

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

by

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

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Introduction

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, 548 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 Uintah Counties, Utah. The gravity study area covers approximately 28,000 sq. mi (45,000 sq km) (fig. 1). This report presents the principal facts for these 548 new stations and includes a complete Bouguer gravity anomaly map (plate 1), which was compiled from these and 3,205 additional stations.

Data Collection

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 at Rock Springs, which is part of the International Gravity Standardization Net (IGSN-71). This base, located in a unused storage room in an often-locked fire station, is so difficult to occupy that we recommend using the Nomad base set at the Nomad Motel in Rock Springs (Appendix A). Additional bases were set by the USGS and tied to the primary base, and their descriptions are found in Appendices A-C. Gravity loops were started and closed daily by making repeat observations at the secondary bases. Access was by ground traverses into the roadless areas and by vehicle along highways and secondary roads outside of the roadless areas.

Elevation Control

The Bouguer gravity anomaly map contains stations between lat. $40^{\circ}30'$ - $42^{\circ}30'$ N and long. $107^{\circ}0'$ - $111^{\circ}0'$ W. Additional stations (labelled 'bc') were collected between lat. $40^{\circ}0'$ and $40^{\circ}30'$ N and long. $108^{\circ}45'$ and $109^{\circ}30'$ W. These 'bc' stations are listed in Appendix A but are not included in the Bouguer 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 three ft (one m). At a density of 2.67 g/cm^3 , this elevation uncertainty translates to a maximum uncertainty in the Bouguer anomaly value of 0.18 mGals.

However, errors in the estimation of terrain corrections give rise to the greatest uncertainty in Bouguer values. Computer-generated terrain corrections in mountainous areas like southwest 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. Webring and 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, 1967).

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 radius 166.7 km (103.4 mi) away using 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 D.

A grid based on the Bouguer anomaly values was formed with a 2.0 km (1.2 mi) grid spacing using program "MINC" (Webring, 1981). "MINC" forms a surface of minimum curvature (Briggs, 1974) through existing data points. Computer-plotted contour maps of the gridded data were produced using program "CONTOUR" (Godson and Webring, 1982), which uses a linear-interpolation technique for positioning contours, with optional contour smoothing using splines under tension. The contour maps produced for this report make use of the smoothing option with a spline factor of 1.5.

References

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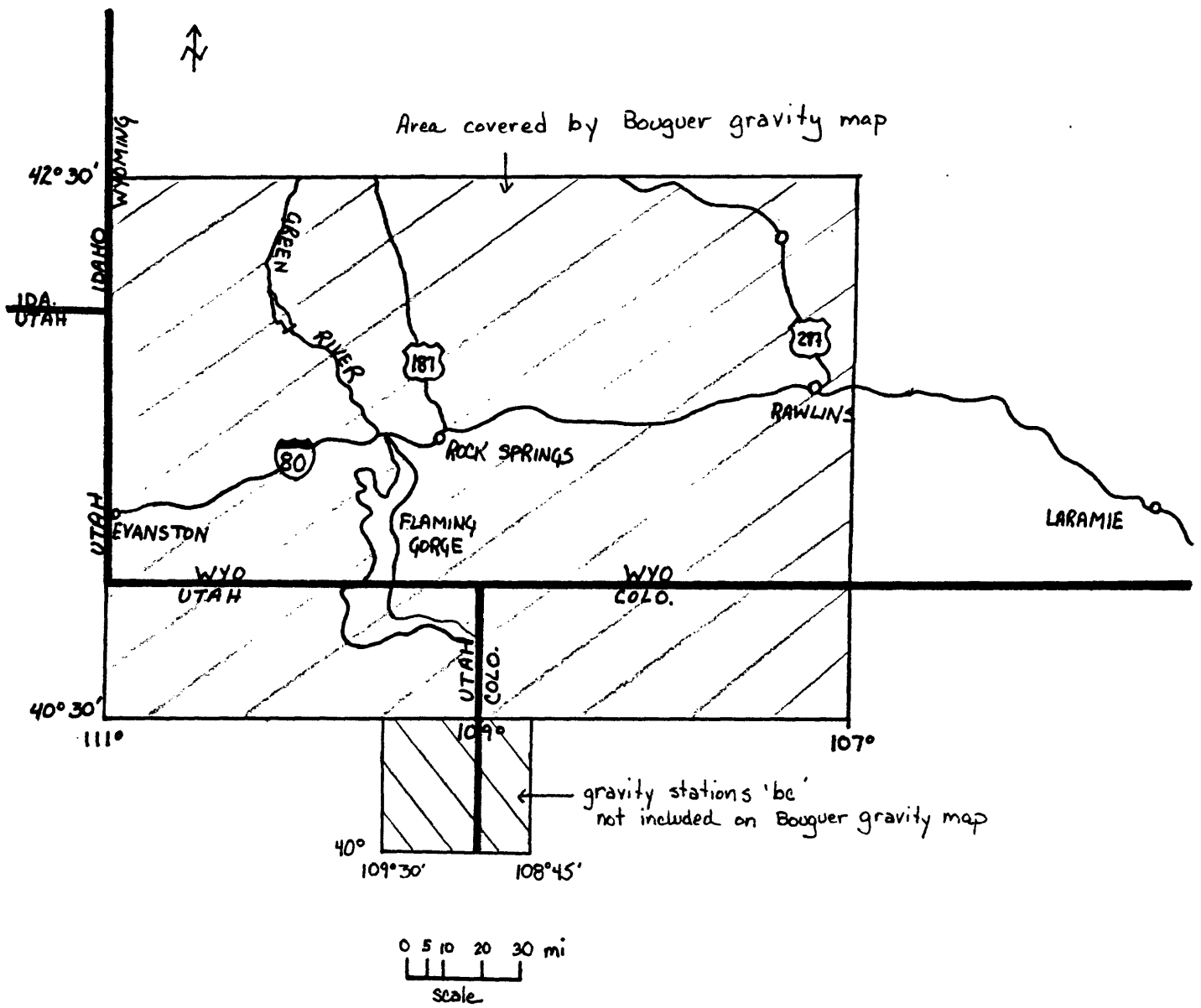


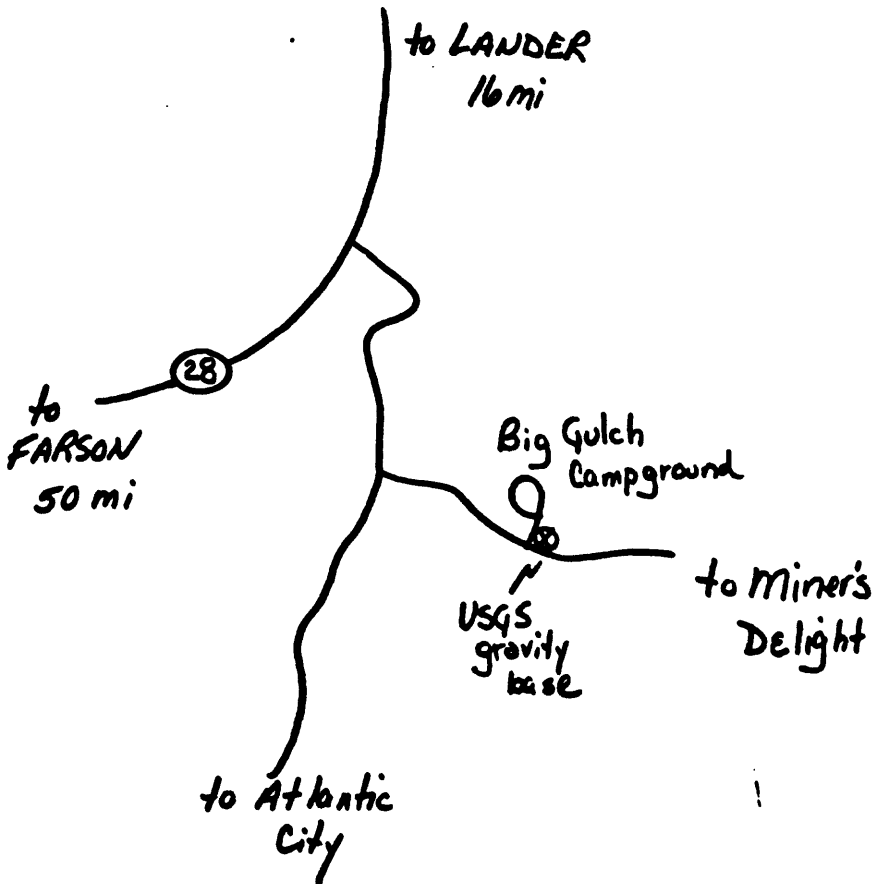
Figure 1--Map showing the location of the gravity study area

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.

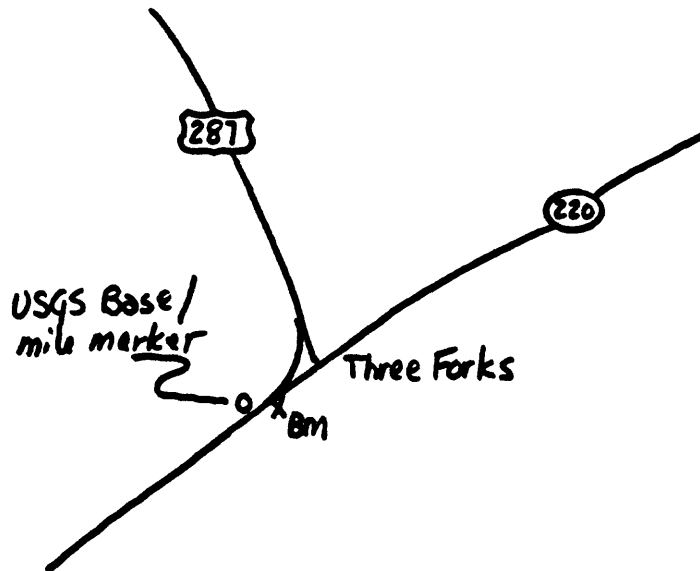


GRAVITY BASE STATION
U.S. GEOLOGICAL SURVEY

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
	(tid 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.

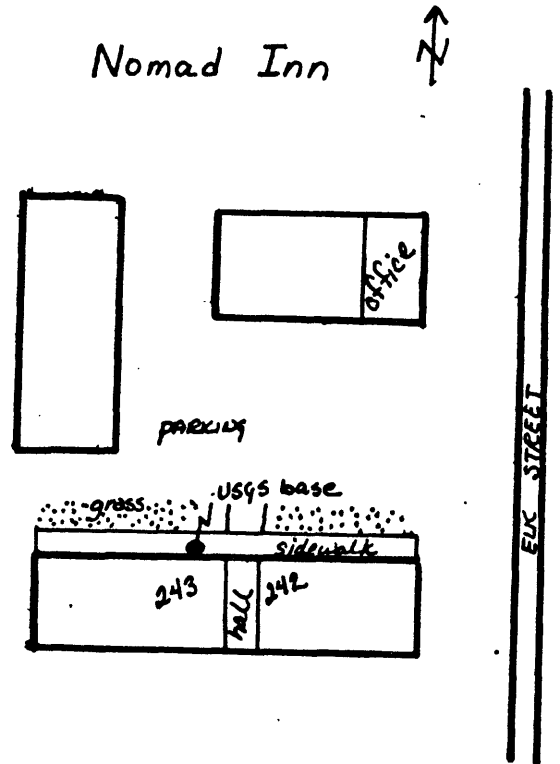
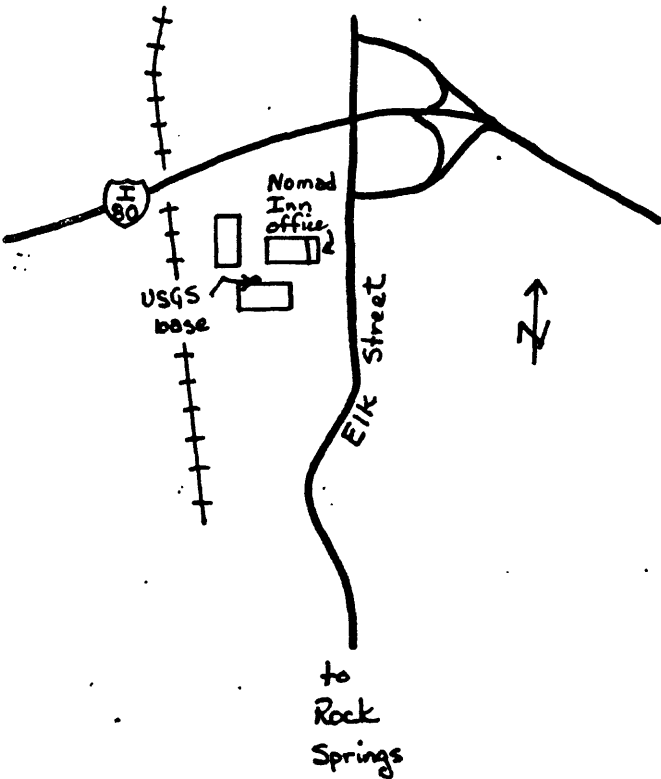


U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION

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.



Appendix D: 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 .

BOUGUER GRAVITY DATA

S. W. Wyoming Bouguer Gravity Data
 Bankey and Kulik 1982-84
 Meter used: var

STATION IDENTIFICATION	L O C A T I O N S	ELE	G R A V I T Y	C O R R E C T I O N S	TERRAIN BOUGUER CURV	SPECIAL	A N O M A L I E S
Sta-id	deg min deg min	(in ft)	ST OBSERVED THEORETICAL	2.67 g/cc	2.67 g/cc	FREE COMPLETE-BOUGUER	2.67 g/cc
SW001	42 29.78 -108 43.78	7684.00	WV 979750.82	980392.77	1.82 -262.08 -1.49	0.00	80.35 -181.40
SW002	42 28.66 -108 42.75	7825.00	WV 979737.14	980391.09	1.06 -266.89 -1.48	0.00	81.59 -185.72
SW003	42 27.50 -108 41.57	7655.00	WV 979739.62	980389.34	0.80 -261.09 -1.49	0.00	69.84 -191.94
SW004	42 26.44 -108 40.20	7512.00	WV 979744.11	980387.76	0.90 -256.21 -1.50	0.00	62.49 -194.32
SW005	42 25.62 -108 39.16	7380.00	WV 979750.40	980386.52	0.53 -251.71 -1.51	0.00	57.61 -195.07
SW006	42 24.48 -108 38.85	7395.00	WV 979744.48	980384.81	0.50 -252.22 -1.51	0.00	54.81 -198.41
SW007	42 23.70 -108 37.60	7260.00	WV 979747.01	980383.64	0.43 -247.62 -1.51	0.00	45.83 -202.86
SW008	42 22.86 -108 36.78	7296.00	WV 979740.86	980382.38	0.42 -248.85 -1.51	0.00	44.33 -205.61
SW009	42 21.71 -108 36.62	7288.00	WV 979738.48	980380.65	0.73 -248.57 -1.51	0.00	42.92 -206.43
SW010	42 23.04 -108 34.38	7302.00	WV 979743.55	980382.65	0.44 -249.05 -1.51	0.00	47.31 -202.81
SW011	42 22.19 -108 36.72	7255.00	WV 979739.32	980381.37	0.58 -247.45 -1.51	0.00	39.94 -208.44
SW012	42 22.45 -108 32.33	7513.00	WV 979728.79	980381.77	0.61 -256.25 -1.50	0.00	53.26 -203.88
SW013	42 21.43 -108 31.55	7524.00	WV 979723.47	980380.23	0.66 -256.62 -1.50	0.00	50.50 -206.96
SW014	42 20.53 -108 30.90	7487.00	WV 979721.44	980378.88	0.68 -255.36 -1.50	0.00	46.35 -209.83
SW015	42 17.94 -108 27.10	7223.00	WV 979724.72	980374.99	0.33 -246.36 -1.51	0.00	28.72 -218.82
SW016	42 18.65 -108 28.55	7187.00	WV 979726.73	980376.05	0.33 -245.13 -1.51	0.00	26.27 -220.04
SW017	42 17.15 -108 27.85	7087.00	WV 979721.79	980373.80	0.54 -241.72 -1.51	0.00	14.20 -228.49
SW018	42 16.16 -108 28.60	7045.00	WV 979710.48	980372.32	0.29 -240.28 -1.51	0.00	0.42 -241.09
SW019	42 15.79 -108 30.20	7123.00	WV 979698.86	980371.77	0.30 -242.95 -1.51	0.00	-3.31 -247.47
SW020	42 15.98 -108 31.50	7105.00	WV 979704.57	980372.05	0.44 -242.33 -1.51	0.00	0.42 -242.98
SW021	42 19.26 -108 26.40	7336.00	WV 979720.48	980376.98	0.47 -250.21 -1.51	0.00	33.11 -218.14
SW022	42 20.16 -108 26.15	7174.00	WV 979732.69	980378.33	0.57 -244.68 -1.51	0.00	28.75 -216.88
SW023	42 21.22 -108 25.65	7276.00	WV 979730.71	980379.92	0.51 -248.16 -1.51	0.00	34.77 -214.40
SW024	42 20.88 -108 28.45	7400.00	WV 979724.32	980379.41	0.44 -252.39 -1.51	0.00	40.53 -212.92
SW025	42 12.56 -109 13.42	6842.00	WV 979700.57	980366.91	0.06 -233.36 -1.52	0.00	-23.16 -257.97
SW026	42 11.83 -109 12.62	6813.00	WV 979702.08	980365.83	0.04 -232.37 -1.52	0.00	-23.27 -257.12
SW027	42 11.36 -109 9.88	6912.00	WV 979696.42	980365.12	0.11 -235.75 -1.52	0.00	-18.92 -256.08
SW028	42 10.36 -109 5.37	7400.00	WV 979666.07	980363.62	0.49 -252.33 -1.51	0.00	-1.92 -255.33
SW029	42 10.00 -109 3.60	7709.00	WV 979646.39	980363.08	1.66 -262.93 -1.49	0.00	7.97 -254.79
SW030	42 8.81 -109 1.02	7494.00	WV 979661.60	980361.29	0.57 -255.60 -1.50	0.00	4.77 -251.76
SW031	42 8.26 -108 58.64	7160.00	WV 979685.25	980360.47	0.33 -244.21 -1.51	0.00	-2.14 -247.53
SW032	42 7.59 -108 55.98	7596.00	WV 979657.69	980359.94	1.98 -259.08 -1.50	0.00	12.27 -246.33
SW033	42 7.61 -108 52.90	7537.00	WV 979666.18	980359.48	0.58 -257.07 -1.50	0.00	15.18 -242.80
SW034	42 6.84 -108 50.16	7506.00	WV 979668.08	980358.34	0.94 -256.01 -1.50	0.00	15.33 -241.24
SW035	42 5.01 -108 46.62	7220.00	WV 979684.78	980355.59	0.27 -246.25 -1.51	0.00	7.90 -239.59
SW036	42 4.87 -108 45.08	7199.00	WV 979684.90	980355.38	0.28 -245.54 -1.51	0.00	6.26 -240.51
SW037	42 5.54 -108 43.40	7154.00	WV 979690.80	980356.38	0.27 -244.00 -1.51	0.00	6.93 -238.32
SW038	42 5.49 -108 40.40	7138.00	WV 979690.21	980356.31	0.56 -243.46 -1.51	0.00	4.91 -239.50
SW039	42 6.58 -108 40.20	6970.00	WV 979702.82	980357.95	0.16 -237.73 -1.52	0.00	0.10 -238.98
SW040	42 7.54 -108 39.80	6896.00	WV 979704.28	980359.39	0.12 -235.20 -1.52	0.00	-6.83 -243.43

BOUGUER GRAVITY DATA

S. W. Wyoming Bouguer Gravity Data
 Bankey and Kulik 1982-84
 Meter used: var

STATION IDENTIFICATION	L U C A T I O N S	ELE	G R A V I T Y	C O R R E C T I O N S	TERRAIN	BOUGUER	CURV	SPECIAL	A N O M A L I E S	COMPLETE-BOUGUER
sta-1d	deg min deg min	(in ft)	ST OBSERVED	THEORETICAL	2.67 g/cc	2.67 g/cc			FREEL AIR	2.67 g/cc
SW041	42 8.69 -108 40.00	6939.00	WV 979707.96	980361.11	0.11	-236.67	-1.52	0.00	-0.84	-238.91
SW042	42 10.86 -108 43.70	7070.00	WV 979705.10	980364.37	0.28	-241.14	-1.51	0.00	5.35	-237.02
SW043	42 11.46 -108 47.07	7120.00	WV 979704.54	980365.27	0.29	-242.84	-1.51	0.00	8.59	-235.48
SW045	42 13.07 -108 47.74	7200.00	WV 979701.68	980367.68	0.32	-245.57	-1.51	0.00	10.83	-235.93
SW046	42 14.27 -108 48.90	7323.00	WV 979695.72	980369.48	0.54	-249.77	-1.51	0.00	14.62	-236.11
SW047	42 15.05 -108 48.98	7470.00	WV 979694.57	980370.65	0.67	-254.78	-1.50	0.00	26.11	-229.50
SW048	42 15.52 -108 49.48	7440.00	WV 979690.19	980371.37	1.10	-253.76	-1.50	0.00	18.21	-235.95
SW049	42 16.21 -108 48.59	7841.00	WV 979667.79	980372.40	1.07	-267.43	-1.48	0.00	32.44	-235.40
SW050	42 16.17 -108 49.54	7757.00	WV 979669.85	980372.34	0.84	-264.57	-1.49	0.00	26.68	-238.54
SW051	42 16.75 -108 50.44	7790.00	WV 979670.47	980373.21	0.73	-265.69	-1.48	0.00	29.53	-236.92
SW052	42 17.70 -108 51.07	7827.00	WV 979673.50	980374.63	0.83	-266.96	-1.48	0.00	34.61	-233.00
SW053	42 18.04 -108 51.77	7687.00	WV 979686.46	980375.15	0.75	-262.18	-1.49	0.00	33.91	-229.02
SW054	42 18.83 -108 51.77	7550.00	WV 979699.55	980376.33	0.68	-257.51	-1.50	0.00	32.93	-225.39
SW055	42 19.71 -108 52.12	7510.00	WV 979695.43	980377.65	0.53	-256.14	-1.50	0.00	23.74	-233.38
SW056	42 20.74 -108 52.23	7408.00	WV 979712.46	980379.20	0.44	-252.67	-1.50	0.00	29.64	-224.09
SW057	42 21.32 -108 53.09	7521.00	WV 979712.64	980380.06	0.75	-256.52	-1.50	0.00	39.56	-217.71
SW058	42 18.29 -108 49.26	8090.00	WV 979665.32	980375.52	2.06	-275.93	-1.46	0.00	50.25	-225.08
SW059	42 17.32 -108 48.07	7664.00	WV 979679.12	980374.06	0.74	-261.40	-1.49	0.00	25.48	-236.67
SW060	42 17.43 -108 47.08	7572.00	WV 979689.37	980374.23	0.67	-258.26	-1.50	0.00	26.92	-232.16
SW061	42 17.79 -108 46.60	7589.00	WV 979689.57	980374.77	0.52	-258.84	-1.50	0.00	28.18	-231.63
SW062	42 18.65 -108 45.66	7520.00	WV 979698.32	980376.05	0.59	-256.49	-1.50	0.00	29.15	-228.24
SW063	42 19.80 -108 45.12	7443.00	WV 979713.43	980377.79	0.51	-253.86	-1.50	0.00	35.30	-219.55
SW064	42 20.64 -108 43.47	7353.00	WV 979727.65	980379.05	0.49	-250.79	-1.51	0.00	39.81	-212.00
SW065	42 21.91 -108 42.70	7370.00	WV 979736.71	980380.95	0.43	-251.37	-1.51	0.00	48.56	-203.89
SW066	42 20.68 -108 46.51	7355.00	WV 979724.91	980379.11	0.43	-250.86	-1.51	0.00	37.19	-214.75
SW067	42 21.42 -108 45.26	7340.00	WV 979734.12	980380.22	0.45	-250.35	-1.51	0.00	43.88	-207.52
SW068	42 22.18 -108 43.55	7381.00	WV 979734.14	980381.36	0.44	-251.74	-1.51	0.00	46.62	-206.19
SW069	42 20.78 -108 49.43	7388.00	WV 979720.64	980379.25	0.44	-251.98	-1.51	0.00	35.88	-217.17
SW070	42 16.09 -108 47.71	7790.00	WV 979667.26	980372.22	0.87	-265.69	-1.48	0.00	27.30	-239.01
SW071	42 16.39 -108 46.12	7686.00	WV 979675.11	980372.67	1.07	-262.15	-1.49	0.00	24.94	-237.63
SW072	42 16.77 -108 44.90	7670.00	WV 979674.79	980373.23	0.97	-261.60	-1.49	0.00	22.54	-239.58
SW073	42 17.28 -108 43.95	7576.00	WV 979684.71	980374.00	0.61	-258.40	-1.50	0.00	22.87	-236.41
SW074	42 16.97 -108 43.07	7667.00	WV 979676.37	980373.53	1.03	-261.50	-1.49	0.00	23.53	-238.43
SW075	42 12.50 -108 47.03	7120.00	WV 979702.99	980366.83	0.39	-242.84	-1.51	0.00	5.48	-238.49
SW076	42 12.86 -108 46.56	7192.00	WV 979701.14	980367.37	0.28	-245.30	-1.51	0.00	9.85	-236.68
SW077	42 14.02 -108 45.69	7200.00	WV 979702.39	980369.11	0.34	-245.57	-1.51	0.00	10.11	-236.63
SW078	42 14.04 -108 45.25	7205.00	WV 979702.25	980369.14	0.32	-245.74	-1.51	0.00	10.41	-236.52
SW079	42 13.99 -108 45.15	7212.00	WV 979701.50	980369.07	0.33	-245.98	-1.51	0.00	10.40	-236.77
SW080	42 14.10 -108 45.02	7260.00	WV 979700.18	980369.23	0.46	-247.62	-1.51	0.00	13.42	-235.25
SW081	42 15.04 -108 45.17	7271.00	WV 979700.89	980370.64	0.54	-247.99	-1.51	0.00	13.75	-235.21

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BOUGUER GRAVITY DATA

S. W. Wyoming Bouguer Gravity Data
 Bankev and Kulik 1982-84
 Meter used: var

STATION IDENTIFICATION sta-1d	L O C A T I O N S LATITUDE deg min LONGITUDE deg min	ELE (1n ft)	G R A V I T Y ST OBSERVED	T H E O R E T I C A L	T E R R A I N 2.67 g/cc	B O U G U E R	C U R V	S P E C I A L	A N O M A L I E S FREE AIR	C O M P L E T E - B O U G U E R 2.67 g/cc
SW082	42 13.00 -108 43.20	7102.00	WV 979707.67	980367.58	0.29	-242.23	-1.51	0.00	7.72	-235.74
SW083	42 10.40 -108 47.16	7086.00	WV 979705.16	980363.67	0.25	-241.68	-1.51	0.00	7.60	-235.35
SW084	42 9.91 -108 41.50	6990.00	WV 979708.03	980362.95	0.13	-238.41	-1.52	0.00	2.19	-237.61
SW085	42 9.73 -108 39.10	6938.00	WV 979707.83	980362.67	0.12	-236.64	-1.52	0.00	-2.63	-240.66
SW086	42 10.35 -108 38.00	6915.00	WV 979710.40	980363.60	0.15	-235.85	-1.52	0.00	-3.15	-240.37
SW087	42 11.08 -108 36.50	6900.00	WV 979711.78	980364.70	0.20	-235.34	-1.52	0.00	-4.27	-240.93
SW088	42 11.81 -108 35.00	6868.00	WV 979711.72	980365.79	0.21	-234.25	-1.52	0.00	-8.43	-243.99
SW089	42 12.24 -108 34.00	6870.00	WV 979713.07	980366.44	0.21	-234.32	-1.52	0.00	-7.54	-243.16
SW090	42 13.07 -108 32.55	6910.00	WV 979711.10	980367.68	0.26	-235.68	-1.52	0.00	-6.99	-243.93
SW091	42 14.07 -108 31.70	7080.00	WV 979701.42	980369.19	0.40	-241.48	-1.51	0.00	-2.21	-244.80
SW092	42 14.71 -108 31.20	6920.00	WV 979705.99	980370.15	0.63	-236.02	-1.52	0.00	-13.63	-250.54
SW093	42 14.43 -108 33.20	7080.00	WV 979702.50	980369.73	0.35	-241.48	-1.51	0.00	-1.67	-244.31
SW094	42 15.55 -108 34.30	7100.00	WV 979708.15	980371.41	0.63	-242.16	-1.51	0.00	4.18	-238.87
SW095	42 16.13 -108 34.80	7143.00	WV 979707.21	980372.27	0.43	-243.63	-1.51	0.00	6.41	-238.30
SW096	42 17.18 -108 35.95	7227.00	WV 979706.47	980373.85	0.38	-246.49	-1.51	0.00	11.98	-235.64
SW097	42 17.18 -108 36.60	7278.00	WV 979703.28	980373.85	0.40	-248.23	-1.51	0.00	13.59	-235.75
SW098	42 18.21 -108 37.15	7436.00	WV 979697.32	980375.40	0.66	-253.62	-1.50	0.00	20.93	-233.54
SW099	42 18.55 -108 38.14	7660.00	WV 979679.94	980375.91	0.81	-261.26	-1.49	0.00	24.08	-237.86
SW100	42 20.44 -108 38.21	7445.00	WV 979715.58	980378.75	0.49	-253.93	-1.50	0.00	36.68	-218.26
SW101	42 19.65 -108 38.29	7623.00	WV 979690.98	980377.56	0.64	-260.00	-1.49	0.00	29.99	-230.87
SW102	42 18.68 -108 40.35	7679.00	WV 979684.89	980376.10	0.75	-261.91	-1.49	0.00	30.62	-232.03
SW103	42 18.18 -108 41.66	7845.00	WV 979668.64	980375.35	1.47	-267.57	-1.48	0.00	30.72	-236.86
SW104	42 28.09 -108 48.04	7805.00	WV 979735.15	980390.23	1.46	-266.21	-1.48	0.00	78.58	-187.65
SW105	42 27.51 -108 45.89	7885.00	WV 979728.03	980389.36	1.31	-268.93	-1.48	0.00	79.86	-189.25
SW106	42 26.52 -108 44.30	7710.00	WV 979735.11	980387.88	0.84	-262.97	-1.49	0.00	71.98	-191.64
SW107	42 26.63 -108 42.15	7507.00	WV 979746.35	980388.04	0.71	-256.04	-1.50	0.00	63.98	-192.85
SW108	42 25.66 -108 42.08	7496.00	WV 979742.25	980386.59	0.68	-255.67	-1.50	0.00	60.30	-195.19
SW109	42 25.13 -108 42.39	7495.00	WV 979741.78	980383.73	0.84	-255.63	-1.50	0.00	60.54	-195.76
SW110	42 23.76 -108 42.50	7465.00	WV 979738.00	980383.79	0.57	-254.61	-1.50	0.00	55.99	-199.55
SW111	42 22.77 -108 42.95	7340.00	WV 979740.39	980382.24	0.45	-250.35	-1.51	0.00	48.13	-203.27
SW112	42 23.58 -108 44.35	7475.00	WV 979738.76	980383.46	0.60	-254.95	-1.50	0.00	57.96	-197.89
SW113	42 24.32 -108 45.87	7604.00	WV 979734.14	980384.57	0.61	-259.35	-1.50	0.00	64.36	-195.88
SW114	42 24.99 -108 47.49	7670.00	WV 979730.49	980385.58	0.79	-261.60	-1.49	0.00	65.90	-196.40
SW115	42 26.71 -108 48.79	7835.00	WV 979722.16	980388.16	0.95	-267.23	-1.48	0.00	70.48	-197.28
SW160	42 8.43 -109 20.20	6686.00	WV 979710.89	980360.72	-0.03	-228.04	-1.52	0.00	-21.29	-250.88
SW161	42 7.27 -109 20.35	6669.00	WV 979710.55	980358.98	-0.06	-227.46	-1.52	0.00	-21.50	-250.53
SW162	42 6.64 -109 22.90	6650.00	WV 979711.47	980358.04	-0.05	-226.81	-1.52	0.00	-21.42	-249.79
SW163	42 5.78 -109 24.48	6622.00	WV 979713.46	980356.74	-0.09	-225.86	-1.52	0.00	-20.76	-248.22
SW164	42 4.59 -109 24.00	6683.00	WV 979712.16	980354.96	-0.05	-226.23	-1.52	0.00	-19.25	-247.04
SW165	42 3.07 -109 23.90	6610.00	WV 979714.40	980352.68	-0.10	-225.45	-1.52	0.00	-16.88	-243.95

BOUGUER GRAVITY DATA

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S. W. Wyoming Bouguer Gravity Data
 Bankey and Kulik 1982-84
 Meter used: var

STATION IDENTIFICATION sta-1d	L O C A T I O N S LATITUDE deg min LONGITUDE deg min	ELE ELEVATION (1n ft)	G R A V I T Y ST OBSERVED	C O R R E C T I O N S THEORETICAL TERRAIN BOUGUER CURV	A N O M A L I E S SPECIAL FREE COMPLETE-BOUGUER AIR			
SW166	42 9.43 -109 9.00	7065.00	WY 979693.64	980362.23	0.57 -240.97 -1.51	0.00	-4.43	-246.34
SW167	42 8.48 -109 8.31	6920.00	WY 979693.08	980360.80	0.39 -236.02 -1.52	0.00	-17.19	-254.34
SW168	42 7.78 -109 10.80	7150.00	WY 979677.61	980359.75	0.95 -243.87 -1.51	0.00	-10.00	-254.43
SW169	42 7.32 -109 10.79	7035.00	WY 979686.14	980359.05	0.18 -239.94 -1.52	0.00	-11.58	-252.86
SW170	42 8.08 -109 11.90	7075.00	WY 979684.91	980360.20	0.32 -241.31 -1.51	0.00	-10.20	-252.70
SW171	42 7.31 -109 7.49	6960.00	WY 979689.47	980359.04	0.52 -237.39 -1.52	0.00	-15.29	-253.67
SW172	42 6.60 -109 6.44	6980.00	WY 979688.85	980357.98	0.55 -238.07 -1.52	0.00	-12.96	-252.00
SW173	42 6.09 -109 5.69	6980.00	WY 979690.41	980357.21	0.39 -238.07 -1.52	0.00	-10.64	-249.84
SW174	41 44.80 -109 16.96	6565.00	WY 979718.46	980325.30	0.14 -223.91 -1.52	0.00	10.34	-214.95
SW175	41 45.20 -109 15.74	6493.00	WY 979725.21	980325.89	0.10 -221.46 -1.51	0.00	9.73	-213.14
SW176	41 43.91 -109 14.47	6429.00	WY 979727.53	980323.96	0.06 -219.27 -1.51	0.00	7.96	-212.76
SW177	41 45.94 -109 14.89	6478.00	WY 979729.71	980327.01	0.03 -220.95 -1.51	0.00	11.71	-210.72
SW178	41 47.13 -109 14.24	6475.00	WY 979732.37	980328.79	0.18 -220.84 -1.51	0.00	12.29	-209.88
SW179	41 50.75 -109 13.18	6640.00	WY 979727.96	980334.20	0.03 -226.47 -1.52	0.00	17.97	-209.99
SW180	41 52.22 -109 12.81	6618.00	WY 979724.29	980336.41	0.04 -225.72 -1.52	0.00	10.03	-217.17
SW181	41 54.49 -109 12.02	6626.00	WY 979723.46	980339.82	0.07 -225.99 -1.52	0.00	6.55	-220.89
SW182	41 55.51 -109 11.68	6640.00	WY 979722.40	980341.35	0.06 -226.47 -1.52	0.00	5.27	-222.65
SW183	41 56.86 -109 11.13	6670.00	WY 979720.94	980343.38	0.11 -227.49 -1.52	0.00	4.61	-224.29
SW184	41 57.90 -109 11.90	6710.00	WY 979722.10	980344.93	0.07 -228.86 -1.52	0.00	7.97	-222.34
SW185	41 56.19 -109 9.32	6720.00	WY 979717.18	980342.37	0.28 -229.20 -1.52	0.00	6.55	-223.89
SW186	41 57.03 -109 9.09	6760.00	WY 979715.64	980343.63	0.16 -230.56 -1.52	0.00	7.51	-224.41
SW187	41 57.60 -109 8.82	6868.00	WY 979709.54	980344.48	0.14 -234.25 -1.52	0.00	10.70	-224.92
SW188	41 58.59 -109 9.24	6810.00	WY 979712.07	980345.96	0.45 -232.27 -1.52	0.00	6.30	-227.04
SW189	41 59.50 -109 8.86	6950.00	WY 979703.07	980347.33	0.13 -237.04 -1.52	0.00	9.09	-229.34
SW190	42 0.08 -109 7.87	6923.00	WY 979699.93	980348.20	0.26 -236.12 -1.52	0.00	2.54	-234.84
SW191	41 56.99 -109 7.04	6867.00	WY 979707.86	980343.56	0.46 -234.21 -1.52	0.00	9.84	-225.43
SW192	41 56.22 -109 5.11	7288.00	WY 979680.18	980342.41	0.48 -248.57 -1.51	0.00	22.80	-226.80
SW193	41 56.44 -109 3.88	7390.00	WY 979671.50	980342.74	0.43 -252.05 -1.51	0.00	23.52	-229.60
SW194	41 56.31 -109 2.02	7150.00	WY 979685.76	980342.55	0.48 -243.87 -1.51	0.00	15.35	-229.55
SW195	41 55.72 -109 0.26	7320.00	WY 979672.72	980341.66	0.41 -249.66 -1.51	0.00	19.17	-231.59
SW196	41 55.47 -108 55.81	6972.00	WY 979690.49	980341.28	0.27 -237.79 -1.52	0.00	4.62	-234.42
SW197	41 55.22 -108 52.53	6877.00	WY 979695.96	980340.91	0.14 -234.55 -1.52	0.00	1.54	-234.39
SW198	41 53.35 -108 50.35	6914.00	WY 979690.89	980338.11	0.07 -235.82 -1.52	0.00	2.75	-234.52
SW199	41 51.61 -108 50.23	6970.00	WY 979688.23	980335.50	0.17 -237.73 -1.52	0.00	7.95	-231.12
SW200	41 57.20 -108 56.09	7220.00	WY 979674.35	980343.88	0.90 -246.25 -1.51	0.00	9.19	-237.67
SW201	41 58.23 -108 55.35	7321.00	WY 979666.24	980345.42	1.19 -249.70 -1.51	0.00	9.02	-240.99
SW202	41 59.43 -108 52.04	7188.00	WY 979674.40	980347.22	0.43 -245.16 -1.51	0.00	2.89	-243.36
SW203	41 59.10 -108 50.75	7129.00	WY 979676.92	980346.73	0.33 -243.15 -1.51	0.00	0.36	-243.97
SW204	41 59.71 -108 47.42	6980.00	WY 979687.01	980347.65	0.20 -238.07 -1.52	0.00	-4.47	-243.85
SW205	41 55.66 -108 57.95	7075.00	WY 979685.98	980341.57	0.37 -241.31 -1.51	0.00	9.50	-232.95

BOUGUER GRAVITY DATA

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S. W. Wyoming Bouguer Gravity Data
 Bankey and Kulik 1982-84
 Meter used: var

STATION IDENTIFICATION	STATION sta-1d	L O C A T I O N S	L A T I T U D E deg	L O N G I T U D E deg	E L E (1n ft)	G R A V I T Y	S T O B S E R V E D	T H E O R E T I C A L	T E R R A I N	B O U G U E R	C U R V	S P E C I A L	A N O M A L I E S	F R E E	C O M P L E T E
			deg	deg	(1n ft)				2.67	g/cc				A I R	2.67
SW206		41 39.09	-109 13.60		6355.00	wy	979722.42	980316.74	0.11	-216.75	-1.51	0.00	3.12		-215.03
SW207		41 43.66	-109 16.47		6520.00	wy	979718.12	980323.59	0.31	-222.38	-1.51	0.00	7.48		-216.11
SW208		41 44.43	-109 17.92		6670.00	wy	979710.61	980324.74	0.27	-227.49	-1.52	0.00	12.91		-215.83
SW209		41 45.22	-109 20.29		7015.00	wy	979685.19	980325.93	0.20	-239.26	-1.52	0.00	18.72		-221.85
SW210		41 47.51	-109 20.03		6973.00	wy	979689.14	980329.35	0.16	-237.83	-1.52	0.00	15.30		-223.89
SW211		41 49.44	-109 20.24		6880.00	wy	979696.72	980332.25	0.09	-234.66	-1.52	0.00	11.24		-224.84
SW212		41 51.00	-109 20.40		6894.00	wy	979696.83	980334.59	0.36	-235.13	-1.52	0.00	10.33		-225.96
SW213		41 52.69	-109 20.87		6940.00	wy	979694.39	980337.12	0.15	-236.70	-1.52	0.00	9.68		-228.39
SW214		41 55.32	-109 22.40		6841.00	wy	979698.92	980341.06	0.46	-233.33	-1.52	0.00	0.96		-233.42
SW215		41 56.00	-109 27.47		6705.00	wy	979706.89	980342.08	-0.08	-228.69	-1.52	0.00	-4.86		-235.15
SW216		41 58.92	-109 24.76		6650.00	wy	979710.64	980346.45	-0.05	-226.81	-1.52	0.00	-10.66		-239.03
SW217		42 0.02	-109 25.00		6601.00	wy	979713.67	980348.10	-0.05	-225.14	-1.52	0.00	-13.88		-240.59
SW218		42 1.54	-109 25.75		6568.00	wy	979715.74	980350.39	-0.08	-224.02	-1.52	0.00	-17.19		-242.80
SW219		42 3.06	-109 26.20		6610.00	wy	979713.58	980352.66	-0.12	-225.45	-1.52	0.00	-17.69		-244.77
SW220		42 5.36	-109 26.40		6594.00	wy	979714.78	980356.11	-0.11	-224.90	-1.52	0.00	-21.44		-247.97
SW221		41 59.00	-109 23.30		6680.00	wy	979710.48	980346.57	-0.03	-227.84	-1.52	0.00	-8.13		-237.51
SW222		41 58.97	-109 21.16		6753.00	wy	979704.28	980346.53	0.13	-230.33	-1.52	0.00	-4.79		-236.50
SW223		41 59.16	-109 18.62		6843.00	wy	979704.64	980346.82	0.72	-230.40	-1.52	0.00	0.75		-233.44
SW224		41 59.21	-109 17.32		6895.00	wy	979700.64	980346.89	0.32	-235.17	-1.52	0.00	1.93		-234.44
SW225		41 59.15	-109 15.65		7061.00	wy	979690.98	980346.80	1.40	-240.83	-1.51	0.00	7.95		-233.00
SW226		41 57.57	-109 15.76		7470.00	wy	979666.16	980344.43	1.71	-254.78	-1.50	0.00	23.93		-230.64
SW227		41 57.61	-109 14.55		6843.00	wy	979707.96	980344.49	0.43	-233.40	-1.52	0.00	6.76		-227.72
SW228		41 57.64	-109 13.94		6760.00	wy	979712.89	980344.54	0.25	-230.56	-1.52	0.00	3.85		-227.99
SW229		41 56.14	-109 14.35		6830.00	wy	979709.21	980347.29	0.65	-232.95	-1.52	0.00	8.99		-224.83
SW230		41 55.20	-109 13.69		6760.00	wy	979714.26	980340.88	0.22	-230.56	-1.52	0.00	8.87		-222.99
SW231		41 56.70	-109 16.26		7599.00	wy	979655.41	980343.13	1.49	-259.18	-1.50	0.00	26.61		-232.58
SW232		41 55.04	-109 16.19		7676.00	wy	979650.67	980340.64	2.21	-261.77	-1.49	0.00	32.53		-228.90
SW233		41 53.71	-109 16.90		7565.00	wy	979651.42	980338.65	2.12	-261.77	-1.49	0.00	34.24		-226.91
SW234		41 53.63	-109 18.31		7562.00	wy	979657.91	980338.52	1.67	-257.92	-1.50	0.00	30.23		-227.51
SW235		41 54.04	-109 20.54		7001.00	wy	979691.16	980339.14	0.30	-238.78	-1.52	0.00	10.15		-229.84
SW236		41 41.52	-109 14.37		6405.00	wy	979722.32	980320.38	0.09	-218.46	-1.51	0.00	4.08		-215.80
SW237		41 46.87	-109 12.24		6585.00	wy	979726.60	980328.40	0.01	-224.60	-1.52	0.00	17.26		-208.85
SW238		41 46.94	-109 10.25		6650.00	wy	979724.22	980328.50	0.25	-226.81	-1.52	0.00	20.88		-207.20
SW239		41 48.48	-109 8.35		6770.00	wy	979718.03	980330.80	0.49	-230.91	-1.52	0.00	23.66		-208.27
SW240		41 49.47	-109 7.09		6880.00	wy	979711.14	980332.29	0.94	-234.66	-1.52	0.00	25.62		-209.61
SW241		41 50.37	-109 6.02		6990.00	wy	979701.41	980333.64	0.44	-238.41	-1.52	0.00	24.87		-214.61
SW242		41 50.71	-109 4.72		7080.00	wy	979694.53	980334.16	0.69	-241.48	-1.51	0.00	25.95		-216.36
SW243		41 53.55	-108 57.02		7128.00	wy	979684.64	980338.41	0.24	-243.12	-1.51	0.00	16.31		-228.08
SW244		41 53.16	-108 57.66		6996.00	wy	979693.75	980337.82	0.23	-238.61	-1.52	0.00	13.60		-226.30
SW245		41 52.40	-108 58.60		7075.00	wy	979687.71	980336.68	0.28	-241.31	-1.51	0.00	16.12		-226.42

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BOUGUER GRAVITY DATA

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S. W. Wyoming Bouguer Gravity Data
 Bankey and Kulik 1982-84
 Meter used: var

STATION IDENTIFICATION Proj sta-id	L O C A T I O N S		ELE (1n ft)	G R A V I T Y ST OBSERVED	T H E O R E T I C A L	C O R R E C T I O N S		S P E C I A L	A N O M A L I E S			
	LATITUDE deg min	LONGITUDE deg min				TERRAIN 2.67 g/cc	BOUGUER CURV		FREE AIR	COMPLETE- BOUGUER 2.67 g/cc		
SW246	42	1.25	-108 52.32	7368.00	WY 979665.64	980349.95	0.40	-251.30	-1.51	0.00	8.31	-244.10
SW247	42	2.42	-108 52.25	7266.00	WY 979675.15	980352.30	0.58	-247.82	-1.51	0.00	5.88	-242.87
SW248	42	4.13	-108 55.02	7282.00	WY 979669.80	980354.27	0.90	-248.37	-1.51	0.00	0.06	-248.92
SW249	42	5.75	-108 57.61	7125.00	WY 979683.00	980356.70	0.44	-243.01	-1.51	0.00	-3.92	-248.00
SW250	42	6.18	-109 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	-109 2.39	7019.00	WY 979687.16	980356.23	0.55	-239.40	-1.52	0.00	-9.25	-249.61
nd1	41	29.41	-108 58.29	6531.00	WY 979709.87	980302.26	0.35	-222.75	-1.51	0.00	21.60	-202.32
nd2	41	27.65	-108 56.66	6577.00	WY 979701.60	980299.62	0.37	-224.32	-1.52	0.00	20.29	-205.18
nd3	41	28.58	-108 51.87	6876.00	WY 979681.83	980301.01	0.38	-234.52	-1.52	0.00	27.22	-208.44
nd4	41	27.67	-108 50.55	6895.00	WY 979676.33	980299.65	0.26	-235.17	-1.52	0.00	24.87	-211.56
nd5	41	26.38	-108 48.46	6926.00	WY 979667.80	980297.72	0.19	-236.23	-1.52	0.00	21.18	-216.37
nd6	41	24.65	-108 47.30	6977.00	WY 979658.12	980295.13	0.16	-237.97	-1.52	0.00	18.88	-220.44
nd7	41	22.15	-108 45.82	7089.00	WY 979643.51	980291.40	0.22	-241.79	-1.51	0.00	18.53	-224.55
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	1.22	-240.76	-1.51	0.00	14.90	-226.15
nd10	41	17.90	-108 47.47	7049.00	WY 979637.80	980285.03	0.38	-240.42	-1.51	0.00	15.42	-226.14
nd11	41	16.52	-108 48.27	6952.00	WY 979641.61	980282.97	0.26	-237.11	-1.52	0.00	12.18	-226.19
nd12	41	15.52	-108 50.04	6900.00	WY 979643.89	980281.48	0.19	-235.34	-1.51	0.00	11.07	-225.59
nd13	41	11.63	-108 50.04	7045.00	WY 979628.04	980275.66	0.64	-240.28	-1.52	0.00	14.66	-226.50
nd14	41	8.51	-108 48.99	7339.00	WY 979602.27	980271.00	0.41	-250.31	-1.51	0.00	21.18	-230.23
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	0.29	-247.45	-1.51	0.00	13.92	-234.75
nd17	41	9.04	-108 40.12	7328.00	WY 979597.56	980271.80	0.34	-249.94	-1.51	0.00	14.64	-236.46
nd18	41	9.30	-108 37.63	7165.00	WY 979605.96	980272.18	0.26	-244.38	-1.51	0.00	7.34	-238.29
nd19	41	10.42	-108 36.01	7170.00	WY 979603.63	980273.86	0.76	-244.55	-1.51	0.00	3.80	-241.50
nd20	41	11.35	-108 34.64	7896.00	WY 979552.44	980275.25	2.59	-269.31	-1.48	0.00	19.43	-248.77
nd21	41	12.18	-108 33.03	7175.00	WY 979556.83	980276.48	0.39	-244.72	-1.51	0.00	-5.16	-251.00
nd22	41	13.34	-108 31.58	7056.00	WY 979604.14	980278.22	0.26	-240.66	-1.51	0.00	-10.76	-252.67
nd23	41	15.54	-108 29.33	7051.00	WY 979606.56	980281.51	0.16	-240.49	-1.51	0.00	-12.10	-253.94
nd24	41	13.23	-108 25.93	6955.00	WY 979606.68	980278.05	0.17	-237.22	-1.52	0.00	-17.55	-256.11
nd25	41	11.40	-108 25.56	6942.00	WY 979604.76	980275.32	0.16	-236.77	-1.52	0.00	-17.96	-256.08
nd26	41	10.03	-108 24.03	7050.00	WY 979595.74	980273.27	0.76	-240.46	-1.51	0.00	-14.78	-255.99
nd27	41	8.66	-108 23.22	6901.00	WY 979604.22	980271.23	0.04	-235.37	-1.52	0.00	-18.25	-255.10
nd28	41	5.48	-108 21.69	6892.00	WY 979601.81	980266.48	0.23	-235.07	-1.52	0.00	-16.75	-253.11
nd29	41	3.42	-108 20.95	7041.00	WY 979591.93	980263.40	0.22	-240.15	-1.52	0.00	-9.56	-251.00
nd30	41	3.05	-108 19.04	7021.00	WY 979593.64	980262.84	0.15	-239.47	-1.52	0.00	-9.18	-250.01
nd31	41	1.86	-108 17.77	6965.00	WY 979597.02	980261.07	0.18	-237.56	-1.52	0.00	-9.28	-248.17
nd32	41	0.49	-108 17.71	6641.00	WY 979619.66	980259.03	0.22	-226.51	-1.52	0.00	-15.04	-242.84
nd33	40	58.46	-108 18.22	6597.00	WY 979624.54	980255.99	0.02	-225.00	-1.52	0.00	-11.26	-237.76
nd34	40	57.22	-108 18.85	6692.00	WY 979621.16	980254.15	0.10	-228.24	-1.52	0.00	-3.86	-233.53

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BOUGUER GRAVITY DATA

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S. W. Wyoming Bouguer Gravity Data
 Bankey and Kulik 1982-84
 Meter used: var

STATION IDENTIFICATION	L O C A T I O N S	ELE	G R A V I T Y	C O R R E C T I O N S	TERRAIN BOUGUER	CURV	SPECIAL	F R E E	C O M P L E T E S
sta-id	LATITUDE deg min deg	LONGITUDE min	(in ft)	SI OBSERVED	THEORETICAL	2.67 g/cc	ANOMALIES	AIR	BOUGUER
nd35	40 57.69	-108 21.09	6687.00	wy 979618.64	980254.84	0.69	-228.07	-1.52	-236.45
nd36	40 57.75	-108 24.52	7138.00	wy 979590.83	980254.94	0.38	-243.46	-1.51	-237.67
nd37	40 58.39	-108 27.21	6880.00	wy 979609.60	980255.89	0.10	-234.66	-1.52	-235.58
nd38	40 59.28	-108 33.63	6659.00	wy 979626.12	980257.22	1.85	-227.12	-1.52	-231.87
nd39	41 0.66	-108 33.12	7079.00	wy 979601.06	980259.28	0.29	-241.44	-1.51	-235.40
nd40	40 59.40	-108 37.06	7198.00	wy 979597.32	980257.40	0.55	-245.50	-1.51	-229.88
nd41	41 0.30	-108 39.34	6593.00	wy 979636.88	980258.74	0.94	-224.87	-1.52	-227.49
nd42	41 0.53	-108 44.22	7049.00	wy 979611.69	980259.09	0.28	-240.42	-1.51	-226.39
nd43	41 2.16	-108 47.26	7141.00	wy 979609.38	980261.52	0.41	-243.56	-1.51	-225.49
nd44	41 4.67	-108 47.45	7186.00	wy 979606.87	980265.27	0.31	-245.09	-1.51	-229.16
nd45	41 7.11	-108 48.39	7402.00	wy 979595.43	980268.91	0.46	-252.46	-1.51	-231.16
nd46	41 10.33	-108 49.26	7127.00	wy 979618.66	980273.73	0.52	-243.08	-1.51	-229.15
nd47	41 39.72	-108 46.41	6528.00	wy 979710.86	980317.69	0.17	-222.65	-1.51	-217.13
nd48	41 37.95	-108 45.51	6548.00	wy 979706.94	980315.04	0.20	-223.33	-1.51	-217.17
nd49	41 36.84	-108 44.75	6556.00	wy 979703.70	980313.38	0.19	-223.61	-1.52	-218.27
nd50	41 34.18	-108 42.35	6592.00	wy 979695.14	980309.39	0.03	-224.83	-1.52	-220.86
nd51	41 31.63	-108 40.00	6636.00	wy 979685.29	980305.58	0.09	-226.33	-1.52	-224.20
nd52	41 30.61	-108 37.43	6689.00	wy 979675.89	980304.05	0.04	-228.14	-1.52	-228.95
nd53	41 30.77	-108 35.41	6685.00	wy 979673.15	980304.28	0.10	-228.01	-1.52	-232.11
nd54	41 31.32	-108 34.58	6685.00	wy 979673.58	980305.11	0.27	-228.01	-1.52	-232.33
nd55	41 32.46	-108 33.51	6778.00	wy 979668.75	980306.82	0.02	-231.18	-1.52	-233.55
nd56	41 31.56	-108 32.15	6728.00	wy 979667.72	980305.47	0.15	-229.47	-1.52	-236.10
nd57	41 30.30	-108 32.05	6745.00	wy 979664.32	980303.59	0.10	-230.05	-1.52	-236.64
nd58	41 29.38	-108 30.92	6776.00	wy 979659.56	980302.21	0.09	-231.11	-1.52	-238.18
nd59	41 28.17	-108 29.71	6932.00	wy 979645.61	980300.40	0.57	-236.43	-1.52	-240.50
nd60	41 27.18	-108 30.02	6979.00	wy 979640.98	980298.91	0.20	-238.03	-1.52	-241.21
nd61	41 25.69	-108 30.03	6903.00	wy 979642.86	980296.69	0.28	-235.44	-1.52	-241.57
nd62	41 22.93	-108 31.29	7071.00	wy 979626.64	980292.56	0.63	-241.17	-1.51	-243.25
nd63	41 22.31	-108 30.84	7086.00	wy 979623.43	980291.63	0.39	-241.68	-1.51	-244.88
nd64	41 20.20	-108 30.27	7296.00	wy 979603.40	980288.48	0.43	-248.85	-1.51	-249.14
nd65	41 18.72	-108 29.29	7201.00	wy 979604.15	980286.27	0.22	-245.61	-1.51	-252.07
nd66	41 17.29	-108 30.04	7108.00	wy 979607.41	980284.13	0.19	-242.43	-1.51	-252.27
nd67	41 2.35	-108 14.56	7092.00	wy 979588.67	980261.80	0.69	-241.89	-1.51	-249.14
nd68	41 3.11	-108 11.86	7606.00	wy 979554.41	980262.94	2.98	-259.42	-1.50	-251.47
nd69	41 2.87	-108 9.64	7614.00	wy 979554.95	980262.58	2.16	-259.69	-1.50	-250.90
nd70	41 3.37	-108 8.04	7330.00	wy 979575.72	980263.33	1.07	-250.01	-1.51	-248.99
nd71	41 3.52	-108 6.23	7221.00	wy 979583.60	980263.55	0.79	-246.29	-1.51	-248.13
nd72	41 3.59	-108 3.83	7274.00	wy 979579.64	980263.65	1.50	-248.10	-1.51	-248.32
nd73	41 4.07	-108 1.56	7033.00	wy 979597.04	980264.37	0.58	-239.88	-1.52	-246.99
nd74	41 4.67	-108 0.10	6872.00	wy 979607.93	980265.27	0.56	-234.38	-1.52	-246.65

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BOUGUER GRAVITY DATA

S. W. Wyoming Bouguer Gravity Data
 Bankey and Kulik 1982-84
 Meter used: var

STATION IDENTIFICATION Proj	L O C A T I O N S LATITUDE deg min LONGITUDE deg min	ELE (1n ft)	G R A V I T Y ST OBSERVED	T H E O R E T I C A L	C O R R E C T I O N S TERRAIN BOUGUER CURV	SPECIAL	A N O M A L I E S FREE COMPLETE-BOUGUER AIR
nd75	41 42.63 -107 43.97	7050.00	wy 979649.89	980332.05	0.17 -240.46 -1.51	0.00	-9.41
nd76	41 38.52 -107 45.26	7086.00	wy 979642.55	980315.89	0.30 -241.68 -1.51	0.00	-7.21
nd77	41 35.47 -107 45.15	7143.00	wy 979634.20	980311.33	0.86 -243.63 -1.51	0.00	-5.63
nd78	41 33.42 -107 45.74	7004.00	wy 979639.35	980308.25	0.06 -238.89 -1.52	0.00	-10.47
nd79	41 31.56 -107 45.60	6909.00	wy 979643.29	980305.47	0.13 -235.65 -1.52	0.00	-12.68
nd80	41 30.19 -107 45.40	6907.00	wy 979640.85	980303.42	0.14 -235.58 -1.52	0.00	-13.26
nd81	41 27.45 -107 45.70	6738.00	wy 979646.59	980299.32	0.07 -229.81 -1.52	0.00	-19.29
nd82	41 25.09 -107 45.60	6664.00	wy 979647.48	980295.79	0.08 -227.29 -1.52	0.00	-21.83
nd83	41 23.25 -107 46.02	6627.00	wy 979647.60	980293.04	0.14 -226.03 -1.52	0.00	-22.43
nd84	41 21.02 -107 45.97	6551.00	wy 979649.40	980289.70	0.03 -223.44 -1.51	0.00	-24.44
nd85	41 19.58 -107 46.06	6523.00	wy 979649.64	980287.55	-0.06 -222.48 -1.51	0.00	-24.67
nd86	41 20.62 -107 46.97	6617.00	wy 979644.30	980289.11	-0.07 -225.69 -1.52	0.00	-22.74
nd87	41 21.62 -107 48.21	6764.00	wy 979634.60	980290.59	0.15 -230.70 -1.52	0.00	-20.12
nd88	41 23.40 -107 49.41	6647.00	wy 979643.64	980293.26	0.01 -226.71 -1.52	0.00	-24.73
nd89	41 24.49 -107 50.16	6634.00	wy 979645.73	980294.90	0.02 -226.27 -1.52	0.00	-25.50
nd90	41 26.17 -107 51.29	6667.00	wy 979645.55	980297.41	-0.04 -227.39 -1.52	0.00	-25.10
nd91	41 27.67 -107 52.27	6684.00	wy 979646.64	980299.65	-0.07 -227.97 -1.52	0.00	-24.65
nd92	41 29.05 -107 53.16	6728.00	wy 979646.07	980301.72	-0.05 -229.47 -1.52	0.00	-23.15
nd93	41 30.83 -107 54.26	6722.00	wy 979649.23	980304.38	0.05 -229.27 -1.52	0.00	-23.22
nd94	41 32.29 -107 55.05	6704.00	wy 979654.46	980306.56	0.02 -228.65 -1.52	0.00	-21.86
nd95	41 33.49 -107 55.75	6704.00	wy 979657.07	980308.36	0.04 -228.65 -1.52	0.00	-21.05
nd96	41 34.90 -107 56.75	6683.00	wy 979661.51	980310.47	-0.02 -227.94 -1.52	0.00	-20.70
nd97	41 36.50 -107 57.47	6679.00	wy 979665.81	980312.86	-0.03 -227.80 -1.52	0.00	-19.17
nd98	41 38.14 -107 57.68	6708.00	wy 979667.60	980315.32	0.08 -228.79 -1.52	0.00	-17.11
nd99	41 39.68 -107 58.06	6738.00	wy 979669.60	980317.63	0.09 -229.81 -1.52	0.00	-14.59
nd100	41 31.79 -107 56.55	6832.00	wy 979644.63	980305.81	0.01 -233.02 -1.52	0.00	-18.91
nd101	41 30.88 -107 58.04	6737.00	wy 979649.02	980304.45	0.08 -229.78 -1.52	0.00	-22.09
nd102	41 29.31 -108 1.18	6762.00	wy 979644.49	980302.10	0.03 -230.63 -1.52	0.00	-21.92
nd103	41 27.40 -108 2.40	6854.00	wy 979634.17	980299.25	0.09 -233.77 -1.52	0.00	-20.74
nd104	41 25.64 -108 3.05	6781.00	wy 979635.11	980296.61	0.00 -231.28 -1.52	0.00	-24.02
nd105	41 24.89 -108 3.73	6854.00	wy 979628.60	980295.48	0.11 -233.77 -1.52	0.00	-22.56
nd106	41 23.30 -108 2.92	6856.00	wy 979625.68	980293.11	0.07 -233.84 -1.52	0.00	-22.91
nd107	41 20.40 -108 3.50	6741.00	wy 979629.03	980288.77	-0.03 -229.92 -1.52	0.00	-26.02
nd108	41 19.78 -108 5.66	6730.00	wy 979628.30	980287.85	-0.05 -229.54 -1.52	0.00	-26.86
nd109	41 19.30 -108 7.15	6682.00	wy 979631.12	980287.13	-0.07 -227.90 -1.52	0.00	-27.84
nd110	41 18.89 -108 9.01	6649.00	wy 979632.57	980286.52	0.06 -226.78 -1.52	0.00	-28.87
nd111	41 19.88 -108 1.53	6810.00	wy 979624.61	980287.99	0.01 -232.27 -1.52	0.00	-23.19
nd112	41 18.16 -107 58.73	6786.00	wy 979626.49	980285.43	0.35 -231.45 -1.52	0.00	-20.98
nd113	41 16.73 -107 56.80	6941.00	wy 979616.10	980283.28	0.24 -236.74 -1.52	0.00	-14.68
nd114	41 17.05 -107 54.89	6732.00	wy 979630.56	980283.77	0.63 -229.61 -1.52	0.00	-20.33

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BOUGUER GRAVITY DATA

S. W. Wyoming Bouguer Gravity Data
 Bankey and Kulik 1982-84
 Meter used: var

STATION IDENTIFICATION	L O C A T I O N S	ELE	G R A V I T Y	C O R R E C T I O N S	TERRAIN	B O U G U E R	C U R V	S P E C I A L	A N O M A L I E S		
sta-id	deg min deg min	(in ft)	ST OBSERVED	THEORETICAL	2.67 g/cc	BOUGUER	CURV	SPECIAL	FREE COMPLETE-BOUGUER		
									2.67 g/cc		
nd115	41 17.99	-107 52.22	6596.00	wy 979640.57	980285.17	0.08	-224.97	-1.52	0.00	-24.51	-250.91
nd116	41 17.84	-107 49.17	6553.00	wy 979644.61	980284.95	0.05	-223.50	-1.51	0.00	-24.28	-249.25
nd117	41 18.10	-107 46.45	6523.00	wy 979648.14	980285.34	0.07	-222.48	-1.51	0.00	-23.96	-247.89
nd118	41 37.68	-108 15.78	6996.00	wy 979651.19	980314.63	0.41	-238.61	-1.52	0.00	-5.77	-245.49
nd119	41 36.35	-108 15.27	7089.00	wy 979641.24	980312.64	0.18	-241.79	-1.51	0.00	-4.99	-248.11
nd120	41 34.72	-108 15.75	7063.00	wy 979639.55	980310.20	0.23	-240.90	-1.51	0.00	-6.69	-248.87
nd121	41 33.44	-108 16.04	7419.00	wy 979614.30	980308.28	0.54	-253.04	-1.50	0.00	3.43	-250.57
nd122	41 32.01	-108 14.28	7199.00	wy 979624.65	980306.14	0.20	-245.54	-1.51	0.00	-4.74	-251.59
nd123	41 31.11	-108 12.67	7071.00	wy 979630.29	980304.80	0.11	-241.17	-1.51	0.00	-9.79	-252.36
nd124	41 29.66	-108 11.91	6998.00	wy 979631.15	980302.63	0.08	-238.68	-1.52	0.00	-13.61	-253.73
nd125	41 29.41	-108 9.61	6960.00	wy 979632.48	980302.26	0.13	-237.39	-1.52	0.00	-15.48	-254.25
nd126	41 28.82	-108 5.39	6994.00	wy 979629.37	980301.37	0.40	-238.55	-1.52	0.00	-14.51	-254.17
nd127	41 27.19	-108 5.51	6857.00	wy 979633.58	980298.94	0.05	-233.87	-1.52	0.00	-20.74	-256.07
nd128	41 26.04	-108 5.28	6854.00	wy 979631.20	980297.21	0.02	-233.77	-1.52	0.00	-21.67	-256.94
nd129	41 24.93	-108 6.92	7021.00	wy 979617.75	980295.55	0.12	-239.47	-1.52	0.00	-17.77	-258.63
nd130	41 25.96	-108 9.82	7052.00	wy 979618.17	980297.09	0.23	-240.52	-1.51	0.00	-15.98	-257.79
nd131	41 26.48	-108 12.93	7072.00	wy 979618.90	980297.87	0.13	-241.21	-1.51	0.00	-14.15	-256.74
nd132	41 26.28	-108 14.52	7043.00	wy 979620.87	980297.57	0.18	-240.22	-1.52	0.00	-14.61	-256.16
nd133	41 26.60	-108 18.47	6966.00	wy 979629.96	980298.05	0.08	-237.59	-1.52	0.00	-13.23	-252.25
nd134	41 25.19	-108 22.29	6936.00	wy 979631.80	980295.94	0.30	-236.57	-1.52	0.00	-12.10	-249.88
nd135	41 24.38	-108 24.41	6990.00	wy 979628.11	980294.73	0.84	-238.41	-1.52	0.00	-9.50	-248.59
nd136	41 22.77	-108 22.54	6935.00	wy 979625.61	980292.32	0.08	-236.53	-1.52	0.00	-14.76	-252.73
nd137	41 21.38	-108 22.20	6986.00	wy 979618.96	980290.23	0.06	-238.27	-1.52	0.00	-14.54	-254.27
nd138	41 19.99	-108 23.32	7021.00	wy 979614.19	980288.16	0.12	-239.47	-1.52	0.00	-13.95	-254.81
nd139	41 20.19	-108 25.12	7094.00	wy 979611.27	980288.46	0.55	-241.96	-1.51	0.00	-10.30	-253.22
nd140	41 19.61	-108 26.81	7194.00	wy 979604.44	980287.59	1.35	-245.37	-1.51	0.00	-6.87	-252.40
nd141	41 16.95	-108 32.60	7198.00	wy 979603.01	980283.62	0.25	-245.50	-1.51	0.00	-3.95	-250.71
nd142	41 17.16	-108 35.95	7410.00	wy 979596.36	980283.93	0.50	-252.73	-1.50	0.00	9.01	-244.73
nd143	41 18.36	-108 36.71	7678.00	wy 979583.59	980285.73	0.78	-261.87	-1.49	0.00	19.62	-242.96
nd144	41 18.56	-108 39.40	8380.00	wy 979542.70	980286.02	3.56	-285.82	-1.44	0.00	44.39	-239.30
nd145	41 19.79	-108 40.78	7757.00	wy 979589.92	980287.86	1.35	-264.57	-1.49	0.00	31.24	-233.46
nd146	41 20.03	-108 42.74	7677.00	wy 979597.24	980288.22	1.62	-261.84	-1.49	0.00	30.69	-231.03
nd147	41 17.42	-108 51.44	6903.00	wy 979648.89	980284.31	0.13	-235.44	-1.52	0.00	13.51	-223.32
nd148	41 18.49	-108 53.64	6792.00	wy 979659.66	980285.92	0.35	-231.66	-1.52	0.00	12.25	-220.58
nd149	41 19.50	-108 56.61	6755.00	wy 979668.43	980287.43	0.91	-230.39	-1.52	0.00	16.03	-214.97
nd150	41 21.37	-108 56.25	6701.00	wy 979676.80	980290.23	1.13	-228.55	-1.52	0.00	16.53	-212.41
nd151	41 23.81	-108 55.94	6655.00	wy 979686.32	980293.88	0.60	-226.98	-1.52	0.00	18.08	-209.82
nd152	41 25.88	-108 56.20	6632.00	wy 979693.20	980296.97	1.07	-226.20	-1.52	0.00	19.71	-206.94
wy1	41 44.76	-108 57.18	6788.00	wy 979706.38	980325.23	0.36	-231.52	-1.52	0.00	19.28	-213.40
wy2	41 46.05	-108 57.13	6983.00	wy 979691.68	980327.16	0.75	-238.17	-1.52	0.00	20.96	-217.97

BOUGUER GRAVITY DATA

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S. W. Wyoming Bouguer Gravity Data
 Bankey and Kulik 1982-84
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STATION IDENTIFICATION	L O C A T I O N S	ELE	G R A V I T Y	C O R R E C T I O N S	TERRAIN	BOUGUER	CURV	SPECIAL	A N O M A L I E S	FREE COMPLETE-BOUGUER
proj sta-id	deg min deg min	(1n ft)	ST OBSERVED THEORETICAL	TERRAIN BOUGUER CURV	2.67 g/cc	2.67 g/cc			AIR	2.67 g/cc
WY3	41 46.15 -108 55.79	7497.00	WY 979658.11	980327.32	1.19	-255.70	-1.50	0.00	35.54	-220.47
WY4	41 47.51 -108 54.81	7566.00	WY 979649.48	980329.35	0.90	-258.05	-1.50	0.00	31.36	-227.29
WY5	41 47.81 -108 52.99	6979.00	WY 979690.26	980329.80	0.42	-238.03	-1.52	0.00	16.53	-222.60
WY6	41 49.22 -108 53.94	7102.00	WY 979682.42	980331.91	0.52	-242.23	-1.51	0.00	18.14	-225.09
WY7	41 49.52 -108 52.53	7057.00	WY 979685.66	980332.37	0.70	-240.69	-1.51	0.00	16.70	-224.81
WY8	41 50.10 -108 50.66	7084.00	WY 979682.89	980333.23	0.37	-241.61	-1.51	0.00	15.59	-227.16
WY9	41 50.34 -108 49.66	7061.00	WY 979683.95	980333.59	0.29	-240.83	-1.51	0.00	14.14	-227.92
WY10	41 51.65 -108 50.31	6970.00	WY 979689.38	980335.55	0.16	-237.73	-1.52	0.00	9.05	-230.03
WY11	41 52.35 -108 50.07	6814.00	WY 979699.17	980336.61	0.15	-232.41	-1.52	0.00	3.14	-230.64
WY12	41 53.69 -108 47.19	6830.00	WY 979694.52	980338.61	0.06	-232.95	-1.52	0.00	-2.02	-236.43
WY13	41 54.15 -108 44.73	6788.00	WY 979695.84	980339.30	0.03	-231.52	-1.52	0.00	-5.34	-238.34
WY14	41 56.42 -108 43.29	6726.00	WY 979700.70	980342.70	0.02	-229.40	-1.52	0.00	-9.71	-240.61
WY15	41 57.60 -108 41.17	6673.00	WY 979705.44	980344.48	0.02	-227.60	-1.52	0.00	-11.72	-240.81
WY16	41 57.79 -108 38.40	6650.00	WY 979706.96	980344.77	0.08	-226.81	-1.52	0.00	-12.64	-240.89
WY17	41 59.30 -108 39.95	6718.00	WY 979705.92	980347.02	0.01	-229.13	-1.52	0.00	-9.56	-240.19
WY18	42 1.06 -108 38.77	6869.00	WY 979698.90	980349.67	0.16	-234.28	-1.52	0.00	-5.03	-240.67
WY19	42 2.80 -108 32.94	6790.00	WY 979704.36	980352.28	0.02	-231.59	-1.52	0.00	-9.60	-242.69
WY20	42 3.68 -108 31.80	6817.00	WY 979702.87	980353.59	0.04	-232.51	-1.52	0.00	-9.88	-243.87
WY21	42 5.35 -108 29.50	6908.00	WY 979697.21	980356.10	0.32	-235.61	-1.52	0.00	-9.49	-246.30
WY22	42 8.16 -108 29.79	6808.00	WY 979706.31	980360.31	0.10	-232.20	-1.52	0.00	-14.00	-247.62
WY23	42 9.64 -108 24.89	6751.00	WY 979708.98	980362.54	0.12	-230.26	-1.52	0.00	-18.91	-250.56
WY24	42 9.49 -108 22.96	6776.00	WY 979706.87	980362.31	0.06	-231.11	-1.52	0.00	-18.45	-251.02
WY25	42 10.85 -108 21.66	6850.00	WY 979706.05	980364.35	0.12	-233.63	-1.52	0.00	-14.36	-249.39
WY26	41 28.57 -109 28.87	7083.00	WY 979639.31	980301.00	0.96	-241.58	-1.51	0.00	4.17	-237.97
WY27	41 27.24 -109 29.86	7172.00	WY 979632.13	980299.01	1.00	-244.62	-1.51	0.00	7.34	-237.79
WY28	41 26.27 -109 31.73	6972.00	WY 979642.68	980297.55	0.64	-237.79	-1.52	0.00	0.55	-238.12
WY29	41 24.53 -109 31.94	6925.00	WY 979644.99	980294.95	0.92	-236.19	-1.52	0.00	1.05	-235.74
WY30	41 27.71 -109 34.84	6335.00	WY 979679.07	980299.70	0.60	-216.07	-1.51	0.00	-25.07	-242.05
WY31	41 22.08 -109 37.48	6197.00	WY 979683.09	980291.29	0.43	-211.36	-1.51	0.00	-25.59	-238.03
WY32	41 19.91 -109 38.19	6448.00	WY 979663.47	980288.04	0.26	-219.92	-1.51	0.00	-18.39	-239.56
WY33	41 18.15 -109 40.48	6298.00	WY 979669.61	980285.41	0.03	-214.81	-1.51	0.00	-23.71	-239.99
WY34	41 16.00 -109 42.80	6289.00	WY 979665.68	980282.20	0.08	-214.50	-1.51	0.00	-25.27	-241.20
WY35	41 39.16 -108 34.32	7145.00	WY 979663.11	980316.85	0.24	-243.70	-1.51	0.00	17.94	-227.03
WY36	41 40.70 -108 34.75	7046.00	WY 979673.18	980319.15	0.55	-240.32	-1.51	0.00	16.40	-224.89
WY37	41 42.19 -108 35.33	7075.00	WY 979674.39	980321.39	0.18	-241.31	-1.51	0.00	18.10	-224.54
WY38	41 44.02 -108 35.41	7016.00	WY 979679.69	980324.13	0.11	-239.30	-1.52	0.00	15.11	-225.59
WY39	41 46.35 -108 36.47	7235.00	WY 979665.90	980327.62	0.35	-246.77	-1.51	0.00	18.41	-229.52
WY40	41 49.13 -108 35.73	7061.00	WY 979676.32	980331.78	0.26	-240.83	-1.51	0.00	8.32	-233.77
WY41	41 51.42 -108 36.51	6762.00	WY 979698.62	980335.21	0.02	-230.29	-1.52	0.00	-1.85	-233.64
WY42	41 52.39 -108 38.38	6768.00	WY 979695.52	980336.67	0.13	-230.84	-1.52	0.00	-4.90	-237.12

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BOUGUER GRAVITY DATA

S. W. Wyoming Bouguer Gravity Data
 Bankey and Kulik 1982-84
 Meter used: var

STATION IDENTIFICATION	L O C A T I O N S	ELE	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	FREE COMPLETE					
sta-id	LATITUDE deg min deg	LONGITUDE deg min	ST OBSERVED (1n ft)	TERRAIN BOUGUER CURV	SPECIAL AIR	BOUGUER g/cc					
WY43	41 52.78	-108 34.25	6666.00	WY 979702.76	980337.26	0.01	-227.36	-1.52	0.00	-7.83	-236.69
WY44	41 52.98	-108 32.33	6635.00	WY 979705.40	980337.55	0.01	-226.30	-1.52	0.00	-8.40	-236.21
WY45	41 53.00	-108 29.42	6622.00	WY 979707.92	980337.58	-0.05	-225.86	-1.52	0.00	-7.13	-234.55
WY46	41 55.79	-108 29.96	6707.00	WY 979702.82	980341.76	-0.03	-228.76	-1.52	0.00	-8.43	-238.73
WY47	42 0.19	-108 31.53	6769.00	WY 979701.27	980348.37	0.00	-230.87	-1.52	0.00	-10.75	-243.14
WY48	41 57.54	-108 30.83	6729.00	WY 979702.34	980344.39	0.03	-229.51	-1.52	0.00	-9.46	-240.46
WY49	41 49.25	-108 28.84	6666.00	WY 979703.19	980331.96	0.04	-227.36	-1.52	0.00	-2.11	-230.94
WY50	41 47.86	-108 27.96	6846.00	WY 979689.96	980329.88	0.14	-233.50	-1.52	0.00	3.66	-231.21
WY51	41 45.41	-108 26.66	6798.00	WY 979688.62	980326.20	0.26	-231.86	-1.52	0.00	1.48	-231.64
WY52	41 43.95	-108 25.60	6692.00	WY 979691.13	980324.02	-0.03	-228.24	-1.52	0.00	-3.78	-233.57
WY53	41 41.84	-108 25.48	6764.00	WY 979682.55	980320.86	0.03	-230.70	-1.52	0.00	-2.44	-234.63
WY54	41 39.60	-108 23.59	6834.00	WY 979671.84	980317.51	0.02	-223.09	-1.52	0.00	-3.21	-237.80
WY55	41 40.41	-108 7.10	6701.00	WY 979676.00	980318.72	-0.04	-228.55	-1.52	0.00	-12.77	-242.87
WY56	41 42.17	-108 7.82	6644.00	WY 979684.72	980321.35	-0.07	-226.61	-1.52	0.00	-12.04	-240.23
WY57	41 44.49	-108 7.55	6608.00	WY 979693.59	980324.83	-0.08	-225.38	-1.52	0.00	-10.02	-237.00
WY58	41 46.60	-108 10.14	6653.00	WY 979696.78	980327.99	-0.06	-226.91	-1.52	0.00	-5.77	-234.26
WY59	41 48.54	-108 9.73	6690.00	WY 979698.62	980330.40	-0.06	-228.18	-1.52	0.00	-3.36	-239.12
WY60	41 50.89	-108 10.04	6654.00	WY 979704.39	980334.92	0.09	-226.95	-1.52	0.00	-4.49	-232.87
WY61	41 53.50	-108 10.42	6818.00	WY 979694.98	980338.34	0.05	-232.54	-1.52	0.00	-2.40	-236.41
WY62	41 54.74	-108 10.70	6604.00	WY 979709.57	980340.19	0.00	-225.24	-1.52	0.00	-9.78	-235.54
WY63	41 56.71	-108 13.22	6608.00	WY 979710.73	980343.15	-0.04	-225.38	-1.52	0.00	-11.20	-238.13
WY64	41 57.77	-108 14.47	6599.00	WY 979711.60	980344.73	-0.05	-225.07	-1.52	0.00	-12.76	-239.40
WY65	41 58.23	-108 16.96	6686.00	WY 979706.64	980345.42	-0.02	-228.04	-1.52	0.00	-10.24	-239.82
WY66	41 55.23	-108 16.28	6792.00	WY 979700.65	980340.92	0.28	-231.66	-1.52	0.00	-1.77	-234.67
WY67	41 52.40	-108 15.96	6720.00	WY 979704.06	980336.68	0.00	-229.20	-1.52	0.00	-0.88	-231.60
WY68	41 48.51	-108 16.44	6576.00	WY 979706.24	980330.85	-0.08	-224.29	-1.52	0.00	-6.41	-232.29
WY69	41 45.96	-108 16.24	6578.00	WY 979699.84	980327.03	-0.08	-224.36	-1.52	0.00	-8.79	-234.75
WY70	41 43.34	-108 16.05	6726.00	WY 979683.36	980323.10	0.00	-229.40	-1.52	0.00	-7.45	-238.37
WY71	41 41.85	-108 15.05	6700.00	WY 979680.63	980320.88	0.01	-228.52	-1.52	0.00	-10.38	-240.41
WY72	41 40.80	-108 15.30	6819.00	WY 979670.24	980319.30	0.03	-232.58	-1.52	0.00	-8.02	-242.08
WY73	41 38.94	-108 15.81	7011.00	WY 979653.11	980316.52	0.13	-239.13	-1.52	0.00	-4.33	-244.84
WY74	41 37.69	-110 0.78	6379.00	WY 979701.21	980314.65	-0.16	-217.57	-1.51	0.00	-13.74	-232.98
WY75	41 39.01	-110 2.44	6458.00	WY 979698.27	980316.63	-0.11	-220.26	-1.51	0.00	-11.23	-233.11
WY76	41 41.61	-110 3.94	6430.00	WY 979704.28	980320.52	-0.17	-219.31	-1.51	0.00	-11.75	-232.74
WY77	41 43.88	-110 5.60	6529.00	WY 979700.41	980323.91	-0.14	-222.69	-1.51	0.00	-9.71	-234.05
WY78	41 45.99	-110 8.37	6707.00	WY 979689.24	980327.08	0.49	-228.76	-1.52	0.00	-7.32	-237.10
WY79	41 46.78	-110 11.15	6599.00	WY 979695.66	980328.27	-0.11	-225.07	-1.52	0.00	-12.23	-238.93
WY80	41 52.34	-110 15.97	6610.00	WY 979694.83	980336.59	0.15	-225.45	-1.52	0.00	-20.36	-247.18
WY81	41 46.29	-110 19.72	6683.00	WY 979689.45	980327.52	0.05	-227.94	-1.52	0.00	-9.81	-239.22
WY82	41 46.27	-110 23.17	6811.00	WY 979685.28	980327.50	0.32	-232.30	-1.52	0.00	-1.93	-235.43

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BOUGUER GRAVITY DATA

S. W. Wyoming Bouguer Gravity Data
 Bankey and Kulik 1982-84
 Meter used: var

STATION IDENTIFICATION Proj	L O C A T I O N S LATITUDE deg min	L O N G I T U D E LONGITUDE deg min	ELE (1n ft)	G R A V I T Y ST OBSERVED	T H E O R E T I C A L	T E R R A I N BOUGUER g/cc	C U R V	A N O M A L I E S FREE COMPLETE-BOUGUER AIR			
WY83	41 45.97	-110 25.76	6792.00	WY 979693.56	980327.05	0.13	-231.66	-1.52	0.00	5.02	-228.02
WY84	41 45.35	-110 28.60	6805.00	WY 979691.66	980326.12	0.32	-232.10	-1.52	0.00	5.27	-228.02
WY85	41 50.21	-110 32.01	6949.00	WY 979683.73	980333.40	0.59	-237.01	-1.52	0.00	3.59	-234.35
WY86	41 52.32	-110 30.90	7091.00	WY 979681.02	980335.56	0.88	-241.85	-1.51	0.00	11.06	-231.43
WY87	41 52.11	-110 27.58	7347.00	WY 979667.97	980336.25	0.42	-250.59	-1.51	0.00	22.37	-229.30
WY88	41 53.49	-110 24.62	7393.00	WY 979663.68	980338.32	0.85	-252.15	-1.51	0.00	20.34	-232.47
WY89	41 53.38	-110 21.50	7188.00	WY 979669.75	980338.16	1.27	-245.16	-1.51	0.00	7.31	-238.10
WY90	41 54.71	-110 18.47	6961.00	WY 979682.39	980340.14	0.20	-237.42	-1.52	0.00	-3.37	-242.11
WY91	41 55.96	-110 16.34	6765.00	WY 979697.10	980342.02	0.02	-230.73	-1.52	0.00	-8.95	-241.18
WY92	41 57.51	-110 13.73	6674.00	WY 979706.64	980344.34	0.06	-227.63	-1.52	0.00	-10.29	-239.37
WY93	42 1.13	-110 9.20	6876.00	WY 979699.04	980349.77	0.30	-234.52	-1.52	0.00	-4.34	-240.08
WY94	42 2.73	-110 9.57	6781.00	WY 979707.91	980352.17	0.01	-231.28	-1.52	0.00	-6.79	-239.58
WY95	42 4.43	-110 9.60	6569.00	WY 979724.23	980354.72	0.06	-224.05	-1.52	0.00	-12.94	-238.45
WY96	42 4.30	-110 12.18	6943.00	WY 979700.40	980354.53	0.18	-226.81	-1.52	0.00	-1.44	-239.58
WY97	42 4.88	-110 14.42	6700.00	WY 979720.08	980355.39	0.33	-228.52	-1.52	0.00	-5.46	-235.17
WY98	42 4.42	-110 17.51	6743.00	WY 979717.88	980354.71	0.22	-229.98	-1.52	0.00	-2.93	-234.21
WY99	41 55.96	-110 16.34	6765.00	WY 979697.13	980342.02	0.02	-230.73	-1.52	0.00	-8.94	-241.17
WY99	41 53.25	-110 15.59	6696.00	WY 979695.93	980337.95	-0.04	-228.38	-1.52	0.00	-12.55	-242.48
WY100	41 48.22	-110 19.16	6660.00	WY 979692.45	980330.42	0.74	-227.15	-1.52	0.00	-11.86	-239.79
WY81	41 46.29	-110 19.72	6683.00	WY 979689.47	980327.52	0.05	-227.94	-1.52	0.00	-9.80	-239.20
WY101	41 45.83	-110 33.74	6901.00	WY 979679.19	980326.84	0.47	-235.37	-1.52	0.00	1.09	-235.32
WY102	41 44.52	-110 34.16	6804.00	WY 979683.92	980324.88	0.15	-232.06	-1.52	0.00	-1.32	-234.75
WY103	41 41.71	-110 34.30	6770.00	WY 979684.96	980320.67	0.11	-230.91	-1.52	0.00	0.73	-231.58
WY104	41 37.99	-110 34.28	6644.00	WY 979690.78	980315.10	0.24	-226.61	-1.52	0.00	0.29	-227.60
WY105	41 35.90	-110 34.47	6614.00	WY 979690.96	980311.96	0.23	-225.58	-1.52	0.00	0.78	-226.09
WY106	41 32.58	-110 35.45	6585.00	WY 979689.29	980307.00	0.72	-224.60	-1.52	0.00	1.35	-224.04
WY107	41 30.55	-110 36.30	6601.00	WY 979684.70	980303.96	1.54	-225.14	-1.52	0.00	1.30	-223.81
WY108	41 28.67	-110 36.96	6657.00	WY 979678.13	980301.14	0.79	-227.05	-1.52	0.00	2.81	-224.97
WY109	41 24.40	-110 38.19	6672.00	WY 979668.88	980294.76	1.58	-227.56	-1.52	0.00	1.36	-226.14
WY110	41 21.28	-110 41.13	6792.00	WY 979651.20	980290.09	0.42	-231.66	-1.52	0.00	0.38	-233.13
WY111	41 18.95	-110 43.16	6877.00	WY 979639.16	980286.60	0.98	-234.55	-1.52	0.00	-0.94	-236.04
bc001	40 17.40	-109 9.61	5251.00	WY 979666.51	980194.82	0.58	-179.10	-1.44	0.00	-34.60	-214.56
bc002	40 17.20	-109 8.44	5289.00	WY 979667.03	980194.52	0.50	-180.39	-1.44	0.00	-30.21	-211.55
bc003	40 18.68	-109 7.07	5509.00	WY 979658.21	980196.72	1.06	-187.90	-1.46	0.00	-20.55	-208.85
bc004	40 19.74	-109 6.77	5700.00	WY 979644.14	980198.30	1.62	-194.41	-1.48	0.00	-18.25	-212.52
bc005	40 20.48	-109 5.79	6130.00	WY 979617.26	980199.40	2.07	-209.08	-1.50	0.00	-5.82	-214.33
bc006	40 20.96	-109 4.81	6490.00	WY 979594.07	980200.11	2.59	-221.36	-1.51	0.00	4.11	-216.17
bc007	40 21.15	-109 4.06	6660.00	WY 979587.83	980200.40	2.55	-227.15	-1.52	0.00	13.55	-212.57
bc008	40 21.31	-109 2.76	6990.00	WY 979559.39	980200.63	2.94	-238.41	-1.52	0.00	25.89	-211.10
bc009	40 21.49	-109 1.37	7280.00	WY 979549.33	980200.91	2.50	-248.30	-1.51	0.00	32.81	-214.50

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BOUGUER GRAVITY DATA

S. W. Wyoming Bouguer Gravity Data
 Bankey and Kulik 1982-84
 Meter used: var

STATION IDENTIFICATION Proj sta-id	L O C A T I O N S		ELE (1n ft)	G R A V I T Y ST OBSERVED	T H E O R E T I C A L	C O R R E C T I O N S		S P E C I A L	A N O M A L I E S		
	LATITUDE deg min	LONGITUDE deg min				TERRAIN 2.67 g/cc	BOUGUER CURV		F R E E A I R	C O M P L E T E - B O U G U E R 2.67 g/cc	
bc010	40 21.70	-109 0.47	7460.00	979544.18	980201.22	2.60	-254.44	-1.50	0.00	44.26	-209.08
bc011	40 21.67	-108 59.30	7529.00	979540.61	980201.17	2.04	-256.79	-1.50	0.00	47.21	-209.04
bc012	40 21.50	-108 58.36	7570.00	979539.50	980200.91	1.99	-258.19	-1.50	0.00	50.21	-209.49
bc013	40 22.07	-108 59.69	7666.00	979532.53	980201.76	2.43	-261.47	-1.49	0.00	51.41	-209.12
bc014	40 20.99	-108 56.96	7514.00	979546.39	980200.16	1.72	-256.28	-1.50	0.00	52.60	-203.46
bc015	40 20.30	-108 56.61	7720.00	979534.28	980199.13	2.58	-263.31	-1.49	0.00	60.87	-201.35
bc016	40 19.56	-108 52.38	7710.00	979535.37	980198.03	8.62	-262.97	-1.49	0.00	62.12	-193.72
bc017	40 19.13	-108 56.13	7720.00	979535.68	980197.39	2.80	-263.31	-1.49	0.00	64.01	-197.99
bc018	40 18.68	-108 55.96	7645.00	979540.57	980196.72	2.75	-260.75	-1.49	0.00	62.53	-196.97
bc019	40 18.21	-108 56.60	7500.00	979550.44	980196.02	2.80	-255.80	-1.50	0.00	59.47	-195.04
bc020	40 17.59	-108 57.54	7055.00	979573.19	980195.10	2.33	-240.63	-1.51	0.00	41.33	-198.49
bc021	40 16.95	-108 59.01	6580.00	979609.75	980194.15	1.24	-224.42	-1.52	0.00	34.21	-190.49
bc022	40 15.66	-108 58.86	6300.00	979627.30	980192.23	0.68	-214.87	-1.51	0.00	27.36	-188.34
bc023	40 15.08	-108 58.50	6040.00	979639.89	980191.37	1.58	-206.01	-1.50	0.00	16.38	-189.54
bc024	40 14.71	-108 58.35	5940.00	979645.24	980190.82	1.11	-202.60	-1.49	0.00	12.89	-190.09
bc025	40 14.63	-108 59.49	5910.00	979646.78	980190.70	0.89	-201.57	-1.49	0.00	11.73	-190.44
bc026	40 15.15	-109 1.15	5800.00	979651.57	980191.47	2.15	-197.82	-1.48	0.00	5.41	-191.75
bc027	40 15.54	-109 1.78	5720.00	979656.53	980192.05	1.40	-195.09	-1.48	0.00	2.26	-192.91
bc028	40 16.41	-109 2.97	5604.00	979661.35	980193.34	1.08	-191.14	-1.47	0.00	-5.11	-196.63
bc029	40 16.78	-109 4.07	5589.00	979656.46	980193.90	0.49	-190.62	-1.47	0.00	-11.96	-203.57
bc030	40 16.96	-109 5.71	5440.00	979659.75	980194.16	0.86	-185.54	-1.46	0.00	-22.94	-209.08
bc031	40 17.07	-109 2.61	5355.00	979662.61	980194.33	6.55	-182.64	-1.45	0.00	-28.24	-205.78
bc032	40 17.82	-109 2.75	5630.00	979658.64	980195.45	1.61	-192.02	-1.47	0.00	-7.48	-199.36
bc033	40 17.06	-109 2.77	5600.00	979660.85	980194.31	1.18	-191.00	-1.47	0.00	-6.95	-198.24
bc034	40 17.73	-109 4.16	5560.00	979657.97	980195.30	0.83	-189.64	-1.47	0.00	-14.59	-204.86
bc035	40 17.61	-109 5.90	5450.00	979663.15	980195.13	0.79	-185.88	-1.46	0.00	-19.57	-206.12
bc036	40 18.16	-109 6.54	5425.00	979664.44	980195.95	0.86	-185.03	-1.45	0.00	-21.45	-207.07
bc037	40 18.64	-109 5.94	5490.00	979660.41	980196.66	1.20	-187.25	-1.46	0.00	-20.09	-207.60
bc038	40 18.94	-109 4.81	5560.00	979659.08	980197.11	1.98	-189.64	-1.47	0.00	-15.28	-204.40
bc039	40 19.36	-109 5.43	5600.00	979654.96	980197.73	2.66	-191.00	-1.47	0.00	-16.26	-206.07
bc040	40 16.06	-109 0.49	6288.00	979624.01	980192.83	0.82	-214.47	-1.51	0.00	22.35	-192.81
bc041	40 16.34	-109 0.20	6350.00	979621.79	980193.23	0.79	-216.58	-1.51	0.00	25.54	-191.76
bc042	40 15.69	-108 59.50	6280.00	979623.69	980192.27	0.64	-214.19	-1.51	0.00	21.83	-193.23
bc043	40 22.03	-108 57.14	7364.00	979555.03	980201.70	1.31	-251.16	-1.51	0.00	45.60	-205.76
bc044	40 22.03	-108 56.05	7250.00	979563.28	980201.70	2.00	-247.28	-1.51	0.00	43.14	-203.65
bc045	40 22.33	-108 54.46	7297.00	979559.72	980202.16	1.23	-248.88	-1.51	0.00	43.55	-205.61
bc046	40 18.87	-108 52.64	7400.00	979558.30	980197.00	20.06	-252.39	-1.51	0.00	56.95	-176.89
bc047	40 18.95	-108 57.26	7255.00	979561.21	980197.12	2.33	-247.45	-1.51	0.00	46.12	-200.51
bc048	40 18.91	-108 57.57	7195.00	979571.75	980197.06	2.17	-245.40	-1.51	0.00	51.08	-193.66
bc049	40 18.77	-108 58.20	6955.00	979584.96	980196.85	2.00	-237.22	-1.52	0.00	41.95	-194.78

BOUGUER GRAVITY DATA

S. W. Wyoming Bouguer Gravity Data
 Bankey and Kulik 1982-84
 Meter used: var

STATION IDENTIFICATION	LOC A T I O N S	ELE (1n ft)	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	
sta-id	deg min deg min		ST OBSERVED THEORETICAL	TERRAIN BOUGUER CURV	SPECIAL FREE COMPLETE-BOUGUER	
				2.67 g/cc	AIR	
bc050	40 18.63 -108 58.42	6900.00	wv 979585.75	980196.65	2.21 -235.34 -1.52	0.00 37.78 -196.87
bc051	40 18.46 -108 58.62	6760.00	wv 979593.62	980196.40	2.33 -230.56 -1.52	0.00 32.75 -197.01
bc052	40 18.50 -108 58.97	6635.00	wv 979603.75	980196.45	2.05 -226.30 -1.52	0.00 31.07 -194.70
bc053	40 18.48 -108 59.36	6450.00	wv 979612.25	980196.42	2.03 -219.99 -1.51	0.00 22.22 -197.26
bc054	40 18.40 -108 59.68	6230.00	wv 979627.14	980196.30	1.66 -212.49 -1.51	0.00 16.55 -195.78
bc055	40 18.33 -108 59.97	6010.00	wv 979641.21	980196.20	1.99 -204.98 -1.50	0.00 10.05 -194.44
bc056	40 18.30 -109 0.33	5940.00	wv 979644.25	980196.16	1.81 -202.60 -1.49	0.00 6.56 -195.72
bc057	40 18.02 -109 0.89	5870.00	wv 979650.49	980195.73	1.44 -200.21 -1.49	0.00 6.63 -193.62
bc058	40 18.07 -109 1.60	5770.00	wv 979653.32	980195.82	1.42 -196.80 -1.48	0.00 -0.01 -196.87
bc059	40 17.98 -109 2.15	5725.00	wv 979655.11	980195.68	1.86 -195.26 -1.48	0.00 -2.31 -197.20
bc060	40 14.03 -109 2.23	5990.00	wv 979636.08	980189.80	0.19 -204.30 -1.50	0.00 9.44 -196.17
bc061	40 13.33 -109 2.43	5994.00	wv 979634.26	980188.77	0.14 -204.44 -1.50	0.00 9.03 -196.76
bc062	40 13.42 -109 3.03	6054.00	wv 979627.74	980188.91	0.43 -206.48 -1.50	0.00 8.02 -199.53
bc063	40 12.92 -109 3.43	6008.00	wv 979629.65	980188.16	0.33 -204.92 -1.50	0.00 6.35 -199.74
bc064	40 12.30 -109 3.52	5949.00	wv 979631.76	980187.23	0.15 -202.90 -1.49	0.00 3.83 -200.41
bc065	40 11.99 -109 4.08	5900.00	wv 979625.78	980186.77	0.33 -204.30 -1.50	0.00 2.17 -203.30
bc066	40 12.48 -109 4.60	5900.00	wv 979630.89	980187.50	0.33 -201.23 -1.49	0.00 -1.90 -204.30
bc067	40 11.78 -109 4.88	5975.00	wv 979624.80	980186.46	0.27 -203.79 -1.49	0.00 0.09 -204.93
bc068	40 12.11 -109 5.13	6000.00	wv 979622.96	980186.95	0.45 -204.64 -1.50	0.00 0.11 -205.58
bc069	40 11.82 -109 5.21	5930.00	wv 979627.43	980186.52	0.32 -202.26 -1.49	0.00 -1.57 -205.00
bc070	40 11.72 -109 5.81	5910.00	wv 979627.35	980186.37	0.18 -201.57 -1.49	0.00 -3.38 -206.26
bc071	40 11.88 -109 6.11	5935.00	wv 979624.89	980186.61	0.19 -202.43 -1.49	0.00 -3.72 -207.45
bc072	40 11.65 -109 6.89	5870.00	wv 979628.87	980186.27	0.11 -200.21 -1.49	0.00 -5.51 -207.10
bc073	40 17.91 -109 2.44	5670.00	wv 979656.74	980195.58	1.90 -193.39 -1.48	0.00 -5.75 -198.71
bc074	40 14.34 -109 0.60	5858.00	wv 979649.26	980190.27	0.67 -199.80 -1.49	0.00 9.75 -190.87
bc075	40 14.25 -109 1.30	5935.00	wv 979643.19	980190.13	0.28 -202.43 -1.49	0.00 11.05 -192.59
bc076	40 14.22 -109 1.63	5990.00	wv 979637.99	980190.09	0.20 -204.30 -1.50	0.00 11.07 -194.53
bc077	40 19.01 -108 55.36	8060.00	wv 979520.36	980197.21	4.01 -274.90 -1.46	0.00 80.81 -191.55

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