

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Principal facts for gravity stations in the South Absaroka

Wilderness, Wyoming

by

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Open-File Report 82- 1034

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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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STUDIES RELATED TO WILDERNESS

The Wilderness Act (Public Law 88-577, September 3, 1964) and related acts require the U.S. Geological Survey and the U.S. Bureau of Mines to survey certain areas on Federal Lands to determine their mineral resource potential. Results must be made available to the public and be submitted to the President and the Congress. This report presents the results of a geophysical survey of the South Absaroka Wilderness, and several areas contiguous to the North and South Absaroka Wilderness. Areas are in the Shoshone National Forest, Park County, Wyoming. The U.S. Forest Service has proposed to combine the South Absaroka Wilderness, the Stratified Primitive Area, and the DuNoir Addition into a single entity called the Washakie Wilderness.

Introduction

During the summer of 1977, 162 gravity stations were established in the South Absaroka Wilderness and areas contiguous to the North and South Absaroka Wildernesses, Park County, Wyoming (Fig. 1). These data were collected as part of the U.S. Geological Survey's (USGS) ongoing program to evaluate the oil, gas, and mineral-resource potential of wilderness areas.

Data Collection

Gravity observations were made using LaCoste-Romberg meter G-17. The gravity stations were established using motor vehicle and helicopter. These stations were referenced to base station ACIC 1651-1 of the International Gravity Standardization Net, 1971 (Defense Mapping Agency Aerospace Center, 1974) at Cody, Wyoming. Gravity loops were closed daily using a temporary base, that was established near the working area and was tied to the Cody base station. The Cody base description is given in appendix A.

The vertical and horizontal positions of the stations are from the locations of benchmarks, spot elevations, and section corners found on USGS topographic maps at scales of 1:24,000 and 1:62,500.

Data Reduction

The principal facts and terrain-corrected gravity values were reduced by computer programs existing on the USGS Honeywell Multics computer system. The program "gravity_red" written by D. Dansereau and R. Wahl (USGS, unpublished program, 1979) was used to reduce gravity meter readings to observed gravity values by calculating and correcting for earth-tide and linear meter drift, the program also computes free-air and simple-Bouguer anomaly values. The observed gravity values are based on the International Gravity Standardization Net 1971 base values, and the theoretical gravity value was calculated using the 1967 formula of the Geodetic Reference System (International Association of Geodesy, 1967).

Complete terrain corrections from zone 2.615 km to 167 km were computed using a program "bouguer" by R. H. Godson (USGS, unpublished program 1978), which uses the method of Plouff (1977). Terrain corrections for zones A through H were computed by hand template (Hammer, 1939). An assumed density of 2.67 g/cm^3 was used to calculate all terrain corrections. The program "bouguer" also calculates earth curvature corrections and two complete (terrain-corrected) Bouguer anomaly values per station, which are listed in Appendix B.

References

- Defense Mapping Agency Aerospace Center, 1974, World relative gravity reference network, North America, Part 2: DMAAC Ref. Pub. no. 25, with supplement updating gravity values to the International Gravity Standardization Net 1971, 1635 p.
- Hammer, S. L., 1939, Terrain corrections for gravimeter stations: Geophysics, v. 4, p. 184-194.
- International Association of Geodesy, 1967, Geodetic reference system, 1967: International Association of Geodesy Spec. Pub. no. 3, 74 p.
- Plouff, D., 1977, Preliminary documentation for a FORTRAN program to compute gravity terrain corrections based on topography digitized on a geographic grid: U.S. Geological Survey Open-File Report 77-535.

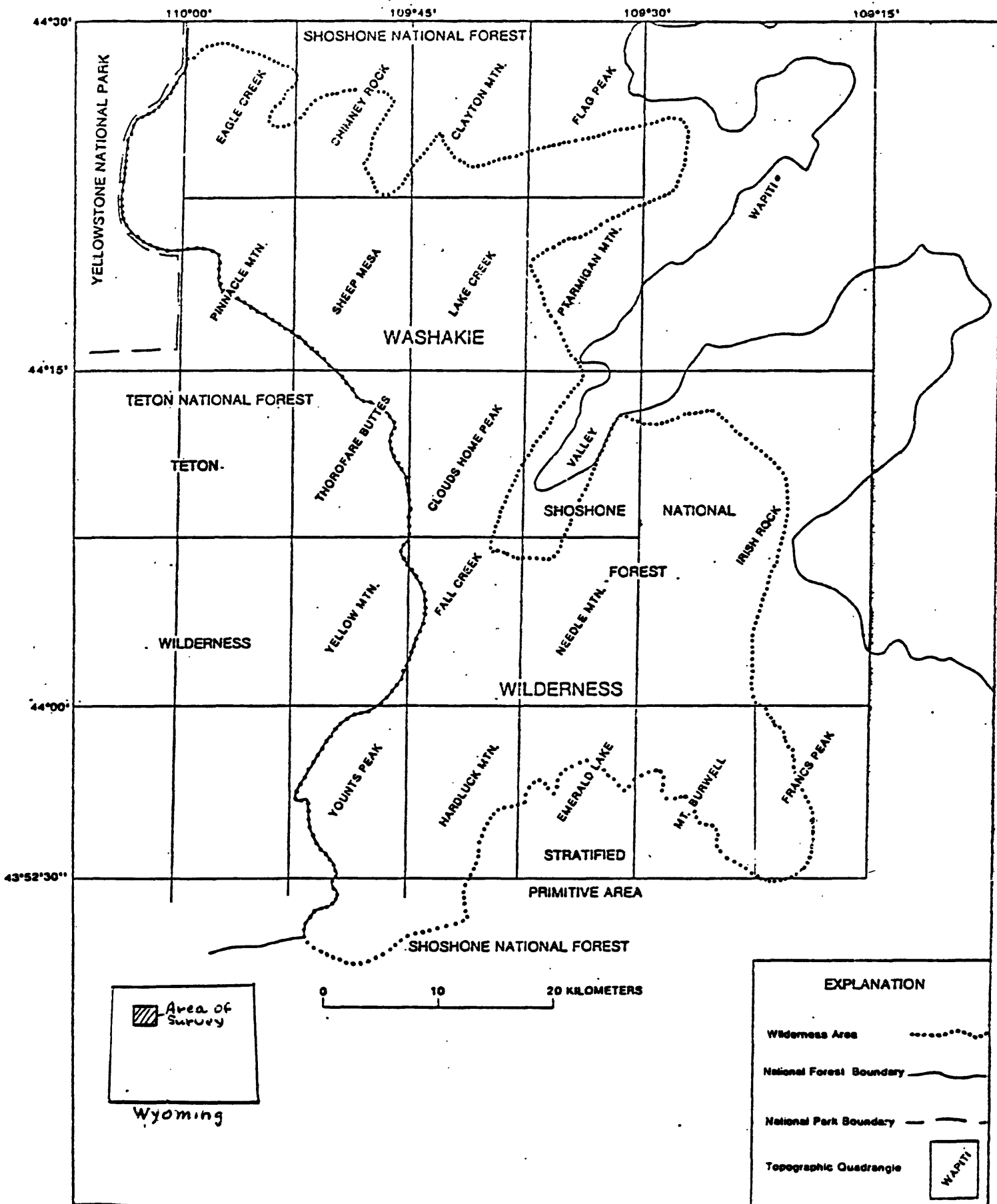


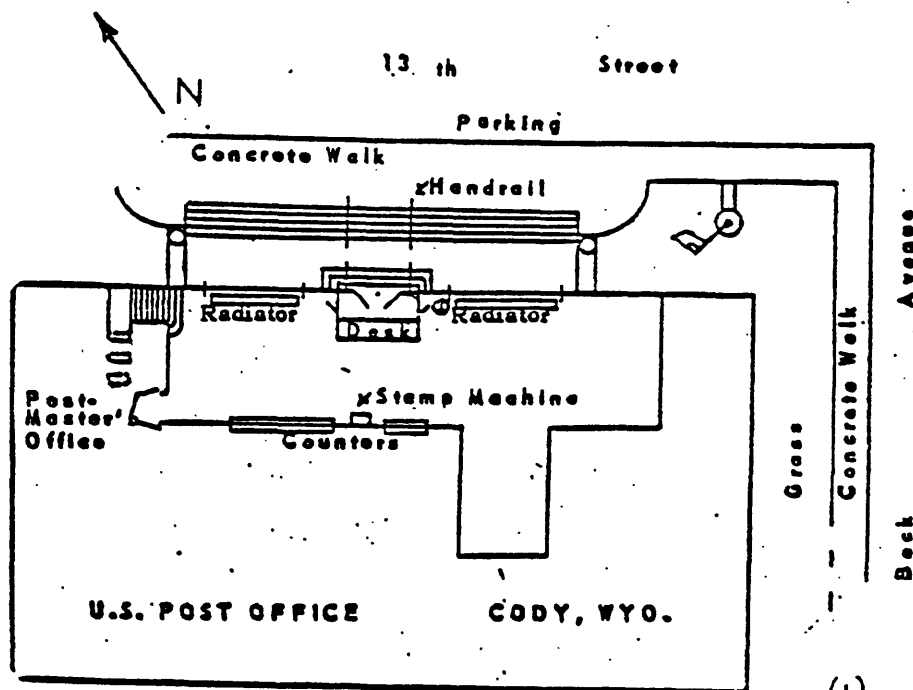
Figure 1. Location map of gravity survey for the South Absaroka Wilderness and study areas contiguous to the North and South Absaroka Wilderness Areas.

GRAVITY BASE STATION

LATITUDE 44° 32.00'N (1)		STATION DESIGNATION	
LONGITUDE 109° 03.00'W (1)		CODY	
ELEVATION 1527 METERS (1)		COUNTRY/STATE USA/Wyoming	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACTC 1651-1		g = 980 063.51 mgals	
IGB 15549B			
		ESTIMATED ACCURACY	DATE
		± 0.1 mgals	MONTH/YEAR 1971

DESCRIPTION AND/OR SKETCH

The station is in Cody on 13th street between Beck Ave and Sheridan Ave at the U.S. Post Office--a two story brick building; in the main lobby against the northeast (front) wall, at the southern of two windows, at the north end of the window and radiator, on the Terrazo floor. The station is monumented with a brass disk inscribed "USAF GRAVITY STATION". (Described, Oct 1966.) (1)



REFERENCE SOURCE

(1) 05110

Appendix B: Principal Facts of Gravity Data

Explanation of headings

Identification

proj	Project name.
sta id	Gravity identification.

Location

latitude	North latitude in degrees, minutes and hundredths of minutes.
longitude	West longitude in degrees, minutes, and hundredths of minutes.
ele	Station elevation in feet.
st	State where station is located.

Gravity

observed	Observed gravity in milligals.
theoretical	Theoretical gravity.

Corrections

terrain	Terrain correction out to 166.7 km in milligals.
Bouguer	Elevation 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 densities.
spec fields	Not used.

BOUGUER GRAVITY DATA

SOUTH ABSAROKA WILDERNESS GRAVITY
CARL LONG

Meter ID: o-17 Date: 07/19/79

STATION		L U C A T I O N S		G R A V I T Y		C O R R E C T I O N S		A N O M A L I E S			
IDENTIFICATION	proj sta-id	LATITUDE	LONGITUDE	ELE	ST	UNSERVED	THEORETICAL	TERRAIN BOUGUER CURV	SPECIAL	FREE	COMPLETE-BOUGUER
		deg min	deg min	(in ft)						AIR	d1=2.67 d2=2.00
wildns:	WSH001	43 58.27	-109 36.00	11400.0	WY	979611.00	980525.95	13.26 -388.82	-0.82	0.00	156.33 -220.06 -125.61
wildns:	WSH002	43 58.52	-109 37.58	10320.0	WY	979683.68	980526.33	6.65 -351.99	-1.11	0.00	127.22 -219.23 -132.29
wildns:	WSH003	44 17.50	-109 39.50	11646.0	WY	979623.48	980554.95	27.75 -397.21	-0.75	0.00	162.91 -207.30 -114.40
wildns:	WSH004	44 17.05	-109 40.83	10935.0	WY	979680.11	980554.27	14.41 -372.96	-0.96	0.00	153.45 -206.05 -115.84
wildns:	WSH005	44 16.06	-109 41.74	11470.0	WY	979639.01	980552.77	22.01 -391.21	-0.80	0.00	164.08 -205.92 -113.07
wildns:	WSH007	44 3.22	-109 40.53	11467.0	WY	979610.02	980533.41	36.44 -391.11	-0.80	0.00	154.18 -201.29 -112.09
wildns:	WSH008	44 4.14	-109 42.47	11465.0	WY	979617.06	980534.80	17.92 -391.04	-0.80	0.00	159.64 -214.28 -120.45
wildns:	WSH009	44 2.95	-109 43.39	11843.0	WY	979582.81	980533.01	25.25 -403.93	-0.68	0.00	162.68 -216.68 -121.49
wildns:	WSH010	44 4.89	-109 41.00	11908.0	WY	979577.81	980535.94	37.23 -406.15	-0.66	0.00	160.86 -208.72 -115.98
wildns:	WSH011	44 7.30	-109 44.27	10020.0	WY	979723.72	980539.57	7.59 -341.75	-1.18	0.00	125.84 -209.50 -125.35
wildns:	WSH012	44 11.64	-109 39.35	10752.0	WY	979677.48	980546.11	18.97 -366.72	-1.00	0.00	141.80 -206.95 -119.44
wildns:	WSH014	44 12.53	-109 33.28	6234.0	WY	979964.89	980547.45	10.51 -212.62	-1.51	0.00	3.47 -200.15 -149.05
wildns:	WSH015	44 15.94	-109 28.58	6396.0	WY	979969.45	980552.59	7.17 -218.15	-1.51	0.00	18.11 -194.38 -141.05
wildns:	WSH016	44 19.52	-109 23.92	5908.0	WY	980010.85	980557.99	5.69 -201.51	-1.49	0.00	8.26 -189.05 -139.53
wildns:	WSH017	44 21.26	-109 20.09	5866.0	WY	980016.86	980560.62	4.14 -200.07	-1.49	0.00	7.70 -189.72 -140.18
wildns:	WSH018	44 21.75	-109 19.23	5805.0	WY	980021.72	980561.35	4.07 -197.99	-1.48	0.00	6.08 -189.32 -140.29
wildns:	WSH019	44 22.65	-109 18.32	5680.0	WY	980031.72	980562.71	3.85 -193.73	-1.48	0.00	2.98 -188.37 -140.36
wildns:	WSH020	44 23.32	-109 17.60	5644.0	WY	980033.76	980563.72	3.35 -192.50	-1.47	0.00	0.63 -190.00 -142.16
wildns:	WSH021	44 24.55	-109 16.01	5486.0	WY	980044.73	980565.58	3.29 -187.11	-1.46	0.00	-5.10 -190.38 -143.89
wildns:	WSH022	44 26.00	-109 15.07	5414.0	WY	980049.35	980567.77	2.81 -184.66	-1.45	0.00	-9.43 -192.74 -146.74

Meter ID: q-17 Date: 07/19/79

STATION IDENTIFICATION		L U C A T I O N S		G R A V I T Y		C O R R E C T I O N S		A N O M A L I E S			
proj	sta-id	LATITUDE	LONGITUDE	ELE	ST	UNSERVED	THEORETICAL	TERRAIN BOUGUER CURV	SPECIAL	FREE	COMPLETE-BOUGUER
		deg min	deg min	(in ft)						AIR	d1=2.67 d2=2.00
wildns:	WSH023	44 25.91	-109 14.33	5427.0	WY	980048.09	980567.63	2.14 -185.10	-1.46	-9.34	-193.75 -147.47
wildns:	WSH024	44 26.68	-109 11.89	5459.0	WY	980044.75	980568.79	1.47 -186.19	-1.46	-10.83	-197.01 -150.29
wildns:	WSH025	44 27.40	-109 10.03	5406.0	WY	980046.97	980569.88	1.41 -184.38	-1.45	-14.68	-199.11 -152.83
wildns:	WSH026	44 28.06	-109 8.04	5393.0	WY	980047.01	980570.87	1.79 -183.94	-1.45	-16.86	-200.46 -154.39
wildns:	WSH027	44 28.95	-109 6.15	5220.0	WY	980057.09	980572.21	1.56 -178.04	-1.44	-24.37	-202.29 -157.64
wildns:	WSH028	44 30.88	-109 5.97	5058.0	WY	980066.83	980575.13	1.88 -172.51	-1.42	-32.77	-204.83 -161.65
wildns:	WSH029	44 24.03	-109 10.60	5917.0	WY	980014.84	980564.80	1.63 -201.81	-1.49	6.29	-195.38 -144.77
wildns:	WSH030	44 25.78	-109 7.68	5555.0	WY	980035.58	980567.43	1.12 -189.46	-1.47	-9.63	-199.44 -151.81
wildns:	WSH031	44 29.60	-109 1.40	5163.0	WY	980051.18	980573.20	0.60 -176.09	-1.43	-36.63	-213.55 -169.15
wildns:	WSH032	44 27.18	-109 0.92	5262.0	WY	980045.39	980569.55	0.59 -179.47	-1.44	-29.46	-209.78 -164.53
wildns:	WSH033	44 24.30	-109 0.15	5496.0	WY	980032.66	980565.20	0.68 -187.45	-1.46	-15.85	-204.09 -156.85
wildns:	WSH034	44 24.90	-109 4.55	5495.0	WY	980035.86	980566.10	1.11 -187.42	-1.46	-13.66	-201.43 -154.31
wildns:	WSH035	44 21.27	-109 6.48	6278.0	WY	979989.58	980560.63	2.04 -214.12	-1.51	19.11	-194.48 -140.88
wildns:	WSH036	44 18.38	-109 5.30	6244.0	WY	979984.48	980556.27	2.45 -212.96	-1.51	15.18	-196.84 -143.63
wildns:	WSH038	43 55.70	-109 37.89	10875.0	WY	979628.00	980522.08	9.40 -370.91	-0.97	127.91	-234.58 -143.62
wildns:	WSH039	43 50.22	-109 51.03	11370.0	WY	979562.92	980513.82	14.67 -387.80	-0.83	137.57	-236.39 -142.55
wildns:	WSH040	43 47.25	-109 45.37	11852.0	WY	979538.90	980509.34	19.57 -404.24	-0.68	143.28	-242.07 -145.37
wildns:	WSH041	43 49.22	-109 45.84	11391.0	WY	979575.32	980512.31	13.25 -388.51	-0.83	133.45	-242.64 -148.27
wildns:	WSH042	43 52.04	-109 47.57	10614.0	WY	979614.73	980516.56	14.27 -362.01	-1.04	95.65	-253.13 -165.61
wildns:	WSH043	43 52.05	-109 51.87	10775.0	WY	979618.95	980516.58	10.41 -367.50	-1.00	114.97	-243.12 -153.26
wildns:	WSH044	43 53.67	-109 46.65	9954.0	WY	979674.46	980519.02	14.47 -339.50	-1.19	90.94	-235.29 -153.42
wildns:	WSH045	43 59.59	-109 47.07	11466.0	WY	979596.38	980527.95	21.82 -391.07	-0.80	145.92	-224.14 -131.28
wildns:	WSH046	44 1.54	-109 45.52	11694.0	WY	979584.56	980530.88	21.59 -398.85	-0.73	152.56	-225.43 -130.57
wildns:	WSH048	44 2.53	-109 38.58	6880.0	WY	979888.03	980532.38	26.58 -234.66	-1.52	2.39	-207.20 -154.61
wildns:	WSH049	43 50.46	-109 42.13	11793.0	WY	979538.35	980514.19	23.90 -402.23	-0.70	132.36	-246.67 -151.56
wildns:	WSH050	43 49.39	-109 38.31	11705.0	WY	979551.88	980512.57	17.22 -399.22	-0.73	139.23	-243.50 -147.46
wildns:	WSH051	43 51.85	-109 38.27	11383.0	WY	979578.03	980516.28	17.43 -388.24	-0.83	131.44	-240.20 -146.94
wildns:	WSH052	43 52.21	-109 43.06	11099.0	WY	979586.11	980516.82	10.52 -378.56	-0.91	112.31	-256.63 -164.05
wildns:	WSH053	43 54.02	-109 42.27	11282.0	WY	979582.70	980519.55	19.86 -384.80	-0.86	123.36	-242.44 -150.65
wildns:	WSH054	43 54.20	-109 39.19	11687.0	WY	979563.01	980519.82	17.08 -398.61	-0.73	141.42	-240.84 -144.92
wildns:	WSH055	44 0.07	-109 36.81	12010.0	WY	979565.92	980528.67	31.12 -409.63	-0.63	165.81	-213.32 -118.18
wildns:	WSH056	44 3.95	-109 36.97	12106.0	WY	979559.92	980534.52	44.04 -412.90	-0.59	162.97	-206.48 -113.77
wildns:	WSH057	44 30.95	-109 11.00	5402.0	WY	980041.69	980575.23	14.18 -184.25	-1.45	-25.69	-197.21 -154.17
wildns:	WSH058	44 30.44	-109 15.93	5413.0	WY	980048.70	980574.46	4.28 -184.62	-1.45	-16.88	-198.67 -153.05
wildns:	WSH059	44 28.95	-109 22.30	5506.0	WY	980047.85	980572.21	4.98 -187.79	-1.46	-6.74	-191.02 -144.77
wildns:	WSH060	44 27.63	-109 31.58	5776.0	WY	980026.49	980570.22	8.61 -197.07	-1.48	-0.55	-190.49 -142.83
wildns:	WSH061	44 27.83	-109 35.17	5887.0	WY	980022.64	980570.52	7.05 -200.79	-1.49	5.54	-189.69 -140.70
wildns:	WSH062	44 28.03	-109 38.65	5972.0	WY	980012.62	980570.83	10.36 -203.69	-1.49	3.21	-191.62 -142.73
wildns:	WSH063	44 27.81	-109 42.68	6111.0	WY	980006.73	980570.49	7.90 -208.43	-1.50	10.71	-191.32 -140.62
wildns:	WSH064	44 27.21	-109 45.40	6234.0	WY	979988.18	980569.59	9.51 -212.62	-1.51	4.62	-200.00 -148.65

Meter ID: g-17 Date: 07/19/79

STATION		L U C A T I O N S		G R A V I T Y		C O R R E C T I O N S		A N O M A L I E S	
IDENTIFICATION	proj	sta-id	LATITUDE	LONGITUDE	ELE	ST	TERRAIN	BOUGUER	FREE
			deg	min	deg	min			AIR
			deg	min	deg	min			
wildns: WSH065			44	27.26	-109	47.71	9.88	-214.53	0.69
wildns: WSH066			44	28.02	-109	52.10	10.27	-219.40	1.75
wildns: WSH067			44	28.83	-109	54.52	9.97	-223.57	5.87
wildns: WSH068			44	30.12	-109	57.85	9.24	-227.63	6.84
wildns: WSH069			44	1.03	-109	32.57	26.11	-410.92	171.74
									0.00
wildns: WSH070			43	57.09	-109	28.46	32.52	-430.94	174.12
wildns: WSH071			43	54.25	-109	27.80	19.44	-392.71	148.41
wildns: WSH072			43	53.26	-109	22.79	21.84	-414.57	175.07
wildns: WSH073			43	56.03	-109	25.36	15.24	-392.81	160.06
wildns: WSH074			43	58.10	-109	24.34	18.40	-366.31	111.97
									0.00
wildns: WSH075			43	58.95	-109	27.20	25.81	-405.19	144.87
wildns: WSH076			43	59.81	-109	32.28	28.12	-417.47	172.05
wildns: WSH077			43	55.34	-109	31.83	14.07	-380.94	141.56
wildns: WSH078			43	55.94	-109	35.35	17.97	-397.55	150.07
wildns: WSH079			43	54.13	-109	35.70	16.15	-398.71	143.89
									0.00
wildns: WSH080			43	52.62	-109	32.88	27.91	-393.70	136.32
wildns: WSH081			44	14.87	-109	43.98	35.53	-396.29	161.35
wildns: WSH082			44	15.32	-109	43.33	23.48	-391.89	169.13
wildns: WSH083			44	18.66	-109	38.12	37.02	-399.05	141.16
wildns: WSH084			44	16.75	-109	37.90	12.57	-341.10	126.57
									0.00
wildns: WSH085			44	13.27	-109	35.95	23.13	-350.96	122.69
wildns: WSH086			44	4.47	-109	45.73	10.52	-366.65	139.90
wildns: WSH087			44	6.69	-109	48.07	9.13	-351.61	126.29
wildns: WSH088			44	8.77	-109	48.06	11.48	-359.83	132.37
wildns: WSH089			44	11.23	-109	45.45	7.83	-349.09	131.14
									0.00
wildns: WSH090			44	14.74	-109	46.80	20.29	-375.52	145.61
wildns: WSH091			44	10.51	-109	30.94	19.27	-328.45	107.90
wildns: WSH093			44	5.37	-109	3.30	1.64	-217.71	10.08
wildns: WSH094			44	6.50	-109	9.62	2.26	-229.54	23.62
wildns: WSH095			44	11.06	-109	17.06	9.83	-312.80	92.54
									0.00
wildns: WSH096			44	16.28	-109	15.62	26.76	-385.44	149.88
wildns: WSH097			44	13.61	-109	16.62	11.55	-366.45	143.58
wildns: WSH098			44	20.32	-109	44.35	15.92	-333.23	107.27
wildns: WSH099			44	20.22	-109	47.80	37.48	-412.18	160.26
wildns: WSH100			44	17.58	-109	47.90	11.00	-352.67	132.17
									0.00
wildns: WSH101			44	15.05	-109	46.47	11.75	-363.00	142.93
wildns: WSH102			44	12.93	-109	44.56	18.08	-363.82	140.03
wildns: WSH103			44	9.49	-109	44.22	9.54	-355.33	133.72
wildns: WSH104			44	9.03	-109	36.43	14.63	-218.46	6.70
wildns: WSH105			44	8.58	-109	35.79	14.97	-236.36	20.76

SOUTH ABSAROKA WILDERNESS GRAVITY
CARL LONG

BOUGUER GRAVITY DATA

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Meter ID: q-17 Date: 07/19/79

STATION		L O C A T I O N S		G R A V I T Y		C O R R E C T I O N S		A N O M A L I E S	
IDENTIFICATION	proj sta-id	LATITUDE deg min	LONGITUDE deg min	ELL ST (in ft)	OBSERVED THEORETICAL	TERRAIN BOUGUER CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER d1=2.67 d2=2.00
wildns:	WSH107	44 9.59	-109 37.17	6469.0 WY	979936.98	18.82	-220.64	-1.51	2.08
wildns:	WSH109	44 9.20	-109 36.69	6360.0 WY	979947.35	15.01	-216.92	-1.51	2.80
wildns:	WSH110	44 20.30	-110 1.99	10481.0 WY	979703.41	29.58	-357.48	-1.07	129.22
wildns:	WSH111	44 23.43	-110 4.13	10937.0 WY	979668.43	33.25	-373.03	-0.96	132.34
wildns:	WSH112	44 20.36	-109 58.88	10001.0 WY	979742.06	19.77	-341.10	-1.18	110.64
wildns:	WSH113	44 23.72	-109 56.65	10503.0 WY	979705.69	14.20	-358.23	-1.07	128.40
wildns:	WSH114	44 24.20	-109 49.27	10421.0 WY	979703.38	26.00	-355.43	-1.09	117.68
wildns:	WSH115	44 23.03	-109 46.76	11019.0 WY	979654.61	35.50	-375.83	-0.93	126.82
wildns:	WSH116	44 18.06	-109 54.25	11165.0 WY	979638.26	31.18	-380.81	-0.89	131.68
wildns:	WSH117	44 21.03	-109 57.00	10798.0 WY	979677.61	22.73	-368.29	-0.99	132.09
wildns:	WSH118	44 22.28	-109 59.78	7520.0 WY	979901.86	8.22	-256.49	-1.50	46.57
wildns:	WSH119	44 22.96	-109 44.75	10874.0 WY	979662.90	40.37	-370.88	-0.97	121.60
wildns:	WSH120	44 25.04	-109 36.82	8478.0 WY	979851.45	10.16	-289.16	-1.42	81.99
wildns:	WSH121	44 25.30	-109 26.65	8473.0 WY	979851.18	13.34	-288.99	-1.43	80.85
wildns:	WSH122	44 23.64	-109 29.80	9278.0 WY	979803.32	10.73	-316.45	-1.32	111.11
wildns:	WSH123	44 22.82	-109 31.88	11258.0 WY	979660.96	32.55	-383.98	-0.87	155.93
wildns:	WSH124	44 21.81	-109 34.02	11686.0 WY	979627.51	30.40	-398.58	-0.73	164.19
wildns:	WSH125	44 19.92	-109 35.85	12144.0 WY	979590.09	31.18	-414.20	-0.58	172.63
wildns:	WSH126	43 57.94	-109 49.32	11738.0 WY	979580.44	29.60	-400.35	-0.72	138.00
wildns:	WSH127	43 56.49	-109 51.53	10962.0 WY	979613.40	16.79	-373.88	-0.95	120.28
wildns:	WSH128	43 55.24	-109 53.75	10418.0 WY	979648.83	7.03	-355.33	-1.09	106.51
wildns:	WSH129	43 53.87	-109 55.77	10504.0 WY	979641.27	5.49	-358.26	-1.07	109.10
wildns:	WSH130	43 51.47	-109 17.05	12040.0 WY	979563.19	26.31	-410.65	-0.62	178.86
wildns:	WSH131	43 53.58	-109 21.73	11836.0 WY	979580.60	17.04	-403.69	-0.69	173.94
wildns:	WSH132	43 55.44	-109 19.32	12064.0 WY	979575.63	17.25	-411.47	-0.61	187.57
wildns:	WSH133	43 57.90	-109 17.70	9990.0 WY	979707.68	15.61	-340.73	-1.18	121.16
wildns:	WSH134	43 59.93	-109 15.90	8580.0 WY	979900.06	12.79	-292.64	-1.41	78.05
wildns:	WSH136	44 5.92	-109 24.90	9451.0 WY	979753.30	10.92	-322.35	-1.29	104.06
wildns:	WSH137	44 9.75	-109 26.54	12238.0 WY	979559.06	40.40	-417.40	-0.55	165.76
wildns:	WSH138	44 4.52	-109 32.10	11725.0 WY	979580.10	19.82	-399.91	-0.72	146.52
wildns:	WSH139	43 59.37	-109 2.79	6778.0 WY	979919.30	2.07	-231.18	-1.52	28.84
wildns:	WSH140	44 1.90	-109 2.85	6662.0 WY	979930.60	1.84	-227.22	-1.52	25.43
wildns:	WSH141	44 3.75	-109 7.10	6829.0 WY	979921.07	2.25	-232.92	-1.52	28.80
wildns:	WSH142	44 3.22	-109 10.71	7274.0 WY	979891.75	4.00	-248.10	-1.51	42.09
wildns:	WSH143	44 2.82	-109 14.26	7936.0 WY	979854.31	6.50	-270.67	-1.47	67.44
wildns:	WSH144	44 3.65	-109 14.20	7420.0 WY	979881.07	6.04	-253.08	-1.50	44.48
wildns:	WSH145	44 4.32	-109 13.63	7320.0 WY	979893.27	4.58	-249.66	-1.51	46.27
wildns:	WSH146	44 4.75	-109 12.88	7271.0 WY	979894.31	3.71	-247.99	-1.51	42.06
wildns:	WSH147	44 6.05	-109 11.30	6896.0 WY	979919.78	2.51	-235.20	-1.52	30.34
wildns:	WSH148	44 7.25	-109 9.50	6954.0 WY	979916.81	1.93	-237.18	-1.52	31.01

SOUTH ABSAROKA WILDERNESS GRAVITY
CARL LONG

Meter ID: g-17 Date: 07/19/79

STATION		L U C A T I O N S		G R A V I T Y		C O R R E C T I O N S		A N O M A L I E S								
IDENTIFICATION	sta-id	LATITUDE	LONGITUDE	ELE	ST	UNSERVED THEORETICAL	TERRAIN BOUGUER CURV	SPECIAL	FREE	COMPLETE-BOUGUER						
proj		deg	min	(in ft)					AIR	d1=2.67 d2=2.00 f						
wildns:	WSH149	44	8.21	-109	8.37	6983.0	WY	979916.78	980540.94	1.70	-238.17	-1.52	0.00	32.25	-205.73	-146.01
wildns:	WSH150	44	9.72	-109	5.88	6661.0	WY	979940.42	980543.22	1.62	-227.19	-1.52	0.00	23.36	-203.72	-146.74
wildns:	WSH151	44	13.60	-109	6.52	7442.0	WY	979899.28	980549.66	4.38	-253.83	-1.50	0.00	49.75	-201.20	-138.23
wildns:	WSH152	44	13.95	-109	3.10	6785.0	WY	979941.99	980549.59	1.49	-231.42	-1.52	0.00	30.21	-201.24	-143.16
wildns:	WSH153	44	0.39	-109	19.25	10732.0	WY	979668.02	980529.15	13.12	-366.04	-1.01	0.00	147.43	-206.50	-117.69
wildns:	WSH154	44	1.10	-109	19.40	10767.0	WY	979603.93	980530.22	11.88	-367.23	-1.00	0.00	145.55	-210.80	-121.38
wildns:	WSH155	44	1.76	-109	19.55	10680.0	WY	979673.87	980531.22	10.94	-364.26	-1.02	0.00	146.32	-208.02	-119.10
wildns:	WSH156	44	2.26	-109	19.48	10767.0	WY	979662.84	980531.97	14.45	-367.23	-1.00	0.00	142.72	-211.07	-122.29
wildns:	WSH157	44	5.18	-109	18.61	10791.0	WY	979654.89	980533.36	22.21	-368.05	-0.99	0.00	135.63	-211.20	-124.17
wildns:	WSH158	44	4.20	-109	17.18	10199.0	WY	979699.27	980534.89	15.36	-347.86	-1.14	0.00	122.88	-210.75	-127.03
wildns:	WSH159	44	6.36	-109	18.05	7692.0	WY	979866.94	980538.15	7.43	-262.35	-1.49	0.00	51.81	-204.60	-140.26
wildns:	WSH160	44	6.72	-109	15.06	7258.0	WY	979906.75	980538.70	4.47	-247.55	-1.51	0.00	50.31	-194.28	-132.91
wildns:	WSH161	44	18.80	-109	19.05	7374.0	WY	979918.13	980556.91	4.53	-251.51	-1.51	0.00	54.37	-194.11	-131.76
wildns:	WSH162	44	28.34	-109	15.92	5791.0	WY	980027.83	980571.30	3.21	-197.51	-1.48	0.00	0.94	-194.85	-145.72
wildns:	WSHRSE	44	9.19	-109	36.14	6365.0	WY	979949.27	980542.41	12.82	-217.09	-1.51	0.00	5.20	-200.58	-148.94
wildns:	WSHCBS	44	31.53	-109	3.70	5010.0	WY	980063.51	980576.10	0.82	-170.88	-1.41	0.00	-41.59	-213.06	-170.03