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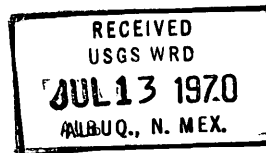
1. Aeromagnetic map of the Winnemucca area, northwestern Nevada, by the U.S. Geological Survey. 1 sheet, scale 1:62,500. 1012 Federal Bldg., Denver, Colo. 80202; 8102 Federal Office Bldg., Salt Lake City, Utah 84111; 504 Custom House, San Francisco, Calif. 94111; 7638 Federal Bldg., Los Angeles, Calif. 90012; Library, Mackay School of Mines, University of Nevada, Reno, Nev. 89507. Material from which copy can be made at private expense is available in both the Salt Lake City and the Reno offices shown.

2. Bibliography of the geology and mineral industry of Liberia and adjacent countries, Supplement 1, by Donald H. Johnson and Richard W. White. 41 p.

3. Geothermal potential of the Dieng Mountains, central Java, Indonesia, by L. J. P. Muffler. 22 p., 4 figs., 2 tables.

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④ Principal facts for gravity stations in the Gila wilderness area, Catron and Grant Counties, New Mexico, by D. L. Peterson and G. P. Eaton. 5 p. 1012 Federal Bldg., Denver, Colo. 80202; 8102 Federal Office Bldg., Salt Lake City, Utah 84111; 602 Thomas Bldg., Dallas, Tex. 75202; 279 Geology Bldg., University of New Mexico, Albuquerque, N. Mex. (P.O. Box 4369), 87106; New Mexico Bureau of Mines and Mineral Resources, Socorro, N. Mex. 87801.



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PRINCIPAL FACTS FOR GRAVITY STATIONS IN THE  
GILA WILDERNESS AREA, CATON<sup>R</sup> AND GRANT COUNTIES,  
NEW MEXICO

BY DONALD L. PETERSON AND GORDON P. EATON

U. S. GEOLOGICAL SURVEY

DENVER, COLORADO

This report has not been edited or  
reviewed for conformity to Geological  
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ABBREVIATIONS USED ABOVE THE TABLES OF PRINCIPAL FACTS ARE EXPLAINED BELOW:

STATION	STATION NUMBER
LAT	NORTH LATITUDE IN DEGREES, MINUTES, AND HUNDREDTHS OF MINUTES
LONG	WEST LONGITUDE IN DEGREES, MINUTES, AND HUNDREDTHS OF MINUTES
ELEV (F)	ELEVATION IN FEET
E	NATURE OF ELEVATION CONTROL:  (1) TRIANGULATION STATION, BENCHMARK, OR MAP SPOT ELEVATION; (2) BAROMETRIC SURVEYING; (3) MAP CONTOUR INTERVAL
OBS G	OBSERVED GRAVITY IN MILLIGALS MINUS 978 GALS
FAA	FREE AIR ANOMALY IN MILLIGALS
BA 2.67	SIMPLE BOUGUER ANOMALY IN MILLIGALS FOR ASSUMED DENSITY OF 2.67 G PER CC
BA (OPT)	SIMPLE BOUGUER ANOMALY IN MILLIGALS FOR ASSUMED DENSITY OF 2.45 G PER CC
CC	CURVATURE CORRECTION IN MILLIGALS

THESE DATA ARE REFERENCED TO THE USATOPOCOM BASE STATION AT TRUTH OR  
CONSEQUENCES, NEW MEXICO, WITH A VALUE OF 979168.062 MGALS (ORAL  
COMMUNICATION, R. B. BERUFF, 1970). THE SURVEY WAS MADE WITH LACOSTE &  
ROMBERG GRAVIMETER NO. G-159.

STATION	LAT	LONG	ELEV(F)	E	OBS	G	FAA	BA2.67	BA(OPT)	CC
1	33	11.51	108 22.47	8731.0	1	835.62	62.20	-235.58	-211.05	1.66
2	33	11.28	108 26.72	8680.0	1	852.45	74.56	-221.49	-197.10	1.66
3	33	10.96	108 28.92	8422.0	2	868.70	67.00	-220.24	-196.57	1.69
4	33	11.10	108 33.67	8689.0	1	842.63	65.83	-230.52	-206.10	1.66
5	33	11.56	108 36.38	6920.0	1	971.53	27.86	-208.15	-188.71	1.73
6	33	10.63	108 37.82	7748.0	1	912.36	47.79	-216.47	-194.70	1.73
7	33	13.41	108 40.52	8068.0	2	897.09	58.76	-216.41	-193.74	1.71
8	33	14.65	108 41.22	9665.0	1	771.51	81.52	-248.12	-220.96	1.51
9	33	16.02	108 42.67	9785.0	1	766.96	86.35	-247.38	-219.88	1.49
10	33	17.37	108 46.30	9521.0	1	789.76	82.49	-242.24	-215.48	1.54
11	33	17.48	108 42.30	8346.0	2	875.40	57.58	-227.07	-203.62	1.69
12	33	16.27	108 35.63	10770.0	1	697.18	108.75	-258.57	-228.31	1.27
13	33	12.35	108 18.00	6451.0	2	988.09	-0.74	-220.76	-202.64	1.71
14	33	10.29	108 21.14	8076.0	2	877.22	43.93	-231.51	-208.81	1.71
15	33	7.52	108 23.05	7506.0	1	921.82	38.78	-217.22	-196.13	1.74
16	33	5.69	108 25.27	7484.0	1	921.78	39.19	-216.06	-195.03	1.74
17	33	5.95	108 21.82	7454.0	2	924.54	38.77	-215.46	-194.51	1.74
18	33	6.82	108 20.77	7659.0	2	905.09	37.39	-223.83	-202.31	1.73
19	33	7.18	108 19.16	6825.0	1	961.96	15.39	-217.39	-198.21	1.73
20	33	5.88	108 18.72	7640.0	2	901.02	32.83	-227.75	-206.28	1.73
21	33	4.74	108 20.07	6345.0	1	993.69	5.36	-211.05	-193.22	1.70
22	33	3.62	108 16.49	6324.0	1	986.72	-2.05	-217.74	-199.96	1.70
23	33	5.47	108 15.58	7300.0	1	926.28	26.70	-222.28	-201.76	1.74
24	33	8.08	108 17.67	7730.0	1	897.38	34.62	-229.02	-207.30	1.73
25	33	22.98	108 23.24	7514.0	1	926.26	22.67	-233.60	-212.49	1.74
26	33	23.05	108 25.98	7495.0	1	920.63	15.16	-240.47	-219.40	1.74
27	33	23.39	108 28.30	7068.0	1	948.73	2.66	-238.40	-218.54	1.74
28	33	24.00	108 30.94	8044.0	1	891.51	36.32	-238.03	-215.43	1.72
29	33	25.13	108 32.20	8044.0	2	889.80	33.05	-241.30	-218.70	1.72
30	33	23.43	108 34.26	8359.0	2	874.29	49.49	-235.61	-212.12	1.69
31	33	20.64	108 33.73	9309.0	2	809.40	77.70	-239.79	-213.63	1.58
32	33	20.75	108 31.35	8600.0	1	857.25	58.79	-234.53	-210.36	1.67
33	33	18.19	108 38.28	10535.0	1	723.31	110.16	-249.15	-219.54	1.33
34	33	19.96	108 38.64	10440.0	2	732.83	108.32	-247.75	-218.41	1.35
35	33	19.32	108 40.80	9687.0	2	777.74	83.38	-247.01	-219.79	1.51
36	33	19.73	108 42.95	10135.0	1	744.81	91.97	-253.70	-225.22	1.42

38	33	20.55	108	48.45	8618.0	1	835.81	39.32	-254.61	-230.39	1.67
39	33	18.67	108	53.15	4815.0	3	1099.15	-52.17	-216.40	-202.86	1.50
40	33	17.18	108	49.67	6237.0	1	1013.07	-2.53	-215.25	-197.72	1.70
41	33	18.12	108	48.00	9193.0	2	810.04	70.92	-242.62	-216.79	1.59
43	33	21.49	108	21.39	7430.0	1	929.72	20.30	-233.12	-212.23	1.74
44	33	22.41	108	20.38	7767.0	2	908.28	29.26	-235.65	-213.82	1.73
45	33	21.79	108	17.25	7972.0	1	896.05	37.14	-234.75	-212.35	1.72
46	33	19.69	108	18.15	7383.0	1	927.67	16.31	-235.50	-214.75	1.74
47	33	18.43	108	19.29	7220.0	1	935.97	11.03	-235.22	-214.93	1.74
48	33	17.72	108	21.53	7317.0	1	936.33	21.49	-228.07	-207.51	1.74
49	33	15.76	108	23.44	7540.0	1	924.01	32.82	-224.34	-203.15	1.74
50	33	14.40	108	25.68	7651.0	1	922.16	43.28	-217.67	-196.17	1.73
51	33	12.93	108	27.72	8370.0	2	877.09	67.80	-217.68	-194.15	1.69
52	33	12.95	108	25.49	8790.0	1	844.23	74.37	-225.42	-200.72	1.65
53	33	12.68	108	23.12	8263.0	1	872.96	53.96	-227.87	-204.64	1.70
54	33	10.89	108	24.59	7977.0	2	897.62	54.21	-217.86	-195.44	1.72
55	33	12.90	108	11.73	6832.0	1	964.65	10.87	-222.15	-202.95	1.73
56	33	14.71	108	11.75	6624.0	1	976.78	0.96	-224.97	-206.35	1.72
57	33	14.30	108	8.46	6748.0	1	973.53	9.93	-220.23	-201.26	1.73
58	33	11.96	108	8.88	6773.0	1	970.13	12.10	-218.91	-199.87	1.73
59	33	9.16	108	10.23	6696.0	1	972.74	11.32	-217.05	-198.24	1.73
60	33	8.92	108	12.87	5462.0	1	1049.08	-27.99	-214.28	-198.93	1.61
61	33	7.02	108	14.15	7384.0	1	920.99	27.17	-224.67	-203.92	1.74
62	33	6.16	108	10.94	7640.0	1	905.83	37.25	-223.32	-201.85	1.73
63	33	5.81	108	8.97	7381.0	1	927.76	35.33	-216.42	-195.67	1.74
64	33	5.37	108	6.59	7641.0	1	914.80	47.40	-213.21	-191.73	1.73
65	33	4.47	108	11.04	6452.0	2	986.96	9.06	-211.00	-192.87	1.71
66	33	3.03	108	13.85	6276.0	1	992.07	-0.40	-214.45	-196.81	1.70
67	33	1.29	108	14.33	6870.0	1	951.16	16.91	-217.40	-198.10	1.73
68	33	1.63	108	8.93	6062.0	1	1000.67	-9.99	-216.74	-199.71	1.68
69	33	0.21	108	5.49	6307.0	1	981.13	-4.55	-219.66	-201.94	1.70
70	33	1.10	108	0.90	7214.0	1	932.02	30.36	-215.68	-195.41	1.74
71	33	2.63	108	3.05	7330.0	1	927.91	35.05	-214.95	-194.35	1.74
72	33	4.73	108	8.08	7620.0	1	915.25	46.76	-213.13	-191.72	1.74
73	33	4.97	108	4.92	7669.0	2	914.09	49.87	-211.69	-190.14	1.73
74	33	4.13	108	6.94	7202.0	1	939.54	32.59	-213.04	-192.80	1.74
75	33	9.62	108	6.66	6440.0	2	997.21	11.10	-208.55	-190.45	1.71
76	33	9.60	108	3.55	7437.0	1	924.95	32.57	-221.08	-200.18	1.74
77	33	9.82	108	1.08	7653.0	1	911.61	39.22	-221.80	-200.29	1.73
78	33	11.32	108	4.45	7347.0	1	930.67	27.46	-223.12	-202.47	1.74
79	33	12.93	108	3.40	7382.0	1	927.98	25.85	-225.93	-205.18	1.74
80	33	13.80	108	0.54	7584.0	1	914.13	29.78	-228.88	-207.57	1.74

81	33	16.21	108	16.27	6310.0	2	999.79	-7.61	-222.82	-205.09	1.70
82	33	16.64	108	13.39	6955.0	1	948.73	1.36	-235.86	-216.31	1.74
83	33	18.75	108	14.06	7395.0	1	923.50	14.57	-237.65	-216.87	1.74
84	33	19.07	108	9.93	7020.0	2	950.61	5.99	-233.43	-213.71	1.74
85	33	20.82	108	24.52	7342.0	1	933.48	16.71	-233.70	-213.07	1.74
86	33	22.70	108	13.57	9287.0	1	805.17	68.56	-248.18	-222.08	1.58
87	33	24.21	108	16.75	7845.0	1	905.69	31.51	-236.06	-214.01	1.73
88	33	14.65	108	19.18	6854.0	2	959.94	5.82	-227.95	-208.69	1.73
89	33	10.28	108	19.40	7274.0	1	933.62	24.98	-223.11	-202.67	1.74
90	33	13.19	108	14.57	5646.0	1	1039.25	-26.40	-218.97	-203.10	1.63
91	33	10.78	108	12.40	5557.0	1	1045.10	-25.60	-215.13	-199.52	1.62
92	33	16.65	108	17.91	7146.0	2	942.03	12.59	-231.13	-211.05	1.74
93	33	14.05	108	21.29	7226.0	2	943.51	25.17	-221.28	-200.97	1.74
94	33	16.88	108	27.34	6856.0	2	970.62	13.61	-220.22	-200.96	1.73
95	33	18.15	108	27.45	7853.0	1	910.97	45.90	-221.93	-199.87	1.73
96	33	19.78	108	25.71	7641.0	1	914.38	27.14	-233.46	-211.99	1.73
97	33	22.12	108	24.82	7447.0	1	922.34	13.64	-240.35	-219.42	1.74
98	33	21.76	108	28.04	7834.0	2	901.42	29.59	-237.60	-215.59	1.73
99	33	19.41	108	29.52	8300.0	1	879.44	54.64	-228.45	-205.12	1.70
100	33	17.90	108	32.10	8447.0	1	867.78	58.87	-229.22	-205.49	1.69
101	33	17.10	108	31.82	9282.0	1	812.11	82.76	-233.82	-207.73	1.58
102	33	20.41	108	35.65	8862.0	2	841.55	68.17	-234.08	-209.17	1.64
103	33	21.77	108	36.40	8739.0	2	847.15	60.34	-237.72	-213.16	1.65
104	33	16.86	108	38.56	9238.0	2	814.96	81.81	-233.27	-207.31	1.59
105	33	16.04	108	40.93	10368.0	1	732.31	106.44	-247.18	-218.04	1.37
106	33	14.33	108	31.33	8289.0	2	881.51	62.68	-220.03	-196.74	1.70
107	33	9.60	108	35.13	6215.0	1	1017.25	10.02	-201.95	-184.49	1.69
109	33	1.84	108	23.35	7495.0	2	918.76	42.49	-213.14	-192.07	1.74
110	33	2.14	108	21.93	7205.0	1	933.24	29.31	-216.43	-196.18	1.74
111	33	1.66	108	18.91	6725.0	2	961.89	13.50	-215.86	-196.96	1.73
112	33	12.68	108	37.08	8425.0	1	859.82	56.04	-231.31	-207.63	1.69
113	33	12.45	108	38.58	7330.0	1	949.86	43.50	-206.50	-185.90	1.74
114	33	16.06	108	46.35	7482.0	2	934.51	37.46	-217.72	-196.70	1.74
115	33	6.65	108	31.68	8004.0	1	890.97	55.93	-217.06	-194.57	1.72
116	33	4.58	108	31.50	6654.0	2	990.56	31.49	-195.45	-176.75	1.72
117	33	5.76	108	28.11	6479.0	1	996.99	19.85	-201.12	-182.92	1.71
118	33	1.88	108	27.66	7195.0	1	944.09	39.57	-205.82	-185.60	1.74
119	33	8.40	108	28.07	6230.0	2	1016.24	12.07	-200.41	-182.91	1.70