

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Gravity survey data and a complete Bouguer gravity anomaly map
of southwestern Wyoming, northeastern Utah, and
northwestern Colorado

by

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Open-File Report 89-175-A

1989

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.

†Note for the Monthly List: OFR 89-175

Gravity survey data release.

Requirements: IBM PC or compatible, reading low-density (360K) 5 1/4" disks. OF89-175A, Data reduction procedures, description of values and formats on diskette, base station descriptions, paper copy of gravity data, and 1:500,000-scale contour map. OF89-175B, Diskette containing principal facts for gravity data.

[EOB]

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Diskette

- File 1.--Data collected by USGS (wyousgs.asc)
2.--Data collected from other sources (wyodod.asc)

Introduction

This report presents part of the work undertaken by the U.S. Geological Survey to study the subsurface structure of southwestern Wyoming. During the summer field seasons of 1982-84 and 1988, 616 new gravity stations were established in Carbon, Fremont, Lincoln, Sublette, Sweetwater, and Uinta Counties, Wyoming; Moffat and Rio Blanco Counties, Colorado; and Daggett, Duchesne, Summit, and Uinta Counties, Utah. This report presents the principal facts for these data (Appendices A and B) and includes a complete Bouguer gravity anomaly map (plate 1) that was made using these 616 USGS stations and 3,804 additional stations extracted from the Defense Mapping Agency (DMA) gravity data file. This report supercedes USGS Open-File 85-536 and lists new terrain correction values and complete-Bouguer gravity values for all stations in that report. Errors in OF 85-536 resulted from undetected errors in the digital elevation data base near the Uinta Mountains that caused erroneous Bouguer anomaly values. The terrain correction errors for these USGS stations were slight (less than 0.35 milliGals), but were significant for some of the DMA stations used to compile the map, especially in the area of the Uinta Mountains. A more accurate terrain data base was used to calculate complete Bouguer anomaly values for this report.

A color map with interpretations of structural features and a modeled gravity profile were produced from these data and are published in a USGS Geophysical Investigations Map (Bankey and Merewether, 1989).

Data Collection

The USGS gravity observations were made using LaCoste-Romberg gravity meter G-550 and Worden meter W-177. The gravity stations were referenced to the U.S. Department of Defense (DOD) base stations at Rock Springs, Opal, and

Cokeville (Defense Mapping Agency, 1974), which are part of the International Gravity Standardization Net, 1971, (International Association of Geodesy, 1974). The Rock Springs base, located in an unused storage room in an often-locked fire station, is so difficult to occupy that we established the Nomad base station set at the Nomad Motel in Rock Springs, Wyo. (fig. 6). Additional bases were set by the USGS and tied to these primary bases, and their descriptions are found in figures 2, 4, and 5. Linear meter-drift was calculated by making repeat observations at the primary or secondary bases. Access to gravity stations was by ground traverses into the roadless areas and by vehicle along highways and secondary roads.

Elevation Control

The survey area is bound by lat. 40°30'-42°30' N and long. 107°00'-111°00' W. Additional stations (labelled "bc") were collected in the area between lat 40°00'-40°30' N and long. 108°45'-109°10' W. These "bc" stations are included in Appendices A and B but are not included in the Bouguer gravity anomaly map. The station elevations were obtained from benchmarks, spot elevations, and section corners on 1:24,000-scale and 1:62,500-scale USGS topographic maps. The uncertainty of elevations based on benchmarks is assumed to be 0.5 ft (0.15 m). For spot elevations and section corners with elevations in black, on 1:24,000-scale maps with a 40-ft contour interval, the uncertainty is assumed to be one-third the contour interval, or thirteen ft. Assuming a density of 2.67 g/cm³, this elevation uncertainty translates to a maximum uncertainty in the Bouguer anomaly value of 0.8 mGals. However, errors in the estimation of terrain corrections give rise to the greatest uncertainty in Bouguer anomaly values. Computer-generated terrain corrections in mountainous areas such as southwestern Wyoming are generally accurate to within 1 mGal, but could exceed this in areas of extreme relief.

Data Reduction

Computer programs existing on the USGS Digital Equipment Corporation VAX 11-750 computer system were used to obtain principal facts and terrain-corrected gravity values. A program written by M. W. Webring, D. A. Dansereau, and R. R. Wahl (USGS, unpub. program, 1983) was used to reduce gravity meter-readings to observed gravity values by calculating and correcting for earth tide and linear meter-drift. The theoretical gravity value was calculated using the 1967 formula of the Geodetic Reference System (International Association of Geodesy, 1971). Mathematical equations are given in Cordell and others (1982).

Terrain corrections were computed using a program by R. H. Godson (USGS, unpub. program, 1978), correcting for the gravity effects of terrain from each station to a radial distance of 166.7 km (103.4 mi) using a modification of the method of Plouff (1977). Godson's program also calculates earth-curvature corrections and complete (terrain-corrected) Bouguer gravity anomaly values. These computed terrain corrections use mean-elevation data digitized on a 15-second grid for corrections from 0 to 5 km (3.1 mi), 1-minute terrain data for corrections from 5 to 21 km (13.0 mi), and 3-minute terrain data for corrections from 21 to 166.7 km (103.4 mi). A density of 2.67 g/cm³ was used to calculate terrain corrections, giving the corrections and gravity anomaly values listed in Appendix A.

A grid based on the Bouguer anomaly values was formed with a 2.0 km (1.2 mi) spacing using the program "MINC" (Webring, 1981). "MINC" forms a surface of minimum curvature (Briggs, 1974) through existing data points. A computer plotted contour map of the gridded data (plate 1) was produced using program "CONTOUR" (Godson and Webring, 1982), which uses a linear-interpolation technique for positioning contours, with optional contour smoothing using splines under tension.

References

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- Webring, M.W., 1981, MINC: A gridding program based on minimum curvature: U.S. Geological Survey Open-File Report 81-1224, 41 p.

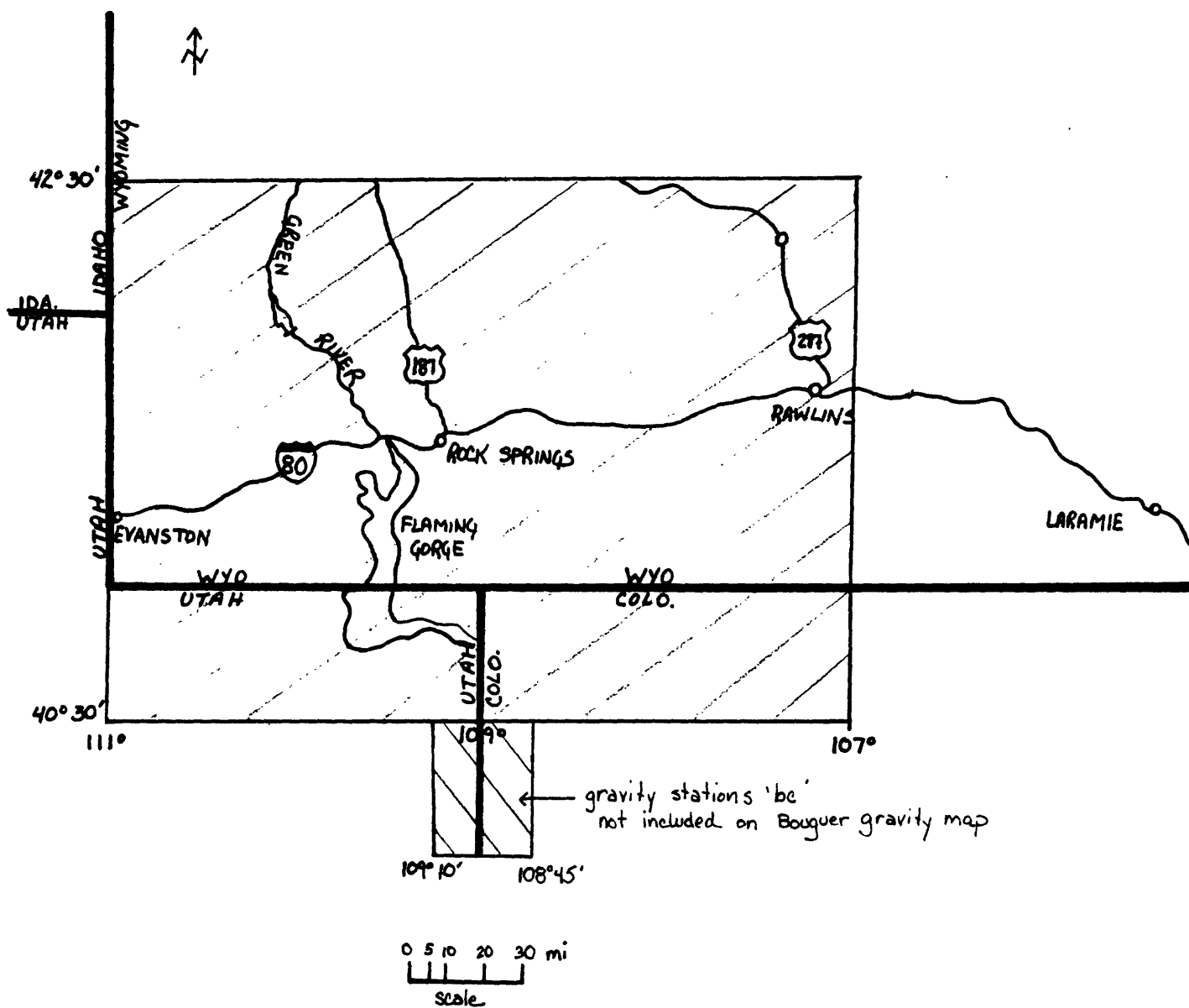


Figure 1--Map showing the location of the gravity study area

GRAVITY BASE STATION
U.S. GEOLOGICAL SURVEY

STATE/COUNTRY Wyoming		STATION DESIGNATION Big Gulch Base		OBSERVED GRAVITY 979739.20 mgal
NEAREST TOWN Atlantic City		LONGITUDE 108° 42.83'		LATITUDE 42° 31.15'
ELEVATION 8020 ft (2444.5 m)		TOPOGRAPHIC MAP(S) Miner's Delight 7 1/2'; Lander 2°		
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
7/84	Kulik	W177	Atlantic City DOD	979717.20 mgals
	(tied 3 times)			

DESCRIPTION/SKETCH

Big Gulch Base is located at the base of the sign at Big Gulch Campground, immediately west of a pile of rocks supporting the west post of the sign.

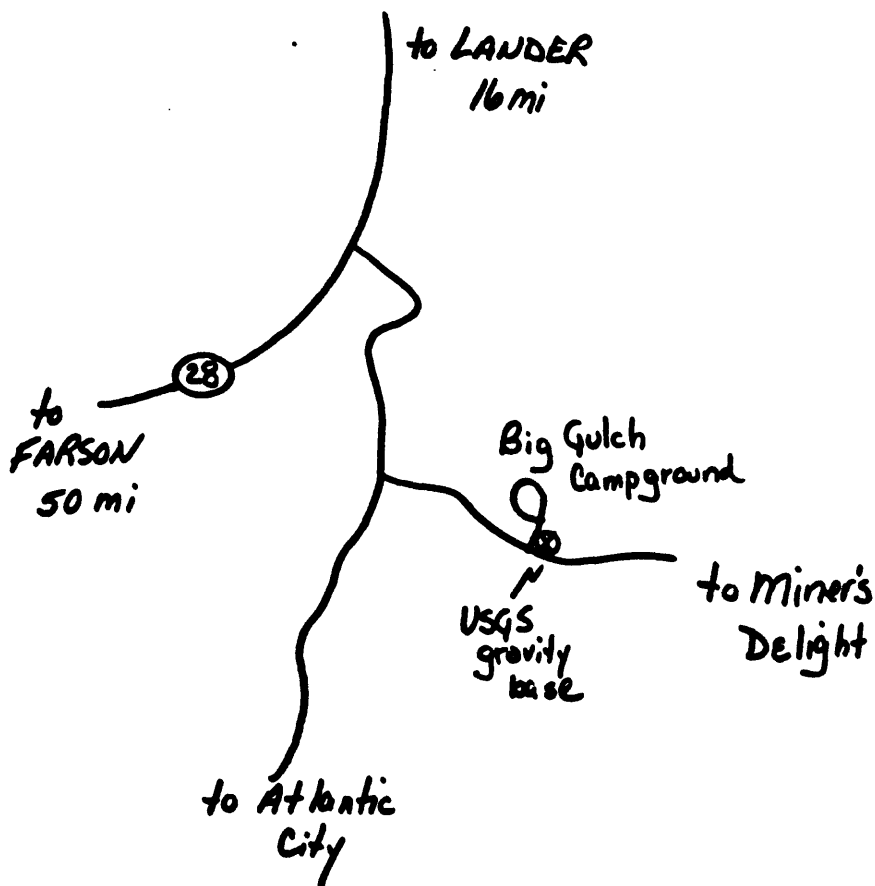


Figure 2. Big Gulch Base Station Description

GRAVITY BASE STATION			
LATITUDE		STATION DESIGNATION	
42° 05.00'N (1)		COKEVILLE	
LONGITUDE			
110° 57.00'W (1)			
ELEVATION		COUNTRY/STATE	
6187' 1886 METERS (1)		USA/Wyoming	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 1652-1		g = 979757.52 mgals	
IGB 15620C			
		ESTIMATED ACCURACY	DATE
		+ 0.1 mgals	1988 update

DESCRIPTION AND/OR SKETCH

The station is at the south end of Cokeville, at the Valley Hi Motel, at the south end of the motel office; at the southeast corner of the building, against the south wall, on the concrete. The station is monumented with a brass disk inscribed "USAF GRAVITY STATION". Described Oct 1966. (1)

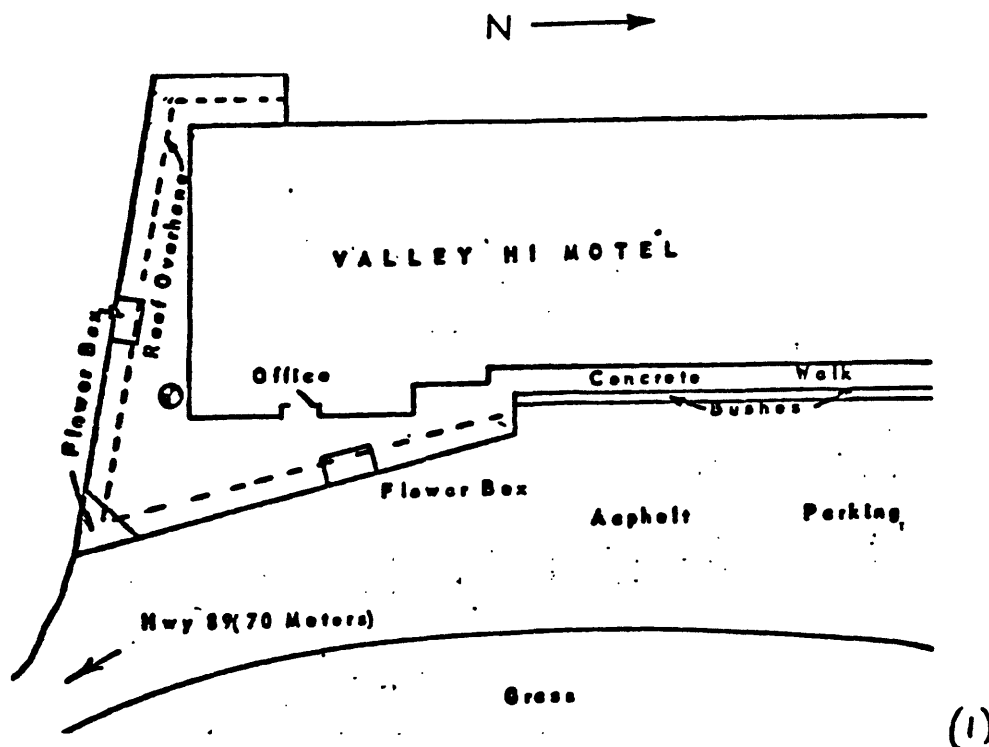


Figure 3. -- Cokeville DoD Base Station Description

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

STATE/COUNTRY		STATION DESIGNATION		OBSERVED GRAVITY
Wyoming		Kemmerer		979675.65 mGals
NEAREST TOWN		LONGITUDE		LATITUDE
Kemmerer/Diamondville		110° 32.58'		41° 46.26'
ELEVATION		TOPOGRAPHIC MAP(S)		
7020 ft (est.)		Kemmerer 1:24,000; Ogden 1:250,000		
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
6/88	Bankey	G-551	Cokeville DOD	979757.53 mGals
6/88	Bankey	G-551	Opal DOD	979697.00 mGals

DESCRIPTION/SKETCH

The Kemmerer gravity base station is located at the U.S. Forest Service building (455 U.S. Highway 189) south of the cities of Kemmerer and Diamondville, Wyo. The meter was read at the northwest corner of the building at the base of the flagpole.

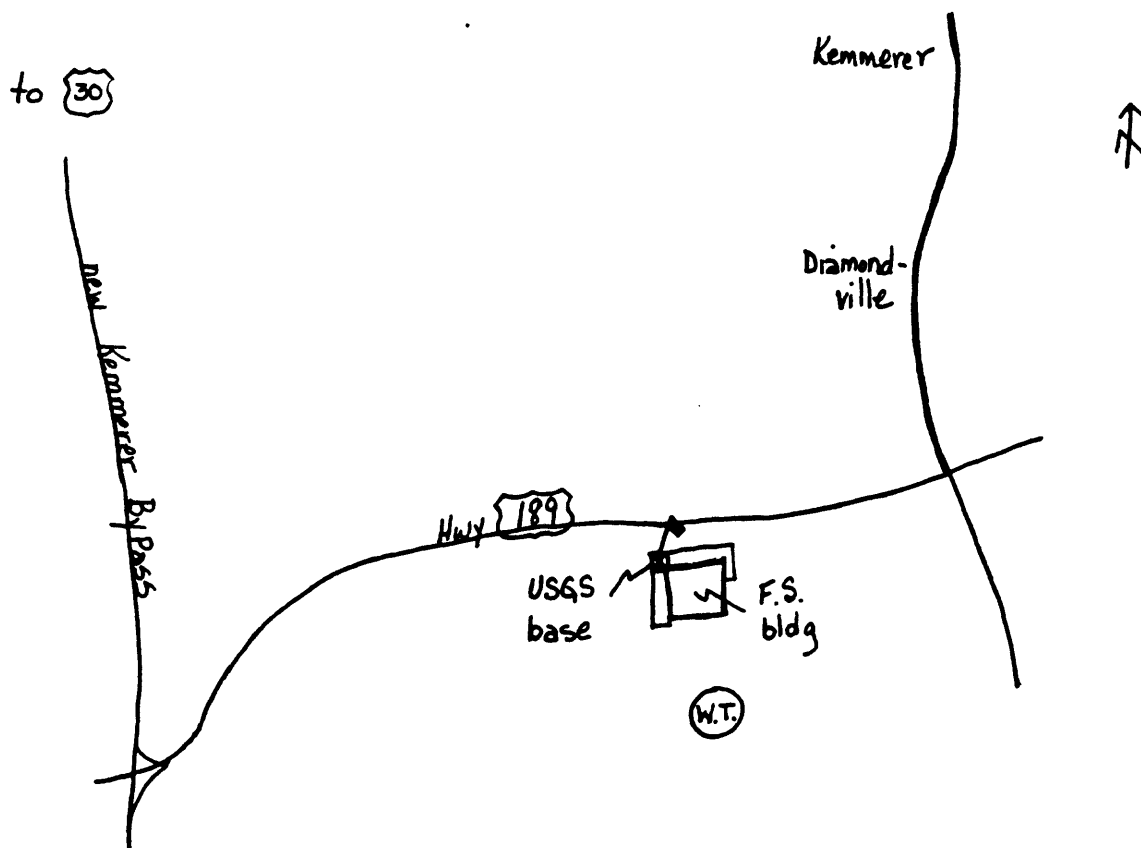


Figure 4.-- Kemmerer Base Station Description

GRAVITY BASE STATION
U.S. GEOLOGICAL SURVEY

STATE/COUNTRY Wyoming		STATION DESIGNATION Muddy Gap Base		OBSERVED GRAVITY 979789.34 mgals
NEAREST TOWN Three Forks		LONGITUDE 107° 26.78'		LATITUDE 42° 21.70'
ELEVATION 6269 ft (1910.8 m)		TOPOGRAPHIC MAP(S) Muddy Gap 7 1/2'; Casper 2°		
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
7/84	Kulik	W177	Sun Ranch DOD	979874.09 mgals
(hid 3 times)				

DESCRIPTION/SKETCH

Muddy Gap gravity base is located at the base of mile marker 44.05 on Wyoming hwy. 220 located approximately 50 ft southwest of the access road connecting hwy 287 with hwy 220 at Muddy Gap junction.

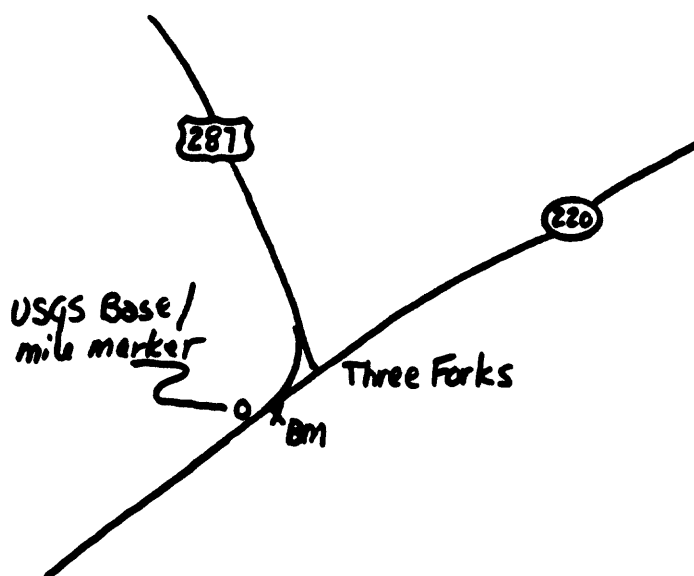


Figure 5.-- Muddy Gap Base Station Description

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

STATE/COUNTRY Wyoming	STATION DESIGNATION Nomad Inn Motel	OBSERVED GRAVITY 979725.00 mgals		
NEAREST TOWN Rock Springs	LONGITUDE 109° 13.80'	LATITUDE 41° 36.29'		
ELEVATION 6260 ft (est) (1908 m)	TOPOGRAPHIC MAP(S) Rock Springs 7 1/2', Rock Springs 2°			
DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
9/82	Bankey	G-550	Rock Springs DOD	979727.66 mgals
9/82	Bankey	G-550	Squaw Hollow DOD	979668.02 mgals

DESCRIPTION/SKETCH

Base is located at the Nomad Inn Motel, in Rock Springs, Wyo. Take the 2nd exit from east or west, called Elk Street exit, to Nomad Inn. Base is at second building between rooms 242 and 243, on the concrete sidewalk beneath the fire extinguisher mounted on the wall.

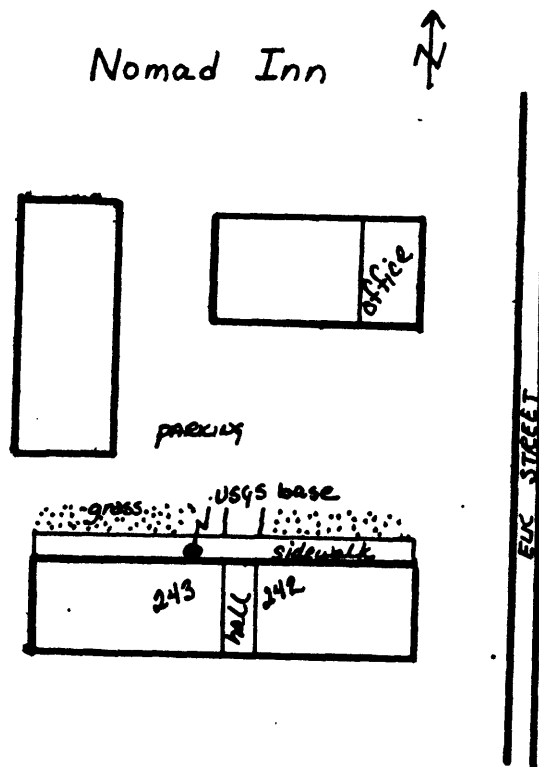
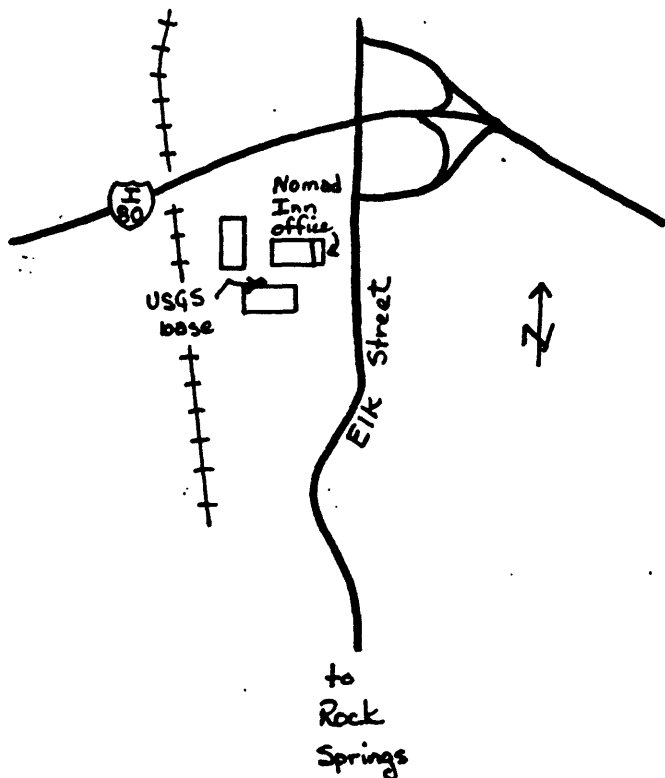


Figure 6.-- Nomad Inn Base Station Description

GRAVITY BASE STATION			
LATITUDE		STATION DESIGNATION	
41° 56.00'N (1)		OPAL	
LONGITUDE			
110° 16.30'W (1)			
ELEVATION		COUNTRY/STATE	
6765' 2063.5 METERS (1)		USA/Wyoming	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 0421-1		g = 979697.00 mgals	
HUS 1856			
		ESTIMATED ACCURACY	DATE
		± 0.3 mgals	MONTH/YEAR
			1988 update

DESCRIPTION AND/OR SKETCH

T 23N, R 114W, S 36 Graham Reservoir 7½' quadrangle

At the junction of Opal cutoff road leading southward and Highway 189, at the intersection level. (1)

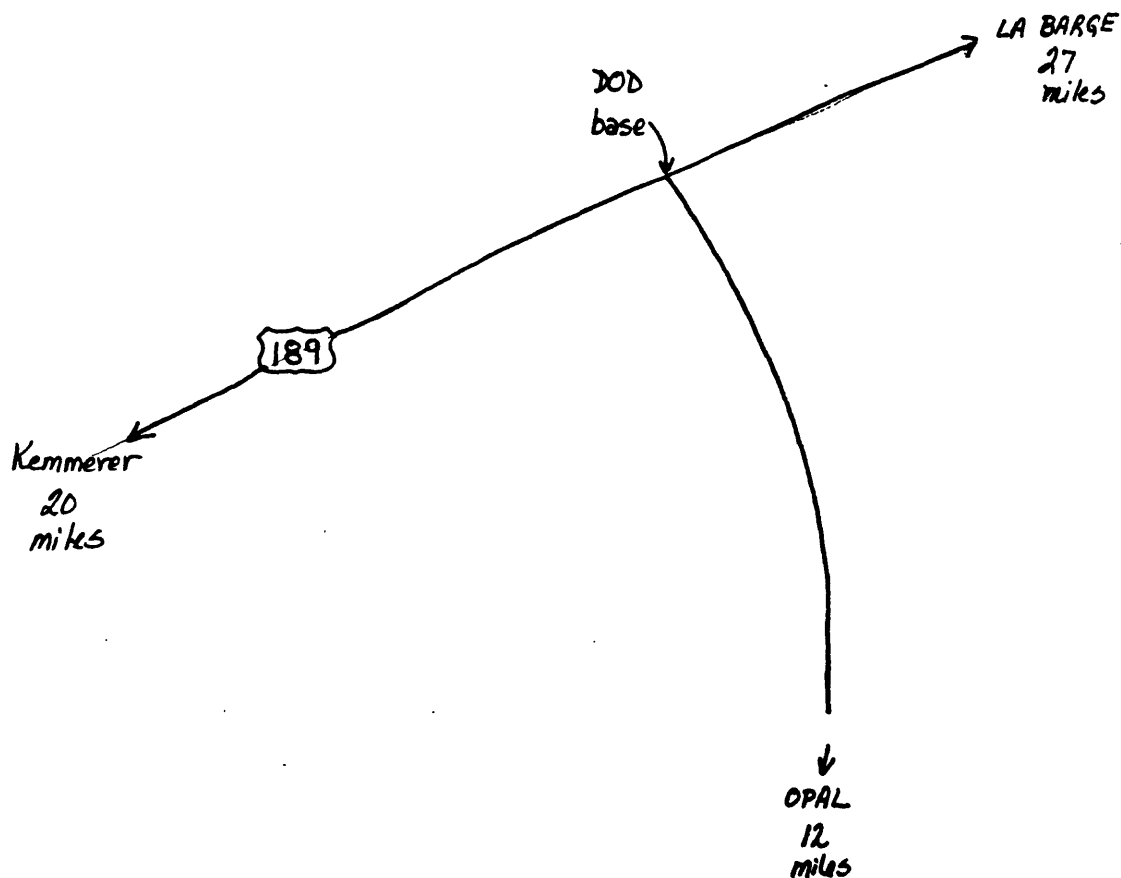


Figure 7.-- Opal Base Station Description

Appendix A: Principal Facts of Gravity Data

Explanation of headings

Identification

sta-id Gravity station identification number.

Location

latitude North latitude in degrees, decimal minutes.

longitude West longitude in degrees, decimal minutes.

ele Station elevation in feet.

st State where station is located.

Gravity

observed Observed gravity in milliGals.

theoretical Theoretical gravity in milliGals.

Corrections

Terrain Terrain correction, 166.7 km radius, in milliGals.

Bouguer Simple Bouguer slab correction in milliGals.

curv Curvature correction in milliGals.

special Not used.

Anomalies

free-air Free-air anomaly in milliGals.

complete-Bouguer Complete Bouguer anomaly in milliGals for designated density d_1 .

S.W. Wyoming Bouguer Gravity Data
 Benkey and Kulik, recalculated 1987
 Meter used: var

STATION IDENTIFICATION proj sta-id	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	
	LATITUDE deg min	LONGITUDE deg min	ELE (in ft)	ST OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV 2.87 g/cc	SPECIAL FREE AIR	COMPLETE-BOUGUER 2.67 g/cc
sw001	42 28.78	-108 43.78	7684.00	wy 979750.82	980392.77	1.77 -262.08	0.00 80.35	-181.45
sw002	42 28.86	-108 42.75	7825.00	wy 978737.14	980391.09	1.08 -266.89	0.00 81.58	-185.70
sw003	42 27.50	-108 41.57	7655.00	wy 978739.62	980389.34	0.80 -261.08	0.00 68.84	-181.84
sw004	42 28.44	-108 40.20	7512.00	wy 978744.11	980387.76	0.83 -258.21	0.00 62.48	-194.28
sw005	42 25.62	-108 39.16	7380.00	wy 978750.40	980386.52	0.53 -251.71	0.00 57.61	-185.07
sw006	42 24.48	-108 38.85	7395.00	wy 978744.48	980384.81	0.52 -252.22	0.00 54.81	-198.39
sw007	42 23.70	-108 37.60	7260.00	wy 978747.01	980383.84	0.43 -247.62	0.00 45.83	-202.88
sw008	42 22.88	-108 36.78	7296.00	wy 978740.88	980382.38	0.43 -248.85	0.00 44.33	-205.60
sw009	42 21.71	-108 36.62	7288.00	wy 978738.48	980380.65	0.71 -248.57	0.00 42.82	-208.45
sw010	42 23.04	-108 34.38	7302.00	wy 978743.55	980382.65	0.45 -248.05	0.00 47.31	-202.80
sw011	42 22.19	-108 36.72	7255.00	wy 978739.32	980381.37	0.57 -247.45	0.00 39.84	-208.45
sw012	42 22.45	-108 32.33	7513.00	wy 978728.78	980381.77	0.63 -256.25	0.00 53.26	-203.86
sw013	42 21.43	-108 31.55	7524.00	wy 978723.47	980380.23	0.65 -256.62	0.00 50.50	-206.97
sw014	42 20.53	-108 30.90	7487.00	wy 978721.44	980378.88	0.68 -255.36	0.00 46.35	-209.82
sw015	42 17.94	-108 27.10	7223.00	wy 978724.72	980374.89	0.34 -246.36	0.00 28.72	-218.81
sw016	42 18.65	-108 28.55	7187.00	wy 978726.73	980376.05	0.33 -245.13	0.00 26.27	-220.04
sw017	42 17.15	-108 27.85	7087.00	wy 978721.79	980373.80	0.54 -241.72	0.00 14.20	-228.48
sw018	42 16.16	-108 28.60	7045.00	wy 978710.48	980372.32	0.28 -240.28	0.00 0.42	-241.10
sw019	42 15.79	-108 30.20	7123.00	wy 978698.86	980371.77	0.28 -242.85	0.00 -3.31	-247.48
sw020	42 15.98	-108 31.50	7105.00	wy 978704.57	980372.05	0.40 -242.33	0.00 0.42	-243.02
sw021	42 19.26	-108 26.40	7336.00	wy 978720.48	980376.98	0.47 -250.21	0.00 33.11	-218.14
sw022	42 20.16	-108 26.15	7174.00	wy 978732.69	980378.33	0.53 -244.68	0.00 28.75	-216.82
sw023	42 21.22	-108 25.65	7276.00	wy 978730.71	980378.92	0.47 -248.16	0.00 34.77	-214.44
sw024	42 20.88	-108 28.45	7400.00	wy 978724.32	980379.41	0.44 -252.39	0.00 40.53	-212.82
sw025	42 12.58	-108 13.42	8842.00	wy 978700.57	980366.91	0.08 -233.38	0.00 -23.16	-257.87
sw028	42 11.83	-108 12.82	6813.00	wy 978702.08	980365.83	0.05 -232.37	0.00 -23.27	-257.11
sw027	42 11.36	-108 9.88	6912.00	wy 978896.42	980365.12	0.11 -235.75	0.00 -18.82	-256.08
sw028	42 10.36	-108 5.37	7400.00	wy 978666.07	980363.62	0.48 -252.39	0.00 -1.82	-255.33
sw029	42 10.00	-108 3.60	7709.00	wy 978646.39	980363.08	1.62 -262.83	0.00 7.87	-254.83
sw030	42 8.81	-108 1.02	7494.00	wy 978661.60	980361.29	0.58 -255.60	0.00 4.77	-251.75
sw031	42 8.26	-108 58.64	7160.00	wy 978685.25	980360.47	0.31 -244.21	0.00 -2.14	-247.55
sw032	42 7.59	-108 55.98	7596.00	wy 978657.69	980359.46	2.11 -259.08	0.00 12.27	-246.20
sw033	42 7.61	-108 52.90	7537.00	wy 978666.18	980359.48	0.62 -257.07	0.00 15.18	-242.76
sw034	42 6.84	-108 50.16	7506.00	wy 978668.08	980358.34	1.00 -256.01	0.00 15.33	-241.18
sw035	42 5.01	-108 46.62	7220.00	wy 978684.78	980355.59	0.28 -246.25	0.00 7.80	-239.60
sw036	42 4.87	-108 45.08	7199.00	wy 978684.90	980355.38	0.29 -245.54	0.00 6.26	-240.50
sw037	42 5.54	-108 43.40	7154.00	wy 978690.80	980356.38	0.28 -244.00	0.00 6.93	-238.31
sw038	42 5.48	-108 40.40	7138.00	wy 978690.31	980356.31	0.59 -243.46	0.00 4.91	-239.47
sw039	42 6.58	-108 40.20	6970.00	wy 978702.82	980357.95	0.15 -237.73	0.00 0.10	-238.88
sw040	42 7.54	-108 39.80	6886.00	wy 978704.28	980359.39	0.12 -235.20	0.00 -6.83	-243.43

BOUGUER GRAVITY DATA

S.W. Wyoming Bouguer Gravity Data
 Benkey and Kulik, recalculated 1987
 Meter used: ver

STATION IDENTIFICATION proj sta-id	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	
	LATITUDE deg min	LONGITUDE deg min	ELE (in ft)	ST OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV 2.67 g/cc	SPECIAL AIR	COMPLETE-BOUGUER
ew041	42 8.69	-108 40.00	6939.00	wy 979707.96	980361.11	0.12 -236.67	-1.52	-238.90
ew042	42 10.86	-108 43.70	7070.00	wy 979705.10	980364.37	0.30 -241.14	-1.51	-237.00
ew043	42 11.46	-108 47.07	7120.00	wy 979704.54	980365.27	0.27 -242.84	-1.51	-235.50
ew045	42 13.07	-108 47.74	7200.00	wy 979701.68	980367.68	0.31 -245.57	-1.51	-235.94
ew046	42 14.27	-108 48.80	7323.00	wy 978695.72	980369.48	0.51 -249.77	-1.51	-236.14
ew047	42 15.05	-108 48.98	7470.00	wy 978694.57	980370.65	0.69 -254.78	-1.50	-229.48
ew048	42 15.52	-108 49.48	7440.00	wy 978690.19	980371.37	1.02 -253.76	-1.50	-236.03
ew049	42 16.21	-108 48.58	7841.00	wy 978667.79	980372.40	1.11 -267.43	-1.48	-235.36
ew050	42 16.17	-108 49.54	7757.00	wy 978669.85	980372.34	0.91 -264.57	-1.48	-238.47
ew051	42 16.75	-108 50.44	7790.00	wy 978670.47	980373.21	0.73 -265.88	-1.48	-236.92
ew052	42 17.70	-108 51.07	7827.00	wy 978673.50	980374.83	0.83 -266.98	-1.48	-233.00
ew053	42 18.04	-108 51.77	7687.00	wy 978686.46	980375.15	0.77 -262.18	-1.48	-229.00
ew054	42 18.83	-108 51.77	7550.00	wy 978689.55	980376.33	0.70 -257.51	-1.50	-225.37
ew055	42 19.71	-108 52.12	7510.00	wy 978695.43	980377.65	0.52 -256.14	-1.50	-233.38
ew056	42 20.74	-108 52.23	7408.00	wy 978712.46	980378.20	0.44 -252.67	-1.50	-224.08
ew057	42 21.32	-108 53.09	7521.00	wy 978712.64	980380.06	0.79 -256.52	-1.50	-217.67
ew058	42 18.28	-108 49.26	8090.00	wy 979665.32	980375.52	2.07 -275.93	-1.48	-225.07
ew059	42 17.32	-108 48.07	7664.00	wy 978678.12	980374.06	0.70 -261.40	-1.48	-236.71
ew060	42 17.43	-108 47.08	7572.00	wy 978689.37	980374.23	0.63 -258.26	-1.50	-232.20
ew061	42 17.79	-108 46.60	7589.00	wy 978688.57	980374.77	0.52 -258.84	-1.50	-231.63
ew062	42 18.65	-108 45.66	7520.00	wy 978698.32	980376.05	0.61 -256.48	-1.50	-228.22
ew063	42 18.80	-108 45.12	7443.00	wy 978713.43	980377.79	0.52 -253.88	-1.50	-219.54
ew064	42 20.64	-108 43.47	7353.00	wy 978727.85	980378.05	0.48 -250.78	-1.51	-212.01
ew065	42 21.91	-108 42.70	7370.00	wy 978736.71	980380.95	0.44 -251.37	-1.51	-203.88
ew066	42 20.68	-108 46.51	7355.00	wy 978724.91	980378.11	0.42 -250.86	-1.51	-214.76
ew067	42 21.42	-108 45.26	7340.00	wy 978734.12	980380.22	0.44 -250.35	-1.51	-207.53
ew068	42 22.18	-108 43.55	7381.00	wy 978734.14	980381.36	0.46 -251.74	-1.51	-206.17
ew069	42 20.78	-108 49.43	7388.00	wy 978720.64	980378.25	0.43 -251.98	-1.51	-217.18
ew070	42 16.08	-108 47.71	7790.00	wy 978667.26	980372.22	0.88 -265.69	-1.48	-239.00
ew071	42 16.39	-108 46.12	7686.00	wy 978675.11	980372.67	1.27 -262.15	-1.49	-237.43
ew072	42 16.77	-108 44.80	7670.00	wy 978674.79	980373.23	0.96 -261.60	-1.49	-239.58
ew073	42 17.28	-108 43.95	7576.00	wy 978684.71	980374.00	0.62 -258.40	-1.50	-236.40
ew074	42 16.97	-108 43.07	7667.00	wy 978676.37	980373.53	0.97 -261.50	-1.49	-238.49
ew075	42 12.50	-108 47.03	7120.00	wy 978702.98	980366.83	0.37 -242.84	-1.51	-238.51
ew076	42 12.86	-108 46.56	7192.00	wy 978701.14	980367.37	0.28 -245.30	-1.51	-236.68
ew077	42 14.02	-108 45.69	7200.00	wy 978702.39	980369.11	0.32 -245.57	-1.51	-236.65
ew078	42 14.04	-108 45.25	7205.00	wy 978702.25	980369.14	0.32 -245.74	-1.51	-236.52
ew079	42 13.98	-108 45.15	7212.00	wy 978701.50	980369.07	0.33 -245.98	-1.51	-236.77
ew080	42 14.10	-108 45.02	7260.00	wy 978700.18	980369.23	0.48 -247.62	-1.51	-235.23
ew081	42 15.04	-108 45.17	7271.00	wy 978700.88	980370.64	0.52 -247.89	-1.51	-235.23

S.W. Wyoming Bouguer Gravity Data
Benkey and Kulik, recalculated 1987
Meter used: var

STATION IDENTIFICATION proj eta-id	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	
	LATITUDE deg min	LONGITUDE deg min	ELE (in ft)	ST OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV 2.67 g/cc	SPECIAL FREE AIR	COMPLETE-BOUGUER 2.67 g/cc
sw082	42 13.00	-108 43.20	7102.00	wy 878707.67	980367.58	0.28 -242.23	0.00 7.72	-235.75
sw083	42 10.40	-108 47.16	7086.00	wy 878705.16	980363.67	0.24 -241.68	0.00 7.60	-235.36
sw084	42 9.81	-108 41.50	6980.00	wy 878708.03	980362.85	0.13 -238.41	0.00 2.18	-237.61
sw085	42 8.73	-108 38.10	6938.00	wy 878707.83	980362.67	0.12 -236.64	0.00 -2.63	-240.68
sw086	42 10.35	-108 38.00	6915.00	wy 878710.40	980363.60	0.14 -235.85	0.00 -3.15	-240.38
sw087	42 11.08	-108 36.50	6900.00	wy 878711.78	980364.70	0.18 -235.34	0.00 -4.27	-240.84
sw088	42 11.81	-108 35.00	6868.00	wy 878711.72	980365.78	0.20 -234.25	0.00 -8.43	-244.00
sw089	42 12.24	-108 34.00	6870.00	wy 878713.07	980366.44	0.20 -234.32	0.00 -7.54	-243.17
sw090	42 13.07	-108 32.55	6910.00	wy 878711.10	980367.68	0.24 -235.68	0.00 -8.88	-243.85
sw091	42 14.07	-108 31.70	7080.00	wy 878701.42	980368.18	0.43 -241.48	0.00 -2.21	-244.77
sw093	42 14.43	-108 33.20	7080.00	wy 878702.50	980368.73	0.32 -241.48	0.00 -1.67	-244.34
sw094	42 15.55	-108 34.30	7100.00	wy 878708.15	980371.41	0.58 -242.16	0.00 4.18	-238.91
sw095	42 16.13	-108 34.80	7143.00	wy 878707.21	980372.27	0.40 -243.63	0.00 6.41	-238.33
sw096	42 17.18	-108 35.85	7227.00	wy 878706.47	980373.85	0.38 -246.48	0.00 11.88	-235.64
sw097	42 17.18	-108 36.50	7278.00	wy 878703.28	980373.85	0.41 -248.23	0.00 13.58	-235.74
sw098	42 18.21	-108 37.15	7436.00	wy 878697.32	980375.40	0.62 -253.62	0.00 20.83	-233.58
sw099	42 18.55	-108 38.14	7660.00	wy 878678.94	980375.91	0.77 -261.26	0.00 24.08	-237.80
sw100	42 20.44	-108 38.21	7445.00	wy 878715.98	980378.75	0.48 -253.93	0.00 36.68	-218.26
sw101	42 18.65	-108 38.28	7623.00	wy 878690.98	980377.56	0.65 -260.00	0.00 29.88	-230.86
sw102	42 18.68	-108 40.35	7678.00	wy 878684.89	980376.10	0.74 -261.81	0.00 30.62	-232.04
sw103	42 18.18	-108 41.66	7845.00	wy 878668.64	980375.35	1.77 -267.57	0.00 30.72	-236.56
sw104	42 28.08	-108 48.04	7805.00	wy 878735.15	980380.23	1.34 -266.21	0.00 78.58	-187.77
sw105	42 27.51	-108 45.88	7895.00	wy 878728.03	980388.36	1.32 -268.83	0.00 78.86	-188.24
sw106	42 28.52	-108 44.30	7710.00	wy 878735.11	980387.88	0.81 -262.87	0.00 71.88	-191.67
sw107	42 28.63	-108 42.15	7507.00	wy 878746.35	980388.04	0.68 -256.04	0.00 63.98	-192.87
sw108	42 25.66	-108 42.08	7496.00	wy 878742.25	980386.58	0.65 -255.67	0.00 60.30	-196.22
sw109	42 25.13	-108 42.38	7485.00	wy 878741.78	980385.78	0.78 -255.63	0.00 60.54	-195.82
sw110	42 23.76	-108 42.50	7465.00	wy 878738.00	980383.73	0.57 -254.61	0.00 55.99	-199.55
sw111	42 22.77	-108 42.95	7340.00	wy 878740.38	980382.24	0.45 -250.35	0.00 48.13	-203.27
sw112	42 23.58	-108 44.35	7475.00	wy 878738.76	980383.46	0.64 -254.95	0.00 57.96	-197.85
sw113	42 24.32	-108 45.87	7604.00	wy 878734.14	980384.57	0.62 -259.35	0.00 64.36	-195.87
sw114	42 24.88	-108 47.48	7670.00	wy 878730.48	980385.58	0.80 -261.60	0.00 65.80	-196.39
sw115	42 26.71	-108 48.78	7835.00	wy 878722.16	980388.16	0.95 -267.23	0.00 70.48	-197.28
sw160	42 8.43	-108 20.20	6686.00	wy 878710.89	980360.72	-0.03 -228.04	0.00 -21.28	-250.88
sw161	42 7.27	-108 20.35	6689.00	wy 878710.55	980358.98	-0.06 -227.48	0.00 -21.50	-250.53
sw162	42 6.64	-108 22.90	6650.00	wy 878711.47	980358.04	-0.05 -226.81	0.00 -21.42	-249.79
sw163	42 5.78	-108 24.48	6622.00	wy 878713.46	980356.74	-0.09 -225.86	0.00 -20.76	-248.22
sw164	42 4.58	-108 24.00	6633.00	wy 878712.16	980354.86	-0.05 -226.23	0.00 -19.25	-247.04
sw165	42 3.07	-108 23.90	6610.00	wy 878714.40	980352.68	-0.10 -225.45	0.00 -16.88	-243.95
sw166	42 8.43	-108 9.00	7065.00	wy 878683.64	980362.23	0.55 -240.87	0.00 -4.43	-246.36

BOUGUER GRAVITY DATA

STATION IDENTIFICATION proj ste-id	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	
	LATITUDE deg min	LONGITUDE deg min	ELE (in ft)	ST OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV 2.67 g/cc	SPECIAL AIR	COMPLETE-BOUGUER 2.67 g/cc
sw167	42 8.48	-108 8.31	6920.00	WY 879693.08	980360.80	0.40 -236.02	0.00	-17.18 -254.33
sw168	42 7.78	-108 10.80	7150.00	WY 879677.61	980359.75	0.96 -243.87	0.00	-10.00 -254.42
sw169	42 7.32	-108 10.78	7035.00	WY 879686.14	980359.05	0.18 -238.94	0.00	-11.58 -252.86
sw170	42 8.08	-108 11.90	7075.00	WY 879684.91	980360.20	0.34 -241.31	0.00	-10.20 -252.68
sw171	42 7.31	-108 7.49	6960.00	WY 879689.47	980359.04	0.48 -237.39	0.00	-15.28 -253.71
sw172	42 6.60	-108 6.44	6980.00	WY 879688.85	980357.98	0.50 -238.07	0.00	-12.96 -252.05
sw173	42 6.09	-108 5.68	6980.00	WY 879690.41	980357.21	0.37 -239.07	0.00	-10.64 -249.86
sw174	41 44.80	-108 16.86	6565.00	WY 879718.46	980325.30	0.13 -223.91	0.00	10.34 -214.96
sw175	41 45.20	-108 15.74	6493.00	WY 879725.21	980325.89	0.08 -221.46	0.00	9.73 -213.16
sw176	41 43.91	-108 14.47	6428.00	WY 879727.53	980323.96	0.06 -218.27	0.00	7.86 -212.76
sw177	41 45.94	-108 14.88	6478.00	WY 879729.71	980327.01	0.03 -220.85	0.00	11.71 -210.72
sw178	41 47.13	-108 14.24	6475.00	WY 879732.37	980328.79	0.18 -220.84	0.00	12.28 -209.88
sw179	41 50.75	-108 13.18	6840.00	WY 879727.96	980334.20	0.04 -226.47	0.00	17.87 -209.88
sw180	41 52.22	-108 12.81	6618.00	WY 879724.29	980336.41	0.05 -225.72	0.00	10.03 -217.16
sw181	41 54.48	-108 12.02	6626.00	WY 879723.46	980339.82	0.07 -225.99	0.00	6.55 -220.88
sw182	41 55.51	-108 11.68	6840.00	WY 879722.40	980341.35	0.08 -226.47	0.00	5.27 -222.65
sw183	41 56.86	-108 11.13	6670.00	WY 879720.94	980343.38	0.13 -227.49	0.00	4.61 -224.27
sw184	41 57.90	-108 11.90	6710.00	WY 879722.10	980344.93	0.07 -228.96	0.00	7.87 -222.34
sw185	41 56.18	-108 9.32	6720.00	WY 879717.18	980342.37	0.30 -228.20	0.00	6.55 -223.87
sw186	41 57.03	-108 9.08	6760.00	WY 879715.64	980343.63	0.15 -230.56	0.00	7.51 -224.42
sw187	41 57.60	-108 8.92	6868.00	WY 879709.54	980344.48	0.14 -234.25	0.00	10.70 -224.92
sw188	41 58.59	-108 9.24	6810.00	WY 879712.07	980345.96	0.47 -232.27	0.00	6.30 -227.02
sw189	41 58.50	-108 8.86	6950.00	WY 879703.07	980347.33	0.13 -237.04	0.00	9.09 -228.34
sw190	42 0.08	-108 7.87	6923.00	WY 879699.93	980348.20	0.28 -236.12	0.00	2.54 -234.82
sw191	41 56.99	-108 7.04	6867.00	WY 879707.86	980343.56	0.52 -234.21	0.00	9.84 -225.37
sw192	41 56.22	-108 5.11	7288.00	WY 879680.10	980342.41	0.44 -248.57	0.00	22.80 -226.84
sw193	41 56.44	-108 3.88	7390.00	WY 879671.58	980342.74	0.43 -252.05	0.00	23.52 -229.60
sw194	41 56.31	-108 2.02	7150.00	WY 879685.76	980342.55	0.48 -243.87	0.00	15.35 -229.54
sw195	41 55.72	-108 0.26	7320.00	WY 879672.72	980341.66	0.40 -249.66	0.00	19.17 -231.60
sw196	41 55.47	-108 55.81	6972.00	WY 879690.49	980341.28	0.27 -237.79	0.00	4.62 -234.42
sw197	41 55.22	-108 52.53	6877.00	WY 879695.96	980340.91	0.13 -234.55	0.00	1.54 -234.40
sw198	41 53.35	-108 50.35	6914.00	WY 879690.89	980338.11	0.07 -235.62	0.00	2.75 -234.52
sw199	41 51.61	-108 50.23	6970.00	WY 879688.23	980335.50	0.18 -237.73	0.00	7.85 -231.11
sw200	41 57.20	-108 56.08	7220.00	WY 879674.35	980343.88	0.89 -246.25	0.00	9.19 -237.68
sw201	41 58.23	-108 55.35	7321.00	WY 879666.24	980345.42	1.12 -249.70	0.00	9.02 -241.06
sw202	41 59.43	-108 52.04	7188.00	WY 879674.40	980347.22	0.43 -245.16	0.00	2.99 -243.96
sw203	41 58.10	-108 50.75	7129.00	WY 879676.92	980346.73	0.34 -243.15	0.00	0.36 -243.86
sw204	41 58.71	-108 47.42	6980.00	WY 879687.01	980347.65	0.21 -238.07	0.00	-4.47 -249.84
sw205	41 55.66	-108 57.95	7075.00	WY 879685.98	980341.57	0.37 -241.31	0.00	9.50 -232.95
sw208	41 39.08	-108 13.60	6355.00	WY 879722.42	980316.74	0.10 -216.75	0.00	3.12 -215.04

STATION IDENTIFICATION proj sta-id	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	
	LATITUDE deg min	LONGITUDE deg min	ELE (in ft)	ST OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV 2.67 g/cc	SPECIAL FREE AIR	COMPLETE-BOUGUER 2.67 g/cc
sw207	41 43.66	-109 16.47	6520.00	wy 979718.12	980323.59	0.26 -222.38	0.00	-216.16
sw208	41 44.43	-109 17.92	6670.00	wy 979710.61	980324.74	0.27 -227.49	0.00	-215.83
sw209	41 45.22	-109 20.29	7015.00	wy 979685.19	980325.93	0.20 -239.26	0.00	-221.85
sw210	41 47.51	-109 20.03	6973.00	wy 979689.14	980329.35	0.18 -237.83	0.00	-223.87
sw211	41 48.44	-109 20.24	6880.00	wy 979686.72	980332.25	0.10 -234.66	0.00	-224.83
sw212	41 51.00	-109 20.40	6894.00	wy 979696.83	980334.59	0.35 -235.13	0.00	-225.97
sw213	41 52.69	-109 20.97	6940.00	wy 979694.39	980337.12	0.14 -236.70	0.00	-228.40
sw214	41 55.32	-109 22.40	6841.00	wy 979698.92	980341.06	0.53 -233.33	0.00	-233.35
sw215	41 56.00	-109 27.47	6705.00	wy 979706.89	980342.08	-0.08 -228.69	0.00	-235.15
sw216	41 58.92	-109 24.76	6650.00	wy 979710.64	980346.45	-0.05 -226.81	0.00	-239.03
sw217	42 0.02	-109 25.00	6601.00	wy 979713.67	980348.10	-0.06 -225.14	0.00	-240.60
sw218	42 1.54	-109 25.75	6568.00	wy 979715.74	980350.39	-0.08 -224.02	0.00	-242.80
sw219	42 3.06	-109 26.20	6610.00	wy 979713.58	980352.66	-0.12 -225.45	0.00	-244.77
sw220	42 5.36	-109 26.40	6594.00	wy 979714.78	980356.11	-0.11 -224.90	0.00	-247.97
sw221	41 59.00	-109 23.30	6680.00	wy 979710.48	980346.57	-0.03 -227.84	0.00	-237.51
sw222	41 58.97	-109 21.16	6753.00	wy 979706.91	980346.53	0.13 -230.33	0.00	-236.50
sw223	41 59.16	-109 18.62	6843.00	wy 979704.28	980346.82	0.71 -233.40	0.00	-233.45
sw224	41 59.21	-109 17.32	6895.00	wy 979700.64	980346.89	0.29 -235.17	0.00	-234.47
sw225	41 59.15	-109 15.55	7061.00	wy 979690.98	980346.80	1.58 -240.83	0.00	-232.81
sw226	41 57.57	-109 15.76	7470.00	wy 979666.16	980344.43	2.06 -254.78	0.00	-230.28
sw227	41 57.61	-109 14.55	6843.00	wy 979707.96	980344.49	0.30 -233.40	0.00	-227.85
sw228	41 57.64	-109 13.94	6760.00	wy 979712.89	980344.54	0.21 -230.56	0.00	-228.03
sw229	41 56.14	-109 14.35	6830.00	wy 979708.21	980342.29	0.48 -232.85	0.00	-225.00
sw230	41 55.20	-109 13.68	6760.00	wy 979714.26	980340.88	0.21 -230.56	0.00	-223.00
sw231	41 56.70	-109 16.26	7599.00	wy 979655.41	980343.13	1.62 -259.18	0.00	-232.45
sw232	41 55.04	-109 16.19	7686.00	wy 979650.67	980340.64	2.43 -262.15	0.00	-228.68
sw233	41 53.71	-109 16.90	7675.00	wy 979651.42	980338.65	2.27 -261.77	0.00	-226.76
sw234	41 53.63	-109 18.31	7562.00	wy 979657.91	980338.52	1.47 -257.92	0.00	-227.71
sw235	41 54.04	-109 20.54	7001.00	wy 979681.16	980339.14	0.36 -238.78	0.00	-229.78
sw236	41 41.52	-109 14.37	6405.00	wy 979722.32	980320.38	0.09 -218.46	0.00	-215.80
sw237	41 46.87	-109 12.24	6585.00	wy 979726.60	980328.40	0.01 -224.60	0.00	-208.85
sw238	41 46.94	-109 10.25	6650.00	wy 979724.22	980328.50	0.35 -226.81	0.00	-207.10
sw239	41 48.48	-109 8.35	6770.00	wy 979718.03	980330.80	0.40 -230.91	0.00	-208.36
sw240	41 49.47	-109 7.09	6880.00	wy 979711.14	980332.29	0.96 -234.66	0.00	-209.59
sw241	41 50.37	-109 6.02	6990.00	wy 979701.41	980333.64	0.47 -238.41	0.00	-214.58
sw242	41 50.71	-109 4.72	7080.00	wy 979694.53	980334.16	0.70 -241.48	0.00	-216.35
sw243	41 53.55	-109 57.02	7128.00	wy 979684.64	980339.41	0.24 -243.12	0.00	-228.08
sw244	41 53.16	-109 57.66	6996.00	wy 979693.75	980337.82	0.22 -238.61	0.00	-226.31
sw245	41 52.40	-109 58.60	7075.00	wy 979687.71	980336.68	0.25 -241.31	0.00	-226.45
sw246	42 1.25	-109 52.32	7368.00	wy 979665.64	980349.95	0.39 -251.30	0.00	-244.11

STATION IDENTIFICATION proj sta-1d	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	
	deg	min	deg	ELE (in ft)	ST OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV	SPECIAL	FREE COMPLETE-BOUGUER
							2.87 g/cc	AIR	2.67 g/cc
sw247	42	2.82	-108 52.25	7266.00	wy 979675.15	980352.30	0.51 -247.82	-1.51	0.00 5.88 -242.84
sw248	42	4.13	-108 55.02	7282.00	wy 979669.80	980354.27	0.87 -248.37	-1.51	0.00 0.06 -248.95
sw249	42	5.75	-108 57.61	7125.00	wy 979693.00	980356.70	0.43 -243.01	-1.51	0.00 -3.92 -248.01
sw250	42	6.18	-108 0.40	7063.00	wy 979686.73	980357.34	0.43 -240.90	-1.51	0.00 -6.66 -248.64
sw251	42	5.44	-108 2.38	7019.00	wy 979687.16	980356.23	0.53 -239.40	-1.52	0.00 -9.25 -248.63
nd1	41	29.41	-108 58.29	6531.00	wy 979709.87	980302.26	0.34 -222.75	-1.51	0.00 21.60 -202.33
nd2	41	27.85	-108 56.66	6577.00	wy 979701.60	980299.62	0.39 -224.32	-1.52	0.00 20.29 -205.16
nd3	41	28.58	-108 51.87	6876.00	wy 979681.83	980301.01	0.31 -234.62	-1.52	0.00 27.22 -206.51
nd4	41	27.67	-108 50.55	6895.00	wy 979676.33	980299.65	0.23 -235.17	-1.52	0.00 24.87 -211.59
nd5	41	26.38	-108 48.46	6926.00	wy 979667.80	980297.72	0.19 -236.23	-1.52	0.00 21.18 -218.37
nd6	41	24.65	-108 47.30	6977.00	wy 979658.12	980295.13	0.16 -237.87	-1.52	0.00 18.88 -220.44
nd7	41	22.15	-108 45.82	7089.00	wy 979643.51	980291.40	0.21 -241.79	-1.51	0.00 18.53 -224.56
nd8	41	21.06	-108 44.87	7252.00	wy 979635.83	980289.77	0.43 -247.34	-1.51	0.00 27.79 -220.63
nd9	41	19.01	-108 44.83	7059.00	wy 979638.00	980286.70	1.20 -240.78	-1.51	0.00 14.90 -226.17
nd10	41	17.90	-108 47.47	7049.00	wy 979637.80	980285.03	0.41 -240.42	-1.51	0.00 15.42 -226.11
nd11	41	18.52	-108 48.27	6952.00	wy 979641.61	980282.97	0.26 -237.11	-1.52	0.00 12.16 -226.18
nd12	41	15.52	-108 50.04	6900.00	wy 979643.89	980281.48	0.19 -235.34	-1.52	0.00 11.07 -225.59
nd13	41	11.63	-108 50.04	7045.00	wy 979628.04	980275.66	0.69 -240.28	-1.51	0.00 14.66 -226.45
nd14	41	8.51	-108 48.99	7339.00	wy 979602.28	980271.00	0.41 -250.31	-1.51	0.00 21.18 -230.22
nd15	41	7.81	-108 44.47	7371.00	wy 979595.40	980269.96	0.35 -251.40	-1.51	0.00 18.35 -234.21
nd16	41	8.01	-108 42.51	7255.00	wy 979602.16	980270.26	0.26 -247.45	-1.51	0.00 13.92 -234.76
nd17	41	9.04	-108 40.12	7328.00	wy 979597.57	980271.80	0.34 -248.94	-1.51	0.00 14.65 -236.46
nd18	41	9.30	-108 37.63	7165.00	wy 979605.96	980272.18	0.28 -244.38	-1.51	0.00 7.34 -238.27
nd19	41	10.42	-108 36.01	7170.00	wy 979603.64	980273.88	0.81 -244.55	-1.51	0.00 3.81 -241.44
nd20	41	11.35	-108 34.64	7896.00	wy 979552.44	980275.25	2.88 -269.31	-1.48	0.00 19.43 -248.48
nd21	41	12.18	-108 33.03	7175.00	wy 979596.93	980276.48	0.36 -244.72	-1.51	0.00 -5.16 -251.03
nd22	41	13.34	-108 31.58	7056.00	wy 979604.14	980278.22	0.25 -240.66	-1.51	0.00 -10.76 -252.68
nd23	41	15.54	-108 29.33	7051.00	wy 979606.57	980281.51	0.16 -240.49	-1.51	0.00 -12.09 -253.93
nd24	41	13.23	-108 25.93	6955.00	wy 979606.68	980278.05	0.18 -237.22	-1.52	0.00 -17.55 -256.10
nd25	41	11.40	-108 25.56	6942.00	wy 979604.76	980275.32	0.17 -236.77	-1.52	0.00 -17.96 -256.07
nd26	41	10.03	-108 24.03	7050.00	wy 979595.74	980273.27	0.72 -240.46	-1.51	0.00 -14.78 -256.03
nd27	41	8.66	-108 23.22	6901.00	wy 979804.22	980271.23	0.04 -235.37	-1.52	0.00 -18.25 -255.10
nd28	41	5.48	-108 21.69	6892.00	wy 979801.82	980266.46	0.26 -235.07	-1.52	0.00 -18.75 -253.07
nd29	41	3.42	-108 20.95	7041.00	wy 979591.93	980263.40	0.22 -240.15	-1.52	0.00 -8.56 -251.00
nd30	41	3.05	-108 18.04	7021.00	wy 979593.64	980262.84	0.17 -239.47	-1.52	0.00 -9.18 -249.99
nd31	41	1.86	-108 17.77	6965.00	wy 979597.03	980261.07	0.17 -237.56	-1.52	0.00 -9.27 -246.17
nd32	41	0.49	-108 17.71	6641.00	wy 979619.66	980259.03	0.28 -226.51	-1.52	0.00 -15.04 -242.78
nd33	40	58.46	-108 18.22	6597.00	wy 979624.54	980255.99	0.03 -225.00	-1.52	0.00 -11.26 -237.75
nd34	40	57.22	-108 18.85	6692.00	wy 979621.16	980254.15	0.07 -228.24	-1.52	0.00 -3.86 -233.56
nd35	40	57.69	-108 21.09	6687.00	wy 979618.64	980254.84	0.63 -226.07	-1.52	0.00 -7.55 -236.51

BOUGUER GRAVITY DATA

S.W. Wyoming Bouguer Gravity Data
Benkey and Kulik, recalculated 1987
Meter used: var

STATION IDENTIFICATION proj eta-id	L O C A T I O N S		ELE (in ft)	G R A V I T Y ST OBSERVED THEORETICAL	C O R R E C T I O N S TERRAIN BOUGUER CURV 2.67 g/cc	A N O M A L I E S				
	LATITUDE deg min	LONGITUDE deg min				SPECIAL AIR	FREE COMPLETE-BOUGUER			
nd36	40 57.75	-108 24.52	7138.00	wy 979590.83	980254.84	0.43 -243.46	-1.51	0.00	6.92	-237.82
nd37	40 58.39	-108 27.21	6880.00	wy 979609.60	980255.88	0.11 -234.66	-1.52	0.00	0.50	-235.57
nd38	40 59.28	-108 33.63	6659.00	wy 979626.12	980257.22	2.01 -227.12	-1.52	0.00	-5.08	-231.71
nd39	41 0.66	-108 33.12	7079.00	wy 979601.07	980259.28	0.29 -241.44	-1.51	0.00	7.27	-235.40
nd40	40 59.40	-108 37.06	7198.00	wy 979597.32	980257.40	0.52 -245.50	-1.51	0.00	16.58	-228.91
nd41	41 0.30	-108 39.34	6593.00	wy 979636.89	980258.74	0.92 -224.87	-1.52	0.00	-2.04	-227.50
nd42	41 0.53	-108 44.22	7049.00	wy 979611.69	980259.08	0.27 -240.42	-1.51	0.00	15.27	-226.40
nd43	41 2.16	-108 47.26	7141.00	wy 979609.39	980261.52	0.41 -243.56	-1.51	0.00	19.18	-225.48
nd44	41 4.67	-108 47.45	7186.00	wy 979606.87	980265.27	0.31 -245.09	-1.51	0.00	17.14	-229.16
nd45	41 7.11	-108 48.39	7402.00	wy 979595.43	980268.91	0.46 -252.46	-1.51	0.00	22.34	-231.16
nd46	41 10.33	-108 49.26	7127.00	wy 979618.66	980273.73	0.53 -243.08	-1.51	0.00	14.93	-229.14
nd47	41 39.72	-108 46.41	6528.00	wy 979710.86	980317.69	0.17 -222.65	-1.51	0.00	6.87	-217.13
nd48	41 37.95	-108 45.51	6548.00	wy 979708.94	980315.04	0.23 -223.33	-1.51	0.00	7.48	-217.14
nd49	41 36.84	-108 44.75	6556.00	wy 979703.71	980313.38	0.29 -223.61	-1.52	0.00	6.67	-218.17
nd50	41 34.18	-108 42.35	6592.00	wy 979695.14	980309.39	0.03 -224.83	-1.52	0.00	5.46	-220.86
nd51	41 31.63	-108 40.00	6636.00	wy 979685.29	980305.58	0.08 -226.33	-1.52	0.00	3.56	-224.21
nd52	41 30.61	-108 37.43	6689.00	wy 979675.89	980304.05	0.05 -228.14	-1.52	0.00	0.67	-228.94
nd53	41 30.77	-108 35.41	6685.00	wy 979673.15	980304.28	0.10 -228.01	-1.52	0.00	-2.69	-232.11
nd54	41 31.32	-108 34.58	6685.00	wy 979673.58	980305.11	0.29 -228.01	-1.52	0.00	-3.08	-232.31
nd55	41 32.46	-108 33.51	6778.00	wy 979668.75	980306.82	0.02 -231.18	-1.52	0.00	-0.88	-233.55
nd56	41 31.56	-108 32.15	6728.00	wy 979667.72	980305.47	0.15 -229.47	-1.52	0.00	-5.26	-236.10
nd57	41 30.30	-108 32.05	6745.00	wy 979664.32	980303.59	0.11 -230.05	-1.52	0.00	-5.17	-238.63
nd58	41 29.38	-108 30.92	6776.00	wy 979659.57	980302.21	0.08 -231.11	-1.52	0.00	-5.84	-238.18
nd59	41 28.17	-108 29.71	6932.00	wy 979645.61	980300.40	0.66 -236.43	-1.52	0.00	-3.13	-240.41
nd60	41 27.18	-108 30.02	6979.00	wy 979640.98	980298.91	0.27 -238.03	-1.52	0.00	-1.86	-241.14
nd61	41 25.69	-108 30.03	6903.00	wy 979642.86	980296.69	0.26 -235.44	-1.52	0.00	-4.89	-241.59
nd62	41 22.93	-108 31.29	7071.00	wy 979626.64	980292.56	0.77 -241.17	-1.51	0.00	-1.19	-243.11
nd63	41 22.31	-108 30.84	7086.00	wy 979623.43	980291.83	0.51 -241.68	-1.51	0.00	-2.07	-244.76
nd64	41 20.20	-108 30.27	7296.00	wy 979603.40	980288.48	0.45 -248.85	-1.51	0.00	0.79	-249.12
nd65	41 18.72	-108 29.29	7201.00	wy 979604.15	980286.27	0.21 -245.61	-1.51	0.00	-5.18	-252.08
nd66	41 17.29	-108 30.04	7108.00	wy 979607.41	980284.13	0.18 -242.43	-1.51	0.00	-8.52	-252.28
nd67	41 2.35	-108 14.56	7092.00	wy 979588.67	980261.80	0.77 -241.89	-1.51	0.00	-6.43	-249.06
nd68	41 3.11	-108 11.86	7606.00	wy 979554.41	980262.84	3.21 -259.42	-1.50	0.00	6.47	-251.24
nd69	41 2.87	-108 9.64	7614.00	wy 979554.96	980262.58	2.18 -258.69	-1.50	0.00	8.13	-250.88
nd70	41 3.37	-108 8.04	7330.00	wy 979575.72	980263.33	1.14 -250.01	-1.51	0.00	1.46	-248.92
nd71	41 3.52	-108 6.23	7221.00	wy 979563.60	980263.55	0.79 -246.29	-1.51	0.00	-1.12	-248.13
nd72	41 3.59	-108 3.83	7274.00	wy 979579.64	980263.65	1.51 -248.10	-1.51	0.00	-0.21	-248.31
nd73	41 4.07	-108 1.56	7033.00	wy 979597.04	980264.37	0.55 -239.88	-1.52	0.00	-6.18	-247.02
nd74	41 4.67	-108 0.10	6872.00	wy 979607.93	980265.27	0.35 -234.38	-1.52	0.00	-11.30	-246.86
nd75	41 42.63	-107 43.97	7050.00	wy 979649.89	980322.05	0.07 -240.46	-1.51	0.00	-9.41	-251.31

BOUGUER GRAVITY DATA

S.W. Wyoming Bouguer Gravity Data
 Bankey and Kulik, recalculated 1987
 Meter used: var

STATION IDENTIFICATION proj sta-id	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	
	LATITUDE deg	LONGITUDE min deg	ELE (in ft)	ST OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV 2.67 g/cc	SPECIAL FREE AIR	COMPLETE-BOUGUER 2.67 g/cc
nd76	41 38.52	-107 45.26	7088.00	wy 979642.55	980315.88	0.08 -241.88 -1.51	0.00 -7.21	-250.33
nd77	41 35.47	-107 45.15	7143.00	wy 979634.21	980311.33	0.11 -243.63 -1.51	0.00 -5.62	-250.65
nd78	41 33.42	-107 45.74	7004.00	wy 979638.35	980308.25	0.03 -238.88 -1.52	0.00 -10.47	-250.84
nd79	41 31.58	-107 45.60	8909.00	wy 979643.28	980305.47	0.00 -235.65 -1.52	0.00 -12.68	-249.84
nd80	41 30.18	-107 45.40	8907.00	wy 979640.85	980303.42	-0.01 -235.58 -1.52	0.00 -13.26	-250.36
nd81	41 27.45	-107 45.70	8738.00	wy 979646.60	980289.32	-0.05 -229.81 -1.52	0.00 -18.28	-250.67
nd82	41 25.09	-107 45.60	8664.00	wy 979647.48	980285.78	-0.07 -227.28 -1.52	0.00 -21.83	-250.71
nd83	41 23.25	-107 46.02	8627.00	wy 979647.60	980283.04	-0.08 -226.03 -1.52	0.00 -22.43	-250.07
nd84	41 21.02	-107 45.87	8551.00	wy 979649.40	980289.70	-0.10 -223.44 -1.51	0.00 -24.44	-248.48
nd85	41 19.58	-107 46.08	8523.00	wy 979649.64	980287.55	-0.10 -222.48 -1.51	0.00 -24.67	-248.77
nd86	41 20.62	-107 46.97	8617.00	wy 979644.30	980288.11	-0.10 -225.69 -1.52	0.00 -22.74	-250.04
nd87	41 21.62	-107 48.21	8764.00	wy 979634.80	980290.59	-0.07 -230.70 -1.52	0.00 -20.12	-252.41
nd88	41 23.40	-107 49.41	8647.00	wy 979643.64	980293.26	-0.10 -226.71 -1.52	0.00 -24.73	-253.08
nd89	41 24.48	-107 50.16	8634.00	wy 979645.73	980294.80	-0.10 -226.27 -1.52	0.00 -25.50	-253.38
nd90	41 26.17	-107 51.29	8667.00	wy 979645.55	980297.41	-0.09 -227.39 -1.52	0.00 -25.10	-254.09
nd91	41 27.67	-107 52.27	8694.00	wy 979646.64	980299.65	-0.08 -227.97 -1.52	0.00 -24.85	-254.23
nd92	41 28.05	-107 53.16	8728.00	wy 979646.07	980301.72	-0.08 -229.47 -1.52	0.00 -23.15	-254.22
nd93	41 30.93	-107 54.26	8722.00	wy 979649.23	980304.38	-0.08 -229.27 -1.52	0.00 -23.22	-254.08
nd94	41 32.28	-107 55.05	8704.00	wy 979654.46	980306.56	-0.07 -228.85 -1.52	0.00 -21.86	-252.10
nd95	41 33.48	-107 55.75	8704.00	wy 979657.07	980308.36	-0.07 -228.65 -1.52	0.00 -21.05	-251.29
nd96	41 34.90	-107 56.75	8683.00	wy 979661.51	980310.47	-0.07 -227.84 -1.52	0.00 -20.70	-250.22
nd97	41 36.50	-107 57.47	8678.00	wy 979665.82	980312.86	-0.07 -227.80 -1.52	0.00 -19.16	-248.55
nd98	41 38.14	-107 57.68	8708.00	wy 979667.60	980315.32	-0.06 -228.78 -1.52	0.00 -17.11	-247.47
nd99	41 39.68	-107 58.08	8738.00	wy 979669.60	980317.63	-0.05 -229.81 -1.52	0.00 -14.59	-245.97
nd100	41 31.79	-107 56.55	8832.00	wy 979644.64	980305.81	-0.04 -233.02 -1.52	0.00 -18.91	-253.48
nd101	41 30.88	-107 58.04	8737.00	wy 979649.03	980304.45	-0.07 -229.78 -1.52	0.00 -22.08	-253.45
nd102	41 29.31	-108 1.18	8762.00	wy 979644.48	980302.10	0.02 -230.63 -1.52	0.00 -21.92	-254.05
nd103	41 27.40	-108 2.40	8854.00	wy 979634.17	980298.25	0.07 -233.77 -1.52	0.00 -20.74	-255.85
nd104	41 25.84	-108 3.05	8781.00	wy 979635.11	980296.61	0.00 -231.28 -1.52	0.00 -24.02	-256.82
nd105	41 24.89	-108 3.73	8854.00	wy 979628.60	980295.48	0.11 -233.77 -1.52	0.00 -22.56	-257.73
nd106	41 23.30	-108 2.92	8856.00	wy 979625.68	980293.11	0.07 -233.84 -1.52	0.00 -22.91	-258.19
nd107	41 20.40	-108 3.50	8741.00	wy 979629.03	980288.77	-0.03 -229.92 -1.52	0.00 -26.02	-257.48
nd108	41 19.78	-108 5.66	8730.00	wy 979628.30	980287.85	-0.05 -229.54 -1.52	0.00 -26.86	-257.97
nd109	41 19.30	-108 7.15	8682.00	wy 979631.12	980287.13	-0.07 -227.80 -1.52	0.00 -27.33	-257.33
nd110	41 18.89	-108 9.01	8649.00	wy 979632.57	980286.52	0.06 -226.78 -1.52	0.00 -28.87	-257.11
nd111	41 19.88	-108 1.53	8910.00	wy 979624.61	980287.99	0.00 -232.27 -1.52	0.00 -23.19	-256.98
nd112	41 19.16	-107 58.73	8786.00	wy 979626.49	980285.43	-0.04 -231.45 -1.52	0.00 -20.98	-253.98
nd113	41 16.73	-107 56.80	8941.00	wy 979616.10	980283.28	0.02 -236.74 -1.52	0.00 -14.68	-252.91
nd114	41 17.05	-107 54.89	8732.00	wy 979630.57	980283.77	-0.06 -229.61 -1.52	0.00 -20.32	-251.51
nd115	41 17.99	-107 52.22	8596.00	wy 979640.57	980285.17	-0.08 -224.97 -1.52	0.00 -24.51	-251.07

S.W. Wyoming Bouguer Gravity Data
Bankay and Kulik, recalculated 1987
Meter used: var

STATION IDENTIFICATION proj sta-id	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	
	LATITUDE deg min	LONGITUDE deg min	ELE (in ft)	ST OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV 2.67 g/cc	SPECIAL FREE AIR	COMPLETE-BOUGUER 2.67 g/cc
nd116	41 17.84	-107 49.17	6553.00	wy 978644.61	980284.95	-0.08 -223.50 -1.51	0.00 -24.28	-249.39
nd117	41 18.10	-107 46.45	6523.00	wy 978648.14	980285.34	-0.10 -222.48 -1.51	0.00 -23.86	-248.08
nd118	41 37.68	-108 15.78	6986.00	wy 978651.19	980314.63	0.38 -238.61 -1.52	0.00 -5.77	-245.52
nd119	41 36.35	-108 15.27	7089.00	wy 978641.24	980312.64	0.18 -241.79 -1.51	0.00 -4.89	-248.10
nd120	41 34.72	-108 15.75	7063.00	wy 978639.55	980310.20	0.22 -240.90 -1.51	0.00 -6.69	-248.88
nd121	41 33.44	-108 16.04	7419.00	wy 978614.30	980308.28	0.55 -253.04 -1.50	0.00 3.43	-250.58
nd122	41 32.01	-108 14.28	7199.00	wy 978624.65	980306.14	0.20 -245.54 -1.51	0.00 -4.74	-251.59
nd123	41 31.11	-108 12.67	7071.00	wy 978630.29	980304.80	0.11 -241.17 -1.51	0.00 -9.79	-252.36
nd124	41 29.68	-108 11.91	6988.00	wy 978631.15	980302.63	0.07 -238.68 -1.52	0.00 -13.61	-253.74
nd125	41 29.41	-108 9.61	6960.00	wy 978632.48	980302.26	0.10 -237.39 -1.52	0.00 -15.48	-254.28
nd126	41 28.82	-108 5.39	6994.00	wy 978629.37	980301.37	0.40 -238.55 -1.52	0.00 -14.51	-254.17
nd127	41 27.18	-108 5.51	6857.00	wy 978633.58	980298.84	0.04 -233.87 -1.52	0.00 -20.74	-258.08
nd128	41 28.04	-108 5.29	6854.00	wy 978631.21	980287.21	0.02 -233.77 -1.52	0.00 -21.67	-258.93
nd128	41 24.83	-108 6.92	7021.00	wy 978617.75	980295.55	0.13 -238.47 -1.52	0.00 -17.77	-258.82
nd130	41 25.98	-108 9.82	7052.00	wy 978616.17	980287.08	0.21 -240.52 -1.51	0.00 -15.98	-257.81
nd131	41 26.48	-108 12.83	7072.00	wy 978618.90	980287.87	0.13 -241.21 -1.51	0.00 -14.15	-256.74
nd132	41 26.28	-108 14.52	7043.00	wy 978620.87	980287.57	0.17 -240.22 -1.52	0.00 -14.61	-256.17
nd133	41 26.60	-108 18.47	6966.00	wy 978628.96	980288.05	0.07 -237.59 -1.52	0.00 -13.23	-252.28
nd134	41 25.18	-108 22.29	6936.00	wy 978631.80	980285.84	0.29 -236.57 -1.52	0.00 -12.10	-249.89
nd135	41 24.38	-108 24.41	6990.00	wy 978628.11	980284.73	0.96 -238.41 -1.52	0.00 -9.50	-248.47
nd136	41 22.77	-108 22.54	6935.00	wy 978625.61	980282.32	0.07 -238.53 -1.52	0.00 -14.76	-252.74
nd137	41 21.38	-108 22.20	6986.00	wy 978618.96	980280.23	0.07 -238.27 -1.52	0.00 -14.54	-254.28
nd138	41 19.98	-108 23.32	7021.00	wy 978614.19	980288.16	0.13 -238.47 -1.52	0.00 -13.95	-254.80
nd139	41 20.19	-108 25.12	7084.00	wy 978611.28	980288.48	0.55 -241.98 -1.51	0.00 -10.29	-253.21
nd140	41 19.61	-108 26.81	7184.00	wy 978604.44	980287.59	1.41 -245.37 -1.51	0.00 -6.87	-252.34
nd141	41 16.95	-109 32.60	7198.00	wy 978603.01	980283.62	0.25 -245.50 -1.51	0.00 -3.95	-250.71
nd142	41 17.18	-108 35.95	7410.00	wy 978596.36	980283.83	0.49 -252.73 -1.50	0.00 9.01	-244.74
nd143	41 18.36	-108 36.71	7678.00	wy 978583.60	980265.73	0.80 -261.87 -1.48	0.00 18.63	-242.93
nd144	41 18.56	-108 39.40	8380.00	wy 978542.71	980286.02	3.86 -285.82 -1.44	0.00 44.40	-239.00
nd145	41 19.78	-108 40.78	7757.00	wy 978588.92	980287.86	1.38 -284.57 -1.48	0.00 31.24	-233.43
nd146	41 20.03	-108 42.74	7677.00	wy 978597.24	980288.22	1.56 -261.84 -1.48	0.00 30.69	-231.08
nd147	41 17.42	-108 51.44	6903.00	wy 978648.89	980284.31	0.13 -235.44 -1.52	0.00 13.51	-223.32
nd148	41 18.48	-108 53.64	6782.00	wy 978658.68	980285.92	0.32 -231.66 -1.52	0.00 12.25	-220.61
nd149	41 19.50	-108 56.61	6755.00	wy 978668.43	980287.43	1.07 -230.39 -1.52	0.00 16.03	-214.81
nd150	41 21.37	-108 56.25	6701.00	wy 978676.80	980290.23	1.20 -228.55 -1.52	0.00 16.53	-212.34
nd151	41 23.81	-108 55.94	6655.00	wy 978686.32	980293.88	0.69 -226.98 -1.52	0.00 18.08	-209.74
nd152	41 25.88	-108 56.20	6632.00	wy 978693.21	980296.87	1.36 -226.20 -1.52	0.00 19.72	-206.64
wy1	41 44.78	-108 57.18	6788.00	wy 978706.39	980325.23	0.37 -231.52 -1.52	0.00 19.28	-213.38
wy2	41 46.05	-108 57.13	6983.00	wy 978691.68	980327.16	0.92 -238.17 -1.52	0.00 20.97	-217.80
wy3	41 46.15	-108 55.79	7497.00	wy 978658.11	980327.32	1.16 -255.70 -1.50	0.00 35.53	-220.51

S.W. Wyoming Bouguer Gravity Data
 Benkey and Kulik, recalculated 1987
 Meter used: var

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	ete-id	LATITUDE deg	LONGITUDE min	ELE (in ft)	ST OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV 2.67 g/cc	SPECIAL AIR	FREE COMPLETE-BOUGUER 2.67 g/cc				
	wy4	41	47.51	-108 54.81	7566.00	wy 79649.48	980329.35	0.95	-258.05	-1.50	0.00	31.35	-227.25
	wy5	41	47.81	-108 52.99	6978.00	wy 79690.26	980329.80	0.39	-238.03	-1.52	0.00	18.53	-222.63
	wy6	41	48.22	-108 53.94	7102.00	wy 79682.42	980331.91	0.50	-242.23	-1.51	0.00	18.14	-225.10
	wy7	41	48.52	-108 52.53	7057.00	wy 79685.66	980332.37	0.65	-240.68	-1.51	0.00	16.68	-224.87
	wy8	41	50.10	-108 50.66	7084.00	wy 79682.89	980333.23	0.40	-241.61	-1.51	0.00	15.60	-227.13
	wy9	41	50.34	-108 49.66	7061.00	wy 79683.96	980333.59	0.29	-240.83	-1.51	0.00	14.14	-227.81
	wy10	41	51.65	-108 50.31	6970.00	wy 79689.39	980335.55	0.18	-237.73	-1.52	0.00	9.06	-230.00
	wy11	41	52.35	-108 50.07	6814.00	wy 79689.17	980336.61	0.14	-232.41	-1.52	0.00	3.13	-230.65
	wy12	41	53.69	-108 47.19	6830.00	wy 79694.53	980338.61	0.06	-232.95	-1.52	0.00	-2.01	-236.42
	wy13	41	54.15	-108 44.73	6788.00	wy 79695.85	980339.30	0.03	-231.52	-1.52	0.00	-5.33	-238.33
	wy14	41	56.42	-108 43.29	6726.00	wy 79700.71	980342.70	0.02	-229.40	-1.52	0.00	-9.70	-240.60
	wy15	41	57.60	-108 41.17	6673.00	wy 79705.44	980344.48	0.02	-227.60	-1.52	0.00	-11.72	-240.81
	wy16	41	57.78	-108 38.40	6650.00	wy 79706.96	980344.77	0.08	-226.81	-1.52	0.00	-12.65	-240.80
	wy17	41	58.30	-108 39.95	6718.00	wy 79705.92	980347.02	0.01	-229.13	-1.52	0.00	-9.55	-240.19
	wy18	42	1.06	-108 38.77	6869.00	wy 79698.90	980349.67	0.17	-234.28	-1.52	0.00	-5.03	-240.68
	wy19	42	2.80	-108 32.94	6790.00	wy 79704.36	980352.28	0.03	-231.59	-1.52	0.00	-9.60	-242.68
	wy20	42	3.68	-108 31.80	6817.00	wy 79702.87	980353.59	0.04	-232.51	-1.52	0.00	-9.88	-243.86
	wy21	42	5.35	-108 29.50	6908.00	wy 79697.21	980356.10	0.30	-235.61	-1.52	0.00	-9.48	-246.32
	wy22	42	8.16	-108 29.79	6808.00	wy 79706.32	980360.31	0.11	-232.20	-1.52	0.00	-13.89	-247.60
	wy23	42	9.64	-108 24.89	6751.00	wy 79708.98	980362.54	0.11	-230.26	-1.52	0.00	-18.92	-250.58
	wy24	42	9.49	-108 22.86	6776.00	wy 79706.87	980362.31	0.06	-231.11	-1.52	0.00	-18.45	-251.02
	wy26	41	28.57	-108 28.87	7083.00	wy 79639.32	980301.00	1.15	-241.58	-1.51	0.00	4.18	-237.77
	wy27	41	27.24	-108 28.86	7172.00	wy 79632.14	980299.01	0.90	-244.62	-1.51	0.00	7.35	-237.88
	wy28	41	26.27	-108 31.73	6972.00	wy 79642.68	980297.55	0.57	-237.79	-1.52	0.00	0.55	-238.19
	wy29	41	24.53	-108 31.94	6925.00	wy 79644.99	980294.95	0.90	-236.19	-1.52	0.00	1.05	-235.78
	wy30	41	27.71	-108 34.89	6335.00	wy 79679.07	980299.70	0.57	-216.07	-1.51	0.00	-25.08	-242.08
	wy31	41	22.08	-108 37.48	6197.00	wy 79683.10	980291.29	0.51	-211.36	-1.51	0.00	-25.59	-237.95
	wy32	41	18.91	-108 38.19	6448.00	wy 79669.47	980288.04	0.23	-219.92	-1.51	0.00	-18.38	-238.59
	wy33	41	18.15	-108 40.48	6298.00	wy 79669.61	980285.41	0.01	-214.81	-1.51	0.00	-23.71	-240.02
	wy34	41	16.00	-108 42.80	6289.00	wy 79665.68	980282.20	0.07	-214.50	-1.51	0.00	-25.27	-241.21
	wy35	41	39.16	-108 34.32	7145.00	wy 79663.11	980316.85	0.24	-243.70	-1.51	0.00	17.93	-227.04
	wy36	41	40.70	-108 34.75	7046.00	wy 79673.18	980319.15	0.46	-240.32	-1.51	0.00	16.39	-224.98
	wy37	41	42.19	-108 35.33	7075.00	wy 79674.99	980321.39	0.20	-241.31	-1.51	0.00	18.10	-224.52
	wy38	41	44.02	-108 35.41	7016.00	wy 79679.69	980324.13	0.11	-239.30	-1.52	0.00	15.11	-225.59
	wy39	41	46.35	-108 36.47	7235.00	wy 79665.80	980327.62	0.35	-246.77	-1.51	0.00	18.41	-229.52
	wy40	41	49.13	-108 35.73	7061.00	wy 79676.32	980331.78	0.28	-240.83	-1.51	0.00	8.32	-233.75
	wy41	41	51.42	-108 36.51	6752.00	wy 79698.62	980335.21	0.03	-230.29	-1.52	0.00	-1.85	-233.63
	wy42	41	52.39	-108 38.38	6768.00	wy 79695.53	980336.67	0.16	-230.84	-1.52	0.00	-4.89	-237.08
	wy43	41	52.78	-108 34.25	6666.00	wy 79702.76	980337.26	0.02	-227.36	-1.52	0.00	-7.83	-236.68
	wy44	41	52.98	-108 32.33	6635.00	wy 79705.40	980337.55	0.01	-226.30	-1.52	0.00	-8.41	-236.21

S.W. Wyoming Bouguer Gravity Data
 Benkey and Kulik, recalculated 1987
 Meter used: var

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	LONGITUDE min deg	ELE. (in ft)	ST OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV 2.67 g/cc	SPECIAL AIR	COMPLETE-BOUGUER 2.67 g/cc
	WY45	41	53.00	-108 29.42	6622.00	WY 979707.92	980337.58	0.00	-7.14
	WY46	41	55.79	-108 29.96	6707.00	WY 979702.82	980341.76	0.00	-8.43
	WY47	42	0.19	-108 31.53	6769.00	WY 979701.28	980348.37	0.00	-10.74
	WY48	41	57.54	-108 30.83	6729.00	WY 979702.35	980344.39	0.00	-9.46
	WY49	41	49.25	-108 28.84	6666.00	WY 979703.19	980331.96	0.00	-2.11
	WY50	41	47.86	-108 27.96	6846.00	WY 979689.96	980329.88	0.00	3.65
	WY51	41	45.41	-108 26.66	6798.00	WY 979686.62	980326.20	0.00	1.47
	WY52	41	43.95	-108 25.60	6692.00	WY 979691.14	980324.02	0.00	-3.78
	WY53	41	41.84	-108 25.48	6764.00	WY 979682.55	980320.86	0.00	-2.44
	WY54	41	39.60	-108 23.59	6834.00	WY 979671.85	980317.51	0.00	-3.20
	WY55	41	40.41	-108 7.10	6701.00	WY 979676.00	980318.72	0.00	-12.76
	WY56	41	42.17	-108 7.82	6644.00	WY 979684.72	980321.35	0.00	-12.03
	WY57	41	44.49	-108 7.55	6608.00	WY 979693.60	980324.83	0.00	-10.01
	WY58	41	46.60	-108 10.14	6653.00	WY 979696.78	980327.99	0.00	-5.77
	WY59	41	48.54	-108 9.73	6690.00	WY 979698.62	980330.90	0.00	-3.36
	WY60	41	50.89	-108 10.04	6654.00	WY 979704.39	980334.42	0.00	-4.50
	WY61	41	53.50	-108 10.42	6818.00	WY 979694.98	980338.34	0.00	-2.41
	WY62	41	54.74	-108 10.70	6604.00	WY 979709.57	980340.19	0.00	-9.78
	WY63	41	56.71	-108 13.22	6608.00	WY 979710.73	980343.15	0.00	-11.20
	WY64	41	57.77	-108 14.47	6599.00	WY 979711.60	980344.73	0.00	-12.77
	WY65	41	58.23	-108 16.96	6686.00	WY 979706.64	980345.42	0.00	-10.24
	WY66	41	55.23	-108 16.28	6792.00	WY 979700.65	980340.92	0.00	-1.77
	WY67	41	52.40	-108 15.96	6720.00	WY 979704.07	980336.68	0.00	-0.87
	WY68	41	48.51	-108 16.44	6576.00	WY 979706.24	980330.85	0.00	-6.40
	WY69	41	45.96	-108 16.24	6578.00	WY 979699.85	980327.03	0.00	-8.78
	WY70	41	43.34	-108 16.05	6726.00	WY 979683.16	980323.10	0.00	-7.45
	WY71	41	41.85	-108 15.05	6700.00	WY 979680.64	980320.88	0.00	-10.37
	WY72	41	40.80	-108 15.30	6819.00	WY 979670.24	980319.30	0.00	-8.02
	WY73	41	38.94	-108 15.81	7011.00	WY 979653.11	980316.52	0.00	-4.32
	WY74	41	37.69	-110 0.78	6379.00	WY 979701.21	980314.65	0.00	-13.74
	WY75	41	39.01	-110 2.44	6458.00	WY 979698.28	980316.63	0.00	-11.22
	WY76	41	41.61	-110 3.94	6430.00	WY 979704.28	980320.52	0.00	-11.75
	WY77	41	43.88	-110 5.60	6529.00	WY 979700.41	980323.91	0.00	-9.72
	WY78	41	45.99	-110 8.37	6707.00	WY 979689.24	980327.08	0.00	-7.32
	WY79	41	46.78	-110 11.15	6599.00	WY 979695.66	980328.27	0.00	-12.23
	WY80	41	52.34	-110 15.97	6610.00	WY 979694.83	980336.59	0.00	-20.37
	WY81	41	46.29	-110 19.72	6683.00	WY 979689.46	980327.52	0.00	-9.80
	WY82	41	46.27	-110 23.17	6811.00	WY 979685.28	980327.50	0.00	-1.93
	WY83	41	45.97	-110 25.76	6792.00	WY 979693.57	980327.05	0.00	5.03
	WY84	41	45.35	-110 28.60	6805.00	WY 979691.66	980326.12	0.00	5.26

S.W. Wyoming Bouguer Gravity Data
 Bankay and Kulik recalculated 1987
 Meter used: var

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	LATITUDE	LONGITUDE	ELE	ST OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV	SPECIAL	FREE COMPLETE-BOUGUER
sta-id		deg	min	deg	(in ft)		2.67 g/cc	AIR	2.67 g/cc
wy85 41		50.21	-110 32.01	6949.00	wy	979683.73	980333.40	0.00	3.58
wy86 41		52.32	-110 30.90	7091.00	wy	979681.03	980336.56	0.00	11.08
wy87 41		52.11	-110 27.58	7347.00	wy	979687.97	980336.25	0.00	22.37
wy88 41		53.48	-110 24.82	7393.00	wy	979683.68	980338.32	0.00	20.33
wy89 41		53.38	-110 21.50	7188.00	wy	979689.75	980338.16	0.00	7.31
wy90 41		54.71	-110 18.47	6961.00	wy	979682.38	980340.14	0.00	-3.38
wy91 41		55.98	-110 16.34	6785.00	wy	979697.10	980342.02	0.00	-8.85
wy92 41		57.51	-110 13.73	6874.00	wy	979706.54	980344.34	0.00	-10.28
wy93 42		1.13	-110 8.20	6876.00	wy	979689.04	980348.77	0.00	-4.34
wy94 42		2.73	-110 9.57	6781.00	wy	979707.91	980352.17	0.00	-6.80
wy95 42		4.43	-110 9.80	6589.00	wy	979724.23	980354.72	0.00	-12.85
wy96 42		4.30	-110 12.18	6943.00	wy	979700.40	980354.53	0.00	-1.44
wy97 42		4.88	-110 14.42	6700.00	wy	979720.08	980355.39	0.00	-5.47
wy98 42		4.42	-110 17.51	6743.00	wy	979717.89	980354.71	0.00	-2.82
wy91 41		55.96	-110 16.34	6765.00	wy	979697.12	980342.02	0.00	-8.83
wy99 41		53.25	-110 15.59	6696.00	wy	979695.93	980337.95	0.00	-12.54
wy100 41		48.22	-110 18.16	6660.00	wy	979692.46	980330.42	0.00	-11.86
wy81 41		46.28	-110 19.72	6883.00	wy	979689.47	980327.52	0.00	-8.78
wy101 41		45.83	-110 33.74	6901.00	wy	979679.19	980326.84	0.00	1.10
wy102 41		44.52	-110 34.16	6804.00	wy	979683.92	980324.88	0.00	-1.32
wy103 41		41.71	-110 34.30	6770.00	wy	979684.96	980320.67	0.00	0.73
wy104 41		37.88	-110 34.28	6644.00	wy	979680.78	980315.10	0.00	0.28
wy105 41		35.80	-110 34.47	6614.00	wy	979690.96	980311.96	0.00	0.77
wy106 41		32.58	-110 35.45	6585.00	wy	979689.29	980307.00	0.00	1.35
wy107 41		30.55	-110 36.30	6601.00	wy	979684.71	980303.96	0.00	1.31
wy108 41		28.87	-110 36.96	6657.00	wy	979678.14	980301.14	0.00	2.82
wy109 41		24.40	-110 38.19	6872.00	wy	979688.89	980284.76	0.00	1.37
wy110 41		21.28	-110 41.13	6782.00	wy	979651.21	980280.08	0.00	-0.37
wy111 41		18.95	-110 43.16	6877.00	wy	979639.16	980286.60	0.00	-0.86
bc001		40 17.40	-109 9.61	5251.00	wy	979666.51	980184.82	0.00	-34.60
bc002		40 17.20	-109 8.44	5289.00	wy	979667.02	980184.52	0.00	-30.22
bc003		40 18.68	-109 7.07	5509.00	wy	979658.20	980196.72	0.00	-20.56
bc004		40 18.74	-109 6.77	5700.00	wy	979644.14	980188.30	0.00	-18.25
bc005		40 20.48	-109 5.79	6130.00	wy	979617.26	980189.40	0.00	-5.82
bc006		40 20.96	-109 4.81	6490.00	wy	979594.06	980200.11	0.00	4.10
bc007		40 21.15	-109 4.06	6660.00	wy	979587.83	980200.40	0.00	13.55
bc008		40 21.31	-109 2.76	6980.00	wy	979589.38	980200.63	0.00	25.88
bc009		40 21.49	-109 1.37	7280.00	wy	979549.33	980200.81	0.00	32.81
bc010		40 21.70	-109 0.47	7460.00	wy	979544.18	980201.22	0.00	44.28
bc011		40 21.67	-109 59.30	7529.00	wy	979540.61	980201.17	0.00	47.21

BOUGUER GRAVITY DATA

STATION IDENTIFICATION proj sta-id	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	
	LATITUDE deg min	LONGITUDE deg min	ELE (in ft)	ST OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV 2.87 g/cc	SPECIAL AIR	COMPLETE-BOUGUER 2.87 g/cc
bc012	40 21.50	-108 58.36	7570.00	WY 879539.50	980200.91	2.14 -258.18	0.00 50.21	-207.34
bc013	40 22.07	-108 59.69	7666.00	WY 879532.53	980201.76	2.18 -261.47	0.00 51.41	-208.37
bc014	40 20.98	-108 56.96	7514.00	WY 879545.38	980200.16	1.90 -256.28	0.00 52.58	-203.28
bc015	40 20.30	-108 56.61	7720.00	WY 879534.28	980199.13	4.00 -263.31	0.00 60.87	-189.93
bc016	40 19.56	-108 52.38	7710.00	WY 879535.37	980198.03	5.28 -282.97	0.00 62.12	-197.05
bc017	40 19.13	-108 56.13	7720.00	WY 879535.68	980197.39	2.53 -263.31	0.00 64.01	-188.26
bc018	40 18.68	-108 55.96	7645.00	WY 879540.56	980196.72	3.44 -260.75	0.00 62.52	-186.28
bc019	40 18.21	-108 56.60	7500.00	WY 879550.44	980196.02	2.57 -255.90	0.00 59.47	-195.27
bc020	40 17.59	-108 57.54	7055.00	WY 879573.19	980195.10	2.49 -240.63	0.00 41.33	-188.33
bc021	40 16.95	-108 59.01	6580.00	WY 879609.75	980194.15	2.12 -224.42	0.00 34.21	-189.61
bc022	40 15.66	-108 58.86	6300.00	WY 879627.30	980192.23	1.13 -214.87	0.00 27.36	-187.89
bc023	40 15.08	-108 58.50	6040.00	WY 879639.88	980191.37	3.50 -208.01	0.00 18.38	-187.63
bc024	40 14.71	-108 58.35	5940.00	WY 879645.24	980190.82	3.35 -202.60	0.00 12.89	-187.85
bc025	40 14.63	-108 59.49	5910.00	WY 879646.77	980190.70	3.60 -201.57	0.00 11.72	-187.74
bc028	40 15.15	-109 1.15	5800.00	WY 879651.56	980191.47	2.22 -197.92	0.00 5.40	-191.89
bc027	40 15.54	-109 1.78	5720.00	WY 879656.53	980192.05	1.49 -195.09	0.00 2.26	-192.82
bc028	40 16.41	-109 2.97	5604.00	WY 879661.35	980193.34	1.10 -191.14	0.00 -5.11	-186.81
bc029	40 16.78	-109 4.07	5589.00	WY 879656.45	980193.80	0.49 -190.62	0.00 -11.97	-203.57
bc030	40 16.98	-109 5.71	5440.00	WY 879659.75	980194.16	0.88 -185.54	0.00 -22.94	-208.05
bc031	40 17.07	-109 2.61	5355.00	WY 879662.61	980194.33	6.69 -182.84	0.00 -28.24	-205.64
bc032	40 17.82	-109 2.75	5630.00	WY 879658.64	980195.45	1.62 -192.02	0.00 -7.48	-199.35
bc033	40 17.06	-109 2.77	5600.00	WY 879660.84	980194.31	1.21 -191.00	0.00 -6.96	-188.22
bc034	40 17.73	-109 4.16	5560.00	WY 879657.97	980195.30	0.83 -189.64	0.00 -14.59	-204.86
bc035	40 17.61	-109 5.90	5450.00	WY 879663.15	980195.13	0.78 -185.88	0.00 -19.57	-206.12
bc036	40 18.16	-109 6.54	5425.00	WY 879664.44	980195.95	0.86 -185.03	0.00 -21.45	-207.07
bc037	40 18.64	-109 5.94	5490.00	WY 879660.41	980196.66	1.20 -187.25	0.00 -20.09	-207.60
bc038	40 18.94	-109 4.81	5560.00	WY 879659.08	980197.11	1.94 -189.64	0.00 -15.28	-204.44
bc039	40 19.36	-109 5.43	5600.00	WY 879654.96	980197.73	2.64 -191.00	0.00 -16.26	-206.09
bc040	40 16.06	-109 0.49	6288.00	WY 879624.01	980192.83	0.81 -214.47	0.00 22.35	-192.82
bc041	40 16.34	-109 0.20	6350.00	WY 879621.79	980193.23	0.81 -216.58	0.00 25.54	-191.74
bc042	40 15.69	-108 59.50	6280.00	WY 879623.69	980192.27	1.12 -214.19	0.00 21.83	-192.75
bc043	40 22.03	-108 57.14	7364.00	WY 879555.02	980201.70	1.40 -251.16	0.00 45.59	-205.68
bc044	40 22.03	-108 56.05	7250.00	WY 879563.27	980201.70	1.84 -247.28	0.00 43.13	-203.72
bc045	40 22.33	-108 54.46	7297.00	WY 879559.72	980202.16	1.36 -248.88	0.00 43.55	-205.48
bc047	40 18.95	-108 57.26	7255.00	WY 879561.20	980197.12	5.81 -247.45	0.00 46.11	-197.04
bc048	40 18.91	-108 57.57	7195.00	WY 879571.75	980197.06	4.21 -245.40	0.00 51.08	-191.62
bc049	40 18.77	-108 58.20	6955.00	WY 879584.96	980196.85	2.31 -237.22	0.00 41.95	-194.47
bc050	40 18.63	-108 58.42	6900.00	WY 879585.75	980196.65	2.28 -235.34	0.00 37.78	-196.78
bc051	40 18.46	-108 58.62	6760.00	WY 879593.62	980196.40	1.82 -230.56	0.00 32.75	-197.42
bc052	40 18.50	-108 58.97	6635.00	WY 879603.75	980196.45	1.80 -226.30	0.00 31.07	-194.85

S.W. Wyoming Bouguer Gravity Data
Benkey and Kulik, recalculated 1987
Meter used: var

STATION IDENTIFICATION proj sta-id	L D 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	
	LATITUDE deg min	LONGITUDE deg min	ELE (in ft)	ST OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV 2.67 g/cc	SPECIAL FREE AIR	COMPLETE-BOUGUER 2.67 g/cc
bc053	40 18.48	-108 59.36	6450.00	WY 979612.25	980196.42	1.94 -219.98	0.00 22.22	-197.35
bc054	40 18.40	-108 59.68	6230.00	WY 979627.13	980186.30	2.05 -212.48	0.00 16.54	-185.40
bc055	40 18.33	-108 59.97	6010.00	WY 979641.21	980196.20	3.16 -204.98	0.00 10.05	-193.27
bc056	40 18.30	-108 0.33	5840.00	WY 979644.25	980186.16	2.31 -202.60	0.00 6.56	-185.22
bc057	40 18.02	-109 0.89	5870.00	WY 979650.49	980195.73	1.58 -200.21	0.00 6.63	-183.48
bc058	40 18.07	-109 1.60	5770.00	WY 979653.32	980195.82	1.48 -196.90	0.00 -0.01	-196.81
bc059	40 17.98	-108 2.15	5725.00	WY 979655.11	980195.68	1.92 -195.26	0.00 -2.31	-187.14
bc060	40 14.03	-108 2.23	5890.00	WY 979636.08	980189.90	0.19 -204.30	0.00 9.44	-186.17
bc061	40 13.33	-108 2.43	5884.00	WY 979634.26	980188.77	0.14 -204.44	0.00 9.03	-186.78
bc062	40 13.42	-109 3.03	6054.00	WY 979627.74	980188.91	0.42 -206.48	0.00 8.02	-189.54
bc063	40 12.92	-109 3.43	6008.00	WY 979629.65	980188.16	0.31 -204.92	0.00 6.35	-199.76
bc064	40 12.30	-109 3.52	5849.00	WY 979631.76	980187.23	0.15 -202.90	0.00 3.83	-200.41
bc065	40 11.99	-109 4.08	5890.00	WY 979625.78	980186.77	0.30 -204.30	0.00 2.17	-203.33
bc066	40 12.48	-109 4.60	5800.00	WY 979630.89	980187.50	0.31 -201.23	0.00 -1.80	-204.32
bc067	40 11.78	-109 4.88	5875.00	WY 979624.80	980186.46	0.32 -203.79	0.00 0.09	-204.88
bc068	40 12.11	-108 5.13	6000.00	WY 979622.95	980186.95	0.48 -204.64	0.00 0.10	-205.56
bc069	40 11.82	-108 5.21	5930.00	WY 979627.43	980186.52	0.33 -202.26	0.00 -1.57	-204.99
bc070	40 11.72	-108 5.81	5810.00	WY 979627.34	980186.37	0.18 -201.57	0.00 -3.39	-206.27
bc071	40 11.88	-108 6.11	5835.00	WY 979624.88	980186.61	0.19 -202.43	0.00 -3.73	-207.46
bc072	40 11.65	-108 6.89	5870.00	WY 979628.87	980186.27	0.11 -200.21	0.00 -5.51	-207.10
bc073	40 17.91	-108 2.44	5670.00	WY 979656.74	980195.58	1.98 -193.39	0.00 -5.75	-198.63
bc074	40 14.34	-109 0.60	5858.00	WY 979649.26	980190.27	0.73 -199.80	0.00 9.75	-190.81
bc075	40 14.25	-108 1.30	5835.00	WY 979643.19	980190.13	0.29 -202.43	0.00 11.05	-182.58
bc076	40 14.22	-109 1.63	5890.00	WY 979637.99	980190.09	0.21 -204.30	0.00 11.07	-184.52
bc077	40 19.01	-108 55.36	8060.00	WY 979520.36	980197.21	4.69 -274.90	0.00 80.81	-190.87

BOUGUER GRAVITY DATA

page

S. W. Wyoming Gravity Data (Raymond Mountain BLM Wild)
 V. Banky and A. McCafferty, USGS, 1988
 20-551 elev=f qu=.01 srt=time a-f q-x Date: 13-JUL-1988 10:30:36.80

STATION IDENTIFICATION proj sta-id	L O C A T I O N S LATITUDE LONGITUDE deg min deg min	ELE (in ft)	G R A V I T Y ST OBSERVED THEORETICAL	TERRAIN BOUGUER CURV (d1=2.67)	C O R R E C T I O N S SPECIAL	A N O M A L I E S FREE COMPLETE-BOUGUER AIR d1=2.67 d2=2.70 FIELDS	SPEC
:kemmer	41 46.26 -110 32.58	7020.00	WY 979675.65	980327.48	0.26 -239.43 -1.52	0.00	-232.60 -235.30
:av01	41 34.17 -110 36.15	6616.00	WY 979686.69	980309.38	0.13 -225.65 -1.52	0.00	-227.76 -230.31
:av02	41 33.87 -110 39.36	6632.00	WY 979675.98	980308.93	0.45 -226.20 -1.52	0.00	-236.75 -239.30
:av03	41 34.47 -110 39.30	6664.00	WY 979675.14	980309.83	0.38 -227.29 -1.52	0.00	-236.63 -239.20
:av04	41 35.13 -110 40.42	6696.00	WY 979672.22	980310.81	0.56 -228.38 -1.52	0.00	-238.45 -241.02
:av05	41 35.78 -110 40.96	6744.00	WY 979672.68	980311.79	0.63 -230.02 -1.52	0.00	-236.02 -238.61
:av06	41 36.95 -110 42.36	6770.00	WY 979673.40	980313.54	0.57 -230.91 -1.52	0.00	-235.55 -238.16
:av07	41 34.91 -110 33.21	6550.00	WY 979698.50	980310.48	0.13 -223.40 -1.51	0.00	-221.00 -223.53
:av08e	41 36.52 -110 31.77	6950.00	WY 979676.33	980312.89	0.99 -237.04 -1.52	0.00	-220.78 -223.45
:av09	41 38.30 -110 30.92	7017.00	WY 979673.51	980315.56	0.23 -239.33 -1.52	0.00	-223.02 -225.73
:av10	41 38.45 -110 29.09	7030.00	WY 979675.11	980315.78	0.76 -239.77 -1.52	0.00	-220.33 -223.03
:av11	41 38.89 -110 28.35	6981.00	WY 979677.68	980316.45	0.88 -238.10 -1.52	0.00	-221.24 -223.92
:av12	41 38.47 -110 27.63	6936.00	WY 979679.68	980315.81	1.00 -236.57 -1.52	0.00	-221.18 -223.84
:av13	41 38.02 -110 27.05	6867.00	WY 979682.64	980315.14	0.26 -234.21 -1.52	0.00	-222.42 -225.06
:av14	41 36.51 -110 26.58	6756.00	WY 979687.06	980312.88	0.08 -230.43 -1.52	0.00	-222.56 -225.17
:av15	41 35.69 -110 25.50	6604.00	WY 979692.71	980311.65	0.00 -225.24 -1.52	0.00	-224.86 -227.40
:av16	41 35.69 -110 23.34	6440.00	WY 979698.57	980311.65	0.56 -219.65 -1.51	0.00	-228.25 -230.73
:av17	41 37.05 -110 21.85	6585.00	WY 979690.27	980313.69	-0.06 -224.60 -1.52	0.00	-230.53 -233.07
:av18	41 36.70 -110 21.15	6609.00	WY 979688.31	980313.16	-0.04 -225.41 -1.52	0.00	-230.51 -233.06
:av19	41 35.85 -110 20.06	6544.00	WY 979691.25	980311.89	-0.06 -223.20 -1.51	0.00	-230.21 -232.74
:av20	41 35.73 -110 18.37	6473.00	WY 979695.00	980311.71	0.28 -220.78 -1.51	0.00	-230.19 -232.68
:av21	41 34.77 -110 18.41	6444.00	WY 979695.70	980310.27	0.29 -219.79 -1.51	0.00	-229.77 -232.26
:av22	41 33.55 -110 18.70	6458.00	WY 979693.71	980308.45	-0.06 -220.26 -1.51	0.00	-229.45 -231.94
:av23	41 32.30 -110 18.73	6386.00	WY 979696.75	980306.58	0.04 -217.81 -1.51	0.00	-228.75 -231.21
:av24	41 32.57 -110 16.63	6362.00	WY 979697.68	980306.98	-0.01 -216.99 -1.51	0.00	-229.71 -232.17
:av25	41 32.40 -110 15.39	6350.00	WY 979697.63	980306.73	0.07 -216.58 -1.51	0.00	-230.14 -232.59
:av26	41 32.56 -110 13.30	6339.00	WY 979697.37	980306.97	-0.02 -216.21 -1.51	0.00	-231.40 -233.84
:av27	41 33.32 -110 11.10	6350.00	WY 979697.15	980308.10	-0.03 -216.58 -1.51	0.00	-232.10 -234.55
:av28	41 33.83 -110 9.12	6319.00	WY 979697.14	980308.87	0.04 -215.52 -1.51	0.00	-234.66 -237.10
:av29	41 34.17 -110 6.69	6324.00	WY 979697.01	980309.38	0.05 -215.69 -1.51	0.00	-234.99 -237.43
:av30	41 33.90 -110 4.86	6331.00	WY 979696.36	980308.97	-0.12 -215.93 -1.51	0.00	-234.98 -237.43
:kemmer	41 46.26 -110 32.58	7020.00	WY 979675.65	980327.48	0.26 -239.43 -1.52	0.00	-232.60 -235.30
:kemmer	41 46.26 -110 32.58	7020.00	WY 979675.65	980327.48	0.26 -239.43 -1.52	0.00	-232.60 -235.30
:opal	41 55.96 -110 16.34	6765.00	WY 979697.00	980342.02	0.02 -230.73 -1.52	0.00	-241.28 -243.89
:av31	41 58.17 -110 12.59	6582.00	WY 979713.56	980345.34	-0.05 -224.49 -1.52	0.00	-239.06 -241.60
:av32	41 59.04 -110 11.23	6544.00	WY 979716.76	980346.64	-0.04 -223.20 -1.51	0.00	-239.44 -241.96
:av33	42 5.27 -110 9.25	6515.00	WY 979728.85	980355.98	0.07 -222.21 -1.51	0.00	-238.31 -240.82
:av34	42 6.32 -110 8.34	6519.00	WY 979730.15	980357.55	0.23 -222.34 -1.51	0.00	-238.19 -240.70
:av35	42 7.23 -110 10.88	6514.00	WY 979733.51	980358.92	0.87 -222.17 -1.51	0.00	-235.86 -238.36
:av36	42 9.03 -110 11.14	6520.00	WY 979737.12	980361.63	0.19 -222.38 -1.51	0.00	-235.27 -237.78

S. W. Wyoming Gravity Data (Raymond Mountain PLM Wild)

V. Bankey and A. McCafferty, USGS, 1988

2q-551 elev=f qu=.01 src=me a-x Date: 13-JUL-1988 10:30:40.41

STATION IDENTIFICATION proj sta-id	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	
	LATITUDE deg min	LONGITUDE deg min	ELE (in ft)	ST OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV (d1=2.67)	FREF AIR	COMPLETE-BOUGUER SPEC d1=2.67 d2=2.70 FIELDS
:av37	42 10.64	-110 11.17	6529.00	WV 979738.44	980364.04	0.41 -222.69 -1.51	0.00	-11.82 -235.61 -238.12
:av38	42 12.22	-110 10.82	6596.00	WV 979736.04	980366.41	0.34 -224.97 -1.52	0.00	-10.29 -236.43 -238.97
:av39	42 13.68	-110 11.49	6604.00	WV 979738.40	980368.60	0.17 -225.24 -1.52	0.00	-9.37 -235.96 -238.51
:av40	42 14.56	-110 11.63	6581.00	WV 979741.41	980369.92	0.23 -224.46 -1.52	0.00	-9.85 -235.59 -238.13
:av41	42 16.77	-110 11.61	6607.00	WV 979742.75	980373.23	0.36 -225.35 -1.52	0.00	-9.37 -235.87 -238.42
:av42	42 18.18	-110 11.09	6625.00	WV 979742.35	980375.35	0.36 -225.96 -1.52	0.00	-10.20 -237.31 -239.86
:av43	42 19.57	-110 10.36	6664.00	WV 979740.99	980377.44	0.27 -227.29 -1.52	0.00	-9.98 -238.51 -241.08
:av44	42 19.95	-110 12.00	6768.00	WV 979736.95	980378.01	0.41 -230.84 -1.52	0.00	-4.82 -236.76 -239.37
:av45	42 20.62	-110 13.03	6864.00	WV 979732.85	980379.02	0.92 -234.11 -1.52	0.00	-0.90 -235.61 -238.25
:av46	42 20.37	-110 13.98	7107.00	WV 979718.71	980378.64	0.98 -242.40 -1.51	0.00	8.16 -234.77 -237.50
:av47	42 19.63	-110 14.59	7395.00	WV 979700.15	980377.53	1.34 -252.22 -1.51	0.00	17.77 -234.62 -237.46
:av48	42 20.59	-110 16.45	7990.00	WV 979662.60	980378.97	5.53 -272.52 -1.47	0.00	34.68 -233.77 -236.79
:av49	42 21.20	-110 18.36	7519.00	WV 979703.27	980379.89	2.56 -256.45 -1.50	0.00	30.18 -225.21 -228.08
:av50	42 20.96	-110 20.57	7718.00	WV 979700.80	980379.53	1.37 -263.24 -1.49	0.00	46.76 -216.60 -219.55
:av51	42 22.66	-110 17.06	7270.00	WV 979714.18	980382.08	1.74 -247.96 -1.51	0.00	15.51 -232.22 -235.00
:av52	42 26.72	-110 17.41	7385.00	WV 979707.16	980388.18	0.59 -251.88 -1.51	0.00	13.19 -239.61 -242.45
:av53	42 28.41	-110 16.59	7531.00	WV 979698.04	980390.72	0.95 -256.86 -1.50	0.00	15.25 -242.16 -245.06
:av54	42 29.16	-110 11.83	7159.00	WV 979717.44	980391.84	0.24 -244.17 -1.51	0.00	-1.43 -246.88 -249.63
:av55	42 28.85	-110 9.24	7022.00	WV 979722.93	980391.38	0.32 -239.50 -1.52	0.00	-8.34 -249.04 -251.74
:av56	42 29.80	-110 6.27	6824.00	WV 979731.75	980392.80	0.10 -232.75 -1.52	0.00	-19.56 -253.72 -256.35
:av57	42 28.61	-110 5.27	6775.00	WV 979733.61	980391.02	0.11 -231.08 -1.52	0.00	-20.51 -252.99 -255.61
:av58	42 27.09	-110 5.37	6754.00	WV 979734.11	980388.73	0.11 -230.36 -1.52	0.00	-19.70 -251.47 -254.07
:av59	42 25.08	-110 6.78	6726.00	WV 979737.23	980385.71	0.14 -229.40 -1.52	0.00	-16.19 -246.97 -249.57
:av60	42 23.83	-110 7.44	6732.00	WV 979737.03	980383.84	0.24 -229.61 -1.52	0.00	-13.95 -244.83 -247.43
:av61	42 22.30	-110 8.85	6719.00	WV 979738.28	980381.54	0.29 -229.17 -1.52	0.00	-11.62 -242.02 -244.60
:av62	42 16.55	-110 10.40	6590.00	WV 979741.23	980372.91	0.86 -224.77 -1.52	0.00	-12.16 -237.59 -240.12
:av63	42 17.84	-110 9.39	6653.00	WV 979738.52	980374.84	0.54 -226.91 -1.52	0.00	-10.89 -238.78 -241.34
:av64	42 16.05	-110 8.29	7380.00	WV 979687.09	980372.16	1.51 -251.71 -1.51	0.00	8.68 -243.03 -245.85
:av65	42 16.30	-110 4.90	7290.00	WV 979690.48	980372.53	0.43 -248.64 -1.51	0.00	3.23 -246.49 -249.29
:av66	42 16.87	-110 3.00	7295.00	WV 979689.52	980373.39	0.31 -248.81 -1.51	0.00	1.89 -248.12 -250.93
:av67	42 1.45	-110 7.12	6670.00	WV 979711.46	980350.25	0.00 -227.49 -1.52	0.00	-11.75 -240.76 -243.34
:av68	42 1.45	-110 4.79	6602.00	WV 979715.25	980350.25	-0.07 -225.18 -1.52	0.00	-14.35 -241.11 -243.66
:av69	41 59.95	-110 4.11	6535.00	WV 979717.78	980348.00	0.01 -222.89 -1.51	0.00	-15.87 -240.26 -242.78
:av70	41 58.39	-110 4.75	6603.00	WV 979711.63	980345.66	-0.10 -225.21 -1.52	0.00	-13.29 -240.12 -242.66
:av71	41 57.76	-110 6.82	6556.00	WV 979714.10	980344.72	-0.11 -223.61 -1.52	0.00	-14.29 -239.52 -242.05
:av72	41 57.81	-110 8.52	6504.00	WV 979717.83	980344.79	-0.08 -221.83 -1.51	0.00	-15.52 -238.95 -241.46
:total	41 55.96	-110 16.34	6765.00	WV 979697.00	980342.02	0.02 -230.73 -1.52	0.00	-9.05 -241.28 -243.89
:kemmer	41 46.26	-110 32.58	7020.00	WV 979675.65	980327.48	0.26 -239.43 -1.52	0.00	8.09 -232.60 -235.30
:kemmer	41 46.26	-110 32.58	7020.00	WV 979675.65	980327.48	0.26 -239.43 -1.52	0.00	8.09 -232.60 -235.30
:cokevil11	42 5.03	-110 56.86	6187.00	WV 979757.52	980355.62	0.64 -211.02 -1.50	0.00	-16.44 -228.33 -230.71

BOUGUER GRAVITY DATA

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S. W. Wyoming Gravity Data (Raymond Mountain PLM Wild)
V. Rankey and A. McCafferty, USGS, 1988
2a-551 elev=f gu=.01 srt=time a-f q-x Date: 13-JUL-1988 10:30:43.27

STATION IDENTIFICATION proj sta-id	L O C A T I O N		T I M E		G R A V I T Y		T E R R A I N		C O R R E C T I O N S		F R E E		A N C M A L I E S	
	deg	min	deg	min	ELE (in ft)	ST OBSERVED	THEORETICAL	TERRAIN BOUGUER CURV (d1=2.67)	SPECIAL	AIR	COMPLETE-BOUGUER	SPEC	d1=2.67	d2=2.70
:rm01	42	7.00	-110	57.52	6182.00	WV 979764.98	980358.58	0.79	-210.85	-1.50	0.00	-12.42	-223.99	-226.36
:rm02	42	8.75	-110	58.54	6129.00	WV 979774.63	980361.20	1.72	-209.04	-1.50	0.00	-10.37	-219.20	-221.54
:rm03	42	10.31	-110	59.73	6126.00	WV 979770.37	980363.54	2.03	-208.94	-1.50	0.00	-17.26	-225.67	-228.01
:rm04	42	12.69	-111	4.82	6069.00	WV 979787.64	980367.11	0.74	-207.00	-1.50	0.00	-8.91	-216.67	-219.00
:rm05	42	12.70	-111	6.53	6335.00	WV 979771.01	980367.13	0.48	-216.07	-1.51	0.00	-0.56	-217.66	-220.10
:rm06	42	12.12	-111	3.13	6061.00	WV 979786.79	980366.26	0.88	-206.72	-1.50	0.00	-9.66	-217.00	-219.33
:rm07	42	14.09	-111	2.50	6109.00	WV 979783.63	980369.21	2.07	-208.36	-1.50	0.00	-11.26	-219.05	-221.39
:rm08	42	15.60	-111	2.53	6166.00	WV 979781.49	980371.48	2.08	-210.30	-1.50	0.00	-10.32	-220.05	-222.40
:rm09	42	17.13	-111	2.80	6174.00	WV 979785.00	980373.77	1.55	-210.58	-1.50	0.00	-8.35	-218.88	-221.25
:rm10	42	18.89	-111	2.98	6207.00	WV 979786.24	980376.42	1.45	-211.70	-1.51	0.00	-6.65	-218.41	-220.79
:rm11	42	20.20	-111	2.78	6221.00	WV 979788.59	980378.38	1.76	-212.18	-1.51	0.00	-4.95	-216.88	-219.26
:rm12	42	21.54	-111	2.94	6202.00	WV 979792.42	980380.40	1.66	-211.53	-1.51	0.00	-4.92	-216.30	-218.67
:rm13	42	23.25	-111	3.14	6231.00	WV 979794.58	980382.97	2.22	-212.52	-1.51	0.00	-2.61	-214.42	-216.80
:rm14	42	24.00	-111	0.75	6322.00	WV 979787.18	980384.09	3.66	-215.63	-1.51	0.00	-2.58	-216.06	-218.46
:rm15	42	24.09	-110	59.39	6352.00	WV 979780.98	980384.23	2.41	-216.65	-1.51	0.00	-6.10	-221.85	-224.27
:rm16	42	23.74	-110	58.80	6364.00	WV 979776.32	980383.70	2.63	-217.06	-1.51	0.00	-9.11	-225.04	-227.47
:rm17	42	23.45	-110	57.79	6450.00	WV 979766.63	980383.27	2.32	-219.99	-1.51	0.00	-10.27	-229.46	-231.92
:rm18	42	23.36	-110	56.53	6467.00	WV 979771.39	980383.13	2.76	-220.57	-1.51	0.00	-3.79	-223.11	-225.58
:rm19	42	22.99	-110	55.71	6533.00	WV 979768.52	980382.58	2.26	-222.82	-1.51	0.00	0.10	-221.97	-224.47
:rm20	42	22.24	-110	56.41	7454.00	WV 979708.80	980381.45	3.43	-254.23	-1.50	0.00	28.04	-224.26	-227.10
:rm21	42	20.94	-110	56.57	7514.00	WV 979706.03	980379.50	2.90	-256.28	-1.50	0.00	32.86	-222.02	-224.88
:rm22	42	20.18	-110	57.60	7464.00	WV 979707.81	980378.36	2.79	-254.58	-1.50	0.00	31.09	-222.20	-225.05
:rm23	42	18.98	-110	57.83	7682.00	WV 979691.37	980376.55	4.57	-262.01	-1.49	0.00	36.93	-222.00	-224.91
:rm24	42	17.97	-110	57.22	8058.00	WV 979663.61	980375.04	5.05	-276.20	-1.46	0.00	49.77	-222.84	-225.91
:rm25e	42	16.91	-110	56.74	8100.00	WV 979654.06	980373.45	4.05	-276.27	-1.46	0.00	42.00	-231.68	-234.75
:rm26	42	15.07	-110	57.91	8108.00	WV 979657.74	980370.69	6.63	-276.54	-1.46	0.00	49.19	-222.18	-225.23
:rm27	42	14.63	-110	57.75	8227.00	WV 979650.71	980370.02	9.00	-280.60	-1.45	0.00	54.00	-219.04	-222.11
:rm28	42	13.50	-110	56.75	7595.00	WV 979690.14	980368.33	3.68	-259.04	-1.50	0.00	35.76	-221.10	-223.99
:rm29	42	11.92	-110	55.53	6705.00	WV 979740.70	980365.96	1.76	-228.69	-1.52	0.00	5.06	-223.38	-225.95
:rm30	42	11.88	-110	54.62	6639.00	WV 979744.70	980365.90	1.12	-226.44	-1.52	0.00	2.92	-223.91	-226.46
:rm31	42	9.62	-110	54.28	6452.00	WV 979751.63	980362.51	1.85	-220.06	-1.51	0.00	-4.33	-224.05	-226.52
:rm32e	42	8.29	-110	55.07	6706.00	WV 979736.78	980360.51	0.80	-228.72	-1.52	0.00	6.69	-222.75	-225.33
:rm33	42	7.67	-110	55.25	6586.00	WV 979741.96	980359.58	0.91	-224.63	-1.52	0.00	1.52	-223.71	-226.24
:rm34	42	6.13	-110	54.24	6330.00	WV 979755.16	980357.27	0.81	-215.90	-1.51	0.00	-7.03	-223.63	-226.06
:rm35	42	6.19	-110	52.59	6474.00	WV 979744.09	980357.36	1.05	-220.81	-1.51	0.00	-4.65	-225.92	-228.41
:rm36	42	6.15	-110	51.23	6635.00	WV 979739.33	980357.30	1.95	-226.30	-1.52	0.00	5.78	-220.09	-222.63
:rm37	42	6.24	-110	49.70	6845.00	WV 979729.02	980357.44	4.11	-233.46	-1.52	0.00	15.06	-215.81	-218.40
:rm38	42	8.03	-110	53.08	6408.00	WV 979753.30	980360.12	1.16	-218.56	-1.51	0.00	-4.41	-223.32	-225.78
:rm39	42	9.64	-110	52.77	6475.00	WV 979747.63	980362.54	1.32	-220.84	-1.51	0.00	-6.20	-227.23	-229.72
:rm40	42	10.98	-110	52.64	6510.00	WV 979753.60	980364.55	1.23	-222.04	-1.51	0.00	1.05	-221.27	-223.77

BOUGUFR GRAVITY DATA

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S. W. Wyoming Gravity Data (Raymond Mountain BLM Wild)
 V. Banker and A. McCafferty, USGS, 1988
 2q-551 elevzf qu=.01 strtme a-f g-x Date: 13-JUL-1988 10:30:45.98

STATION IDENTIFICATION proj sta-id	L O C A T I O N S LATITUDE LONGITUDE deg min deg min	ELE (in ft)	ST OBSERVED	G R A V I T Y THEORETICAL	TERRAIN BOUGUER CURV (d1=2.67)	C O P R E C T I O N S SPECIAL	FREE AIP	A N O M A L I E S COMPLETE-BOUGUER SPEC d1=2.67 d2=2.70 FIELDS
rav41	42 12.95 -110 52.37	6537.00	WV 979757.27	980367.50	1.63 -222.96 -1.51	0.00	4.31	-218.53 -221.04
icokev111	42 5.03 -110 56.86	6187.00	WV 979757.52	980355.62	0.64 -211.02 -1.50	0.00	-16.44	-228.33 -230.71
icokev111	42 5.03 -110 56.86	6187.00	WV 979757.52	980355.62	0.64 -211.02 -1.50	0.00	-16.44	-228.33 -230.71
rav73	42 4.20 -110 56.55	6202.00	WV 979754.59	980354.38	0.56 -211.53 -1.51	0.00	-16.72	-229.20 -231.59
rav74	42 2.04 -110 55.90	6195.00	WV 979753.00	980351.13	0.55 -211.29 -1.50	0.00	-15.73	-227.98 -230.36
rav75	42 0.05 -110 56.19	6193.00	WV 979752.21	980348.15	0.56 -211.23 -1.50	0.00	-13.72	-225.89 -228.28
rav76	41 57.28 -110 56.85	6199.00	WV 979750.34	980344.00	0.41 -211.43 -1.51	0.00	-10.88	-223.40 -225.79
rav77	41 55.71 -110 57.24	6226.00	WV 979744.45	980341.64	0.36 -212.35 -1.51	0.00	-11.87	-225.37 -227.77
rav78	41 53.92 -110 57.50	6217.00	WV 979742.13	980338.96	0.77 -212.04 -1.51	0.00	-12.36	-225.14 -227.53
rav79	41 51.61 -110 58.21	6225.00	WV 979734.78	980335.50	1.36 -212.32 -1.51	0.00	-15.50	-227.96 -230.35
rav80	41 47.26 -110 41.49	6866.00	WV 979679.36	980328.98	0.39 -234.18 -1.52	0.00	-4.16	-239.47 -242.11
rav81	41 46.01 -110 41.42	6912.00	WV 979676.02	980327.11	0.31 -235.75 -1.52	0.00	-1.31	-238.26 -240.92
rav82	41 44.41 -110 41.35	6889.00	WV 979675.59	980324.71	0.55 -234.96 -1.52	0.00	-1.50	-237.43 -240.08
rav83	41 48.58 -110 41.09	6755.00	WV 979688.16	980330.96	0.32 -230.39 -1.52	0.00	-7.78	-239.37 -241.97
skemmer	41 46.26 -110 32.58	7020.00	WV 979675.65	980327.48	0.76 -239.43 -1.52	0.00	8.09	-232.60 -235.30
rav84	41 51.02 -110 33.68	6990.00	WV 979680.25	980334.62	0.36 -238.41 -1.52	0.00	2.74	-236.83 -239.52
rav85	41 52.42 -110 34.69	7034.00	WV 979675.85	980336.71	0.39 -239.91 -1.52	0.00	0.38	-240.65 -243.36
rav86	41 53.38 -110 36.78	7156.00	WV 979663.85	980338.15	0.39 -244.07 -1.51	0.00	-1.59	-246.79 -249.54
rav87	41 55.31 -110 37.61	7203.00	WV 979671.32	980341.05	0.85 -245.67 -1.51	0.00	7.39	-238.94 -241.71
rav88	41 58.15 -110 38.87	7391.00	WV 979664.60	980345.30	0.61 -252.09 -1.51	0.00	14.08	-238.90 -241.75
rav89	41 59.96 -110 39.29	7305.00	WV 979674.47	980348.02	0.77 -249.15 -1.51	0.00	13.15	-236.74 -239.55
skemmer	41 46.26 -110 32.58	7020.00	WV 979675.65	980327.48	0.26 -239.43 -1.52	0.00	8.09	-232.60 -235.30
rav90	41 32.61 -109 48.42	6276.00	WV 979692.79	980307.04	0.41 -214.06 -1.51	0.00	-24.23	-239.38 -241.80
rav91	41 34.90 -109 48.72	6391.00	WV 979690.05	980310.47	0.01 -217.98 -1.51	0.00	-19.60	-239.08 -241.54
rav92e	41 36.95 -109 49.15	6290.00	WV 979701.37	980313.54	-0.06 -214.53 -1.51	0.00	-20.84	-236.94 -239.37
rav93	41 36.33 -109 49.60	6337.00	WV 979696.81	980312.61	0.10 -216.14 -1.51	0.00	-20.05	-237.59 -240.04
rav94	41 35.06 -109 46.08	6319.00	WV 979693.63	980310.71	0.05 -215.52 -1.51	0.00	-23.02	-240.00 -242.44
rav95	41 32.62 -109 45.04	6273.00	WV 979690.98	980307.05	-0.02 -213.95 -1.51	0.00	-26.34	-241.82 -244.24

Appendix B: Description of data format used for 2 files on diskette

File 1 (wyousgs.asc) contains data for 616 stations listed in Appendix A collected by the USGS.

File 2 (wyodod.asc) contains data for 3,804 stations selected from the DMA data base for this area.

The 5 1/4 in, low-density (360 K bytes) diskette in IBM-AT format contains two data files, in a format different from Appendix A, as follows:

A9, 2F9.4, F8.2, F9.2, 3F8.2, F11.3

and the fields are:

col. 1-9: station identification
col. 10-18: longitude in degrees, decimal degrees, positive West.
col. 19-27: latitude in degrees, decimal degrees
col. 28-35: Free air anomaly (mGals)
col. 36-44: Complete Bouguer anomaly, reduction density 2.67 g/cm^3 (mGals)
col. 45-52: Elevation (feet)
col. 53-60: Inner terrain correction from 0 - .895 km (mGal)
col. 61-68: Outer terrain correction from .895 - 166.7 km (mGal)
col. 69-79: Observed gravity minus 980,000 mGals (mGal)

First line from file 1:

Kemner	110.5430	41.7710	8.09	-232.60	7020.00	0.06	0.20	-324.352
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