

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Principal facts for two-hundred-thirty-three gravity stations near the
Three Sisters Wilderness Area, Oregon

by
Carol Finn
D. R. Spydell
and
D. L. Williams

Open File Report 85-283

1985

This report is preliminary and has not been reviewed for
conformity with U.S. Geological Survey editorial standards.

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Explanation of the headings of the accompanying table of principal facts are
as follows:

STATION IDENTIFICATION	All stations were taken with LaCoste and Romberg ¹ gravity meter G-550. For a complete description of the gravity reduction procedures currently in use by most people in the U.S. Geological Survey (USGS) for defining the corrections and anomalies, see Cordell and others (1982).
LATITUDE AND LONGITUDE	Values listed are in degrees and minutes to the nearest one hundredth of a minute (accurate to one tenth of a minute). To obtain the positions of the gravity stations, the stations were transferred from U.S. Forest Service and USGS aerial photographs to USGS 1:62,500 topographic quadrangle maps and then were digitized.
ELEVATION	Elevations are in feet to the nearest tenth. Some elevations were taken from spot elevations (accurate to about ± 5 feet) from USGS 1:62,500 scale topographic quadrangle maps having a contour interval of 80 feet. Others were read on

¹Use of trade names is for descriptive purposes only and does not imply
endorsement by the U.S. Geological Survey.

a Kern¹ PG2 stereo plotter from USGS aerial photographs. Several elevation readings were taken for each station and averaged to obtain the station elevation. Errors associated with this method are: (1) errors in the setup of the photogrammetric model, (2) possible errors in benchmark or spot-elevation values, (3) the difference between (our reading of benchmarks and the actual value) about 10-15 feet, and (4) the scatter of elevation data collected for each gravity station about some mean value, assumed to be the real station elevation. These errors were not evaluated due to a lack of information for analysis.

OBSERVED GRAVITY

Values are to the nearest hundredth of a milligal. All stations are relative to IGSN-71 (Morelli, 1974) tied to a base at Redmond, Oregon, having observed gravity equal to 980247.29 mgals.

THEORETICAL GRAVITY

Values were calculated using the Geodetic Reference System 1967 (International Association of Geodesy, 1971).

TERRAIN CORRECTIONS

Most of the stations were corrected for terrain by computer radially from the station to 166.7 km

(Richard Godson, unpublished program , U.S. Geological Survey), implementing the procedure of Plouff (1977). Some of the inner zone terrain corrections (Hammer zones D-F, Hammer, 1939) were done by template. The density used in these corrections was 2.67 g/cm^3 .

CURV

Curvature correction in milligals.

SPECIAL

Not used.

FREE-AIR ANOMALY

Free-air anomaly values are in milligals. The free-air correction was obtained by the following calculation: observed gravity - theoretical gravity - free-air anomaly = free-air correction.

COMPLETE BOUGUER ANOMALY

Complete Bouguer anomaly values are in milligals using densities of 2.67 and 2.43 g/cm^3 .

REFERENCES CITED

- Cordell, L., Keller, G. R, and Hildenbrand, T. G., 1982, Bouguer gravity map of the Rio Grande Rift: U.S. Geological Survey Geophysical Investigations Map GP-949.
- Hammer, Sigmund, 1939, Terrain corrections for gravimeter stations: Geophysics, v. 4, p. 184-194.
- International Association of Geodesy, 1971, Geodetic reference system 1967: International Association of Geodesy Special Publication no. 3 (Bureau Central Association International Geodesie, Paris), 116 p.
- Morelli, C., ed., 1974, The International Standardization Net 1971: International Association of Geodesy Special Publication No. 4, 194 p.
- Plouff, Donald, 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, 45 p.

three sisters wilderness -- gravity data
collected 1980 & 1981 spydell
2a-550

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STATION IDENTIFICATION proj sta-id	L O C A T I O N S		E L E		G R A V I T Y		T E R R A I N H 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	
	deg min	deg min	deg min	(in mt)	ST OBSERVED	THEORETICAL	(di=2.67)			FREE AIR	COMPLETE-HOUGUER	SPPC FIELDS
: 3SIS001	44	6.85	-121 37.56	1924.81	OR 980027.49	980538.89	5.32	-215.39	-1.51	82.25	-129.33	-110.31
: 3SIS001	44	6.85	-121 37.56	1924.81	OR 980027.50	980538.89	5.32	-215.39	-1.51	82.26	-129.32	-110.30
: 3SIS002	44	6.96	-121 42.20	1877.57	OR 980042.82	980539.05	6.55	-210.10	-1.50	82.85	-122.20	-103.77
: 3SIS003	44	6.41	-121 43.69	2125.98	OR 979982.69	980538.23	6.94	-237.90	-1.52	109.12	-132.35	-111.46
: 3SIS004	44	4.96	-121 43.66	1999.49	OR 980012.70	980536.04	6.54	-223.74	-1.52	93.33	-125.39	-105.73
: 3SIS005	44	3.78	-121 44.36	1830.33	OR 980045.57	980534.26	6.01	-204.81	-1.50	75.83	-124.47	-106.46
: 3SIS006	44	3.81	-121 45.58	1980.29	OR 980011.94	980534.30	5.51	-221.59	-1.51	88.38	-129.22	-109.66
: 3SIS007	44	3.30	-121 46.39	2030.88	OR 979993.37	980533.54	5.71	-227.26	-1.52	86.17	-136.89	-116.84
: 3SIS008	44	2.89	-121 47.42	1855.01	OR 980034.98	980532.92	5.01	-207.58	-1.50	74.18	-129.68	-111.54
: 3SIS009	44	2.54	-121 47.50	1844.95	OR 980037.20	980532.39	4.24	-206.45	-1.50	73.84	-129.87	-111.56
: 3SIS010	44	2.21	-121 46.78	1739.19	OR 980056.19	980531.90	4.05	-194.62	-1.48	60.71	-131.33	-114.07
: 3SIS011	44	2.31	-121 46.20	1675.79	OR 980067.26	980532.05	5.45	-187.52	-1.46	52.09	-131.45	-114.95
: 3SIS012	44	2.15	-121 45.85	1666.95	OR 980070.65	980531.80	5.07	-186.53	-1.46	52.49	-129.93	-113.48
: 3SIS013	43	59.85	-121 47.13	1548.38	OR 980091.37	980528.34	2.71	-173.26	-1.42	40.62	-131.35	-115.89
: 3SIS014	43	58.92	-121 49.46	1594.10	OR 980078.24	980526.94	2.14	-178.38	-1.44	42.99	-134.68	-118.71
: 3SIS015	43	58.96	-121 50.77	1586.48	OR 980082.28	980526.99	2.91	-177.53	-1.43	44.63	-131.42	-115.60
: 3SIS016	43	58.58	-121 51.61	1631.90	OR 980073.45	980526.42	3.49	-182.61	-1.45	50.38	-130.19	-113.96
: 3SIS017	43	59.21	-121 53.13	1718.46	OR 980056.31	980527.38	3.77	-192.30	-1.47	58.97	-131.03	-113.95
: 3SIS018	43	58.57	-121 53.51	1696.21	OR 980059.09	980526.41	3.00	-189.81	-1.47	55.86	-132.41	-115.49
: 3SIS019	43	58.14	-121 53.98	1643.48	OR 980066.69	980525.76	2.59	-183.91	-1.45	47.84	-131.92	-118.49
: 3SIS020	43	57.53	-121 54.53	1573.07	OR 980079.03	980524.84	2.66	-176.03	-1.43	39.39	-135.40	-119.69
: 3SIS021	43	56.87	-121 54.91	1445.97	OR 980107.01	980523.84	2.15	-161.80	-1.38	29.18	-131.85	-117.38
: 3SIS022	43	57.88	-121 55.67	1463.04	OR 980102.41	980525.37	3.71	-163.71	-1.39	28.32	-133.07	-118.57
: 3SIS023	43	58.67	-121 56.45	1531.62	OR 980089.82	980526.55	2.36	-171.39	-1.41	35.69	-134.75	-119.43
: 3SIS024	44	0.44	-121 57.19	1374.65	OR 980119.62	980529.23	3.03	-153.82	-1.34	14.41	-137.72	-124.05
: 3SIS025	43	59.84	-121 54.18	1650.49	OR 980064.03	980528.32	3.42	-184.69	-1.45	44.79	-137.94	-121.51
: 3SIS026	43	59.86	-121 52.15	1495.04	OR 980102.88	980528.35	3.42	-167.29	-1.40	35.68	-129.60	-114.74
: 3SIS027	43	59.98	-121 50.71	1584.05	OR 980085.94	980528.53	2.36	-177.26	-1.43	46.00	-130.33	-114.48
: 3SIS028	43	59.75	-121 49.63	1606.91	OR 980077.63	980528.19	2.17	-179.81	-1.44	45.08	-134.00	-117.90
: 3SIS029	43	59.75	-121 47.98	1562.40	OR 980086.19	980528.19	2.24	-174.83	-1.43	39.91	-134.10	-118.46
: 3SIS030	44	1.60	-121 49.60	1967.79	OR 979996.57	980530.98	8.59	-220.20	-1.51	72.49	-140.63	-121.47
: 3SIS031	44	2.21	-121 50.02	1833.07	OR 980036.30	980531.90	3.77	-205.12	-1.50	69.76	-133.04	-114.85
: 3SIS032	44	2.52	-121 49.40	1828.80	OR 980038.61	980532.36	3.98	-204.64	-1.50	70.30	-131.86	-113.69
: 3SIS033	44	2.85	-121 49.75	1833.68	OR 980044.32	980532.86	4.43	-205.19	-1.50	77.01	-125.24	-107.06
: 3SIS034	44	2.72	-121 50.15	1791.31	OR 980045.91	980532.66	4.25	-200.45	-1.49	65.73	-131.95	-114.18
: 3SIS035	44	3.10	-121 52.55	1520.65	OR 980110.95	980533.23	5.60	-170.16	-1.41	45.76	-119.21	-104.29
: 3SIS036	44	3.10	-121 57.10	1264.92	OR 980159.43	980533.23	2.44	-141.54	-1.29	16.34	-124.01	-111.39
: 3SIS037	44	0.70	-121 52.80	1488.34	OR 980108.54	980529.62	2.80	-166.55	-1.40	34.00	-127.14	-112.30
: 3SIS038	44	0.53	-121 47.69	1619.40	OR 980076.39	980529.36	2.58	-181.21	-1.44	45.52	-133.45	-117.28
: 3SIS039	44	1.06	-121 47.30	1656.28	OR 980073.40	980530.16	2.84	-185.34	-1.46	51.09	-124.86	-113.32

three sisters wilderness -- gravity data
collected 1980 & 1981 spydell
2q-550

Date: 21-JAN-1985 16:42:17.74

STATION IDENTIFICATION		L J C A T I O N S		E L E M E N T S		G R A V I T Y		TERRAIN HUUGUER CURV		SPECIAL		A N U M A L I E S				
proj	sta-id	deg	min	deg	min	(in mt)	ST OBSERVED	THEORETICAL	(dl=2.67)	FREE	COMPLETE-HUUGUER	SPEC	FIELDS			
:	3SIS040	44	1.33	-121	48.01		1735.53	OR 980055.70	980530.57	3.12	-194.21	-1.48	0.00	60.43	-132.14	-114.83
:	3SIS041	44	1.42	-121	48.81		1768.14	OR 980049.77	980530.70	3.17	-197.85	-1.48	0.00	64.42	-131.75	-114.12
:	3SIS042	44	1.85	-121	48.99		1788.26	OR 980045.78	980531.35	3.81	-200.11	-1.49	0.00	65.98	-131.80	-114.03
:	3SIS043	44	2.42	-121	49.28		1826.36	OR 980039.66	980532.21	3.63	-204.37	-1.50	0.00	70.74	-131.49	-113.31
:	3SIS044	44	2.69	-121	48.53		1861.11	OR 980034.27	980532.62	4.06	-208.26	-1.50	0.00	75.07	-130.03	-111.54
:	3SIS045	44	3.49	-121	48.57		1878.79	OR 980031.83	980533.62	4.81	-210.24	-1.50	0.00	77.47	-129.46	-110.86
:	3SIS046	44	3.05	-121	48.17		1911.71	OR 980022.11	980533.16	4.16	-213.92	-1.51	0.00	78.55	-132.71	-113.72
:	3SIS047	44	2.59	-121	47.74		1860.50	OR 980034.25	980532.47	4.02	-208.19	-1.50	0.00	75.60	-130.77	-111.58
:	3SIS048	44	1.93	-121	47.20		1742.54	OR 980055.47	980531.47	3.67	-194.99	-1.48	0.00	61.46	-131.34	-114.01
:	3SIS049	44	0.45	-121	47.74		1617.88	OR 980077.16	980529.24	2.52	-181.04	-1.44	0.00	40.93	-133.03	-116.85
:	3SIS050	43	58.83	-121	46.65		1509.67	OR 980094.58	980526.80	2.47	-168.93	-1.41	0.00	33.44	-134.43	-119.34
:	3SIS051	43	58.41	-121	46.20		1553.87	OR 980083.85	980526.16	2.21	-173.88	-1.42	0.00	36.97	-136.12	-120.56
:	3SIS052	43	58.81	-121	45.53		1552.96	OR 980086.44	980526.77	2.46	-173.78	-1.42	0.00	38.67	-134.07	-118.54
:	3SIS053	43	57.58	-121	44.40		1660.55	OR 980066.62	980524.91	4.39	-185.82	-1.46	0.00	53.88	-128.40	-112.02
:	3SIS054	44	0.82	-121	45.27		1769.97	OR 980043.22	980529.80	4.01	-198.06	-1.48	0.00	59.33	-136.20	-116.62
:	3SIS055	44	0.97	-121	45.29		1840.99	OR 980022.22	980530.02	6.77	-206.01	-1.50	0.00	60.09	-140.73	-122.69
:	3SIS056	44	1.40	-121	45.79		1747.11	OR 980052.19	980530.67	3.58	-195.50	-1.48	0.00	60.34	-133.02	-115.84
:	3SIS057	44	1.72	-121	45.38		1848.61	OR 980023.62	980531.16	6.20	-206.86	-1.50	0.00	62.62	-139.54	-121.37
:	3SIS058	43	52.94	-121	46.18		1430.12	OR 980091.81	980517.92	1.46	-160.03	-1.37	0.00	15.02	-144.92	-130.55
:	3SIS059	43	53.63	-121	46.03		1449.63	OR 980091.01	980518.96	1.54	-162.21	-1.38	0.00	19.19	-142.86	-128.30
:	3SIS060	43	55.23	-121	46.90		1476.45	OR 980093.45	980521.38	1.78	-165.21	-1.39	0.00	27.49	-137.33	-122.52
:	3SIS061	43	57.64	-121	48.25		1500.84	OR 980095.06	980525.01	2.31	-167.94	-1.40	0.00	32.99	-134.05	-119.03
:	3SIS062	43	58.55	-121	48.47		1507.85	OR 980095.11	980526.38	2.20	-168.73	-1.40	0.00	33.83	-134.10	-119.01
:	3SIS063	44	1.53	-121	43.44		1661.77	OR 980073.59	980530.87	5.16	-185.95	-1.46	0.00	55.28	-126.97	-110.59
:	3SIS064	43	55.02	-121	49.05		1760.22	OR 980032.34	980521.05	3.49	-196.97	-1.48	0.00	54.20	-140.76	-123.24
:	3SIS065	43	51.84	-121	53.99		1482.55	OR 980090.52	980516.27	2.15	-165.90	-1.39	0.00	31.55	-133.59	-118.74
:	3SIS066	43	49.49	-121	56.74		1755.65	OR 980092.85	980512.73	3.54	-196.46	-1.48	0.00	121.62	-72.77	-55.30
:	3SIS067	43	51.36	-121	58.81		1978.15	OR 979979.53	980515.54	8.75	-221.35	-1.51	0.00	74.09	-140.03	-120.79
:	3SIS068	43	54.07	-121	58.96		1440.18	OR 980099.50	980519.63	2.83	-161.16	-1.38	0.00	24.11	-135.60	-121.24
:	3SIS069	43	56.66	-121	58.48		1409.70	OR 980112.27	980523.53	2.83	-157.75	-1.36	0.00	23.57	-132.70	-118.66
:	3SIS070	43	59.24	-121	53.70		1848.00	OR 980012.75	980527.41	8.43	-206.79	-1.50	0.00	55.30	-144.56	-126.59
:	3SIS071	44	6.07	-121	46.15		3112.92	OR 979731.06	980537.71	53.81	-348.34	-1.14	0.00	153.76	-141.90	-115.32
:	3SIS072	44	5.28	-121	42.86		2415.54	OR 979911.97	980536.52	20.50	-270.30	-1.48	0.00	120.36	-130.92	-108.33
:	3SIS073	44	6.49	-121	40.49		2281.43	OR 979944.78	980536.34	13.60	-255.29	-1.50	0.00	110.01	-133.18	-111.32
:	3SIS074	44	5.13	-121	40.10		2438.40	OR 979914.14	980536.36	12.17	-272.86	-1.47	0.00	129.80	-132.36	-108.79
:	3SIS075	44	3.93	-121	40.43		2452.12	OR 979903.83	980534.46	17.27	-274.39	-1.47	0.00	125.53	-133.06	-109.81
:	3SIS076	44	2.48	-121	42.76		1704.75	OR 980009.72	980532.30	5.97	-190.76	-1.47	0.00	63.22	-123.04	-106.30
:	3SIS077	44	1.26	-121	45.54		1794.36	OR 980044.31	980530.46	3.71	-200.79	-1.49	0.00	67.28	-131.29	-113.44
:	3SIS078	44	2.97	-121	46.80		2078.13	OR 979979.89	980533.04	9.64	-232.54	-1.52	0.00	47.76	-136.06	-116.48
:	3SIS079	44	1.88	-121	47.77		1867.20	OR 980032.52	980531.60	4.42	-208.94	-1.50	0.00	77.01	-129.91	-110.49

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Date: 21-JAN-1985 16:42:20.55

STATION IDENTIFICATION		L O C A T I O N S		G R A V I T Y		T E R R A I N		C U R R E C T I O N S		A N O M A L I E S		S P E C F I E L D S	
proj	sta-id	LATITUDE deg	LONGITUDE min	ELE (in mt)	ST OBSERVED	THEORETICAL	TERRAIN	BOUGUER CURV (dl=2.67)	BOUGUER SPECIAL	FREE AIR	COMPUTE	BOUGUER	SPEC
:	3SIS080	44	2.46	-121 52.43	1927.25	OR 980006.12	980532.27	13.08	-215.66	-1.51	0.00	0.00	0.00
:	3SIS081	44	4.11	-121 51.33	1888.54	OR 980030.98	980534.76	8.78	-211.33	-1.50	0.00	0.00	0.00
:	3SIS082	44	3.75	-121 49.66	2142.74	OR 979963.91	980534.22	18.42	-239.77	-1.52	0.00	0.00	0.00
:	3SIS083	44	6.40	-121 50.33	1750.17	OR 980068.49	980538.21	5.28	-195.84	-1.48	0.00	0.00	0.00
:	3SIS084	44	7.20	-121 50.91	2042.16	OR 980000.90	980539.41	11.01	-228.52	-1.52	0.00	0.00	0.00
:	3SIS085	44	7.42	-121 47.64	2206.75	OR 979967.51	980539.75	11.41	-246.94	-1.51	0.00	0.00	0.00
:	3SIS086	44	7.63	-121 45.98	2214.07	OR 979953.69	980540.06	9.41	-247.75	-1.51	0.00	0.00	0.00
:	3SIS087	44	6.82	-121 44.81	2380.49	OR 979930.04	980536.84	12.48	-266.38	-1.48	0.00	0.00	0.00
:	3SIS088	44	5.21	-121 45.91	2354.58	OR 979913.68	980536.41	17.68	-263.48	-1.49	0.00	0.00	0.00
:	3SIS089	44	4.22	-121 41.98	2471.01	OR 979897.18	980534.92	19.80	-276.51	-1.46	0.00	0.00	0.00
:	3SIS090	44	3.65	-121 42.83	2038.20	OR 979997.00	980534.06	6.77	-228.07	-1.52	0.00	0.00	0.00
:	3SIS091	43	58.31	-121 49.67	1754.12	OR 980039.52	980526.02	4.41	-196.29	-1.46	0.00	0.00	0.00
:	3SIS092	43	58.10	-121 41.25	2296.67	OR 979916.37	980525.70	13.82	-257.00	-1.50	0.00	0.00	0.00
:	3SIS093	43	57.11	-121 40.67	2238.76	OR 979919.24	980524.21	15.38	-250.52	-1.51	0.00	0.00	0.00
:	3SIS094	43	52.38	-121 51.00	1560.58	OR 980073.85	980517.08	1.56	-174.63	-1.42	0.00	0.00	0.00
:	3SIS095	43	50.24	-121 56.94	1724.25	OR 980035.73	980513.85	2.66	-192.94	-1.47	0.00	0.00	0.00
:	3SIS096	43	50.73	-121 57.91	1839.16	OR 980007.81	980514.59	4.52	-205.80	-1.50	0.00	0.00	0.00
:	3SIS097	43	51.90	-121 58.32	1911.10	OR 979996.72	980516.35	6.00	-213.85	-1.51	0.00	0.00	0.00
:	3SIS098	43	48.58	-121 57.85	1693.16	OR 980040.39	980511.35	2.25	-189.46	-1.47	0.00	0.00	0.00
:	3SIS099	43	49.76	-121 55.35	1600.81	OR 980062.24	980513.13	2.27	-179.13	-1.44	0.00	0.00	0.00
:	3SIS101	44	1.07	-121 47.30	1656.59	OR 980072.81	980530.18	2.85	-185.37	-1.46	0.00	0.00	0.00
:	3SIS102	44	1.34	-121 48.01	1735.53	OR 980056.30	980530.59	3.15	-194.21	-1.48	0.00	0.00	0.00
:	3SIS103	44	1.59	-121 48.95	1787.65	OR 980046.49	980530.96	3.45	-200.04	-1.49	0.00	0.00	0.00
:	3SIS104	44	3.04	-121 51.05	1663.60	OR 980032.12	980533.15	4.23	-186.16	-1.46	0.00	0.00	0.00
:	3SIS105A	44	2.48	-121 49.58	1828.80	OR 980040.48	980532.30	3.69	-204.64	-1.50	0.00	0.00	0.00
:	3SIS105B	44	2.48	-121 49.58	1828.80	OR 980039.71	980532.30	3.69	-204.64	-1.50	0.00	0.00	0.00
:	3SIS106	44	2.68	-121 48.52	1861.11	OR 980035.65	980532.60	4.01	-208.26	-1.50	0.00	0.00	0.00
:	3SIS107	44	3.50	-121 48.58	1877.87	OR 980033.55	980533.84	4.69	-210.13	-1.50	0.00	0.00	0.00
:	3SIS108	44	4.80	-121 49.02	1737.36	OR 980061.26	980535.80	6.41	-194.41	-1.48	0.00	0.00	0.00
:	3SIS109	44	5.74	-121 49.82	1796.49	OR 980057.70	980537.22	5.49	-201.03	-1.49	0.00	0.00	0.00
:	3SIS110A	44	5.95	-121 50.37	1738.88	OR 980067.69	980537.53	5.07	-194.58	-1.48	0.00	0.00	0.00
:	3SIS110B	44	5.95	-121 50.37	1738.88	OR 980067.23	980537.53	5.07	-194.58	-1.48	0.00	0.00	0.00
:	3SIS111	44	6.42	-121 49.71	1826.67	OR 980048.48	980538.24	5.52	-204.40	-1.50	0.00	0.00	0.00
:	3SIS112	44	7.15	-121 49.91	1871.78	OR 980041.88	980539.34	5.59	-209.45	-1.50	0.00	0.00	0.00
:	3SIS113	44	7.52	-121 49.24	1920.24	OR 980037.18	980539.90	6.28	-214.87	-1.51	0.00	0.00	0.00
:	3SIS114	44	6.91	-121 48.60	1970.53	OR 980018.72	980538.98	7.28	-220.50	-1.51	0.00	0.00	0.00
:	3SIS115	44	5.83	-121 48.69	1921.15	OR 980022.65	980537.35	8.90	-214.94	-1.51	0.00	0.00	0.00
:	3SIS116	44	4.84	-121 48.15	1852.27	OR 980035.83	980535.86	9.86	-207.27	-1.50	0.00	0.00	0.00
:	3SIS117	44	4.62	-121 47.47	1994.00	OR 980006.23	980535.53	7.26	-223.13	-1.51	0.00	0.00	0.00
:	3SIS118	44	3.75	-121 46.43	1971.45	OR 980013.21	980534.22	6.27	-220.61	-1.51	0.00	0.00	0.00

three sisters wilderness -- gravity data
collected 1980 & 1981 spydell
29-550

Date: 21-JAN-1985 16:42:23.26

STATION IDENTIFICATION		L O C A T I O N S		G R A V I T Y		C U 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	ELE (in mt)	ST OBSERVED	THEORETICAL	TERRAIN BOUGUER (dl=2.67)	FREE AIR	COMPLETE=BOUGUER dl=2.67	SPEC FIELDS
:	3SIS119A	44	3.70	-121 45.78	1965.96	OK	980011.60	980534.14	0.00	83.79
:	3SIS119B	44	3.70	-121 45.78	1965.96	OK	980012.39	980534.14	0.00	84.58
:	3SIS121	44	3.73	-121 45.15	1937.31	OK	980020.59	980534.19	0.00	83.91
:	3SIS120	44	3.88	-121 45.53	1967.18	OK	980014.10	980534.41	0.00	86.40
:	3SIS122	44	3.47	-121 45.03	1905.61	OK	980020.67	980533.60	0.00	74.60
:	3SIS123	44	3.51	-121 44.62	1867.81	OK	980036.78	980533.85	0.00	81.00
:	3SIS124	44	3.42	-121 44.68	1826.67	OK	980046.31	980533.72	0.00	75.99
:	3SIS140	44	10.28	-121 42.56	1804.42	OK	980058.64	980544.06	0.00	71.11
:	3SIS141	44	11.44	-121 44.03	1877.57	OK	980043.39	980545.81	0.00	76.66
:	3SIS142	44	12.26	-121 44.70	1766.32	OK	980069.40	980547.05	0.00	67.14
:	3SIS143	44	14.24	-121 46.63	1767.84	OK	980080.82	980550.03	0.00	76.04
:	3SIS144	44	13.85	-121 46.39	1840.99	OK	980060.52	980549.45	0.00	78.88
:	3SIS145	44	12.94	-121 46.79	1901.95	OK	980044.15	980548.07	0.00	62.68
:	3SIS146	44	13.47	-121 46.44	1874.52	OK	980052.57	980548.87	0.00	81.84
:	3SIS147A	44	15.35	-121 45.96	1792.22	OK	980070.41	980551.70	0.00	71.47
:	3SIS147B	44	15.35	-121 45.96	1792.22	OK	980070.39	980551.70	0.00	71.46
:	3SIS148	44	15.68	-121 47.00	1610.87	OK	980111.63	980552.20	0.00	56.29
:	3SIS149	44	15.67	-121 47.51	1588.01	OK	980118.90	980552.19	0.00	56.52
:	3SIS150	44	15.62	-121 48.05	1624.58	OK	980110.94	980552.11	0.00	59.91
:	3SIS151	44	15.62	-121 48.52	1607.82	OK	980118.47	980552.11	0.00	62.28
:	3SIS152	44	15.43	-121 48.77	1604.77	OK	980114.36	980551.83	0.00	57.51
:	3SIS153	44	15.17	-121 49.34	1584.96	OK	980115.95	980551.44	0.00	53.38
:	3SIS154	44	14.94	-121 50.16	1557.53	OK	980122.96	980551.09	0.00	52.29
:	3SIS155	44	14.74	-121 50.58	1545.34	OK	980126.88	980550.79	0.00	52.75
:	3SIS156	44	14.48	-121 51.17	1539.24	OK	980126.67	980550.39	0.00	51.05
:	3SIS157	44	15.90	-121 47.20	1584.96	OK	980118.22	980552.53	0.00	54.55
:	3SIS158	44	16.15	-121 46.80	1560.58	OK	980123.44	980552.91	0.00	51.87
:	3SIS159	44	16.65	-121 46.44	1511.81	OK	980131.75	980553.66	0.00	44.40
:	3SIS160	44	17.10	-121 45.90	1492.00	OK	980134.46	980554.34	0.00	40.32
:	3SIS161	44	17.52	-121 45.21	1463.04	OK	980142.51	980554.58	0.00	38.81
:	3SIS200	43	53.09	-121 54.32	1510.28	OK	980088.05	980518.15	0.00	35.74
:	3SIS201	43	54.82	-121 53.55	1655.98	OK	980060.49	980520.76	0.00	50.50
:	3SIS202	43	55.30	-121 55.17	1673.05	OK	980055.35	980521.46	0.00	49.91
:	3SIS203	43	54.91	-121 55.73	1872.69	OK	980004.09	980520.89	0.00	60.78
:	3SIS204	44	8.71	-121 47.18	2804.16	OK	979823.51	980541.70	0.00	146.49
:	3SIS205	44	9.31	-121 47.00	2812.40	OK	979824.62	980542.60	0.00	149.23
:	3SIS206	44	8.39	-121 46.35	2499.36	OK	979893.48	980541.21	0.00	123.01
:	3SIS207	43	53.16	-121 53.02	1624.28	OK	980075.54	980518.26	0.00	58.28
:	3SIS208	43	53.77	-121 54.43	1542.29	OK	980003.07	980519.17	0.00	39.61
:	3SIS209	43	53.57	-121 56.38	1595.63	OK	980070.63	980516.88	0.00	43.92