

Principal Facts for Gravity Stations in Dixie, Fairview, and Stingaree Valleys, Churchill and Pershing Counties, Nevada

By Donald H. Schaefer, James M. Thomas, and Brian G. Duffrin

U.S. GEOLOGICAL SURVEY

Open-File Report 84-586

Prepared in cooperation with the
U.S. BUREAU OF LAND MANAGEMENT

*A product of the Regional
Aquifer-System Analysis
of the Great Basin-Nevada,
Utah, and adjacent states*

**Carson City, Nevada
1984**

UNITED STATES DEPARTMENT OF THE INTERIOR

WILLIAM P. CLARK, Secretary

GEOLOGICAL SURVEY

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CONVERSION FACTORS AND ABBREVIATIONS

"Inch-pound" units of measure used in this report may be converted to International System (metric) units by using the following factors:

<i>Multiply</i>	<i>By</i>	<i>To obtain</i>
Feet (ft)	0.3048	Meters (m)
Miles (mi)	1.609	Kilometers (km)

ALTITUDE DATUM

The term "National Geodetic Vertical Datum of 1929" replaces the formerly used term "mean sea level" to describe the datum for altitude measurements. The datum is derived from a general adjustment of the first-order leveling network of both the United States and Canada. For convenience in this report, the datum is referred to as "sea level."

PRINCIPAL FACTS FOR GRAVITY STATIONS IN
DIXIE, FAIRVIEW, AND STINGAREE VALLEYS,
CHURCHILL AND PERSHING COUNTIES, NEVADA

By Donald H. Schaefer, James M. Thomas, and Brian G. Duffrin

ABSTRACT

Principal facts for 345 gravity stations in Dixie, Fairview, and Stingaree Valleys, Nev., are tabulated; they consist of latitude, longitude, altitude, observed gravity, free-air anomaly, terrain correction, and Bouguer anomaly values at a bedrock density of 2.67 grams per cubic centimeter.

INTRODUCTION

During March through July 1979, gravity measurements were made at 300 stations in Dixie Valley, Nev. In December 1981, 45 additional stations were added--7 in Dixie Valley, 23 in Fairview Valley, and 15 in Stingaree Valley.

Horizontal control for most stations in the study area was obtained using the Loran navigation system. Some stations on the surrounding mountains were tied to the valley stations by using an electronic transit for position and altitude. Additionally, bench marks, section corners, and road intersections were used to locate stations.

Most altitudes were determined by using altimeters or topographic maps.

The gravity observations were made with a Worden¹ temperature-controlled gravimeter with an initial scale factor of 0.0965 mGal (milliGal) per scale division. However, this had been changed to 0.1907 mGal per scale division before the December 1981 measurements. Four base stations were established in the study area, and one was occupied at the beginning, middle, and end of each working day. The base stations were tied to a U.S. Department of Defense gravity station in Fallon, which has a standard absolute value of 979,744.67 mGal (Gravity Services Branch, 1970).

¹ Use of brand names in this report is for descriptive purposes only and does not constitute endorsement by the U.S. Geological Survey.

Principal facts for each of the 345 stations are listed in the following table. A map showing the location of the original 300 stations is given by Schaefer (1983, figure 2). In addition, Schaefer discusses details regarding the collection, correction, reduction, interpretation, and limitations of the data (1983, pages 5-14). A map showing Bouguer gravity anomalies and gravity stations in Dixie, Fairview, and Stingaree Valleys is currently (1984) in preparation for publication as a U.S. Geological Survey Geophysical Investigations Map.

The data listed in the following table are available on magnetic tape from the U.S. Geological Survey, 705 N. Plaza St., Room 224, Carson City, Nev. 89701.

PRINCIPAL FACTS FOR
GRAVITY STATIONS

Site: Data are listed by valley, in order of decreasing latitude (that is, from north to south).

Terrain corrections: "Hand" indicates manual correction within a radius of 1.42 miles, at a bedrock density of 2.67 g/cm³ (grams per cubic centimeter).

"Comp" indicates computer correction between radii of 1.42 and of 103.6 miles, at a bedrock density of 2.67 g/cm³. (See Schaefer, 1983, page 8.)

Bouguer anomaly: Complete Bouguer anomaly at a bedrock density of 2.67 g/cm³.

Site	Latitude		Longitude		Altitude (feet above sea level)	Observed gravity (mGal)	Free-air anomaly (mGal)	Terrain corrections		Bouguer anomaly (mGal)
	(deg	min)	(deg	min)				Hand (mGal)	Comp (mGal)	
DIXIE VALLEY										
K21	40	6.95	117	35.48	3831	979799.63	-19.31	0.10	0.89	-150.26
K20	40	6.86	117	36.01	3819	979803.63	-16.21	0.40	0.84	-146.50
K19	40	6.74	117	36.44	3776	979806.00	-17.76	0.16	0.86	-146.79
K18	40	6.69	117	36.81	3738	979806.50	-20.80	0.09	0.88	-148.58
K17	40	6.63	117	37.31	3721	979804.13	-24.59	0.01	0.83	-151.91
K16	40	6.57	117	37.74	3707	979801.88	-28.11	0.00	0.85	-154.94
K15	40	6.46	117	38.00	3703	979799.75	-30.48	0.00	0.84	-157.19
K14	40	6.40	117	38.36	3714	979796.88	-32.19	0.00	0.81	-159.31
K13	40	6.34	117	38.90	3714	979793.50	-35.54	0.00	0.81	-162.65
K12	40	6.27	117	39.33	3714	979792.50	-36.42	0.00	0.83	-163.51
K11	40	6.18	117	39.76	3717	979792.75	-35.73	0.00	0.86	-162.90
K10	40	6.06	117	40.31	3709	979793.63	-35.37	0.02	0.96	-162.14
K9	40	6.01	117	40.59	3737	979791.88	-34.50	0.03	0.98	-162.20
K8	40	5.93	117	41.05	3728	979793.63	-33.49	0.02	1.10	-160.77
K7	40	5.85	117	41.44	3713	979796.38	-32.03	0.05	1.25	-158.62
K6	40	5.76	117	41.86	3731	979796.50	-30.02	0.06	1.35	-157.11
K5	40	5.69	117	42.23	3776	979795.63	-26.60	0.12	1.38	-155.15
K4	40	5.61	117	42.66	3809	979796.75	-22.18	0.17	1.43	-151.77
K3	40	5.53	117	43.13	3789	979799.75	-21.02	0.22	1.56	-149.74
K2	40	5.30	117	44.05	3765	979801.63	-21.07	0.34	1.81	-148.54
KA	40	5.25	117	44.37	3720	979804.13	-22.67	0.49	2.02	-148.29
KB	40	5.10	117	45.09	3736	979800.25	-24.78	0.18	2.25	-151.03
KC	40	4.93	117	45.84	3768	979798.25	-23.53	0.23	2.58	-150.49
KD	40	4.76	117	46.76	3822	979794.63	-21.91	0.44	2.93	-150.17
KF	40	4.64	117	48.24	4711	979740.88	8.19	5.56	2.54	-145.81

Site	Latitude		Longitude		Altitude (feet above sea level)	Observed gravity (mGal)	Free-air anomaly (mGal)	Terrain corrections		Bouguer anomaly (mGal)
	(deg	min)	(deg	min)				Hand (mGal)	Comp (mGal)	
DIXIE VALLEY--Continued										
KE	40	4.59	117	47.53	3998	979783.38	-16.27	1.98	3.20	-148.77
S3	40	4.14	117	44.50	3560	979804.75	-35.43	0.00	2.75	-155.30
S21	40	3.40	117	42.28	3585	979802.00	-34.69	0.00	3.10	-155.07
S4	40	2.91	117	46.07	3514	979799.75	-42.93	0.00	3.41	-160.57
S20	40	1.87	117	43.98	3543	979804.75	-33.72	0.00	3.45	-152.32
S5	40	1.18	117	48.18	3466	979797.75	-46.84	0.05	3.43	-162.76
J5	40	0.62	117	48.85	3458	979798.63	-45.96	0.21	3.61	-161.26
J6	40	0.57	117	48.42	3457	979796.50	-48.07	0.02	3.01	-164.13
J7	40	0.52	117	48.00	3465	979795.75	-47.96	0.00	2.58	-164.74
J8	40	0.49	117	47.58	3464	979796.38	-47.47	0.00	2.37	-164.43
J9	40	0.45	117	47.15	3463	979797.88	-45.98	0.00	2.29	-162.99
J10	40	0.41	117	46.73	3477	979799.75	-42.64	0.00	2.31	-160.11
J11	40	0.38	117	46.31	3489	979801.25	-40.05	0.00	2.50	-157.74
J12	40	0.33	117	45.87	3487	979801.25	-40.13	0.00	2.80	-157.45
J50	40	0.15	117	43.15	3586	979803.00	-28.79	0.00	5.23	-147.09
H29	39	57.32	117	43.92	3651	979796.25	-25.27	0.00	3.25	-147.77
H21	39	57.32	117	47.31	3502	979793.25	-42.31	0.00	1.31	-161.64
H34	39	57.31	117	40.67	3804	979778.75	-28.31	0.03	2.62	-156.67
H32	39	57.31	117	42.28	3739	979788.38	-24.88	0.00	3.44	-150.22
H26	39	57.31	117	45.15	3592	979796.75	-30.25	0.00	2.57	-151.41
H25	39	57.31	117	45.57	3568	979796.63	-32.70	0.00	2.34	-153.26
H22	39	57.31	117	46.90	3525	979794.13	-39.18	0.00	1.46	-159.15
H19	39	57.31	117	48.27	3471	979790.88	-47.53	0.00	1.19	-165.91
H18	39	57.31	117	48.73	3458	979789.38	-50.25	0.00	1.21	-168.16
H17	39	57.31	117	49.22	3448	979788.63	-51.95	0.00	1.28	-169.45
H16	39	57.31	117	49.68	3441	979788.50	-52.68	0.00	1.37	-169.84
H15	39	57.31	117	50.18	3427	979789.63	-52.92	0.00	1.53	-169.44
H14	39	57.31	117	50.66	3431	979791.50	-50.68	0.00	1.72	-167.16
H13	39	57.31	117	51.10	3438	979793.38	-48.08	0.00	1.93	-164.59
H35	39	57.30	117	39.87	3879	979778.13	-21.92	0.46	1.96	-153.09
H33	39	57.30	117	41.47	3742	979785.00	-27.90	0.00	3.19	-153.59
H31	39	57.30	117	43.07	3674	979791.63	-27.70	0.00	3.60	-150.65
H30	39	57.30	117	43.52	3676	979793.25	-25.94	0.00	3.40	-149.15
H28	39	57.30	117	44.32	3634	979797.00	-26.04	0.00	2.98	-148.24
H27	39	57.30	117	44.75	3608	979796.63	-28.90	0.00	2.77	-150.41

Site	Latitude		Longitude (deg min)	Altitude (feet above sea level)	Observed gravity (mGal)	Free-air anomaly (mGal)	Terrain corrections		Bouguer anomaly (mGal)
	(deg min)	(deg min)					Hand (mGal)	Comp (mGal)	
DIXIE VALLEY--Continued									
H24	39	57.30	117 46.01	3556	979796.50	-33.93	0.00	2.03	-154.38
H23	39	57.30	117 46.46	3537	979796.50	-35.71	0.00	1.71	-155.84
H20	39	57.30	117 47.79	3488	979793.13	-43.73	0.00	1.21	-162.67
H12	39	57.26	117 51.96	3473	979797.63	-40.50	0.03	2.36	-157.76
H11	39	57.25	117 52.41	3477	979800.13	-37.64	0.11	2.66	-154.65
HC	39	57.20	117 53.14	3469	979803.13	-35.34	0.46	3.18	-151.20
HB	39	57.17	117 53.76	3439	979808.88	-32.30	1.42	3.70	-145.66
HA	39	57.13	117 55.32	3717	979801.13	-13.94	4.65	3.57	-133.74
S12	39	55.94	117 47.79	3480	979797.50	-38.04	0.00	1.01	-156.91
L6	39	55.73	117 56.50	3454	979808.00	-29.70	0.11	3.22	-145.36
G40	39	53.82	117 44.80	3740	979790.25	-17.69	0.02	1.29	-145.19
G38	39	53.82	117 46.03	3625	979796.88	-21.87	0.00	1.25	-145.49
G37	39	53.82	117 46.43	3600	979798.25	-22.88	0.00	1.13	-145.75
G32	39	53.82	117 48.44	3475	979801.63	-31.22	0.00	0.80	-150.12
G31	39	53.82	117 48.82	3460	979799.88	-34.41	0.00	0.77	-152.83
G30	39	53.82	117 49.23	3445	979798.38	-37.27	0.00	0.76	-155.19
G29	39	53.82	117 49.63	3434	979792.00	-44.76	0.00	0.75	-162.30
G28	39	53.82	117 50.04	3426	979796.88	-40.65	0.00	0.75	-157.92
G27	39	53.82	117 50.43	3420	979789.38	-48.60	0.00	0.75	-165.67
G26	39	53.82	117 50.83	3410	979788.63	-50.30	0.00	0.75	-167.02
G25	39	53.82	117 51.24	3400	979790.88	-49.02	0.00	0.75	-165.39
G24	39	53.82	117 51.64	3399	979791.38	-48.62	0.00	0.76	-164.95
G23	39	53.82	117 52.04	3398	979794.13	-46.01	0.00	0.78	-162.29
G21	39	53.82	117 52.82	3393	979790.13	-50.39	0.00	0.83	-166.44
G20	39	53.82	117 53.26	3392	979794.38	-46.28	0.00	0.87	-162.26
G19	39	53.82	117 53.61	3390	979792.88	-47.92	0.00	0.91	-163.80
G18	39	53.82	117 54.03	3388	979791.13	-49.86	0.00	0.96	-165.62
G17	39	53.82	117 54.43	3386	979791.75	-49.49	0.00	1.02	-165.12
G16	39	53.82	117 54.84	3386	979786.25	-55.00	0.00	1.09	-170.56
G15	39	53.82	117 55.23	3384	979786.38	-55.09	0.00	1.17	-170.50
G14	39	53.82	117 55.63	3384	979786.13	-55.27	0.00	1.26	-170.58
G13	39	53.82	117 56.03	3382	979787.00	-54.67	0.00	1.38	-169.80
G12	39	53.82	117 56.44	3381	979793.88	-47.78	0.00	1.52	-162.74
G10	39	53.82	117 57.24	3381	979791.63	-50.10	0.00	1.89	-164.69
G8	39	53.82	117 58.04	3380	979795.13	-46.71	0.00	2.41	-160.74

Site	Latitude		Longitude		Altitude (feet above sea level)	Observed gravity (mGal)	Free-air anomaly (mGal)	Terrain corrections		Bouguer anomaly (mGal)
	(deg	min)	(deg	min)				Hand (mGal)	Comp (mGal)	
DIXIE VALLEY--Continued										
G4	39	53.82	117	59.82	3503	979803.00	-27.19	0.86	3.67	-143.33
G4	39	53.82	117	59.87	3503	979800.75	-29.49	0.86	3.74	-145.56
G3	39	53.82	117	60.23	3586	979800.50	-21.94	1.08	3.96	-140.42
G1	39	53.82	117	60.80	3800	979792.50	-9.87	3.34	4.08	-133.32
G36	39	53.81	117	46.82	3560	979800.25	-24.58	0.00	1.03	-146.18
G35	39	53.81	117	47.23	3535	979802.00	-25.21	0.00	0.94	-146.04
G34	39	53.81	117	47.63	3510	979803.13	-26.44	0.00	0.87	-146.49
G33	39	53.81	117	48.03	3491	979802.38	-29.00	0.00	0.84	-148.42
G22	39	53.81	117	52.42	3395	979791.25	-49.09	0.00	0.80	-165.24
G11	39	53.81	117	56.83	3381	979793.38	-48.26	0.00	1.68	-163.05
G9	39	53.81	117	57.64	3380	979791.25	-50.55	0.00	2.13	-164.87
G7	39	53.81	117	58.41	3380	979797.25	-44.50	0.04	2.67	-158.24
G6	39	53.81	117	58.82	3380	979801.13	-40.60	0.10	3.00	-153.93
G5	39	53.81	117	59.45	3443	979803.63	-32.24	0.78	3.42	-146.64
G2	39	53.80	117	60.63	3694	979797.50	-14.78	1.86	4.21	-135.94
G41	39	53.77	117	43.17	3852	979777.88	-19.43	0.00	1.36	-150.73
S13	39	52.85	117	43.75	4020	979774.50	-5.72	0.16	1.06	-142.93
S14	39	52.43	117	46.85	3585	979799.38	-21.04	0.00	1.14	-143.39
S15	39	51.21	117	47.96	3635	979789.88	-24.08	0.00	1.00	-148.29
F34	39	49.61	117	48.72	3695	979773.25	-32.62	0.05	1.18	-158.66
F33	39	49.56	117	49.46	3620	979772.13	-40.77	0.01	1.10	-164.34
F23	39	49.51	117	53.89	3382	979789.00	-46.20	0.00	0.79	-161.92
F22	39	49.51	117	54.32	3372	979789.63	-46.52	0.00	0.78	-161.90
F21	39	49.51	117	54.76	3371	979789.50	-46.77	0.00	0.76	-162.13
F24	39	49.50	117	53.50	3380	979788.00	-47.43	0.00	0.82	-163.06
F20	39	49.49	117	55.16	3384	979787.00	-48.03	0.00	0.75	-163.85
F26	39	49.48	117	52.65	3421	979785.88	-45.66	0.00	0.84	-162.67
F25	39	49.48	117	53.09	3401	979787.25	-46.19	0.00	0.82	-162.53
F16	39	49.48	117	56.74	3377	979779.38	-56.26	0.00	0.80	-171.80
F15	39	49.48	117	57.16	3375	979777.63	-58.25	0.00	0.84	-173.68
F27	39	49.47	117	52.20	3462	979782.38	-45.23	0.00	0.84	-163.64
F19	39	49.47	117	55.56	3383	979785.38	-49.67	0.00	0.75	-165.46
F17	39	49.47	117	56.36	3379	979781.25	-54.24	0.00	0.79	-169.85
F18	39	49.46	117	55.95	3381	979783.25	-51.98	0.00	0.76	-167.69
F29	39	49.45	117	51.40	3541	979775.38	-44.81	0.00	0.85	-165.93

Site	Latitude		Longitude		Altitude (feet above sea level)	Observed gravity (mGal)	Free-air anomaly (mGal)	Terrain corrections		Bouguer anomaly (mGal)
	(deg	min)	(deg	min)				Hand (mGal)	Comp (mGal)	
DIXIE VALLEY--Continued										
F28	39	49.44	117	51.79	3503	979778.25	-45.55	0.00	0.84	-165.37
F2	39	49.43	118	2.85	3792	979783.25	-13.34	1.29	2.95	-139.70
F9	39	49.42	118	0.15	3382	979782.63	-52.39	0.00	1.67	-167.23
F4	39	49.42	118	2.10	3556	979793.63	-25.07	0.56	2.81	-144.20
F3	39	49.42	118	2.52	3662	979789.00	-19.75	0.64	2.94	-142.30
F7	39	49.41	118	0.93	3394	979790.50	-43.49	0.07	2.17	-158.17
F8	39	49.40	118	0.54	3383	979785.88	-49.11	0.03	1.90	-163.72
F6	39	49.40	118	1.30	3422	979793.50	-37.73	0.15	2.40	-153.06
F5	39	49.40	118	1.70	3470	979795.25	-31.47	0.28	2.63	-148.09
F30	39	49.35	117	51.02	3583	979771.88	-44.16	0.00	0.88	-166.70
F35	39	49.29	117	48.04	3830	979770.75	-21.95	0.17	1.37	-152.32
F31	39	49.26	117	50.59	3616	979769.25	-43.57	0.01	0.94	-167.18
F36	39	48.90	117	47.33	4040	979761.75	-10.64	0.74	1.59	-147.43
I4	39	48.62	117	52.19	3544	979779.75	-38.97	0.05	0.91	-160.09
S2	39	46.24	117	54.21	3562	979772.13	-41.36	0.07	1.23	-162.76
E9	39	45.41	118	8.01	3763	979769.63	-23.74	0.75	2.09	-149.51
E44	39	45.35	117	53.24	3806	979752.63	-36.50	0.16	1.50	-165.89
E43	39	45.35	117	53.64	3724	979757.00	-39.83	0.12	1.54	-166.37
E39	39	45.35	117	55.34	3535	979766.13	-48.57	0.01	1.56	-168.78
E37	39	45.35	117	56.21	3483	979763.75	-55.85	0.00	1.31	-174.52
E35	39	45.35	117	57.07	3461	979761.63	-60.03	0.00	1.22	-178.04
E25	39	45.35	118	1.16	3380	979761.63	-67.55	0.00	0.89	-183.10
E18	39	45.35	118	3.96	3390	979764.38	-63.88	0.00	1.09	-179.57
E52	39	45.34	117	49.30	4520	979721.25	-0.78	0.63	1.97	-153.78
E46	39	45.34	117	52.56	3955	979742.88	-32.23	0.20	1.49	-166.74
E45	39	45.34	117	52.85	3881	979747.50	-34.64	0.17	1.51	-166.60
E40	39	45.34	117	54.91	3580	979766.38	-44.04	0.02	1.59	-165.74
E38	39	45.34	117	55.80	3504	979765.00	-52.59	0.00	1.42	-171.88
E36	39	45.34	117	56.62	3473	979762.50	-57.93	0.00	1.23	-176.34
E34	39	45.34	117	57.48	3450	979761.13	-61.57	0.00	1.23	-179.18
E33	39	45.34	117	57.91	3431	979761.63	-62.77	0.00	1.24	-179.71
E31	39	45.34	117	58.73	3405	979762.38	-64.50	0.00	1.08	-180.72
E29	39	45.34	117	59.56	3398	979763.88	-63.60	0.00	0.94	-179.72
E29	39	45.34	117	59.56	3398	979763.63	-63.94	0.00	0.94	-180.06
E26	39	45.34	118	0.75	3380	979761.63	-67.55	0.00	0.89	-183.10

Site	Latitude		Longitude		Altitude (feet above sea level)	Observed gravity (mGal)	Free-air anomaly (mGal)	Terrain corrections		Bouguer anomaly (mGal)
	(deg	min)	(deg	min)				Hand (mGal)	Comp (mGal)	
DIXIE VALLEY--Continued										
E24	39	45.34	118	1.56	3379	979761.88	-67.48	0.00	0.89	-182.99
E19	39	45.34	118	3.56	3387	979763.25	-65.30	0.00	1.02	-180.96
E17	39	45.34	118	4.36	3393	979766.25	-61.70	0.00	1.17	-177.41
E41	39	45.33	117	54.48	3578	979763.88	-46.73	0.09	1.66	-168.18
E32	39	45.33	117	58.34	3425	979761.88	-63.14	0.00	1.16	-179.97
E30	39	45.33	117	59.15	3387	979763.38	-65.13	0.00	1.01	-180.80
E28	39	45.33	117	59.95	3394	979763.38	-64.54	0.00	0.91	-180.55
E27	39	45.33	118	0.36	3385	979762.63	-66.11	0.00	0.89	-181.83
E23	39	45.33	118	1.96	3379	979761.75	-67.49	0.00	0.90	-182.99
E22	39	45.33	118	2.36	3378	979762.00	-67.43	0.00	0.93	-182.88
E21	39	45.33	118	2.76	3380	979762.00	-67.15	0.00	0.97	-182.62
E20	39	45.33	118	3.16	3385	979762.38	-66.41	0.00	0.98	-182.05
E16	39	45.30	118	4.76	3395	979768.25	-59.50	0.00	1.23	-175.23
E42	39	45.25	117	54.04	3651	979760.13	-43.48	0.10	1.65	-167.47
E15	39	45.25	118	5.16	3400	979771.00	-56.26	0.00	1.30	-172.09
E14	39	45.20	118	5.56	3410	979772.25	-53.96	0.04	1.39	-170.00
E13A	39	45.14	118	5.96	3420	979774.38	-50.78	0.04	1.48	-167.07
E10	39	45.10	118	7.61	3611	979774.25	-32.88	0.48	1.93	-154.85
E13	39	45.08	118	6.42	3440	979777.50	-45.64	0.12	1.62	-162.41
E12	39	45.08	118	6.80	3470	979778.50	-41.82	0.16	1.72	-159.47
E11	39	45.08	118	7.21	3534	979776.88	-37.43	0.19	1.82	-157.16
E9	39	43.76	118	7.87	3453	979777.25	-42.82	0.75	1.79	-159.23
TRLR										
BAS	39	42.50	118	6.98	3524	979765.75	-45.73	0.00	1.06	-166.06
S34	39	41.66	118	4.76	3416	979757.88	-62.49	0.00	0.94	-179.23
S16	39	41.51	118	0.28	3461	979762.50	-53.48	0.00	1.55	-171.15
DD8	39	40.41	118	8.63	3482	979765.00	-47.36	0.00	1.63	-165.67
S1	39	40.34	118	4.43	3450	979755.00	-60.22	0.00	1.06	-178.01
S33	39	39.93	118	5.78	3461	979753.13	-60.46	0.00	1.06	-178.63
S32	39	39.05	118	5.76	3484	979750.88	-59.22	0.00	1.14	-178.10
D10	39	38.18	118	8.25	3527	979753.50	-51.33	0.00	1.68	-171.13

Site	Latitude		Longitude		Altitude (feet above sea level)	Observed gravity (mGal)	Free-air anomaly (mGal)	Terrain corrections		Bouguer anomaly (mGal)
	(deg	min)	(deg	min)				Hand (mGal)	Comp (mGal)	
DIXIE VALLEY--Continued										
D9	39	38.18	118	8.68	3522	979757.38	-47.90	0.01	1.95	-167.26
D8	39	38.18	118	9.11	3550	979760.25	-42.44	0.00	2.25	-162.47
D7	39	38.18	118	9.33	3574	979760.75	-39.65	0.02	2.42	-160.32
D6	39	38.18	118	9.55	3630	979761.25	-33.80	0.16	2.55	-156.12
D5	39	38.18	118	9.76	3684	979761.75	-28.23	0.34	2.68	-152.10
D23	39	38.16	118	2.61	3557	979746.88	-55.11	0.02	2.09	-175.53
D22	39	38.16	118	3.51	3522	979747.13	-58.13	0.00	1.68	-177.77
D21	39	38.16	118	3.64	3504	979747.13	-59.74	0.00	1.66	-178.78
D20	39	38.16	118	4.03	3494	979746.75	-61.08	0.00	1.55	-179.89
D19	39	38.16	118	4.45	3496	979746.00	-61.64	0.00	1.42	-180.64
D18	39	38.16	118	4.88	3512	979745.50	-60.64	0.00	1.32	-180.30
D17	39	38.16	118	5.30	3507	979745.75	-60.84	0.00	1.27	-180.37
D16	39	38.16	118	5.73	3503	979747.13	-59.92	0.00	1.25	-179.34
D13	39	38.16	118	7.01	3521	979748.13	-57.16	0.00	1.31	-177.14
D24	39	38.15	118	2.38	3622	979744.50	-51.36	0.19	2.13	-173.80
D15	39	38.14	118	6.16	3508	979747.38	-59.12	0.00	1.25	-178.72
D14	39	38.14	118	6.65	3508	979747.88	-58.65	0.00	1.28	-178.21
D12	39	38.14	118	7.47	3502	979749.38	-57.70	0.00	1.44	-176.89
D11	39	38.14	118	7.90	3518	979751.00	-54.60	0.00	1.55	-174.24
D4	39	38.13	118	9.96	3731	979761.13	-24.41	0.60	2.83	-149.48
D3	39	38.13	118	10.16	3795	979759.88	-19.70	0.82	2.94	-146.64
D2	39	38.13	118	10.38	3870	979757.88	-14.64	1.23	3.06	-143.64
D25	39	38.08	118	1.96	3724	979738.13	-48.03	0.36	2.29	-173.65
S6	39	36.92	118	3.28	3641	979736.88	-55.32	0.10	2.06	-178.57
S7	39	35.99	118	4.08	3649	979730.50	-59.51	0.03	1.89	-183.28
S30	39	35.89	118	6.65	3581	979735.50	-60.82	0.00	1.48	-182.69
C5	39	35.86	118	9.19	3590	979750.38	-45.10	0.00	2.66	-166.10
S8	39	34.99	118	2.50	4120	979701.88	-42.47	0.30	2.50	-181.54
S29	39	34.98	118	9.16	3620	979740.13	-51.15	0.03	2.51	-173.30
S31	39	34.60	118	5.05	3739	979722.50	-57.09	0.02	1.64	-184.21
S28	39	34.00	118	9.05	3656	979735.50	-50.98	0.01	2.25	-174.65
S9	39	32.77	118	6.72	3762	979725.38	-49.27	0.02	1.52	-177.29
S10	39	32.53	118	4.43	4031	979707.50	-41.53	0.15	1.81	-178.39
S11	39	32.43	118	8.56	3746	979727.25	-48.49	0.02	1.74	-175.75
S27	39	31.31	118	8.59	3783	979726.88	-43.65	0.05	1.69	-172.21

Site	Latitude		Longitude		Altitude (feet above sea level)	Observed gravity (mGal)	Free-air anomaly (mGal)	Terrain corrections		Bouguer anomaly (mGal)
	(deg	min)	(deg	min)				Hand (mGal)	Comp (mGal)	
DIXIE VALLEY--Continued										
S26	39	30.59	118	9.04	3807	979729.63	-37.57	0.01	1.73	-166.95
B3	39	30.49	118	12.00	4680	979683.38	-1.63	0.53	1.93	-160.26
B4	39	30.36	118	11.62	4427	979697.38	-11.26	0.59	1.88	-161.19
B5	39	30.28	118	11.21	4284	979703.63	-18.35	0.40	1.79	-163.66
B6	39	30.21	118	10.78	4154	979708.25	-25.80	0.41	1.71	-166.72
B7	39	30.14	118	10.37	4025	979714.25	-31.88	0.36	1.72	-168.41
B8	39	30.07	118	9.94	3920	979720.38	-35.50	0.21	1.73	-168.56
B9	39	30.00	118	9.53	3845	979726.00	-36.76	0.15	1.76	-167.27
B10	39	29.94	118	9.11	3831	979728.88	-35.08	0.05	1.71	-165.26
B11	39	29.85	118	8.70	3800	979729.63	-37.21	0.03	1.77	-166.29
B12	39	29.76	118	8.26	3823	979729.25	-35.21	0.20	1.78	-164.90
B13	39	29.69	118	7.90	3900	979724.88	-32.24	0.60	1.70	-164.24
S25	39	28.87	118	9.55	3862	979722.50	-37.05	0.38	1.72	-167.96
S24	39	28.08	118	9.45	3900	979720.25	-34.55	0.33	1.67	-166.87
S23	39	26.43	118	9.29	3955	979716.50	-30.71	0.11	1.62	-165.18
A24	39	25.62	118	6.49	5166	979641.75	9.61	2.35	1.61	-164.19
A23	39	25.57	118	6.80	4924	979657.75	2.93	1.90	1.64	-162.99
A21	39	25.56	118	7.62	4482	979687.38	-8.97	0.48	1.67	-161.12
A22	39	25.55	118	7.21	4681	979674.25	-3.40	1.03	1.69	-161.81
A20	39	25.55	118	8.03	4317	979696.88	-14.90	0.51	1.63	-161.39
A18	39	25.49	118	8.66	4095	979706.38	-26.27	0.26	1.63	-165.39
A19	39	25.48	118	8.44	4163	979702.88	-23.34	0.25	1.64	-164.80
A0	39	25.48	118	14.53	4855	979685.63	24.42	0.90	0.79	-140.98
A17	39	25.47	118	8.84	4047	979709.75	-27.36	0.21	1.63	-164.89
A1	39	25.47	118	14.14	4790	979688.88	21.64	0.59	0.76	-141.87
A2	39	25.43	118	13.73	4717	979690.25	16.24	0.52	0.71	-144.89
A16	39	25.42	118	9.06	4003	979713.25	-27.96	0.12	1.60	-164.09
A3	39	25.28	118	13.43	4642	979692.50	11.67	0.24	0.66	-147.22
A4	39	25.10	118	13.14	4580	979694.00	7.59	0.19	0.62	-149.26
A5	39	24.95	118	12.80	4519	979695.25	3.28	0.07	0.59	-151.63
A6	39	24.88	118	12.41	4460	979696.13	-1.24	0.12	0.59	-154.07
A7	39	24.83	118	12.03	4400	979697.75	-5.18	0.11	0.60	-155.96
A9	39	24.82	118	11.27	4282	979704.25	-9.78	0.23	0.66	-156.33
A8	39	24.81	118	11.64	4340	979700.75	-7.86	0.16	0.61	-156.51
A10	39	24.79	118	10.85	4242	979698.75	-18.94	0.08	0.70	-164.22

Site	Latitude		Longitude		Altitude (feet above sea level)	Observed gravity (mGal)	Free-air anomaly (mGal)	Terrain corrections		Bouguer anomaly (mGal)
	(deg	min)	(deg	min)				Hand (mGal)	Comp (mGal)	
DIXIE VALLEY--Continued										
A15	39	24.78	118	9.37	4053	979711.25	-24.31	0.06	1.30	-162.52
A11	39	24.70	118	10.48	4184	979704.38	-18.70	0.05	0.79	-161.93
A12	39	24.54	118	10.17	4123	979708.63	-19.90	0.04	0.91	-160.92
A14	39	24.44	118	9.57	4049	979712.75	-22.63	0.12	1.20	-160.74
A13	39	24.31	118	9.79	4069	979711.88	-21.42	0.04	1.07	-160.42
DV-1	39	23.98	118	9.67	4067	979712.63	-19.63	0.04	1.08	-158.57
DV-49	39	23.78	118	17.29	4929	979656.25	2.09	0.16	0.55	-166.83
DV-50	39	23.63	118	17.96	4866	979669.50	9.47	0.12	0.53	-157.36
DV-48	39	23.40	118	16.63	4820	979655.38	-8.37	0.11	0.47	-173.68
DV-47	39	23.23	118	16.09	4751	979661.13	-8.80	0.30	0.44	-171.60
DV-2	39	23.18	118	9.83	4112	979712.88	-14.20	0.12	0.85	-154.82
S22	39	23.16	118	9.94	4112	979713.25	-14.31	0.00	0.83	-155.07
DV-64	39	23.00	118	4.57	5315	979627.00	10.01	2.38	1.41	-169.06
DV-46	39	22.91	118	15.64	4645	979668.00	-11.27	0.13	0.38	-170.66
DV-45	39	22.75	118	15.10	4545	979675.25	-13.19	0.07	0.35	-169.23
DV-63	39	22.61	118	4.82	5185	979635.63	7.03	0.89	1.44	-169.05
DV-44	39	22.45	118	14.65	4465	979677.50	-17.93	0.04	0.32	-171.29
DV-62	39	22.24	118	5.14	5010	979645.50	0.97	0.57	1.41	-169.47
DV-43	39	22.16	118	14.23	4400	979678.88	-22.16	0.03	0.30	-173.31
DV-61	39	21.94	118	5.53	4850	979655.63	-3.50	0.44	1.32	-168.67
DV-42	39	21.92	118	13.76	4350	979681.38	-23.87	0.00	0.28	-173.35
DV-41	39	21.67	118	13.30	4310	979684.38	-24.32	0.00	0.28	-172.44
DV-60	39	21.58	118	5.87	4700	979661.88	-10.74	0.33	1.22	-170.97
DV-40	39	21.45	118	12.85	4285	979689.13	-21.48	0.00	0.28	-168.74
DV-3	39	21.43	118	9.20	4182	979703.50	-14.69	0.13	0.69	-157.87
DV-59	39	21.41	118	6.15	4605	979666.50	-14.94	0.22	1.16	-172.08
DV-39	39	21.19	118	12.38	4265	979689.13	-22.84	0.00	0.29	-169.40
DV-58	39	21.11	118	6.55	4485	979673.25	-18.99	0.18	1.08	-172.13
DV-38	39	20.95	118	11.92	4231	979692.25	-22.49	0.04	0.31	-167.82
DV-37	39	20.92	118	11.27	4225	979693.75	-21.43	0.02	0.35	-166.53
DV-57	39	20.83	118	6.97	4395	979679.25	-21.12	0.16	0.96	-171.31
DV-56	39	20.55	118	7.40	4350	979682.63	-21.49	0.33	0.83	-170.09
DV-36	39	20.35	118	10.80	4250	979691.75	-20.23	0.00	0.36	-166.20
DV-55	39	20.23	118	7.82	4285	979687.88	-21.88	0.67	0.76	-167.99
DV-35	39	20.10	118	10.35	4290	979690.50	-17.24	0.01	0.38	-164.56

Site	Latitude		Longitude		Altitude (feet above sea level)	Observed gravity (mGal)	Free-air anomaly (mGal)	Terrain corrections		Bouguer anomaly (mGal)
	(deg	min)	(deg	min)				Hand (mGal)	Comp (mGal)	
DIXIE VALLEY--Continued										
DV-53	39	19.95	118	8.08	4270	979689.63	-21.26	0.39	0.69	-167.20
DV-34	39	19.87	118	9.88	4305	979689.13	-16.83	0.01	0.41	-164.63
DV-52	39	19.70	118	8.40	4245	979691.00	-21.87	0.22	0.66	-167.15
DV-54	39	19.67	118	7.80	4460	979681.38	-11.20	1.37	0.54	-162.83
DV-33	39	19.62	118	9.41	4317	979688.50	-15.80	0.01	0.46	-163.96
DV-4	39	18.40	118	9.50	4386	979683.38	-11.36	0.01	0.48	-161.87
DV-24	39	16.50	118	20.38	4610	979673.50	-0.05	0.30	0.24	-158.20
DV-21	39	16.43	118	18.56	4274	979678.38	-26.17	0.13	0.26	-172.93
DV-23	39	16.43	118	19.42	4457	979679.00	-8.74	0.60	0.23	-161.35
STINGAREE VALLEY										
DV-32	39	19.28	118	8.72	4302	979687.75	-17.43	0.09	0.56	-164.90
DV-31	39	19.12	118	8.33	4265	979690.50	-17.85	0.20	0.65	-163.84
DV-51	39	19.03	118	8.92	4342	979684.88	-17.92	0.00	0.52	-166.90
DV-65	39	19.01	118	6.88	4510	979682.88	-3.68	0.85	0.65	-157.45
DV-30	39	18.86	118	7.85	4300	979688.50	-16.19	0.40	0.70	-163.14
DV-29	39	18.55	118	7.40	4330	979688.38	-12.63	0.49	0.76	-160.46
DV-28	39	18.25	118	6.97	4335	979688.25	-11.71	0.06	0.85	-160.06
DV-26	39	18.08	118	5.83	4375	979684.38	-11.41	0.03	1.03	-160.97
DV-27	39	18.02	118	6.55	4350	979686.50	-11.63	0.02	0.91	-160.47
DV-25	39	17.95	118	5.30	4395	979681.63	-11.96	0.09	1.11	-162.07
DV-7	39	17.50	118	4.10	4466	979674.50	-12.13	0.44	1.11	-164.33
DV-5	39	17.47	118	2.93	4520	979674.13	-7.11	0.79	1.09	-160.83
DV-6	39	17.38	118	3.02	4539	979674.13	-5.37	2.25	1.04	-158.34
DV-8	39	17.38	118	5.35	4437	979678.63	-10.60	0.06	1.01	-162.29
DV-9	39	17.33	118	6.40	4390	979679.50	-14.15	0.02	0.98	-164.30

Site	Latitude		Longitude		Altitude (feet above sea level)	Observed gravity (mGal)	Free-air anomaly (mGal)	Terrain corrections		Bouguer anomaly (mGal)
	(deg	min)	(deg	min)				Hand (mGal)	Comp (mGal)	
FAIRVIEW VALLEY										
DV-53	39	19.95	118	8.08	4270	979689.63	-21.26	0.39	0.69	-167.20
DV-10	39	17.21	118	7.37	4423	979674.50	-16.08	0.07	0.90	-167.39
DV-12	39	17.18	118	9.22	4598	979669.25	-4.86	0.15	0.65	-162.33
DV-11	39	17.17	118	8.23	4564	979668.75	-8.42	0.38	0.72	-164.43
DV-13	39	17.17	118	10.31	4557	979672.13	-5.94	0.10	0.59	-162.12
DV-14	39	17.12	118	11.55	4424	979679.00	-11.64	0.06	0.54	-163.34
DV-15	39	17.00	118	12.82	4284	979675.63	-27.98	0.08	0.51	-174.89
DV-16	39	16.97	118	13.76	4188	979674.13	-38.58	0.01	0.47	-182.30
DV-17	39	16.93	118	14.57	4150	979674.38	-41.95	0.00	0.42	-184.43
DV-18	39	16.87	118	15.15	4149	979673.25	-43.32	0.00	0.37	-185.82
DV-19	39	16.71	118	16.27	4154	979674.13	-41.89	0.00	0.30	-184.63
DV-20	39	16.70	118	16.72	4161	979674.50	-40.92	0.00	0.28	-183.92
DV-22	39	16.61	118	17.40	4166	979671.25	-43.80	0.00	0.28	-186.97
DV-71	39	10.45	118	15.41	4495	979642.63	-30.38	0.07	1.41	-183.65
DV-70	39	10.39	118	15.98	4430	979644.25	-34.77	0.07	1.37	-185.84
DV-72	39	10.30	118	14.77	4620	979640.38	-20.59	0.14	1.31	-178.17
DV-69	39	10.30	118	16.54	4490	979645.75	-27.50	0.02	1.05	-181.01
DV-68	39	10.17	118	17.05	4390	979645.88	-36.58	0.01	1.15	-186.56
DV-73	39	10.07	118	14.27	4730	979638.88	-11.41	0.30	1.20	-172.72
DV-67	39	10.00	118	17.55	4425	979646.88	-32.01	0.02	1.09	-183.24
DV-66	39	9.79	118	18.07	4500	979648.38	-23.14	0.09	1.07	-176.90
DV-74	39	9.61	118	18.55	4590	979645.75	-17.21	0.15	1.03	-174.03
DV-76	39	9.38	118	19.05	4725	979639.88	-10.09	0.31	1.00	-171.42
DV-77	39	9.15	118	19.61	4900	979633.88	0.71	0.68	0.95	-166.30

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