841.56	3.34	-84.18	-0.90	0.00	-54.53	-136.26	-129.53
north :	789	47	34.33	-115 1.69	5061.0	mt	980394.97	980851.59	14.96	-172.62	-1.42	0.00	19.15	-139.93	-126.82
north :	790	47	35.57	-114 59.81	3374.0	mt	980502.99	980853.45	6.03	-115.08	-1.13	0.00	-33.24	-143.42	-134.35
north :	791	47	30.90	-114 49.17	3544.0	mt	980502.56	980846.43	2.45	-120.88	-1.17	0.00	-10.68	-130.27	-120.42
north :	792	47	32.38	-114 48.63	3953.0	mt	980478.69	980848.66	2.28	-134.82	-1.25	0.00	1.66	-132.13	-121.11

BOUGUER GRAVITY DATA

wallace cusmap gravity stations

d. kleinkopf 1978

Meter ID: e-134

Date: 03/05/80

STATION IDENTIFICATION		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			
proj	sta-id	LATITUDE deg	LONGITUDE deg	ELE (in ft)	ST	THEORITICAL	TERRAIN BOUGUER CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER	SPEC FIELDS
north :	793	47 33.17	-114 49.88	3470.0	mt	980482.72	980849.84	0.00	-40.89	-156.29	-146.78
north :	794	47 38.97	-114 52.40	5305.0	mt	980402.87	980858.56	0.00	43.00	-136.04	-121.29
north :	795	47 40.53	-114 51.92	4436.0	mt	980457.61	980860.91	0.00	13.73	-134.71	-122.48
north :	796	47 41.58	-114 50.25	4364.0	mt	980464.67	980862.48	0.00	12.45	-131.05	-119.23
north :	plains	47 27.66	-114 52.73	2468.0	mt	980554.98	980841.56	0.00	-54.53	-136.26	-129.53
north :	plains	47 27.66	-114 52.73	2468.0	mt	980554.98	980841.56	0.00	-54.53	-136.26	-129.53
north :	797	47 42.65	-114 48.10	4853.0	mt	980440.78	980864.09	0.00	32.91	-127.43	-114.22
north :	798	47 42.02	-114 47.55	4329.0	mt	980470.46	980863.15	0.00	14.29	-131.74	-119.71
north :	799	47 42.83	-114 46.10	4357.0	mt	980471.68	980864.36	0.00	16.92	-131.09	-118.90
north :	800	47 40.70	-114 47.25	4626.0	mt	980450.98	980861.16	0.00	24.71	-130.51	-117.72
north :	801	47 39.19	-114 47.15	4416.0	mt	980462.71	980858.89	0.00	18.97	-130.12	-117.83
north :	802	47 40.20	-114 48.80	4137.0	mt	980479.05	980860.41	0.00	7.57	-131.20	-119.77
north :	803	47 42.22	-114 43.17	4605.0	mt	980456.02	980863.45	0.00	25.49	-129.60	-116.82
north :	804	47 43.58	-114 43.72	4886.0	mt	980437.50	980865.49	0.00	31.33	-132.03	-118.57
north :	805	47 45.19	-114 44.74	4819.0	mt	980443.19	980867.91	0.00	28.30	-133.94	-120.57
north :	806	47 46.43	-114 45.18	4940.0	mt	980438.49	980869.77	0.00	33.11	-133.82	-120.06
north :	807	47 46.32	-114 48.92	5816.0	mt	980382.12	980869.60	0.00	59.22	-134.56	-118.59
north :	808	47 47.72	-114 49.17	5230.0	mt	980414.10	980871.71	0.00	34.04	-136.77	-122.70
north :	809	47 49.16	-114 47.48	4658.0	mt	980454.48	980873.87	0.00	18.51	-137.41	-124.56
north :	810	47 50.53	-114 47.18	5732.0	mt	980390.04	980875.93	0.00	52.93	-138.00	-122.26
north :	811	47 52.13	-114 48.03	6290.0	mt	980352.19	980878.33	0.00	65.10	-140.12	-123.21
north :	812	47 51.29	-114 45.69	5144.0	mt	980428.75	980877.07	0.00	35.24	-137.73	-123.48
north :	813	47 51.13	-114 43.02	4059.0	mt	980493.74	980876.83	0.00	-1.49	-138.51	-127.22
north :	814	47 49.95	-114 42.08	3089.0	mt	980551.04	980875.05	0.00	-33.59	-135.85	-127.43
north :	815	47 49.67	-114 44.31	3763.0	mt	980510.91	980874.63	0.00	-9.95	-137.48	-126.97
north :	plains	47 27.66	-114 52.73	2468.0	mt	980554.98	980841.56	0.00	-54.53	-136.26	-129.53

BOUGUER GRAVITY DATA

wallace cusmap gravity stations

d. kleinkopf 1978

Meter ID: g-235 Date: 03/07/80

STATION IDENTIFICATION		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						
proj	sta-id	LATITUDE deg min	LONGITUDE deg min	ELE (in ft)	ST	OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER	SPEC FIELDS		
north :	hotsprin	47 36.52	-114 40.19	2845.0	mt	980558.33	980854.88	2.60	-97.04	-1.00	0.00	-29.06	-124.50	-116.64
north :	651	47 31.43	-114 44.95	3690.0	mt	980495.65	980847.23	2.43	-125.86	-1.20	0.00	-4.66	-129.29	-119.02
north :	652	47 29.15	-114 41.35	3061.0	mt	980529.57	980843.86	1.98	-104.40	-1.06	0.00	-26.50	-129.98	-121.45
north :	653	47 29.19	-114 40.08	2882.0	mt	980537.76	980843.86	1.61	-98.30	-1.01	0.00	-35.14	-132.84	-124.79
north :	654	47 29.19	-114 38.82	2818.0	mt	980546.93	980843.86	1.01	-96.11	-1.00	0.00	-31.98	-128.08	-120.16
north :	655	47 29.19	-114 37.55	2811.0	mt	980542.28	980843.86	0.81	-95.87	-0.99	0.00	-37.29	-133.35	-125.43
north :	656	47 29.19	-114 36.25	2822.0	mt	980545.71	980843.86	1.04	-96.25	-1.00	0.00	-32.82	-129.03	-121.10
north :	657	47 29.19	-114 35.02	2992.0	mt	980539.83	980843.86	1.17	-102.05	-1.04	0.00	-22.73	-124.64	-116.25
north :	658	47 28.33	-114 36.25	2835.0	mt	980537.92	980842.57	0.92	-96.69	-1.00	0.00	-38.10	-134.87	-126.90
north :	659	47 27.75	-114 36.25	2827.0	mt	980535.60	980841.70	0.96	-96.42	-1.00	0.00	-40.30	-136.76	-128.81
north :	660	47 27.43	-114 36.25	2824.0	mt	980535.50	980841.22	0.99	-96.32	-1.00	0.00	-40.20	-136.53	-128.59
north :	661	47 27.43	-114 35.01	3008.0	mt	980527.71	980841.22	1.08	-102.59	-1.05	0.00	-30.69	-133.25	-124.80
north :	662	47 27.43	-114 33.63	3323.0	mt	980514.57	980841.22	1.74	-113.34	-1.12	0.00	-14.22	-126.94	-117.65
north :	663	47 27.43	-114 37.55	2797.0	mt	980533.13	980841.22	0.97	-95.40	-0.99	0.00	-45.10	-140.52	-132.66
north :	664	47 27.43	-114 38.82	2810.0	mt	980537.18	980841.22	1.22	-95.84	-0.99	0.00	-39.84	-135.45	-127.57
north :	665	47 27.43	-114 40.08	2870.0	mt	980535.61	980841.22	2.01	-98.09	-1.01	0.00	-35.14	-132.23	-124.23
north :	666	47 27.23	-114 41.10	3121.0	mt	980525.10	980840.91	3.06	-106.45	-1.07	0.00	-22.38	-126.84	-118.23
north :	667	47 28.33	-114 38.82	2805.0	mt	980534.97	980842.57	1.04	-95.67	-0.99	0.00	-43.87	-139.49	-131.61
north :	668	47 30.08	-114 37.65	2866.0	mt	980545.91	980845.20	0.74	-97.75	-1.01	0.00	-29.82	-127.84	-119.76
north :	669	47 30.92	-114 36.17	2941.0	mt	980545.67	980846.46	0.62	-100.31	-1.03	0.00	-24.27	-124.99	-116.69
north :	670	47 30.92	-114 37.47	2860.0	mt	980551.04	980846.46	1.31	-97.55	-1.01	0.00	-26.52	-123.77	-115.75
north :	671	47 30.93	-114 36.28	2825.0	mt	980552.86	980846.48	1.48	-96.35	-1.00	0.00	-28.01	-123.88	-115.98
north :	672	47 33.05	-114 37.32	3343.0	mt	980525.44	980849.66	2.63	-114.02	-1.12	0.00	-9.92	-122.44	-113.17
north :	hotsprin	47 36.52	-114 40.19	2845.0	mt	980558.33	980854.88	2.60	-97.04	-1.00	0.00	-29.06	-124.50	-116.64
north :	lakeside	48 1.18	-114 13.42	2910.0	mt	980572.93	980891.91	0.93	-99.25	-1.02	0.00	-45.39	-144.73	-136.55
north :	680	48 0.39	-114 22.19	6495.0	mt	980357.17	980890.73	8.43	-221.53	-1.51	0.00	76.94	-137.67	-119.98
north :	681	48 0.29	-114 22.00	6533.0	mt	980353.51	980890.58	9.24	-222.82	-1.51	0.00	77.00	-138.10	-120.37
north :	682	48 0.44	-114 21.95	6520.0	mt	980354.28	980890.80	8.42	-222.38	-1.51	0.00	76.33	-139.15	-121.39
north :	683	47 59.52	-114 22.18	6169.0	mt	980379.45	980889.42	12.00	-210.41	-1.50	0.00	69.90	-130.01	-113.54
north :	684	47 59.33	-114 21.69	5891.0	mt	980395.81	980889.14	9.13	-200.93	-1.49	0.00	60.43	-132.86	-116.93
north :	685	47 59.38	-114 19.95	4961.0	mt	980454.49	980889.21	4.18	-169.21	-1.41	0.00	31.64	-134.79	-121.08
north :	686	47 58.28	-114 23.24	3702.0	mt	980529.79	980894.56	1.22	-126.26	-1.20	0.00	-6.73	-132.98	-122.57
north :	687	47 55.13	-114 22.14	3623.0	mt	980530.38	980882.84	0.71	-123.57	-1.19	0.00	-11.84	-135.88	-125.66
north :	688	47 54.28	-114 22.34	3706.0	mt	980527.42	980881.55	0.74	-126.40	-1.20	0.00	-5.72	-132.58	-122.13
north :	689	47 55.55	-114 25.63	3775.0	mt	980523.88	980883.47	1.29	-128.69	-1.22	0.00	-4.87	-133.48	-122.88
north :	690	47 56.00	-114 26.88	4049.0	mt	980507.05	980884.14	1.26	-138.10	-1.27	0.00	3.56	-134.55	-123.17
north :	691	47 56.88	-114 26.94	4297.0	mt	980492.37	980885.46	2.92	-146.56	-1.31	0.00	10.87	-134.08	-122.14
north :	692	47 54.98	-114 24.36	3702.0	mt	980527.52	980882.61	1.89	-126.26	-1.20	0.00	-7.04	-132.62	-122.27
north :	693	47 55.13	-114 20.48	3486.0	mt	980540.93	980882.84	0.95	-118.90	-1.16	0.00	-14.17	-133.27	-123.46
north :	694	47 54.30	-114 20.19	3269.0	mt	980550.06	980881.59	0.97	-111.50	-1.11	0.00	-24.18	-135.82	-126.62

wallace cusmap gravity stations
d. kleinkopf 1978
Meter ID: g-235

Date: 03/07/80

BOUGUER GRAVITY DATA

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	proj sta-id	LATITUDE deg	LONGITUDE deg min	ELE (in ft)	OBSERVED	TERRAIN BOUGUER CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER SPEC
					THEORETICAL			di=2.67	d2=2.45
									FIELDS
north :	695	47 53.11	-114 19.81	3238.0 mt	980552.96	1.09	0.00	-22.41	-132.86
north :	696	47 53.27	-114 17.88	3142.0 mt	980556.53	1.33	0.00	-28.10	-135.02
north :	697	47 51.48	-114 16.65	2917.0 mt	980569.28	0.85	0.00	-34.57	-134.23
north :	698	47 51.92	-114 19.15	3284.0 mt	980548.91	1.29	0.00	-20.35	-132.18
north :	699	47 50.71	-114 19.56	3364.0 mt	980543.03	1.44	0.00	-16.89	-131.32
north :	700	47 50.03	-114 20.78	2935.0 mt	980566.17	1.29	0.00	-33.06	-132.90
north : lakeside	701	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	702	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north :	703	48 0.95	-114 17.56	3652.0 mt	980530.88	0.90	0.00	-17.35	-142.20
north :	704	48 0.09	-114 17.99	3896.0 mt	980517.00	1.94	0.00	-7.01	-139.19
north :	705	48 0.67	-114 21.76	6757.0 mt	980335.32	9.67	0.00	79.28	-143.02
north :	706	48 1.06	-114 21.42	6150.0 mt	980381.64	5.46	0.00	67.99	-137.81
north :	707	47 59.46	-114 22.51	6155.0 mt	980379.75	12.06	0.00	68.97	-130.40
north :	708	47 58.64	-114 23.74	5621.0 mt	980412.27	12.13	0.00	52.55	-128.51
north :	709	47 59.50	-114 23.50	5290.0 mt	980436.56	3.33	0.00	44.45	-134.09
north :	710	47 58.96	-114 24.28	5309.0 mt	980436.36	4.02	0.00	46.84	-131.66
north :	711	47 59.14	-114 25.26	5992.0 mt	980390.23	10.22	0.00	64.62	-131.02
north :	712	47 58.38	-114 26.84	5677.0 mt	980410.80	6.00	0.00	56.73	-132.37
north : lakeside	713	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	714	48 1.43	-114 13.48	2988.0 mt	980573.86	0.75	0.00	-37.50	-139.71
north :	715	48 3.57	-114 14.70	2970.0 mt	980571.58	0.75	0.00	-44.69	-146.27
north :	716	48 5.73	-114 14.18	2915.0 mt	980576.84	0.52	0.00	-47.83	-147.76
north :	717	48 7.03	-114 15.28	2911.0 mt	980578.81	0.49	0.00	-48.19	-148.01
north : lakeside	718	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	719	48 1.43	-114 13.48	2988.0 mt	980573.86	0.75	0.00	-37.50	-139.71
north : lakeside	720	48 3.57	-114 14.70	2970.0 mt	980571.58	0.75	0.00	-44.69	-146.27
north : lakeside	721	48 5.73	-114 14.18	2915.0 mt	980576.84	0.52	0.00	-47.83	-147.76
north : lakeside	722	48 7.03	-114 15.28	2911.0 mt	980578.81	0.49	0.00	-48.19	-148.01
north : lakeside	723	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	724	48 1.43	-114 13.48	2988.0 mt	980573.86	0.75	0.00	-37.50	-139.71
north : lakeside	725	48 3.57	-114 14.70	2970.0 mt	980571.58	0.75	0.00	-44.69	-146.27
north : lakeside	726	48 5.73	-114 14.18	2915.0 mt	980576.84	0.52	0.00	-47.83	-147.76
north : lakeside	727	48 7.03	-114 15.28	2911.0 mt	980578.81	0.49	0.00	-48.19	-148.01
north : lakeside	728	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	729	48 1.43	-114 13.48	2988.0 mt	980573.86	0.75	0.00	-37.50	-139.71
north : lakeside	730	48 3.57	-114 14.70	2970.0 mt	980571.58	0.75	0.00	-44.69	-146.27
north : lakeside	731	48 5.73	-114 14.18	2915.0 mt	980576.84	0.52	0.00	-47.83	-147.76
north : lakeside	732	48 7.03	-114 15.28	2911.0 mt	980578.81	0.49	0.00	-48.19	-148.01
north : lakeside	733	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	734	48 1.43	-114 13.48	2988.0 mt	980573.86	0.75	0.00	-37.50	-139.71
north : lakeside	735	48 3.57	-114 14.70	2970.0 mt	980571.58	0.75	0.00	-44.69	-146.27
north : lakeside	736	48 5.73	-114 14.18	2915.0 mt	980576.84	0.52	0.00	-47.83	-147.76
north : lakeside	737	48 7.03	-114 15.28	2911.0 mt	980578.81	0.49	0.00	-48.19	-148.01
north : lakeside	738	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	739	48 1.43	-114 13.48	2988.0 mt	980573.86	0.75	0.00	-37.50	-139.71
north : lakeside	740	48 3.57	-114 14.70	2970.0 mt	980571.58	0.75	0.00	-44.69	-146.27
north : lakeside	741	48 5.73	-114 14.18	2915.0 mt	980576.84	0.52	0.00	-47.83	-147.76
north : lakeside	742	48 7.03	-114 15.28	2911.0 mt	980578.81	0.49	0.00	-48.19	-148.01
north : lakeside	743	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	744	48 1.43	-114 13.48	2988.0 mt	980573.86	0.75	0.00	-37.50	-139.71
north : lakeside	745	48 3.57	-114 14.70	2970.0 mt	980571.58	0.75	0.00	-44.69	-146.27
north : lakeside	746	48 5.73	-114 14.18	2915.0 mt	980576.84	0.52	0.00	-47.83	-147.76
north : lakeside	747	48 7.03	-114 15.28	2911.0 mt	980578.81	0.49	0.00	-48.19	-148.01
north : lakeside	748	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	749	48 1.43	-114 13.48	2988.0 mt	980573.86	0.75	0.00	-37.50	-139.71
north : lakeside	750	48 3.57	-114 14.70	2970.0 mt	980571.58	0.75	0.00	-44.69	-146.27
north : lakeside	751	48 5.73	-114 14.18	2915.0 mt	980576.84	0.52	0.00	-47.83	-147.76
north : lakeside	752	48 7.03	-114 15.28	2911.0 mt	980578.81	0.49	0.00	-48.19	-148.01
north : lakeside	753	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	754	48 1.43	-114 13.48	2988.0 mt	980573.86	0.75	0.00	-37.50	-139.71
north : lakeside	755	48 3.57	-114 14.70	2970.0 mt	980571.58	0.75	0.00	-44.69	-146.27
north : lakeside	756	48 5.73	-114 14.18	2915.0 mt	980576.84	0.52	0.00	-47.83	-147.76
north : lakeside	757	48 7.03	-114 15.28	2911.0 mt	980578.81	0.49	0.00	-48.19	-148.01
north : lakeside	758	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	759	48 1.43	-114 13.48	2988.0 mt	980573.86	0.75	0.00	-37.50	-139.71
north : lakeside	760	48 3.57	-114 14.70	2970.0 mt	980571.58	0.75	0.00	-44.69	-146.27
north : lakeside	761	48 5.73	-114 14.18	2915.0 mt	980576.84	0.52	0.00	-47.83	-147.76
north : lakeside	762	48 7.03	-114 15.28	2911.0 mt	980578.81	0.49	0.00	-48.19	-148.01
north : lakeside	763	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	764	48 1.43	-114 13.48	2988.0 mt	980573.86	0.75	0.00	-37.50	-139.71
north : lakeside	765	48 3.57	-114 14.70	2970.0 mt	980571.58	0.75	0.00	-44.69	-146.27
north : lakeside	766	48 5.73	-114 14.18	2915.0 mt	980576.84	0.52	0.00	-47.83	-147.76
north : lakeside	767	48 7.03	-114 15.28	2911.0 mt	980578.81	0.49	0.00	-48.19	-148.01
north : lakeside	768	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	769	48 1.43	-114 13.48	2988.0 mt	980573.86	0.75	0.00	-37.50	-139.71
north : lakeside	770	48 3.57	-114 14.70	2970.0 mt	980571.58	0.75	0.00	-44.69	-146.27
north : lakeside	771	48 5.73	-114 14.18	2915.0 mt	980576.84	0.52	0.00	-47.83	-147.76
north : lakeside	772	48 7.03	-114 15.28	2911.0 mt	980578.81	0.49	0.00	-48.19	-148.01
north : lakeside	773	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	774	48 1.43	-114 13.48	2988.0 mt	980573.86	0.75	0.00	-37.50	-139.71
north : lakeside	775	48 3.57	-114 14.70	2970.0 mt	980571.58	0.75	0.00	-44.69	-146.27
north : lakeside	776	48 5.73	-114 14.18	2915.0 mt	980576.84	0.52	0.00	-47.83	-147.76
north : lakeside	777	48 7.03	-114 15.28	2911.0 mt	980578.81	0.49	0.00	-48.19	-148.01
north : lakeside	778	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	779	48 1.43	-114 13.48	2988.0 mt	980573.86	0.75	0.00	-37.50	-139.71
north : lakeside	780	48 3.57	-114 14.70	2970.0 mt	980571.58	0.75	0.00	-44.69	-146.27
north : lakeside	781	48 5.73	-114 14.18	2915.0 mt	980576.84	0.52	0.00	-47.83	-147.76
north : lakeside	782	48 7.03	-114 15.28	2911.0 mt	980578.81	0.49	0.00	-48.19	-148.01
north : lakeside	783	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	784	48 1.43	-114 13.48	2988.0 mt	980573.86	0.75	0.00	-37.50	-139.71
north : lakeside	785	48 3.57	-114 14.70	2970.0 mt	980571.58	0.75	0.00	-44.69	-146.27
north : lakeside	786	48 5.73	-114 14.18	2915.0 mt	980576.84	0.52	0.00	-47.83	-147.76
north : lakeside	787	48 7.03	-114 15.28	2911.0 mt	980578.81	0.49	0.00	-48.19	-148.01
north : lakeside	788	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	789	48 1.43	-114 13.48	2988.0 mt	980573.86	0.75	0.00	-37.50	-139.71
north : lakeside	790	48 3.57	-114 14.70	2970.0 mt	980571.58	0.75	0.00	-44.69	-146.27
north : lakeside	791	48 5.73	-114 14.18	2915.0 mt	980576.84	0.52	0.00	-47.83	-147.76
north : lakeside	792	48 7.03	-114 15.28	2911.0 mt	980578.81	0.49	0.00	-48.19	-148.01
north : lakeside	793	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	794	48 1.43	-114 13.48	2988.0 mt	980573.86	0.75	0.00	-37.50	-139.71
north : lakeside	795	48 3.57	-114 14.70	2970.0 mt	980571.58	0.75	0.00	-44.69	-146.27
north : lakeside	796	48 5.73	-114 14.18	2915.0 mt	980576.84	0.52	0.00	-47.83	-147.76
north : lakeside	797	48 7.03	-114 15.28	2911.0 mt	980578.81	0.49	0.00	-48.19	-148.01
north : lakeside	798	48 1.18	-114 13.42	2910.0 mt	980572.93	0.93	0.00	-45.39	-144.73
north : lakeside	799								

BOUGUER GRAVITY DATA

wallace cusmap gravity stations
d. kleinkopf 1978
Meter ID: q-235

Date: 03/07/80

STATION IDENTIFICATION proj	sta-id	L O C A T I O N S		ELE (in ft)	G R A V I T Y OBSERVED	TERRAIN BOUGUER CURV	SPECIAL	A N O M A L I E S		SPEC FIELDS
		LATITUDE deg	LONGITUDE deg min					FREE AIR	COMPLETE-BOUGUER d1=2.67 d2=2.45	
north :	828	47 26.14	-114 40.59	3440.0 mt	980500.51	980839.27	0.00	-15.35	-130.91	-121.39
north :	829	47 28.24	-114 42.58	3560.0 mt	980497.86	980842.44	0.00	-9.88	-129.42	-119.57
north :	830	47 26.47	-114 42.80	4683.0 mt	980427.93	980839.77	0.00	28.40	-128.86	-115.90
north :	831	47 25.44	-114 42.27	4790.0 mt	980428.00	980838.23	0.00	40.08	-120.81	-107.56
north :	832	47 27.44	-114 43.23	4213.0 mt	980457.14	980841.23	0.00	11.98	-128.86	-117.25
north :	833	47 35.66	-114 41.28	3078.0 mt	980544.95	980853.59	0.00	-19.24	-122.22	-113.73
north :	834	47 34.69	-114 40.63	3681.0 mt	980507.84	980852.13	0.00	1.79	-121.89	-111.70
north :	835	47 33.72	-114 41.68	3728.0 mt	980501.10	980850.67	0.00	0.92	-124.76	-114.41
north :hotsprin		47 36.52	-114 40.19	2845.0 mt	980558.33	980854.88	0.00	-29.06	-124.50	-116.64
north :hotsprin		47 36.52	-114 40.19	2845.0 mt	980558.33	980854.88	0.00	-29.06	-124.50	-116.64
north :	836	47 36.11	-114 37.50	2766.0 mt	980559.25	980854.27	0.00	-34.95	-127.99	-120.33
north :	837	47 36.97	-114 37.50	2768.0 mt	980558.23	980855.55	0.00	-37.07	-130.98	-123.24
north :	838	47 36.53	-114 38.79	2792.0 mt	980558.46	980854.90	0.00	-33.93	-128.51	-120.72
north :hotsprin		47 36.52	-114 40.19	2845.0 mt	980558.33	980854.88	0.00	-29.06	-124.50	-116.64
north : plains		47 27.66	-114 52.73	2468.0 mt	980554.98	980841.56	0.00	-54.53	-136.26	-129.53
north :	839	47 31.28	-114 47.31	3593.0 mt	980500.63	980847.01	0.00	-8.57	-128.66	-118.76
north :	840	47 31.67	-114 45.71	3625.0 mt	980498.41	980847.59	0.00	-8.37	-128.93	-119.00
north :	841	47 34.38	-114 42.64	4425.0 mt	980459.02	980851.66	0.00	23.36	-125.68	-113.40
north :	842	47 34.75	-114 44.42	5333.0 mt	980401.57	980852.22	0.00	50.68	-126.96	-112.33
north :	843	47 35.28	-114 45.73	5639.0 mt	980383.17	980853.02	0.00	60.24	-127.34	-111.88
north :	844	47 35.61	-114 47.55	5207.0 mt	980408.18	980853.52	0.00	44.15	-129.91	-115.57
north :	845	47 36.75	-114 45.78	5441.0 mt	980398.13	980855.23	0.00	54.38	-127.84	-112.83
north :	846	47 38.69	-114 45.29	4895.0 mt	980434.04	980858.14	0.00	36.06	-129.08	-115.47
north :	847	47 37.08	-114 43.95	4263.0 mt	980460.06	980855.72	0.00	5.11	-137.96	-126.17
north :	848	47 36.58	-114 42.40	3235.0 mt	980533.46	980854.97	0.00	-17.36	-125.36	-116.46
north :	849	47 35.50	-114 42.37	3442.0 mt	980518.76	980853.34	0.00	-10.98	-124.69	-115.32
north :	850	47 38.96	-114 43.04	3434.0 mt	980522.91	980858.55	0.00	-12.78	-127.99	-118.49
north :	852	47 45.25	-114 43.29	2962.0 mt	980557.05	980868.00	0.00	-32.46	-117.72	-110.70
north : plains		47 27.66	-114 52.73	2468.0 mt	980554.98	980841.56	0.00	-54.53	-136.26	-129.53
north : plains		47 27.66	-114 52.73	2468.0 mt	980554.98	980841.56	0.00	-54.53	-136.26	-129.53
north :	853	47 29.05	-114 57.85	2617.0 mt	980542.14	980843.65	0.00	-55.43	-143.05	-135.83
north :	854	47 28.21	-115 0.10	2760.0 mt	980532.10	980842.39	0.00	-50.79	-141.45	-133.98
north :	855	47 27.56	-115 2.79	3133.0 mt	980504.22	980841.41	0.00	-42.63	-142.23	-134.03
north :	856	47 24.28	-115 3.95	3350.0 mt	980492.95	980839.48	0.00	-31.57	-129.15	-109.53
north :	857	47 28.50	-115 1.85	3640.0 mt	980478.41	980842.83	0.00	-22.19	-140.87	-131.09
north :	858	47 31.48	-115 6.45	2837.0 mt	980522.45	980847.30	0.00	-58.11	-143.05	-136.05
north :	859	47 29.55	-115 6.37	3600.0 mt	980483.09	980844.41	0.00	-22.85	-130.01	-121.18
north :	860	47 32.14	-115 12.92	5210.0 mt	980384.22	980848.30	0.00	25.69	-142.01	-128.19
north :	861	47 32.52	-115 11.21	6957.0 mt	980260.69	980848.87	0.00	65.73	-139.38	-122.48

BOUGUER GRAVITY DATA

wallace cusmap gravity stations

d. kleinkopf 1978

Meter ID: g-235 Date: 03/07/80

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	proj	sta-id	LATITUDE	LONGITUDE	ELE	ST	OBSERVED	THEORETICAL	TERRAIN	BOUGUER	CURV	SPECIAL	FREE	COMPLETE	BOUGUER	SPEC	
			deg	min	deg	min	(in ft)						AIR	d1=2.67	d2=2.45	FIELDS	
north :thompson		47	35.71	-115	21.04		2410.0	mt	980556.65	980853.66	3.39	-82.20	-0.88	0.00	-70.42	-150.11	-143.54
north : 862		47	48.28	-114	42.68		3581.0	mt	980522.72	980672.55	3.37	-122.14	-1.18	0.00	-13.16	-133.10	-123.22
north : 863		47	48.32	-114	45.69		4033.0	mt	980492.36	980872.61	4.00	-137.55	-1.27	0.00	-1.10	-135.92	-124.81
north : plains		47	27.66	-114	52.73		2468.0	mt	980554.98	980841.56	3.34	-84.18	-0.90	0.00	-54.53	-136.26	-129.53
north :hotsprin		47	36.52	-114	40.19		2845.0	mt	980558.33	980854.88	2.60	-97.04	-1.00	0.00	-29.06	-124.50	-116.64
north : 864		47	53.83	-114	34.48		3193.0	mt	980547.51	980880.88	3.34	-108.90	-1.09	0.00	-33.17	-139.83	-131.04
north : 865		47	54.56	-114	35.76		3401.0	mt	980533.80	980881.98	3.50	-116.00	-1.14	0.00	-28.43	-142.07	-132.71
north :hotsprin		47	36.52	-114	40.19		2845.0	mt	980558.33	980854.88	2.60	-97.04	-1.00	0.00	-29.06	-124.50	-116.64

STATION IDENTIFICATION proj sta-id	LATITUDE deg min	LONGITUDE deg min	ELE ST (in ft)	GRAVITY		CORRECT IONS		ANOMALIES	
				OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER d1=2.67 d2=2.45 FIELDS
87:	871	47 39.50	-114 51.04	4728.0 mt	980439.01	980859.36	0.00	24.12	-132.72 -119.80
87:	872	47 42.81	-114 48.90	4582.0 mt	980454.62	980864.35	0.00	21.03	-130.09 -117.64
87:	873	47 44.75	-114 46.66	4762.0 mt	980447.69	980867.24	0.00	28.11	-132.79 -119.53
87:	874	47 52.88	-114 40.30	3151.0 mt	980546.27	980879.45	0.00	-36.93	-142.88 -134.15
87:	875	47 54.22	-114 38.40	3822.0 mt	980508.79	980881.47	0.00	-13.36	-143.73 -132.99
87:	876	47 55.27	-114 40.99	3525.0 mt	980527.91	980883.05	0.00	-23.72	-144.39 -134.45
87:	877	47 55.31	-114 42.86	3581.0 mt	980527.46	980883.10	0.00	-18.97	-141.06 -131.00
87:	878	47 54.48	-114 46.88	4000.0 mt	980500.03	980881.86	0.00	-5.78	-139.34 -128.33
87:	879	47 54.61	-114 44.68	3905.0 mt	980508.31	980882.05	0.00	-6.62	-139.50 -128.55
87:	881	47 53.59	-114 43.02	3630.0 mt	980521.98	980880.52	0.00	-17.26	-138.85 -128.83
87:	882	47 56.24	-114 45.89	3916.0 mt	980510.61	980884.50	0.00	-5.74	-138.65 -127.70
87:	883	47 56.38	-114 47.71	3949.0 mt	980508.42	980884.71	0.00	-5.03	-137.58 -126.66
87:	884	47 58.29	-114 44.62	3789.0 mt	980523.41	980887.58	0.00	-7.95	-136.60 -126.00
87:	885	47 59.38	-114 44.70	4007.0 mt	980514.17	980889.21	0.00	1.60	-135.11 -123.84
87:	886	47 59.49	-114 46.18	4245.0 mt	980498.58	980889.38	0.00	8.28	-136.20 -124.30
87:	876	47 55.27	-114 40.99	3525.0 mt	980527.77	980883.05	0.00	-23.87	-144.53 -134.59
87:	887	47 57.31	-114 42.20	4187.0 mt	980496.33	980886.11	0.00	3.85	-138.76 -127.01
87:	888	47 58.61	-114 42.39	4065.0 mt	980508.99	980888.06	0.00	3.09	-135.74 -124.30
87:	889	47 59.71	-114 42.41	4214.0 mt	980501.49	980889.71	0.00	7.95	-135.66 -123.83
87:	890	47 59.39	-114 39.57	4275.0 mt	980496.84	980889.23	0.00	9.51	-136.93 -124.86
87:	891	47 58.55	-114 37.67	4590.0 mt	980476.59	980887.97	0.00	20.12	-136.75 -123.83
87:	892	47 56.53	-114 37.72	3795.0 mt	980518.38	980884.94	0.00	-9.77	-139.37 -128.69
87:	893	47 56.09	-114 35.21	4235.0 mt	980487.92	980884.27	0.00	1.78	-143.08 -131.15
87:	894	47 59.52	-114 34.70	4425.0 mt	980484.97	980889.42	0.00	11.54	-138.72 -126.34
87:	895	48 0.65	-114 30.68	3906.0 mt	980519.67	980891.12	0.00	-4.23	-137.85 -126.84
87:	896	47 54.01	-114 40.37	3145.0 mt	980549.14	980881.16	0.00	-36.32	-142.12 -133.40
87:	875	47 54.22	-114 38.40	3822.0 mt	980510.85	980881.47	0.00	-11.29	-141.67 -130.93
87:	897	47 52.53	-114 38.15	3522.0 mt	980527.91	980878.93	0.00	-19.89	-140.42 -130.49
87:	898	47 56.01	-114 40.53	3524.0 mt	980532.99	980884.16	0.00	-19.85	-140.30 -130.37
87:	899	47 57.83	-114 40.53	3990.0 mt	980509.75	980886.89	0.00	-2.03	-138.48 -127.24
87:	900	47 56.61	-114 43.48	3548.0 mt	980532.18	980885.05	0.00	-19.31	-139.74 -129.82
87:	901	47 56.86	-114 35.75	4010.0 mt	980503.67	980885.43	0.00	-4.77	-141.74 -130.46
87:	902	47 35.57	-115 1.46	3825.0 mt	980475.40	980853.45	0.00	-18.45	-140.30 -130.26
87:	903	47 43.10	-115 6.00	3184.0 mt	980523.48	980864.77	0.00	-41.93	-144.92 -136.44
87:	904	47 44.08	-115 7.57	4330.0 mt	980466.54	980866.24	0.00	7.36	-137.90 -125.93
87:	905	47 38.73	-115 13.46	5420.0 mt	980380.01	980858.20	0.00	31.31	-145.87 -131.27
87:	906	47 42.20	-115 15.78	4800.0 mt	980424.00	980863.41	0.00	11.82	-141.07 -128.47
87:	907	47 44.24	-115 17.23	5340.0 mt	980399.40	980866.48	0.00	34.90	-142.24 -127.64
87:	908	47 42.96	-115 28.90	2567.0 mt	980567.98	980864.55	0.00	-55.22	-141.28 -134.19

bankey & brickey 1979

2e-134 chron

Meter ID: 79176

Date: 11/26/79

BOUGUER GRAVITY DATA

STATION IDENTIFICATION		LATITUDE		LONGITUDE		TIME		ELEVATION		GRAVITY		CORRECTIONS		ANOMALIES	
proj	sta-id	deg	min	deg	min	sec	min	ft	mt	observed	theoretical	terrain	Bouguer	Bouguer	Bouguer
87:	909	47	42.15	-115	32.68			2587.0	mt	980560.14	980863.34	6.65	-88.24	-0.93	0.00
87:	910	47	42.07	-115	35.14			2690.0	mt	980555.27	980863.22	10.59	-91.75	-0.96	0.00
87:	911	47	41.56	-115	37.90			2920.0	mt	980545.63	980862.45	10.04	-99.59	-1.02	0.00
87:	912	47	40.69	-115	39.35			3120.0	mt	980536.52	980861.15	7.52	-106.41	-1.07	0.00
87:	913	47	40.15	-115	41.46			3540.0	mt	980511.03	980860.34	10.44	-120.74	-1.17	0.00
87:	914	47	42.00	-115	28.25			2606.0	mt	980560.64	980863.12	2.39	-88.88	-0.94	0.00
87:	915	47	40.68	-115	28.23			2584.0	mt	980558.37	980861.13	3.14	-88.13	-0.93	0.00
87:	916	47	40.36	-115	26.37			2579.0	mt	980558.07	980860.65	2.61	-87.96	-0.93	0.00
87:	917	47	41.22	-115	26.37			2593.0	mt	980561.01	980861.95	2.33	-88.44	-0.94	0.00
87:	918	47	38.24	-115	27.58			2818.0	mt	980535.14	980857.46	9.27	-96.11	-1.00	0.00
87:	919	47	35.32	-115	24.19			2720.0	mt	980539.05	980853.08	5.05	-92.77	-0.97	0.00
87:	920	47	36.48	-115	28.20			2913.0	mt	980529.07	980854.82	9.86	-99.35	-1.02	0.00
87:	921	47	36.65	-115	30.38			3120.0	mt	980522.66	980855.08	10.15	-106.41	-1.07	0.00
87:	922	47	36.83	-115	32.32			3380.0	mt	980509.07	980855.34	8.65	-115.28	-1.13	0.00
87:	923	47	36.22	-115	25.80			2770.0	mt	980523.58	980854.43	7.99	-94.48	-0.98	0.00
87:	924	47	33.01	-115	30.23			2852.0	mt	980536.00	980849.60	6.75	-97.27	-1.01	0.00
87:	925	47	32.50	-115	34.40			3062.0	mt	980524.72	980848.84	9.10	-104.44	-1.06	0.00
87:	926	47	33.56	-115	35.60			3440.0	mt	980505.62	980850.43	10.50	-117.33	-1.15	0.00
87:	927	47	35.24	-115	34.53			6407.0	mt	980317.22	980852.95	22.46	-218.52	-1.51	0.00
87:	928	47	34.63	-115	39.10			3664.0	mt	980493.10	980852.04	10.39	-124.97	-1.19	0.00
87:	929	47	33.32	-115	37.50			3322.0	mt	980513.72	980850.07	7.59	-113.30	-1.12	0.00
87:	930	47	32.53	-115	25.04			2910.0	mt	980521.68	980848.88	8.72	-99.25	-1.02	0.00
87:	931	47	31.22	-115	24.40			5450.0	mt	980364.66	980846.91	19.55	-185.88	-1.46	0.00
87:	932	47	32.53	-115	18.69			5045.0	mt	980385.29	980848.88	16.03	-172.07	-1.42	0.00
87:	933	47	27.69	-115	11.86			5335.0	mt	980372.68	980841.61	8.95	-181.96	-1.45	0.00
87:	934	47	28.80	-115	17.80			5178.0	mt	980384.36	980843.27	3.39	-176.61	-1.43	0.00
87:	935	47	28.10	-115	19.70			5960.0	mt	980337.57	980842.23	6.98	-203.28	-1.49	0.00
87:	936	47	33.42	-115	22.50			2870.0	mt	980522.24	980850.22	9.51	-97.89	-1.01	0.00
87:	937	47	45.14	-115	30.15			2538.0	mt	980573.43	980867.83	2.28	-86.56	-0.92	0.00
87:	938	47	45.05	-115	33.28			2543.0	mt	980572.54	980867.70	6.87	-86.73	-0.92	0.00
87:	939	47	45.35	-115	34.80			2625.0	mt	980567.60	980868.15	9.40	-89.53	-0.95	0.00
87:	940	47	45.64	-115	36.81			2814.0	mt	980557.96	980868.59	7.98	-95.98	-1.00	0.00
87:	941	47	44.03	-115	41.24			3464.0	mt	980519.48	980866.16	9.92	-118.15	-1.15	0.00
87:	942	47	48.19	-115	35.32			2657.0	mt	980575.68	980872.41	2.54	-90.62	-0.95	0.00
87:	943	47	49.07	-115	37.21			2573.0	mt	980584.08	980873.73	2.54	-87.76	-0.93	0.00
87:	944	47	49.74	-115	38.66			2629.0	mt	980581.07	980874.74	3.86	-89.67	-0.95	0.00
87:	945	47	48.21	-115	42.89			2750.0	mt	980573.63	980872.45	8.37	-93.79	-0.98	0.00
87:	946	47	50.69	-115	37.26			2447.0	mt	980594.02	980876.16	2.24	-83.46	-0.90	0.00
87:	947	47	51.71	-115	40.43			2343.0	mt	980603.33	980877.70	2.74	-79.91	-0.87	0.00
87:	948	47	50.86	-115	42.56			2506.0	mt	980590.75	980876.42	6.19	-85.47	-0.91	0.00

COMPLETE-BOUGUER
d1=2.67 d2=2.45
FIELDS

STATION IDENTIFICATION		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			
proj	sta-id	LATITUDE deg min	LONGITUDE deg min	ELE (in ft)	ST	OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER SPEC
87:	949	47 50.62	-115 43.87	2725.0	mt	980577.98	980876.06	7.00 -92.94 -0.97	0.00	-41.87	-128.78 -121.62
87:	950	47 49.24	-115 44.46	4161.0	mt	980495.39	980873.99	2.98 -141.92 -1.29	0.00	13.58	-126.65 -115.09
87:	951	47 21.74	-115 11.41	3856.0	mt	980451.91	980832.66	4.60 -131.52 -1.23	0.00	-18.22	-146.37 -135.81
87:	952	47 21.43	-115 17.28	2969.0	mt	980499.88	980832.20	5.94 -101.26 -1.04	0.00	-53.16	-149.52 -141.58
87:	953	47 23.05	-115 23.95	3130.0	mt	980495.15	980834.63	3.00 -106.75 -1.08	0.00	-45.20	-150.03 -141.39
87:	954	47 24.69	-115 30.73	3376.0	mt	980483.81	980837.09	7.31 -115.15 -1.13	0.00	-35.88	-144.85 -135.87
87:	955	47 25.16	-115 36.10	3636.0	mt	980473.91	980837.80	6.76 -124.01 -1.19	0.00	-22.05	-140.49 -130.73
87:	956	47 27.33	-115 41.75	4725.0	mt	980420.26	980841.06	3.83 -161.16 -1.38	0.00	23.38	-135.32 -122.24
87:	957	47 26.04	-115 50.82	5684.0	mt	980360.09	980839.13	11.84 -193.86 -1.48	0.00	55.28	-128.22 -113.10
87:	958	47 27.17	-115 55.00	5229.0	mt	980377.57	980840.83	16.65 -178.35 -1.44	0.00	28.30	-134.83 -121.39
87:	959	47 28.21	-115 48.04	3276.0	mt	980506.64	980842.39	7.93 -111.73 -1.11	0.00	-27.75	-132.66 -124.01
87:	960	47 29.13	-115 47.93	3730.0	mt	980481.25	980843.77	9.51 -127.22 -1.21	0.00	-11.85	-130.76 -120.96
87:	961	47 29.30	-115 45.89	3820.0	mt	980462.63	980844.03	10.81 -130.29 -1.23	0.00	-22.26	-142.96 -133.02
87:	962	47 28.01	-115 50.56	3034.0	mt	980521.80	980842.09	9.86 -103.48 -1.05	0.00	-35.04	-129.71 -121.91
87:	963	47 29.58	-115 57.62	2617.0	mt	980557.62	980844.45	6.54 -89.26 -0.94	0.00	-40.77	-124.44 -117.54
87:	964	47 28.09	-115 43.78	3615.0	id	980485.54	980842.21	6.21 -123.30 -1.18	0.00	-16.80	-135.07 -125.33
87:	965	47 27.72	-115 39.28	5080.0	id	980400.86	980841.65	6.09 -173.26 -1.42	0.00	36.76	-131.83 -117.94
87:	966	47 27.82	-115 36.80	4234.0	id	980407.92	980841.80	2.66 -168.28 -1.40	0.00	29.95	-137.08 -123.31
87:	967	47 27.15	-115 35.00	4109.0	id	980449.01	980840.30	6.31 -140.15 -1.28	0.00	-5.49	-140.60 -129.47
87:	968	47 28.27	-115 34.13	6045.0	id	980330.45	980842.48	12.63 -206.18 -1.50	0.00	56.20	-138.84 -122.77
87:	969	47 23.85	-115 38.04	4147.0	id	980443.30	980835.84	4.99 -141.44 -1.29	0.00	-2.66	-140.40 -129.05
87:	970	47 22.77	-115 37.78	5220.0	id	980376.98	980834.21	3.55 -178.04 -1.44	0.00	33.49	-142.44 -127.94
87:	971	47 22.54	-115 35.96	5509.0	id	980361.01	980833.86	4.68 -187.90 -1.46	0.00	45.01	-139.67 -124.45
87:	972	47 22.40	-115 33.07	5080.0	id	980384.51	980833.65	5.15 -173.26 -1.42	0.00	28.41	-141.13 -127.16
87:	973	47 23.54	-115 31.80	3845.0	id	980461.38	980835.37	4.87 -131.14 -1.23	0.00	-12.50	-140.00 -129.49
87:	974	47 22.80	-115 40.00	4147.0	id	980442.48	980834.25	6.26 -141.44 -1.29	0.00	-1.90	-138.37 -127.12
87:	975	47 21.19	-115 40.40	3220.0	id	980494.60	980831.84	7.05 -109.83 -1.10	0.00	-34.49	-138.36 -129.80
87:	976	47 20.33	-115 36.37	3744.0	id	980459.57	980830.54	7.29 -127.70 -1.21	0.00	-18.97	-140.59 -130.57
87:	977	47 13.26	-115 14.12	5070.0	id	980365.40	980819.91	4.36 -172.92 -1.42	0.00	22.11	-147.87 -133.86
87:	978	47 12.61	-115 15.97	5004.0	id	980366.74	980818.93	4.30 -170.67 -1.41	0.00	18.23	-149.55 -135.73
87:	supoint	0	0 0.00	0.0	mt	980496.15	978031.84	0.00 0.00 0.00	0.00	2464.31	2464.31 2464.31
87:	r980	47 11.23	-115 18.00	6216.0	mt	980286.84	980816.85	9.85 -212.01 -1.51	0.00	54.30	-149.37 -132.59
87:	r979	47 10.87	-115 16.00	6258.0	mt	980286.45	980816.30	7.73 -213.44 -1.51	0.00	58.39	-148.83 -131.75
87:	981	47 8.23	-115 24.00	3397.0	mt	980446.04	980812.34	7.62 -115.86 -1.14	0.00	-46.91	-156.29 -147.28
87:	982	47 4.30	-115 23.00	3909.0	mt	980412.23	980806.42	7.68 -133.32 -1.24	0.00	-26.68	-153.57 -143.11
87:	983	47 3.80	-115 26.21	3966.0	mt	980408.47	980805.67	7.47 -135.27 -1.25	0.00	-24.34	-153.59 -142.76
87:	984	47 3.68	-115 28.94	5427.0	mt	980328.78	980805.48	5.80 -185.10 -1.46	0.00	33.46	-147.30 -132.40
87:	985	47 2.14	-115 28.71	5730.0	mt	980309.36	980803.17	6.37 -195.43 -1.48	0.00	44.83	-145.72 -130.02
87:	986	47 0.78	-115 26.88	6481.0	mt	980251.51	980801.13	14.66 -221.05 -1.51	0.00	59.59	-146.32 -131.19
87:	987	47 2.20	-115 20.86	3750.0	mt	980418.24	980803.26	7.67 -127.90 -1.21	0.00	-32.46	-153.90 -143.89

bankey & brickey 1979

2e-134 chron

Meter ID: 79176 Date: 11/26/79

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	LATITUDE	LONGITUDE	ELE	ST	OBSERVED	THEORETICAL	TERRAIN	BOUGUER	CURV	SPECIAL	FREE	COMPLETE	BOUGUER	SPEC		
proj	sta-id	deg	min	deg	min	(in ft)						d1=2.67	d2=2.45	FIELDS		
87:	988	47	3.62	-115	19.71	3852.0	mt	980411.05	980805.40	8.16	-131.38	-1.23	0.00	-32.20	-156.66	-146.40
87:	989	47	2.92	-115	16.91	6175.0	mt	980273.66	980804.34	18.57	-210.61	-1.50	0.00	49.77	-143.78	-127.83
87:	990	47	2.87	-115	16.00	5986.0	mt	980285.58	980804.27	8.42	-204.16	-1.50	0.00	44.00	-153.24	-136.99
87:	991	47	5.12	-115	16.71	6560.0	mt	980252.62	980807.66	13.59	-223.74	-1.52	0.00	61.58	-150.08	-132.64
87:	992	47	5.79	-115	22.76	3637.0	mt	980428.45	980808.66	5.81	-124.05	-1.19	0.00	-38.27	-157.70	-147.66
87:	993	47	14.81	-115	13.12	3697.0	mt	980444.46	980822.23	9.94	-126.09	-1.20	0.00	-30.20	-147.55	-137.88

Date: 11/26/79

STATION IDENTIFICATION		L U C A T I O N S LATITUDE LONGITUDE deg min deg min		E L E ELE (in ft)		G R A V I T Y OBSERVED THEORETICAL		C O R R E C T I O N S TERRAIN BOUGUER CURV		S P E C I A L		A N O M A L I E S FREE COMPLETE-BOUGUER SPEC AIR dl=2.67 d2=2.45 FIELDS	
North :	W2	47 28.22	-115 48.03	3277.0	mt	980506.10	980842.41	7.93	-111.77	-1.11	0.00	-28.20	-133.15 -124.50
North :	W3	47 27.82	-115 48.50	3195.0	mt	980509.72	980841.80	10.69	-108.97	-1.09	0.00	-31.69	-131.06 -122.88
North :	W4	47 28.03	-115 50.55	3034.0	mt	980520.80	980842.12	9.57	-103.48	-1.05	0.00	-36.06	-131.03 -123.20
North :	W5	47 28.33	-115 51.74	2947.0	mt	980528.38	980842.57	9.63	-100.51	-1.03	0.00	-37.11	-129.02 -121.45
North :	W6	47 28.34	-115 52.90	2925.0	mt	980530.30	980842.59	9.66	-99.76	-1.02	0.00	-37.28	-128.40 -120.90
North :	W7	47 28.28	-115 55.25	2742.0	mt	980543.97	980842.49	8.17	-93.52	-0.98	0.00	-40.72	-127.05 -119.93
North :	W8	47 28.78	-115 56.07	2701.0	mt	980547.90	980843.24	7.82	-92.12	-0.97	0.00	-41.39	-126.66 -119.64
North :	W9	47 29.48	-115 57.70	2617.0	mt	980556.92	980844.30	7.22	-89.26	-0.94	0.00	-41.32	-124.30 -117.46
North :	W10	47 30.21	-115 59.75	2529.0	mt	980566.06	980845.40	6.39	-86.26	-0.92	0.00	-41.55	-122.33 -115.68
North :	W11	47 30.90	-116 1.88	2439.0	mt	980573.92	980846.43	6.30	-83.19	-0.89	0.00	-43.19	-120.97 -114.56
North :	W12	47 31.63	-116 2.98	2405.0	mt	980579.17	980847.53	4.56	-82.03	-0.88	0.00	-42.23	-120.58 -114.13
North :	W13	47 31.86	-116 4.59	2363.0	mt	980582.45	980847.88	4.42	-80.59	-0.87	0.00	-43.24	-120.29 -113.94
North :	W14	47 31.98	-116 5.78	2341.0	mt	980584.22	980848.05	5.30	-79.85	-0.86	0.00	-43.72	-119.13 -112.92
North :	W15	47 26.40	-115 54.94	3295.0	mt	980504.52	980839.66	9.86	-112.38	-1.11	0.00	-25.35	-128.99 -120.45
North :	W16	47 26.02	-115 54.40	3352.0	mt	980501.19	980839.09	10.50	-114.33	-1.13	0.00	-22.76	-127.71 -119.07
North :	W17	47 25.66	-115 52.73	3996.0	mt	980463.97	980838.55	4.94	-136.29	-1.26	0.00	1.09	-131.52 -120.59
North :	W18	47 25.05	-115 51.61	4946.0	mt	980409.20	980837.64	4.05	-168.69	-1.40	0.00	36.53	-129.52 -115.84
North :	W19	47 24.92	-115 53.51	4767.0	mt	980422.64	980837.45	3.28	-162.59	-1.38	0.00	33.34	-127.35 -114.11
North :	W20	47 24.19	-115 53.11	4188.0	mt	980452.13	980836.34	5.35	-142.84	-1.29	0.00	9.51	-129.27 -117.84
North :	W21	47 23.54	-115 53.11	3492.0	mt	980487.76	980835.37	10.56	-119.10	-1.16	0.00	-19.30	-129.00 -119.96
North :	W22	47 22.81	-115 53.41	3219.0	mt	980504.18	980834.27	10.64	-109.79	-1.10	0.00	-27.44	-127.69 -119.43
North :	W23	47 32.71	-116 9.95	2244.0	mt	980592.90	980849.16	4.44	-76.54	-0.84	0.00	-45.26	-118.20 -112.19
North :	W24	47 32.21	-116 7.76	2313.0	mt	980587.43	980848.40	4.30	-78.89	-0.86	0.00	-43.49	-118.94 -112.72
North :	W25	47 32.49	-116 11.16	2219.0	mt	980595.23	980848.82	4.37	-75.68	-0.83	0.00	-44.95	-117.09 -111.14
North :	W26	47 32.47	-116 12.12	2214.0	mt	980596.68	980848.79	3.28	-75.51	-0.83	0.00	-43.94	-117.00 -110.98
North :	W27	47 32.90	-116 13.48	2194.0	mt	980599.27	980849.44	2.16	-74.83	-0.82	0.00	-43.87	-117.37 -111.31
North :	W28	47 31.89	-116 14.35	2224.0	mt	980596.80	980847.92	2.78	-75.85	-0.83	0.00	-42.01	-115.92 -109.83
North :	W29	47 31.16	-116 14.44	2294.0	mt	980592.32	980846.82	5.19	-78.24	-0.85	0.00	-38.81	-112.71 -106.62
North :	W30	47 30.28	-116 14.47	2327.0	mt	980588.89	980845.50	5.11	-79.37	-0.86	0.00	-37.81	-112.93 -106.74
North :	W31	47 29.48	-116 14.32	2377.0	mt	980585.34	980844.30	4.57	-81.07	-0.88	0.00	-35.46	-112.84 -106.46
North :	W32	47 27.98	-116 15.59	2519.0	mt	980575.33	980842.04	3.87	-85.92	-0.92	0.00	-29.87	-112.83 -105.99
North :	W33	47 27.19	-116 16.01	2604.0	mt	980566.68	980840.85	3.08	-88.82	-0.94	0.00	-29.34	-116.01 -108.87
North :	W34	47 26.34	-116 15.95	2702.0	mt	980555.48	980839.58	3.39	-92.16	-0.97	0.00	-30.04	-119.78 -112.38
North :	W35	47 28.92	-115 54.29	2865.0	mt	980538.50	980843.45	5.41	-97.72	-1.01	0.00	-35.59	-128.90 -121.21
North :	W36	47 29.59	-115 53.22	3010.0	mt	980529.30	980844.46	6.71	-102.66	-1.05	0.00	-32.16	-129.16 -121.17
North :	W37	47 30.34	-115 52.60	3156.0	mt	980520.46	980845.59	8.18	-107.64	-1.08	0.00	-28.41	-128.95 -120.66
North :	W38	47 30.86	-115 51.12	3356.0	mt	980505.28	980846.38	12.06	-114.46	-1.13	0.00	-25.57	-129.10 -120.57
North :	W39	47 31.17	-115 49.79	3611.0	mt	980488.64	980846.84	15.34	-123.16	-1.18	0.00	-18.71	-127.71 -118.73
North :	W40	47 31.34	-115 48.78	3768.0	mt	980480.56	980847.09	12.67	-128.52	-1.22	0.00	-12.28	-129.34 -119.70

STATION IDENTIFICATION		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				
proj	sta-id	LATITUDE deg min	LONGITUDE deg min	ELE (in ft)	ST	OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER	SPEC FIELDS
North :	W41	47 31.62	-115 47.67	3983.0	mt	980471.25	980847.52	11.14	-135.85	-1.26	0.00	0.00
North :	W42	47 31.71	-115 45.95	4541.0	mt	980437.49	980847.65	7.06	-154.88	-1.35	0.00	0.00
North :	W43	47 31.80	-115 44.62	4965.0	mt	980414.56	980847.79	8.53	-169.34	-1.41	0.00	0.00
North :	W44	47 31.73	-115 43.49	5384.0	mt	980393.04	980847.68	4.50	-183.63	-1.45	0.00	0.00
North :	W45	47 31.52	-115 42.23	5802.0	mt	980367.68	980847.37	4.62	-197.89	-1.48	0.00	0.00
North :	W46	47 31.05	-115 40.67	4629.0	mt	980431.64	980846.66	5.98	-157.88	-1.36	0.00	0.00
North :	W47	47 30.76	-115 38.74	3626.0	mt	980484.45	980846.22	9.47	-123.67	-1.19	0.00	0.00
North :	a	47 12.00	-115 50.66	2880.0	id	980494.50	980818.01	10.04	-98.23	-1.01	0.00	0.00
North :	b	47 10.62	-115 50.88	3080.0	id	980486.47	980815.93	11.17	-105.05	-1.06	0.00	0.00
North :	c	47 10.12	-115 51.05	3190.0	id	980483.18	980815.18	10.03	-108.80	-1.09	0.00	0.00
North :	d	47 9.76	-115 51.34	3300.0	id	980478.64	980814.64	11.12	-112.55	-1.12	0.00	0.00
North :	e	47 10.54	-115 51.62	3300.0	id	980477.70	980815.81	7.48	-112.55	-1.12	0.00	0.00
North :	f	47 10.23	-115 52.00	3350.0	id	980474.33	980815.34	7.30	-114.26	-1.13	0.00	0.00
North :	g	47 9.87	-115 52.91	3480.0	id	980465.09	980814.80	5.63	-116.69	-1.16	0.00	0.00
North :	h	47 10.09	-115 53.53	3630.0	id	980458.23	980815.13	4.27	-123.81	-1.19	0.00	0.00
North :	i	47 11.46	-115 50.65	2950.0	id	980487.60	980817.20	13.07	-100.62	-1.03	0.00	0.00
North :	k	47 13.70	-116 1.20	2410.0	id	980540.41	980820.56	11.18	-82.20	-0.88	0.00	0.00
North :	l	47 13.24	-116 0.97	2460.0	id	980533.50	980819.82	12.45	-83.90	-0.90	0.00	0.00
North :	m	47 13.09	-116 1.42	2560.0	id	980530.62	980819.65	11.97	-87.31	-0.93	0.00	0.00
North :	n	47 13.15	-116 2.22	2600.0	id	980528.54	980819.74	11.74	-88.68	-0.94	0.00	0.00
North :	p	47 12.47	-116 2.47	2680.0	id	980527.35	980818.72	10.64	-91.41	-0.96	0.00	0.00
North :	q	47 12.37	-116 3.31	2735.0	id	980523.83	980818.56	10.38	-93.28	-0.97	0.00	0.00
North :	j	47 14.22	-116 1.32	2580.0	id	980532.42	980821.35	6.19	-88.00	-0.93	0.00	0.00