200) R290 no.78-107 A.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY,

Principal facts for a gravity survey of the Double Hot Springs Known Geothermal Resource Area, Humboldt County, Nevada

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Open-file Report 78-525 107-A 1978

## PRINCIPAL FACTS FOR GRAVITY STATIONS

Explanation of the headings of the accompanying table of principal facts:

Sta. no. Gravity station number.

Latitude North latitude in degrees, minutes,

and hundredths of minutes.

Longitude West longitude in degrees, minutes,

and hundredths of minutes.

Elev, f Elevation in feet (to convert to

meters, multiply by 0.3048).

Observed gravity Observed gravity in milligals.

Standard gravity Theoretical gravity in milligals.

Fr.-air correction Free-air correction in milligals.

Bouguer correction Bouguer and curvature correction

in milligals.

Fr.-air anomaly Free-air anomaly in milligals.

Bouguer anomaly Bouguer anomaly in milligals.

During July 1977, forty-nine gravity stations were obtained in the Double Hot Springs Known Geothermal Resource Area and vicinity, northwestern Nevada. Elevations for twenty-two stations were estimated from lake bed topographic contours. Horizontal positions for these stations were determined from topographic maps and vehicle odometer. Elevations for stations DBLD34 and DBLD35 were determined with altimeters. Positions for the remaining stations were taken from spot elevations shown on U.S. Geological Survey topographic maps at scales of 1:24,000.

The gravity observations were made with a Worden gravimeter having a scale factor of about 0.5 milligal per division.  $\frac{1}{}$  A base station was occupied at the beginning of each day, at mid-day, and at the end of the day.

No terrain corrections have been applied to these data. The earth tide correction was not used in drift reduction. The Geodetic Reference System 1967 formula (International Association of Geodesy, 1967) was used to compute theoretical gravity. Observed gravity is referenced to a base station in Gerlach, Nevada, having a value based on the Potsdam System of 1930 (fig. 1). A density of 2.67 g per cm<sup>3</sup> was used in computing the Bouguer anomaly.

## Reference

International Association of Geodesy, 1967, Geodetic Reference System,
1967: International Association of Geodesy Spec. Pub. no. 3, 74 p.

 $<sup>\</sup>frac{1}{2}$  Use of brand names in this report is for descriptive purposes only, and in no way constitutes endorsement by the U.S. Geological Survey.

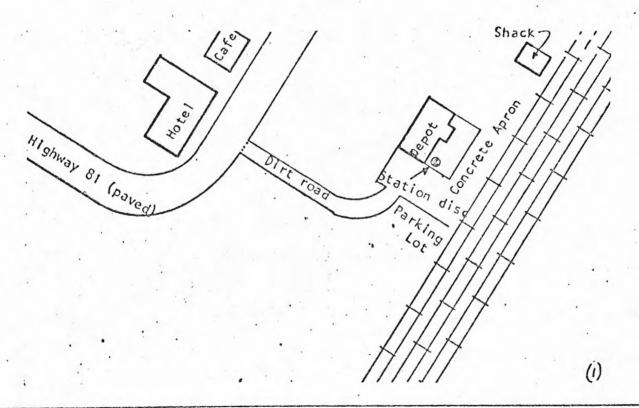
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DRLD14		200							-980262.08	373.58	-136.76	-2.77 -139.53
DBLD16										373.86	-136.86	-3.02 -140.48
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DBLD26         41         0.84         -119         1.02         3962.0         979893.34         -980259.55         3/2.54         -136.39         6.33         -130.06           DBLD27         41         0.50         -119         1.18         3939.0         979888.67         -980259.04         3/0.38         -135.60         0.01         -135.59           DBLD28         40         59.70         -119         0.79         3938.0         979891.82         -980257.84         370.29         -135.56         4.27         -131.29           DBLD29         40         59.71         -119         0.37         3964.0         979898.74         -980257.86         372.73         -136.45         13.61         -122.64           DBLD30         40         59.48         -118         59.19         4141.0         979885.04         -980257.52         389.37         -142.52         18.01         -123.91           DBLD31         40         59.40         -118         58.42         4164.0         979885.04         -980257.40         391.53         -143.31         19.17         -124.14           DBLD32         40         59.40         -119         0.75         3928.0         9798885.6         -980257.40								979892.80	-980260.65	372.17	-136.25	4.32 -131.93
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DBLD28				-119	1.18	3939.0		979888.67	-980259.04	370.38	-135.60	
DBLD30								979891.82	-980257.84	370.29	-135.56	4.27 -131.29
DBLD30 40 59.48 -118 59.19 4141.0 9/9886.76 -980257.52 389.37 -142.52 18.61 -123.91  DBLD31 40 59.40 -118 58.42 4164.0 979885.04 -980257.40 391.53 -143.31 19.17 -124.14  DBLD32 40 59.40 -119 0.75 3926.0 9/9890.29 -980257.40 369.35 -135.22 2.24 -132.98  DBLD33 41 3.21 -119 0.70 4078.0 979885.68 -980263.08 383.44 -140.36 8.94 -131.42  DBLD34 41 3.18 -119 1.02 4015.0 979893.58 -980263.04 377.52 -138.20 8.06 -130.14  DBLD35 41 0.40 -119 9.28 4108.0 9/9875.90 -980258.89 386.27 -141.39 3.26 -138.11  DBLD36 41 0.41 -119 8.89 4025.0 v 979880.76 -980258.89 378.46 -138.55 0.32 -138.23  DBLD37 41 0.34 -119 8.44 3968.0 979882.43 -980258.80 373.11 -136.59 -3.26 -139.85  DBLD38 41 0.42 -119 7.86 3930.0 9/9880.67 -980258.92 369.53 -135.29 -8.72 -144.01  DBLD39 41 0.50 -119 7.29 3914.0 979878.31 -980259.04 368.03 -134.74 -12.70 -147.44				-119	0.37	5964.0		979898.74	-980257.86	372.73	-136.45	13.61 -122.64
DBLD31				-		4141.0		979886.76	-980257.52	389.37	-142.52	18.61 -123.91
UBLD32 40 59.40 -119 0.75 3928.0 9/9890.29 -980257.40 369.35 -135.22 2.24 -132.98 UBLD33 41 3.21 -119 0.70 4078.0 979888.58 -980263.08 383.44 -140.36 8.94 -131.42 UBLD34 41 3.18 -119 1.02 4015.0 979893.58 -980263.04 377.52 -138.20 8.06 -130.14 UBLD35 41 0.40 -119 9.28 4108.0 9/9875.90 -980258.89 386.27 -141.39 3.26 -138.11 UBLD36 41 0.41 -119 8.89 4025.0 v 979880.76 -980258.89 386.27 -141.39 3.26 -138.21 UBLD37 41 0.34 -119 8.44 3968.0 979882.43 -980258.80 373.11 -136.59 3.26 -139.85 UBLD38 41 0.42 -119 7.86 3930.0 979880.67 -980258.92 369.53 -135.29 -8.72 -144.01 UBLD39 41 0.50 -119 7.29 3914.0 979878.31 -980259.04 368.03 -134.74 -12.70 -147.44 -12.70 -147.44	UNEUSU											
UBLD32       40 59.40 -119 0.75 3928.0       9/9890.29 -980257.40 369.35 -135.22       2.24 -132.98 369.10         UBLD33       41 3.21 -119 0.70 4078.0       979888.58 -980263.08 383.44 -140.36       8.94 -131.42 86.94 -131.42         UBLD34       41 3.18 -119 1.02 4015.0       979893.58 -980263.04 377.52 -138.20       8.06 -130.14 3.28 -130.14         UBLD35       41 0.40 -119 9.28 4108.0       9/9875.90 -980258.89 386.27 -141.39       3.26 -138.11         UBLD36       41 0.41 -119 8.89 4025.0       979880.76 -980258.90 378.46 -138.55       0.32 -138.23 -138.23         UBLD37       41 0.34 -119 8.44 3968.0       979882.43 -980258.80 373.11 -136.59       -3.26 -139.85 -139.85         UBLD38       41 0.42 -119 7.86 3930.0       9/9880.67 -980258.92 369.53 -135.29       -8.72 -144.01 -12.70 -147.44 -12.70 -147.44         UBLD39       41 0.50 -119 7.29 3914.0       979878.31 -980259.04 368.03 -134.74       -12.70 -147.44 -12.70 -147.44	DBLD31	40	59.40	-118	58.42	4164.0		979885.04	-980257.40	391.53	-143.31	
DBLD33 41 3.21 -119 0.70 4078.0 979888.58 -980263.08 383.44 -140.36 8.94 -131.42 8.06 -130.14 979893.58 41 0.40 -119 9.28 4108.0 979875.90 -980258.89 386.27 -141.39 3.26 -138.21 980253.04 979875.91 979882.43 -980258.80 373.11 -136.59 979882.43 -980258.80 373.11 -136.59 979882.43 -980258.90 369.53 -135.29 979880.67 -980258.92 369.53 -135.29 979878.31 -980259.04 368.03 -134.74 979878.31 -980259.04 368.03 -134.74 979878.44 -140.36 8.94 -131.42 8.94 -131.42 8.94 -131.42 8.94 -131.42 8.94 -131.42 8.94 -131.42 8.94 -131.42 8.94 -130.14 8.94 -140.36 8.94 -131.42 8.94 -131.42 8.94 -131.42 8.94 -130.14 8.94 -140.36 8.94 -131.42 8.94 -130.14 8.94 -140.36 8.94 -131.42 8.94 -131.42 8.94 -140.36 8.94 -131.42 8.94 -131.42 8.94 -140.36 8.94 -131.42 8.94 -131.42 8.94 -140.36 8.94 -131.42 8.94 -131.42 8.94 -140.36 8.94 -131.42 8.94 -140.36 8.94 -131.42 8.94 -140.36 8.94 -131.42 8.94 -140.36 8.94 -131.42 8.94 -140.36 8.94 8.94 8.94 8.94 8.94 8.94 8.94 8.94		40	59.40			3926.0		919890.29	-980257.40	369.35	-135.22	2.24 -132.98
DBLD35 41 0.40 -119 9.28 4108.0 979893.58 -980263.04 377.52 -138.20 8.06 -130.14 3.18 -119 1.02 4015.0 979875.90 -980258.89 386.27 -141.39 3.28 -138.11 DBLD36 41 0.41 -119 8.89 4025.0 v 979880.76 -980258.90 378.46 -138.55 0.32 -138.23 DBLD37 41 0.34 -119 8.44 3968.0 979882.43 -980258.80 373.11 -136.59 -3.26 -139.85 DBLD38 41 0.42 -119 7.86 3930.0 979880.67 -980258.92 369.53 -135.29 -8.72 -144.01 DBLD39 41 0.50 -119 7.29 3914.0 979878.31 -980259.04 368.03 -134.74 -12.70 -147.44				-119	0.70	4078.0		979888.58	-980263.08	303.44	-140.36	8.94 -131.42
DBLD35       41       0.40       -119       9.28       4108.0       9/9875.90       -980258.89       386.27       -141.39       3.26       -138.11         DBLD36       41       0.41       -119       8.89       4025.0       979880.76       -980258.90       378.46       -138.55       0.32       -138.23         DBLD37       41       0.34       -119       8.44       3968.0       979882.43       -980258.80       373.11       -136.59       -3.26       -139.85         DBLD38       41       0.42       -119       7.86       3930.0       9/9880.67       -980258.92       369.53       -135.29       -8.72       -144.01         DBLD39       41       0.50       -119       7.29       3914.0       979878.31       -980259.04       368.03       -134.74       -12.70       -147.44				-119	1.02	4015.0		979893.58	-980263.04	377.50	-138.20	8.06 -130.14
UBLD36 41 0.41 -119 8.89 4025.0 v 979880.76 -980258.90 378.46 -138.55 0.32 -138.23 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0						4108.0		9/9875.90	-980258.89	386.21	-141.39	3.28 -138.11
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DBLD38 41 0.42 -119 7.86 3930.0 9/9880.67 -980258.92 369.53 -135.29 -8.72 -144.01 UBLD39 41 0.50 -119 7.29 3914.0 979878.31 -980259.04 368.03 -134.74 -12.70 -147.44	DBLD36	41	0.41	-119	8.89	4025.0	. v					
DBLD38 41 0.42 -119 7.86 3930.0 9/9880.67 -980258.92 369.53 -135.29 -8.72 -144.01 0.60 -119 7.29 3914.0 979878.31 -980259.04 368.03 -134.74 -12.70 -147.44	UBLD37	41	0.34	-119	8.44							
0.2037	DbLD38	41	0.42	-119	7.86	3930.0						
UBLD40 41 0.58 -119 6./1 3908.0 979876.20 -980259.16 367.47 -134.53 -15.49 -150.02	UBLD39	41	0.50	-119	7.29	3914.0						
	DBLD40	4.1	0.58	-119	6./1	3908.0		979876.20	-980259.16	367.47	-134.53	-15.49 -150.02

sta. no.	latitude longitude				elev,f	observed gravity	standard gravity	corrections frair bouguer	anomalies frair bouguer
DBLD41 DBLD42 DBLD43 DBLD44	41		-119 -119 -119 -119	6.14 5.58 5.00 4.40	3907.0 3905.0 3906.0 3907.0	979874.48 979872./1 979871.53 979870.60	-980259.28 -980259.37 -980259.49 -980259.61	367.37 -134.50 367.18 -134.43 367.28 -134.46 367.37 -134.50	-17.43 -151.93 -19.48 -153.91 -20.68 -155.14 -21.64 -156.14
08L045 08L046 08L047 08L048 08L049	41 41	0.97 1.03 1.11 1.19 1.27	-119 -119 -119 -119 -119	3.82 3.25 2.68 2.09 1.50	3908.0 3911.0 3915.0 3932.0 3950.0	979871.48 979873.25 979875.95 979879.61 979885.36	-980259.74 -980259.83 -980259.95 -980260.07 -980260.19	367.47 -134.53 367.75 -134.64 368.12 -134.77 369.72 -135.36 371.41 -135.97	-20.79 -155.32 -18.83 -153.47 -15.88 -150.65 -10.74 -146.10 -3.42 -139.39

		GRAVITY BAS					
LATITUDE	40° 39.1' N	(1)	STATION DESIGNATION				
LONGITUDE	119° 21.2' W	(1)	GERLACH				
ELEVATION	1199	METERS (1)	USA/Nevada				
	REFERENCE CODE NUMBER	RS	ADOPTED GRAVITY VALUE				
ACIC 23			g= 979 829.16	mgals			
			ESTIMATED ACCURACY	DATE			
			+ 0.1 mgals	MONTH/YEAR Jan/1969			

DESCRIPTION AND/OR SKETCH

Station is in Gerlach, on the east side of town, at the Western Pacific Railroad depot, which is 50 yds, southeast of Nevada Highway 81, and across the street from a cafe and a hotel. Station is outside the depot building, on the east side of it, (i.e. facing the tracks), and at the southeast corner of it, 0.5 ft. from the wall, on the concrete apron. Site is monumented with a standard "USAF Gravity Station" disc. (1)



REFERENCE SOURCE

(1) Personal Communication 1st GSS (23 Jan 69)

