Gravity Survey of the Colville Indian Reservation, Northeastern Washington

by

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U.S. Geological Survey

Open File Report 86-326

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Introduction

This report presents part of the work undertaken by the U.S. Geological Survey (USGS) in behalf of the U.S. Bureau of Indian Affairs evaluation program of mineral resource potential on Indian lands. During the summer field seasons of 1979-1981, 1,136 gravity stations were established in the area of the Colville Indian Reservation, Washington. This report presents the principal facts for these data and includes a complete Bouguer gravity anomaly map (plate 1). These data complement an earlier gravity survey which extended over the area of the Colville Indian Reservation (Cady and Mayer, 1976).

Data Collection

Gravity observations were made using five gravity meters. Three of the meters were LaCoste Romberg[1] gravity meters G-24, G-113 and G-328. The other two meters were Worden[1] gravity meters W-90 and W-147. The gravity stations were referenced to the U.S. Department of Defense (DOD) base at Grand Coulee Dam, Washington, which is part of the International Gravity Standardization Net (IGSN) of 1971, established by the Defense Mapping Agency, Aerospace Center (Morelli, 1974. The International Gravity Standardization Net (IGSN-71) value of 980710.73 mgals was used for the base at Grand Coulee Dam for gravity data compiled and presented in this report. Secondary bases established in the study area were tied to the DOD base in Grand Coulee Dam and are described in Appendix A. Gravity loops were started and closed daily by making repeat observations at one or more of the primary or secondary bases.

Elevation Control

The survey area is bounded by lat. $47^{o}45$ to $48^{o}30'$ N. and long. $118^{o}7'30"$ to $119^{o}45'$ W., and is located on the Okanogan and Ritzville $1^{o} \times 2^{o}$ quadrangles Fig. 1. The station elevations were obtained from benchmarks, spot elevations, or section corners on 1:62,500-scale USGS topographic maps and on preliminary 1:24,000-scale USGS topographic maps. The uncertainty for elevations based on benchmarks is assumed to be 0.15 m; for spot elevations and section corners with map elevations, the uncertainty is assumed to be one-third of the contour interval. At a contour interval of 40 ft (12.2 m) this is an uncertainty of about 13.3 ft (4 m), which translated to possible Bouguer value errors of 0.2 mgal/m using a density of 2.67 g/cm^3..

Data Reduction

Computer programs existing on the USGS Honeywell[1] Multics computer system were used to obtain principal facts, terrain-corrected gravity values, and anomaly contour maps for this survey. Station coordinates were determined using program "digit" (R. Sweeney, unpub. documentation, 1976). Program "gravity-red" (D. A. Dansereau and R. R. Wahl, unpub. documentation, 1968) calculated earth tide and corrected for linear meter-drift to give observed gravity values using the 1967 geodetic reference system (IUGG, 1967) and the 1971 Potsdam gravity value (Morelli, 1971). The program also computed free-

[1]The use of trade names in this report is for descriptive purposes only and does not necessarily constitute endorsement by the U.S. Geological Survey.

air and simple-Bouguer anomaly values. Program "bouguer" (R. H. Godson, unpub. documentation, 1978) computed terrain corrections radially from the observed stations out to 166.7 km using the method of (Plouff, 1977). The program uses mean elevation data digitized on a 15-second grid for corrections from 0 to 5 km, 1-minute terrain data for corrections from 5 to 21 km, and 3-minute terrain data for corrections from 5 to 166.7 km. An assumed density of 2.67 gm/cm^3 was used for terrain corrections. Program "bouguer" also calculated earth curvature corrections and complete (terrain corrected) Bouguer anomaly values. For brevity, we refer to "Bouguer anomaly" instead of "complete-Bouguer anomaly".

A grid based on the Bouguer anomaly values was formed with 2 km spacing between grid points using program "MINC" (Webring, 1981). "MINC" forms a surface of minimum curvature (Briggs, 1974) through existing data points. Computer plotted contour maps of the gridded data were produced using program "CONTOUR" (Godson and Webring, 1982), which uses a linear interpolation technique for positioning contours.

Principal Facts

The principal facts of the data within the present survey area are listed in Appendix B. The data are shown as a contoured Bouguer gravity anomaly map in plate 1.

References

Briggs, I. C., 1974, Machine contouring using minimum curvature: Geophysics, v. 39, no. 1, p. 39-48.

Cady, J. W., and Mayer, R. F., 1976, Principal facts for gravity stations in the Okanogan, Sandpoint, Ritzville, and Spokane 1^o x 2^o quadrangles, northern Washington and northern Idaho: U.S. Geological Survey Open-File Report 76-290.

Defense Mapping Agency Aerospace Center, 1974, World Relative Gravity Reference Network, North American, Part 2: DMAAC Reference Publication 25, with supplement updated gravity values to the International Gravity Standardization Net 1971, 1635 p.

Godson, R. H., and Webring, M. W., 1982, CONTOUR: U.S. Geological Survey Open-File Report 82-797.

International Association of Geodesy, 1971, Geodetic Reference System, 1967: International Association of Geodesy Special Publication 3, 116 p.

Morelli, Carlo, ed., 1974, The International Gravity Standardization Net 1971 (IGSN. 71): International Association of Geodesy Special Publication No. 4, 116 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.

Webring, M. W., 1981, MINC: A gridding program based on minimum curvature:

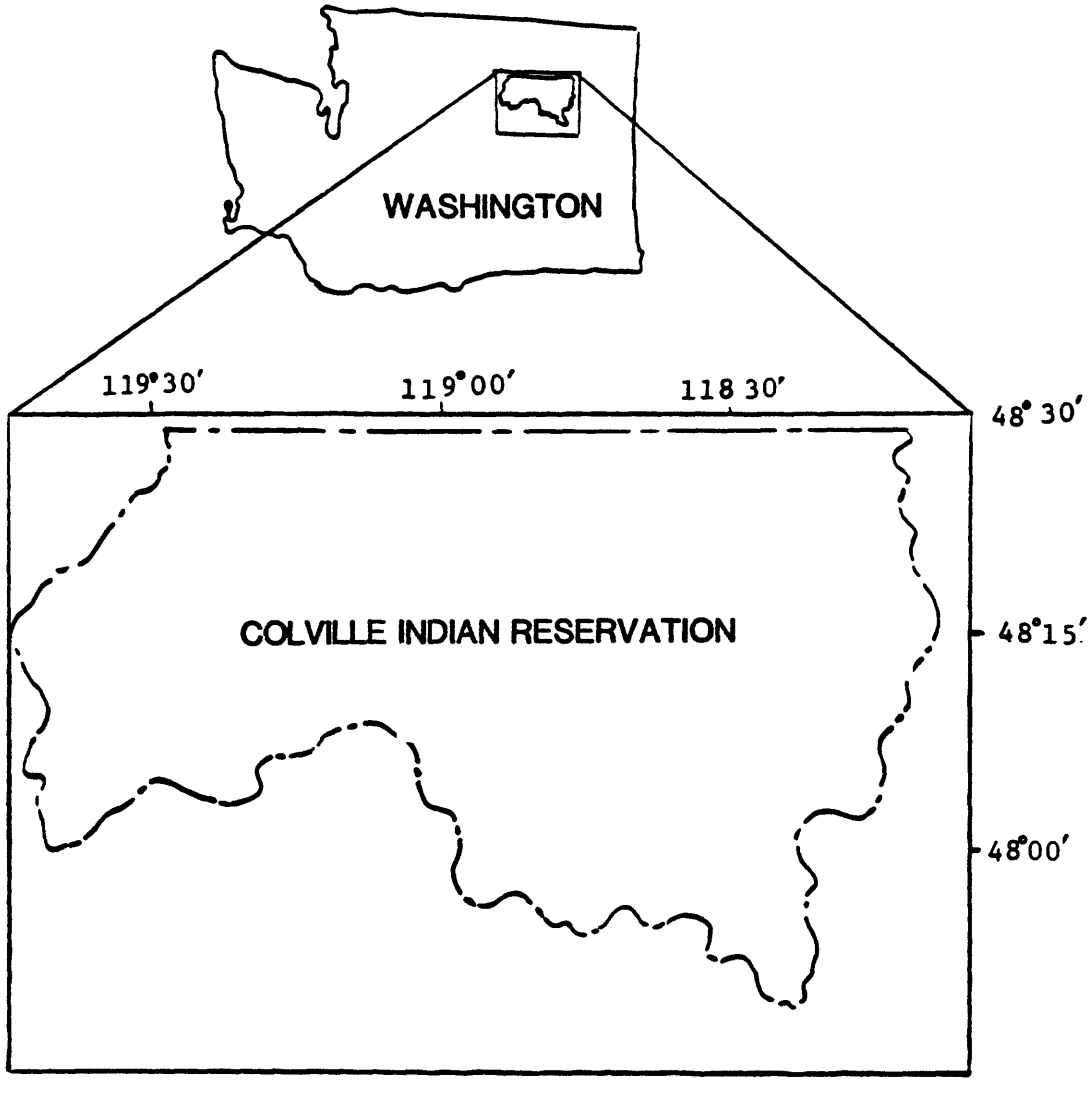


Figure 1 Index map showing the location of the Colville Indian Reservation, Washington State.

Appendix A

Gravity base station descriptions.

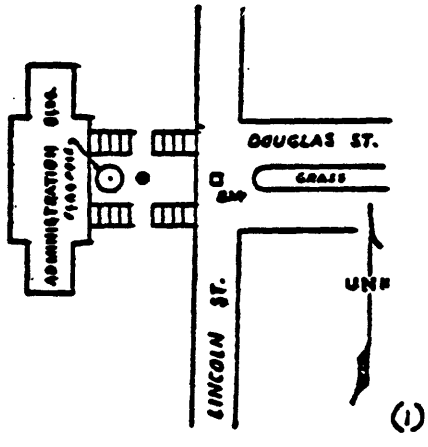
LATITUDE	STATION DESIGNATION
47° 58.5'N (1)	GRAND COULEE
LONGITUDE	
119° 02.0'W (1)	
ELEVATION	**COUNTRY/STATE**
342.1 METERS (1)	USA/Washington

REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 2102-1		g= 980710.73 mgals	
		ESTIMATED ACCURACY	DATE /YEAR
		± 0.1 mgals	1971

DESCRIPTION AND/OR SKETCH

The station is at Grand Coulee dam, in front of the Administration Building, directly in front of the flagpole on the street side.

A USBR bronze disk is located under a cast iron cover centered in the intersection of Lincoln and Douglas Streets, in front of the Administration Building. (1)



(1)

REFERENCE SOURCE

(1) 02615

U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
Washington	MTB (DH #10)	980608.03 mgal
NEAREST TOWN Keller	LONGITUDE 118° 42.05'	LATITUDE 48°3.07'
ELEVATION 912.27 m 2993'	TOPOGRAPHIC MAP(S) Keller scale 1:24,000	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
		G-24	Base 01	980710.73 mgal
		G-24	Base 02	980685.34 mgal

DESCRIPTION/SKETCH

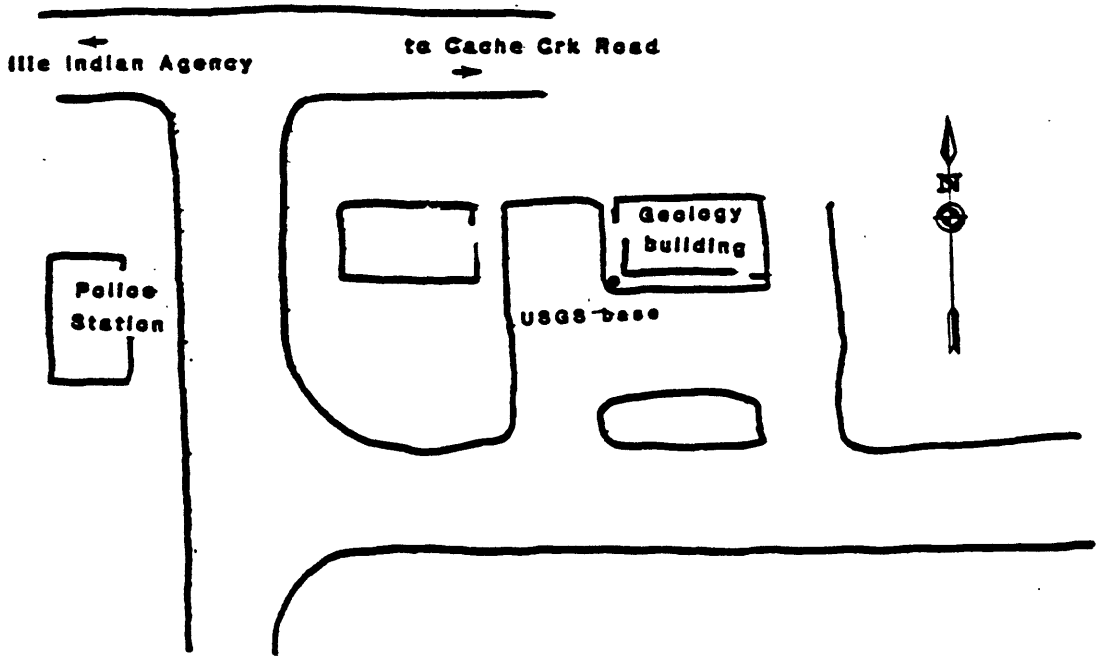
MTB, is located at drill hole #10 on Mount Tolman. Marked by a steel cap on drill hole casing stamped "dh 10" For more information on the location of this drill hole it will be necessary to inquire at the Mt. Tollman Geologist office at the base of Mt. Tollman. Permission for access to the property may also be required here.

GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
WASHINGTON	Base 02	980685.34 mgal
NEAREST TOWN	LONGITUDE	LATITUDE
Nespelem	118° 58.09'	48° 08.01'
ELEVATION	TOPOGRAPHIC MAP(S)	
543.15 m (1782')	Nespelem scale 1:24,000	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
		G-328	Grand Coulee (Base 01)	980710.73 mgal
		G-24	Grand Coulee (Base 01)	980710.73 mgal

DESCRIPTION/SKETCH The station is located in T30N,R31E,Sec6 at the SW corner of the Colville geology building on the corner of the sidewalk. (unmarked)

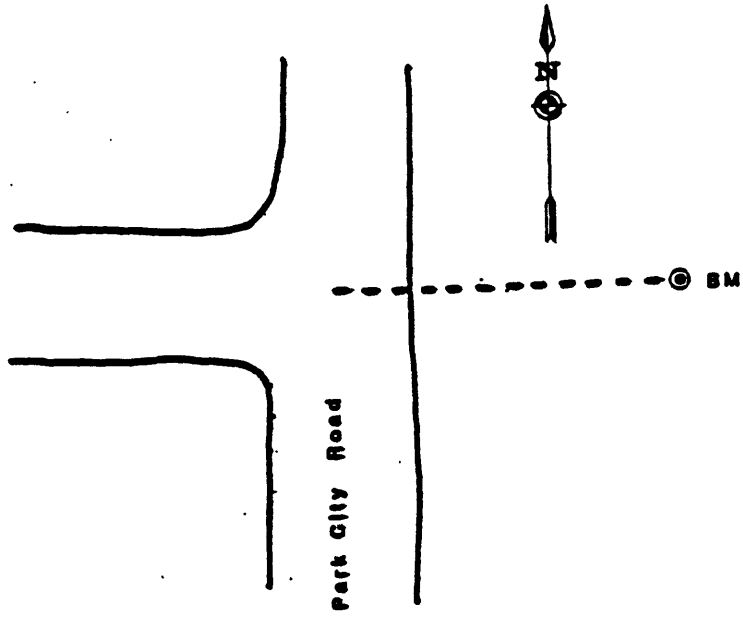


GRAVITY BASE STATION

TATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
WASHINGTON	Base 03	980680.44 mgal
EAREST TOWN	LONGITUDE	LATITUDE
Nespelem	118° 58.19'	48° 14.47'
LEVATION	TOPOGRAPHIC MAP(S)	
(1919.227 ft) 584.95 m	Nespelem scale 1:24,000	

;TE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
		G-24	Base 02	980685.34 mgal

ESCRIPTION/SKETCH Station is located in T32N,R31E,Sec30 SW 1/4
It is located 51 ft east of the center of Park City Road junction with a road heading off to the west marked by a Benchmark located in a concrete post (83 H 1945 1920).



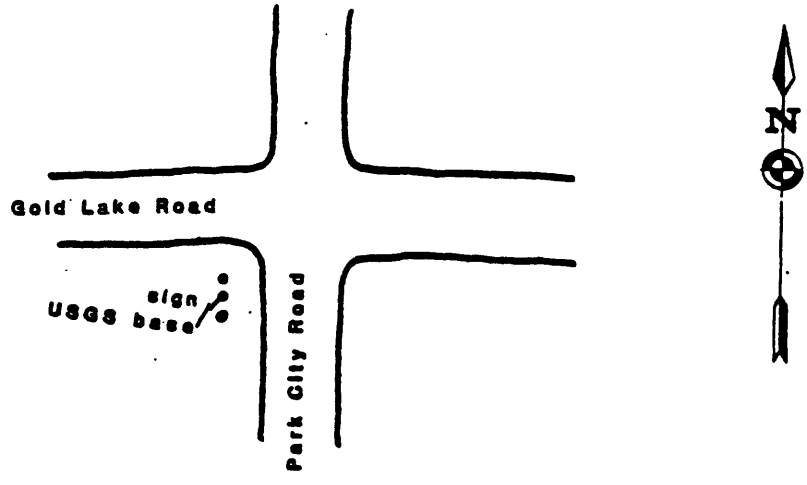
U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
WASHINGTON	Base 05	980619.37 mgal
NEAREST TOWN	LONGITUDE	LATITUDE
Nespelem	118° 53.20'	48° 22.22'
ELEVATION	TOPOGRAPHIC MAP(S)	
(3130') 954.07 m	Bald Knob scale 1:24,000	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
		G-24	Base 01	980710.73 mgal
		W-90	Base 02	980685.34 mgal

DESCRIPTION/SKETCH

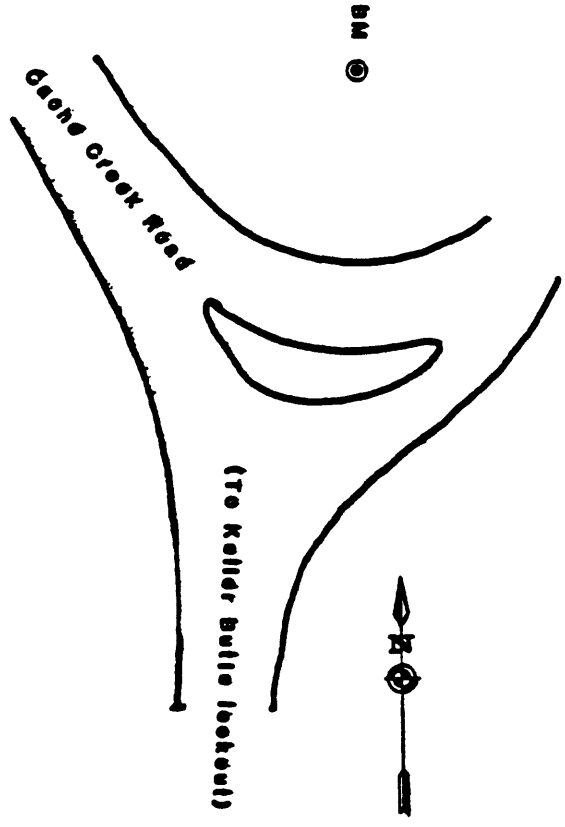
Station is located beneath the center of a double pole sign at the junction of Gold Lake Road and Park City Road.



STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
WASHINGTON	Base 07	980597.79 mgal
NEAREST TOWN	LONGITUDE	LATITUDE
Nespelem	118° 47.00'	48° 11.41'
ELEVATION	TOPOGRAPHIC MAP(S)	
(4360') 1024.13 m	Nespelem scale 1:24,000	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
		G-24	Base 02	980685.34 mgal
		G-24	Base 02	980685.34 mgal

DESCRIPTION/SKETCH Benchmark "G30-1933" located along abandoned road north of the junction of Cache Creek Road and the road to Keller Butte lookout.

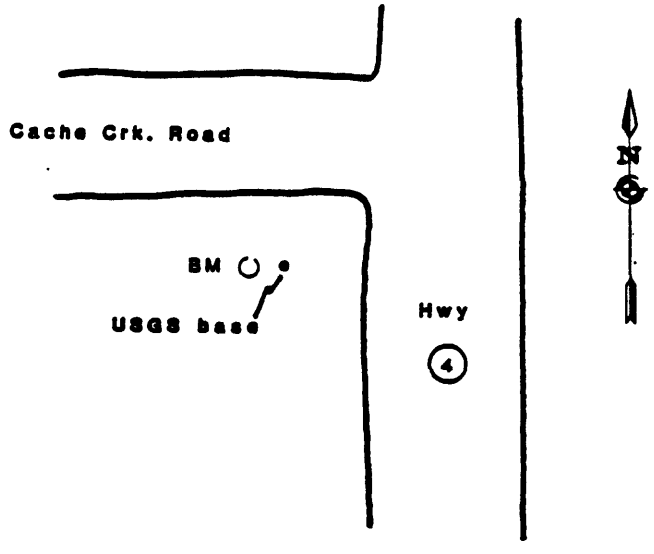


U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
WASHINGTON	BASE 09	980700.18 mgal
NEAREST TOWN	**LONGITUDE**	**LATITUDE**
Keller	118° 42.40'	48° 10.36'
ELEVATION	**TOPOGRAPHIC MAP(S)**	
(1609 ft) 490.42 m	Keller scale 1:24,000	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE

DESCRIPTION/SKETCH Station is at a destroyed Benchmark located at junction of Cache Creek Rd and State Highway 4; in NW 1/4 sec 19 T31N R33E (station 6 ft E of broken BM).



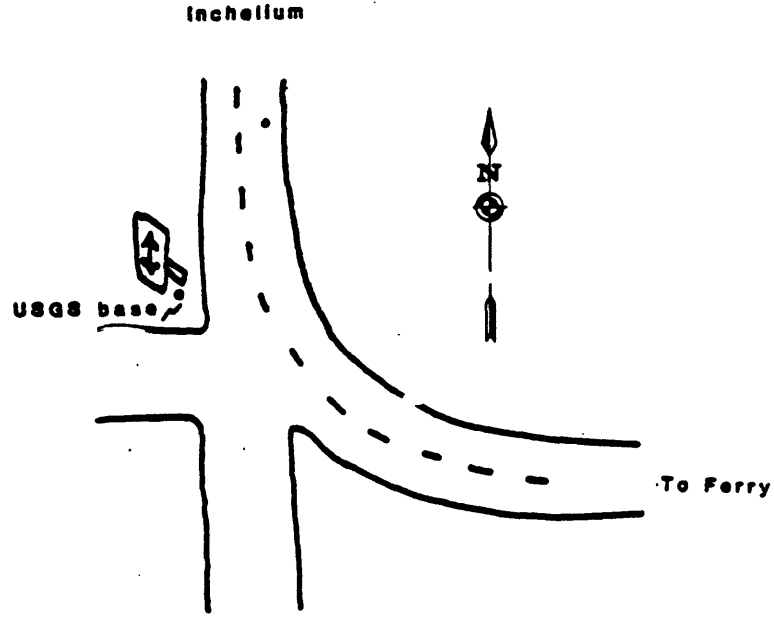
U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
WASHINGTON	BASE 17	980726.51 mgal
NEAREST TOWN	LONGITUDE	LATITUDE
Inchelium	118° 11.23'	48° 17.42'
ELEVATION	TOPOGRAPHIC MAP(S)	
477.01 m (1565 ft)	Inchelium scale 1:24,000	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
		G-328	BASE 02	980685.34 mgal

DESCRIPTION/SKETCH

Station is at base of double arrow sign (South side).



U.S. GEOLOGICAL SURVEY

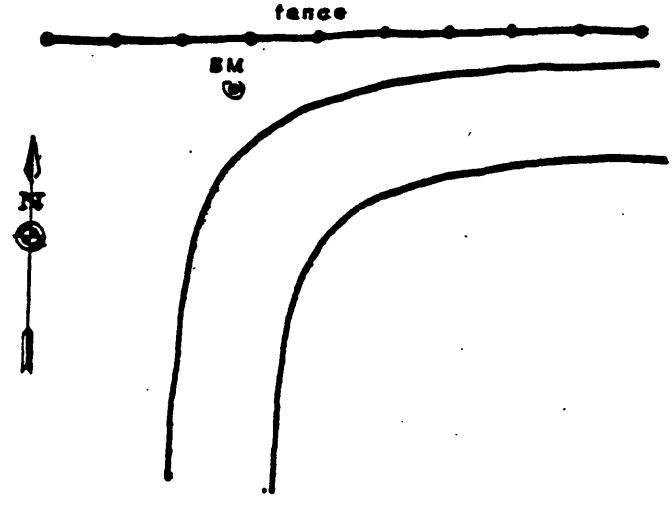
GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
WASHINGTON	BASE 20	980722.90 mgal
NEAREST TOWN	**LONGITUDE**	**LATITUDE**
Nespelem	119°13.62'	48° 07.71'
ELEVATION	**TOPOGRAPHIC MAP(S)**	
398.68 m (1308 ft)	Alameda Flat scale 1:24,000	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
7-13-80		G-328	BASE 02	980685.34 mgal
7-25-79		W-147	BASE 02	980685.34 mgal
9-8-79		W-147	BASE 01	980710.73 mgal

DESCRIPTION/SKETCH

Station located at Benchmark between fence and road where road takes a sharp bend. NW 1/4 Sec 6 T30N,R29E
Benchmark "P29 1933"



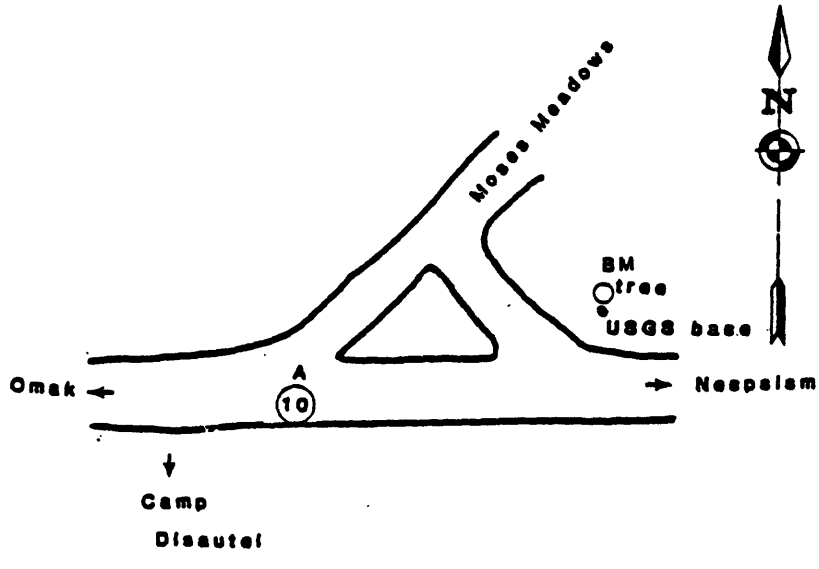
U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
WASHINGTON	BASE 21	980671.63 mgal
NEAREST TOWN	**LONGITUDE**	**LATITUDE**
Camp Disautel	119°13.09'	48°21.71'
ELEVATION	**TOPOGRAPHIC MAP(S)**	
776.33 m (2547 ft)	Disautel scale 1:24,000	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
		G-328	BASE 02	980685.34 mgal

DESCRIPTION/SKETCH

Station located at base of preliminary Bench tree "H66 47" SW side.

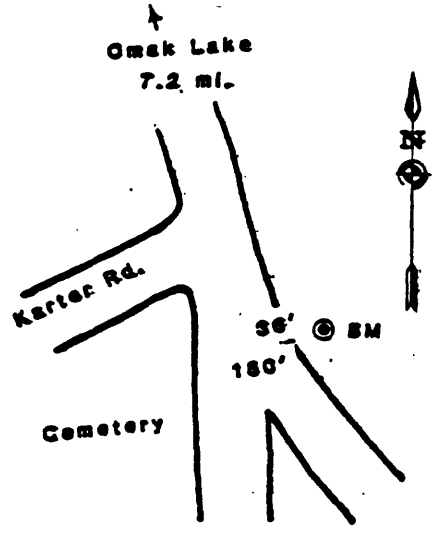


GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
WASHINGTON	BASE 24	980729.85 mgal
NEAREST TOWN	**LONGITUDE**	**LATITUDE**
Omak	119° 16.04'	48° 13.23'
ELEVATION	**TOPOGRAPHIC MAP(S)**	
399.90 m (1312 ft)	Boot Mtn scale 1:24,000	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
		G-328	BASE 02	980685.34 mgal

DESCRIPTION/SKETCH Benchmark "86H 1947 1311" located just south of junction of Karter Rd and road to Lake Omak. 36 ft W of center of road, 150 ft W cemetery



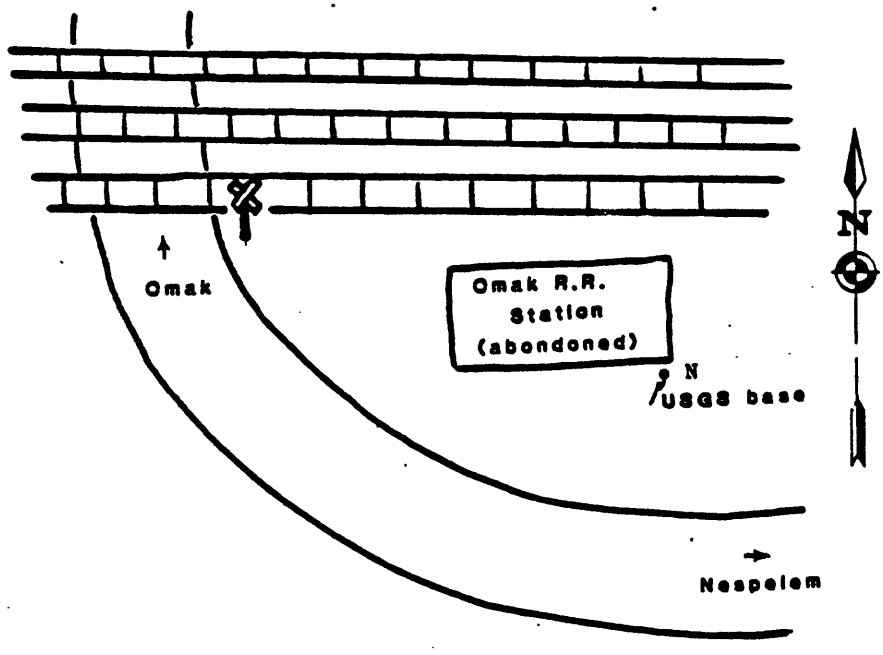
GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
WASHINGTON	BASE 26	980770.22 mgal
NEAREST TOWN Omak	LONGITUDE 119° 30.69'	LATITUDE 48°24.24'
ELEVATION 262.43 m (861 ft)	TOPOGRAPHIC MAP(S) Okanogan scale 1:24,000	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
		G-328	BASE 02	980685.34 mgal

DESCRIPTION/SKETCH

Station is located at SE corner of abandoned Omak RR station.



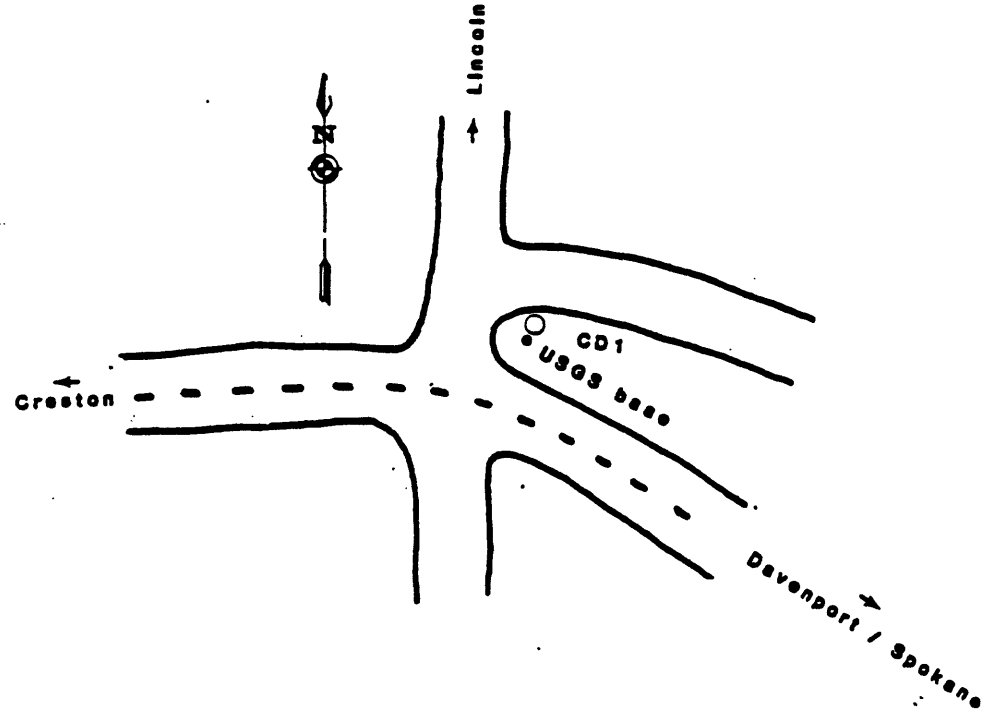
GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
WASHINGTON	BASE 28	980634.48 mgal
NEAREST TOWN CRESTON	LONGITUDE 118° 30.24'	LATITUDE 47°45.52'
ELEVATION 745.24 m (2445 ft)	TOPOGRAPHIC MAP(S) Wilbur scale 1:24,000	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
		G-328	BASE 02	980685.34 mgal

DESCRIPTION/SKETCH

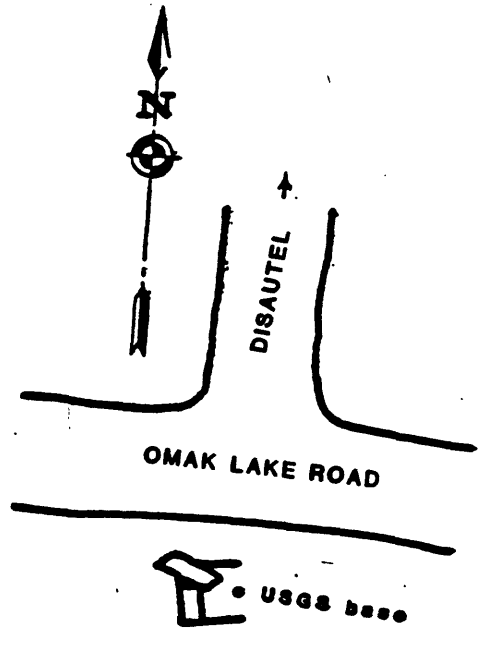
Station is at base of large telephone pole (CD1): SW side.



SATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
WASHINGTON	Base 35	980651.90 mgal
NEAREST TOWN	**LONGITUDE**	**LATITUDE**
Omak	119°17.66'	48°16.19'
ELEVATION	**TOPOGRAPHIC MAP(S)**	
(2773 ft) 845.21 m	Omak Lake scale 1:24,000	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
		G-328	Base 02/01	980685.34 mgal
		W-147	Base 24	980729.85 mgal
		W-147	Base 24	980729.85 mgal

DESCRIPTION/SKETCH Station is located beneath a double pole sign located at the junction of Omak Lake Road and a road to Disautel.



Appendix B

Bouguer gravity data.

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 166.7km 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.

colville gravity
stations-lat/lon
Meter ID: obsgrv Date: 10/20/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELD
:	base02	48	8.01	-118	58.09	1782.0	wa	980685.34	980902.16	1.21	-60.78	-0.69	0.00	-49.27	-109.53	-105.69	
:	base11	48	23.55	-118	44.60	1920.0	wa	980691.04	980925.47	6.35	-65.49	-0.74	0.00	-53.90	-113.77	-109.96	
:	base15	48	13.91	-118	35.80	2760.0	wa	980640.65	980911.02	3.31	-94.14	-0.98	0.00	-10.87	-102.68	-96.83	
:	base13	48	16.88	-118	25.22	2641.0	wa	980650.17	980915.47	2.73	-90.08	-0.95	0.00	-16.99	-105.28	-99.66	
:	base14	48	24.81	-118	22.53	2289.0	wa	980681.23	980927.35	11.11	-78.07	-0.85	0.00	-30.90	-98.71	-94.39	
:	base17	48	17.42	-118	11.23	1565.0	wa	980726.51	980916.28	1.16	-53.38	-0.62	0.00	-42.62	-95.45	-92.09	
:	base29	48	0.79	-118	17.71	2111.0	wa	980668.40	980891.33	0.58	-72.00	-0.80	0.00	-24.45	-96.66	-92.06	
:	base28	47	45.52	-118	30.24	2445.0	wa	980634.48	980868.41	0.32	-83.39	-0.89	0.00	-4.03	-88.00	-82.65	
:	base27	47	45.53	-118	30.24	2327.0	wa	980639.06	980868.41	1.25	-79.37	-0.86	0.00	-10.56	-89.54	-84.51	
:	base01	47	57.80	-118	59.27	1122.0	wa	980710.73	980886.84	4.50	-38.27	-0.46	0.00	-70.60	-104.83	-102.65	
:	base20	48	7.71	-119	13.62	1308.0	wa	980722.90	980901.71	1.77	-44.61	-0.53	0.00	-55.82	-99.19	-96.43	
:	base33	48	10.49	-119	18.63	2073.0	wa	980683.95	980905.88	2.29	-70.70	-0.78	0.00	-27.02	-96.22	-91.81	
:	base24	48	13.23	-119	16.04	1312.0	wa	980729.85	980909.99	2.58	-44.75	-0.53	0.00	-56.77	-99.47	-96.75	
:	base35	48	16.19	-119	17.66	2773.0	wa	980651.90	980914.43	2.05	-94.58	-0.98	0.00	-1.82	-95.33	-89.38	
:	base25	48	9.72	-119	29.32	2418.0	wa	980667.04	980904.73	0.56	-82.47	-0.89	0.00	-10.34	-93.14	-87.87	
:	base26	48	24.24	-119	30.69	861.0	wa	980770.22	980926.50	1.94	-?.37	-0.36	0.00	-75.32	-103.11	-101.34	
:	base36	48	21.45	-119	29.24	1412.0	wa	980739.01	980922.32	2.85	-48.16	-0.56	0.00	-50.54	-96.42	-93.49	
:	base21	48	21.71	-119	13.09	2547.0	wa	980671.63	980922.71	1.79	-86.87	-0.92	0.00	-11.60	-97.61	-92.13	
:	base22	48	21.70	-119	13.10	2543.0	wa	980671.89	980922.70	1.80	-86.73	-0.92	0.00	-11.71	-97.56	-92.10	
:	base23	48	25.34	-119	7.94	3685.0	wa	980607.80	980928.15	1.76	-125.68	-1.20	0.00	26.09	-99.04	-91.07	
:	a001	47	57.84	-119	0.15	1822.0	wa	980670.63	980886.91	1.93	-62.14	-0.70	0.00	-44.95	-105.87	-101.99	
:	a002	47	58.46	-119	0.88	2026.0	wa	980660.46	980887.64	2.62	-69.10	-0.77	0.00	-36.88	-104.13	-99.85	
:	a003	47	58.67	-119	3.61	2419.0	wa	980641.06	980888.15	0.40	-82.50	-0.89	0.00	-19.64	-102.64	-97.35	
:	a004	47	58.57	-119	4.87	2363.0	wa	980644.01	980888.00	0.30	-80.59	-0.87	0.00	-21.81	-102.98	-97.81	
:	a005	47	59.45	-119	4.95	2412.0	wa	980641.79	980889.32	0.25	-82.27	-0.89	0.00	-20.75	-103.65	-98.37	
:	a006	47	59.89	-119	5.59	2434.0	wa	980642.40	980889.98	0.38	-83.02	-0.89	0.00	-18.73	-102.26	-96.94	
:	a007	48	0.54	-119	5.84	2501.0	wa	980640.32	980890.95	0.28	-85.30	-0.91	0.00	-15.49	-101.42	-95.95	
:	a008	48	1.63	-119	6.18	2457.0	wa	980645.46	980892.59	0.27	-83.80	-0.90	0.00	-16.12	-100.55	-95.17	
:	a009	48	3.80	-119	6.24	2612.0	wa	980637.88	980895.85	0.60	-89.09	-0.94	0.00	-12.38	-101.31	-96.12	
:	a010	48	4.29	-119	6.22	2485.0	wa	980645.91	980896.59	0.59	-84.76	-0.91	0.00	-17.02	-102.10	-96.68	
:	a011	48	4.68	-119	6.21	2479.0	wa	980646.23	980897.17	0.70	-84.55	-0.90	0.00	-17.85	-102.61	-97.21	
:	a012	48	4.67	-119	7.17	2322.0	wa	980656.84	980897.16	0.65	-79.20	-0.86	0.00	-21.99	-101.39	-96.34	
:	a013	48	6.39	-119	7.86	1603.0	wa	980700.29	980899.73	2.38	-54.67	-0.63	0.00	-48.72	-101.64	-98.27	
:	a014	48	3.80	-119	7.18	2572.0	wa	980641.11	980895.85	0.55	-87.72	-0.93	0.00	-12.91	-101.02	-95.41	
:	a015	48	3.80	-119	8.79	2539.0	wa	980645.06	980895.85	0.63	-86.60	-0.92	0.00	-12.06	-98.95	-93.42	
:	a016	48	5.05	-119	9.44	2319.0	wa	980660.45	980897.73	0.79	-79.09	-0.86	0.00	-19.23	-98.39	-93.35	

colville gravity
stations-lat/lon
Meter ID: obsgrv Date: 10/20/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELD
:	a017	48	6.63	-119	10.20	1366.0	wa	980717.67	980900.09	1.42	-46.59	-0.55	0.00	-53.98	-99.70	-96.78	
:	a018	48	3.80	-119	9.44	2524.0	wa	980645.61	980895.85	0.65	-86.09	-0.92	0.00	-12.93	-99.28	-93.78	
:	a019	48	0.69	-119	12.71	2510.0	wa	980642.99	980891.18	0.25	-85.61	-0.91	0.00	-12.19	-98.46	-92.97	
:	a020	48	1.18	-119	12.67	2560.0	wa	980640.37	980891.91	0.31	-87.31	-0.93	0.00	-10.85	-98.78	-93.19	
:	a021	48	2.04	-119	12.70	2544.0	wa	980642.29	980893.20	0.43	-86.77	-0.92	0.00	-11.73	-98.99	-93.43	
:	a022	48	2.94	-119	13.03	2539.0	wa	980644.15	980894.55	0.70	-86.60	-0.92	0.00	-11.69	-98.51	-92.98	
:	a023	47	59.89	-118	55.75	2499.0	wa	980641.32	980889.98	4.00	-85.23	-0.91	0.00	-13.70	-95.84	-90.61	
:	a024	47	59.63	-119	12.70	2543.0	wa	980638.42	980889.59	0.24	-86.73	-0.92	0.00	-12.07	-99.49	-93.92	
:	a025	47	59.02	-119	12.70	2566.0	wa	980635.00	980888.67	0.25	-87.52	-0.93	0.00	-12.41	-100.61	-95.00	
:	a026	47	58.33	-119	11.75	2565.0	wa	980633.04	980887.64	0.32	-87.48	-0.93	0.00	-13.43	-101.53	-95.92	
:	a027	47	58.57	-119	10.48	2404.0	wa	980643.76	980888.00	0.18	-81.99	-0.88	0.00	-18.21	-100.91	-95.64	
:	a028	47	58.52	-119	9.47	2395.0	wa	980644.29	980887.92	0.14	-81.69	-0.88	0.00	-18.45	-100.87	-95.63	
:	a029	47	58.54	-119	7.96	2362.0	wa	980645.46	980887.95	0.20	-80.56	-0.87	0.00	-20.41	-101.64	-96.47	
:	a030	47	58.41	-119	6.71	2369.0	wa	980643.54	980887.76	0.26	-80.80	-0.87	0.00	-21.48	-102.89	-97.71	
:	base09	48	10.36	-118	42.40	1609.0	wa	980700.18	980905.69	4.43	-54.88	-0.63	0.00	-54.22	-105.30	-102.05	
:	base07	48	11.41	-118	47.00	3360.0	wa	980597.79	980907.27	1.70	-. 4.60	-1.13	0.00	6.42	-107.61	-100.35	
:	ne25	48	9.94	-118	47.21	3858.0	wa	980564.16	980905.06	5.76	-131.59	-1.23	0.00	21.81	-105.25	-97.16	
:	ne31	48	3.68	-118	47.67	4020.0	wa	980550.17	980895.67	13.12	-137.11	-1.26	0.00	32.43	-92.82	-84.85	
:	ne27	48	7.54	-118	47.94	4110.0	wa	980543.73	980901.46	6.56	-140.18	-1.28	0.00	28.66	-106.24	-97.65	
:	base03	48	14.47	-118	58.19	1920.0	wa	980680.44	980911.85	2.56	-65.49	-0.74	0.00	-50.89	-114.55	-110.49	
:	ne09	48	11.48	-118	59.25	1857.0	wa	980684.47	980907.37	1.49	-63.34	-0.72	0.00	-48.29	-110.86	-106.81	
:	a032	47	59.02	-118	56.00	2646.0	wa	980619.78	980888.67	4.92	-90.25	-0.95	0.00	-20.11	-106.39	-100.90	
:	a034	48	2.96	-118	55.54	2013.0	wa	980629.58	980894.59	5.73	-68.66	-0.77	0.00	-75.74	-139.43	-135.37	
:	a035	48	4.19	-118	56.96	2778.0	wa	980618.98	980896.43	4.97	-94.75	-0.99	0.00	-16.26	-107.03	-101.25	
:	a036	48	5.03	-118	58.31	2492.0	wa	980634.94	980897.70	5.47	-84.99	-0.91	0.00	-28.45	-108.89	-103.76	
:	a037	48	6.72	-118	57.95	2497.0	wa	980638.94	980900.23	3.40	-85.17	-0.91	0.00	-26.52	-109.19	-103.93	
:	a038	48	6.60	-118	55.73	2482.0	wa	980641.66	980900.05	2.16	-84.65	-0.91	0.00	-25.02	-108.42	-103.11	
:	a039	48	6.94	-118	54.78	2472.0	wa	980640.80	980900.56	2.47	-84.31	-0.90	0.00	-27.34	-110.08	-104.81	
:	a040	48	5.97	-118	54.17	2843.0	wa	980614.97	980899.10	3.58	-96.97	-1.00	0.00	-16.84	-111.23	-105.22	
:	a041	48	4.96	-118	54.93	2957.0	wa	980608.97	980897.59	3.24	-100.85	-1.03	0.00	-10.61	-109.25	-102.97	
:	a042	48	5.23	-118	52.84	3287.0	wa	980587.61	980897.99	6.02	-112.11	-1.11	0.00	-1.35	-106.55	-101.73	
:	a043	48	5.08	-118	51.74	3232.0	wa	980593.36	980897.77	4.46	-110.23	-1.10	0.00	-0.55	-107.42	-100.62	

colville grevity
stations-lat/lon
Meter ID: obsgrv Date: 10/20/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELD
:	a044	48	4.35	-118	49.54	3526.0	wa	980574.46	980896.72	3.92	-120.26	-1.17	0.00	9.24	-108.27	-100.79	
:	a046	48	7.75	-118	50.48	3029.0	wa	980609.49	980901.77	2.80	-103.31	-1.05	0.00	-7.50	-109.06	-102.59	
:	a047	48	7.71	-118	52.11	2848.0	wa	980619.60	980901.71	3.82	-97.14	-1.00	0.00	-14.34	-108.67	-102.66	
:	a048	48	7.79	-118	54.05	2607.0	wa	980631.50	980901.84	3.18	-88.92	-0.94	0.00	-25.22	-111.90	-106.38	
:	a049	48	8.90	-118	54.10	2811.0	wa	980620.45	980903.50	4.73	-95.87	-0.99	0.00	-18.76	-110.90	-105.03	
:	a050	48	9.19	-118	52.26	2882.0	wa	980620.24	980903.94	1.67	-98.30	-1.01	0.00	-12.73	-110.37	-104.15	
:	a051	48	9.89	-118	51.80	2802.0	wa	980625.01	980904.98	2.06	-95.57	-0.99	0.00	-16.53	-111.03	-105.02	
:	a052	48	10.49	-118	54.75	2830.0	wa	980622.46	980905.88	1.43	-96.52	-1.00	0.00	-17.35	-113.44	-107.32	
:	a053	48	11.76	-118	53.63	2787.0	wa	980625.52	980907.79	2.09	-95.06	-0.99	0.00	-20.23	-114.19	-108.20	
:	a054	48	13.58	-118	55.18	3065.0	wa	980606.47	980910.52	3.27	-104.54	-1.06	0.00	-15.89	-118.21	-111.70	
:	a055	48	13.66	-118	53.05	2674.0	wa	980636.35	980910.64	0.62	-91.20	-0.96	0.00	-22.87	-114.42	-108.59	
:	a056	48	13.76	-118	49.09	3860.0	wa	980557.44	980910.79	8.16	-131.65	-1.23	0.00	9.54	-115.19	-107.25	
:	a057	48	12.39	-118	46.31	4081.0	wa	980548.93	980908.73	8.51	-139.19	-1.27	0.00	23.86	-108.10	-99.70	
:	a058	47	57.15	-118	57.53	2052.0	wa	980650.83	980885.87	8.24	-69.99	-0.78	0.00	-42.10	-104.62	-100.68	
:	a059	47	57.95	-118	52.45	2449.0	wa	980622.70	980887.07	11.78	-83.53	-0.90	0.00	-34.10	-106.75	-102.12	
:	a060	47	58.72	-118	49.74	2557.0	wa	980620.74	980888.23	7.24	-87.21	-0.93	0.00	-27.07	-107.97	-102.82	
:	a061	47	55.95	-118	45.98	2606.0	wa	980615.19	980884.06	9.82	-88.88	-0.94	0.00	-23.86	-103.86	-98.77	
:	a062	47	59.86	-118	45.78	4067.0	wa	980521.78	980889.94	21.28	-138.71	-1.27	0.00	14.19	-104.51	-96.96	
:	a063	48	19.66	-119	4.49	5327.0	wa	980478.69	980919.63	15.10	-181.69	-1.45	0.00	59.80	-108.23	-97.53	
:	a064	48	22.30	-119	3.61	6774.0	wa	980383.38	980923.59	26.91	-231.04	-1.52	0.00	96.50	-109.15	-96.06	
:	a065	48	22.39	-119	5.98	5373.0	wa	980483.81	980923.73	12.85	-183.26	-1.45	0.00	65.16	-106.70	-95.76	
:	a066	48	23.22	-119	8.62	4824.0	wa	980529.34	980924.97	9.08	-164.53	-1.39	0.00	57.86	-98.98	-89.00	
:	a067	48	25.50	-119	9.81	4688.0	wa	980549.43	980928.39	5.37	-159.89	-1.37	0.00	61.74	-94.15	-84.23	
:	a068	48	27.94	-119	6.93	5148.0	wa	980512.52	980932.05	10.39	-175.58	-1.43	0.00	64.41	-102.21	-91.60	
:	a069	48	27.87	-119	3.69	4627.0	wa	980533.90	980931.94	14.50	-157.81	-1.36	0.00	36.93	-107.75	-98.53	
:	a070	48	26.04	-119	4.18	4124.0	wa	980570.83	980929.20	4.44	-140.66	-1.28	0.00	29.33	-108.17	-99.42	
:	a071	48	24.87	-119	2.33	5963.0	wa	980440.25	980927.45	22.92	-203.38	-1.49	0.00	73.32	-108.64	-97.05	
:	a072	48	27.10	-118	56.19	5855.0	wa	980443.14	980930.79	21.46	-199.70	-1.49	0.00	62.72	-117.01	-105.56	
:	a073	48	28.43	-118	54.61	4638.0	wa	980529.84	980932.78	9.90	-158.19	-1.36	0.00	33.07	-116.58	-107.06	
:	a074	48	27.69	-118	53.40	4193.0	wa	980558.48	980931.67	6.22	-143.01	-1.29	0.00	21.00	-117.09	-108.29	
:	base05	48	22.22	-118	53.20	3130.0	wa	980619.37	980923.48	2.30	-106.75	-1.08	0.00	-9.83	-115.36	-108.64	
:	a075	48	21.33	-118	55.65	4150.0	wa	980554.45	980922.14	13.63	-141.54	-1.29	0.00	22.46	-106.74	-98.52	
:	a076	48	20.63	-118	55.38	4185.0	wa	980549.33	980921.09	13.12	-142.74	-1.29	0.00	21.67	-109.24	-100.90	
:	a077	48	19.73	-118	57.02	3298.0	wa	980610.37	980919.74	6.98	-112.49	-1.11	0.00	0.69	-105.93	-99.14	
:	a078	48	21.58	-118	57.70	3936.0	wa	980566.85	980922.52	6.38	-134.25	-1.25	0.00	14.37	-114.75	-106.52	
:	a079	48	23.10	-118	58.40	4604.0	wa	980530.44	980924.79	25.11	-157.03	-1.36	0.00	38.46	-94.82	-86.34	

colville gravity
stations-lat/lon
Meter ID: obsgrv Date: 10/20/80

STATION IDENTIFICATION proj	sta-id	LOCATION LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELD
:	a080	48	24.28	-118	55.68	3810.0	wa	980578.71	980926.56	3.59	-129.95	-1.22	0.00	10.34	-117.24	-109.12	
:	a081	48	23.66	-118	54.09	3830.0	wa	980574.58	980925.63	5.95	-130.63	-1.23	0.00	9.01	-116.89	-108.88	
:	a082	48	25.15	-118	52.98	3980.0	wa	980567.71	980927.87	8.93	-135.75	-1.26	0.00	14.01	-114.06	-105.91	
:	a083	48	26.43	-118	52.40	4071.0	wa	980565.62	980929.78	7.32	-138.85	-1.27	0.00	18.55	-114.25	-105.79	
:	a084	48	26.03	-118	54.33	4154.0	wa	980557.75	980929.18	6.78	-141.68	-1.29	0.00	19.09	-117.10	-108.43	
:	a085	48	28.67	-118	46.32	4063.0	wa	980561.59	980933.14	13.62	-138.58	-1.27	0.00	10.42	-115.81	-107.77	
:	a086	48	26.76	-118	48.06	3656.0	wa	980584.90	980930.27	11.03	-124.70	-1.19	0.00	-1.66	-116.52	-109.21	
:	a055	48	13.66	-118	53.05	2674.0	wa	980636.64	980910.64	0.62	-91.20	-0.96	0.00	-22.59	-114.13	-108.30	
:	a088	48	15.04	-118	54.99	3315.0	wa	980590.84	980912.71	5.32	-113.06	-1.12	0.00	-10.20	-119.07	-112.13	
:	a089	48	16.24	-118	54.94	3426.0	wa	980583.73	980914.51	8.12	-116.85	-1.14	0.00	-8.68	-118.55	-111.56	
:	a090	48	17.12	-118	52.62	3823.0	wa	980568.30	980915.83	7.40	-130.39	-1.23	0.00	11.88	-112.34	-104.43	
:	a091	48	18.52	-118	52.43	4187.0	wa	980548.37	980917.93	8.91	-142.81	-1.29	0.00	24.06	-111.13	-102.52	
:	a092	48	20.40	-118	52.47	4611.0	wa	980522.14	980920.74	10.06	-157.27	-1.36	0.00	34.86	-113.70	-104.25	
:	a093	48	22.14	-118	50.60	4781.0	wa	980510.02	980923.35	12.57	-163.07	-1.38	0.00	36.11	-115.76	-106.09	
:	a094	48	22.10	-118	45.60	3768.0	wa	980569.72	980923.30	17.23	-128.52	-1.22	0.00	0.67	-111.83	-104.67	
:	a095	48	20.40	-118	46.40	3619.0	wa	980582.03	980920.74	9.30	-123.43	-1.19	0.00	1.52	-113.80	-106.45	
:	a096	48	20.77	-118	47.20	3640.0	wa	980582.83	980921.30	7.33	-124.15	-1.19	0.00	3.74	-114.27	-106.76	
:	a097	48	19.92	-118	48.74	3815.0	wa	980571.75	980920.02	6.38	-130.12	-1.22	0.00	10.38	-114.58	-106.62	
:	a098	48	18.43	-118	47.14	4001.0	wa	980556.58	980917.79	9.94	-136.46	-1.26	0.00	14.93	-112.86	-104.72	
:	a100	48	20.46	-118	39.70	4764.0	wa	980512.59	980920.84	13.82	-162.49	-1.38	0.00	39.61	-110.44	-100.89	
:	a101	48	18.10	-118	39.87	3791.0	wa	980574.62	980917.30	7.16	-129.30	-1.22	0.00	13.72	-109.64	-101.78	
:	a102	48	16.64	-118	40.57	3497.0	wa	980587.18	980915.11	10.31	-119.27	-1.16	0.00	0.84	-109.28	-102.27	
:	a103	48	15.66	-118	43.76	3839.0	wa	980561.68	980913.64	6.92	-130.94	-1.23	0.00	8.96	-116.29	-108.32	
:	a104	48	16.30	-118	45.70	3732.0	wa	980572.83	980914.60	8.87	-127.29	-1.21	0.00	9.09	-110.54	-102.92	
:	a105	48	15.87	-118	49.70	3669.0	wa	980575.18	980913.95	5.32	-125.14	-1.20	0.00	6.16	-114.85	-107.15	
:	a106	48	22.93	-118	50.34	4334.0	wa	980572.35	980924.54	9.14	-147.82	-1.32	0.00	55.25	-84.75	-75.83	
:	a108	48	23.71	-118	48.31	3702.0	wa	980590.61	980925.70	5.54	-126.26	-1.20	0.00	12.94	-108.99	-101.22	
:	a110	48	24.54	-118	47.87	3825.0	wa	980579.12	980926.95	6.83	-130.40	-1.23	0.00	11.76	-113.09	-105.14	
:	a111	48	24.52	-118	49.38	4040.0	wa	980567.46	980926.92	7.30	-137.79	-1.27	0.00	20.35	-111.41	-103.03	
:	a112	48	25.16	-118	49.89	3962.0	wa	980570.95	980927.88	8.44	-135.13	-1.25	0.00	15.55	-112.40	-104.25	
:	a113	48	26.29	-118	47.36	3748.0	wa	980585.22	980929.57	6.35	-127.83	-1.21	0.00	8.01	-114.69	-106.88	
:	a114	48	25.89	-118	45.82	3570.0	wa	980593.17	980928.98	7.43	-121.76	-1.17	0.00	-0.17	-115.68	-108.32	
:	a115	48	27.64	-118	43.62	3632.0	wa	980588.43	980931.59	13.41	-123.88	-1.19	0.00	-1.71	-113.36	-106.25	
:	a116	48	28.03	-118	41.63	4072.0	wa	980562.61	980932.18	8.46	-138.88	-1.27	0.00	13.24	-118.45	-110.07	
:	a117	48	29.22	-118	33.99	6152.0	wa	980444.31	980933.96	22.56	-209.83	-1.50	0.00	88.62	-100.15	-88.13	

colville gravity
stations-lat/lon
Meter ID: obsgrv Date: 10/20/80

STATION IDENTIFICATION proj	sta-id	LOCATION LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELD
:	a118	48	8.62	-118	38.67	3598.0	wa	980572.97	980903.08	11.09	-122.72	-1.18	0.00	8.15	-104.65	-97.47	
:	a119	48	7.03	-118	38.60	3598.0	wa	980570.18	980900.70	11.40	-122.72	-1.18	0.00	7.75	-104.75	-97.59	
:	a120	48	10.64	-118	39.48	4167.0	wa	980538.27	980906.11	15.85	-142.12	-1.29	0.00	23.91	-103.66	-95.54	
:	a121	48	10.24	-118	36.38	4200.0	wa	980545.06	980905.51	10.65	-143.25	-1.30	0.00	34.40	-99.50	-90.97	
:	a122	48	12.42	-118	37.61	4174.0	wa	980546.91	980908.78	11.76	-142.36	-1.29	0.00	30.54	-101.36	-92.96	
:	a123	48	12.55	-118	40.87	3935.0	wa	980548.08	980908.98	17.08	-134.21	-1.25	0.00	9.04	-109.34	-101.80	
:	a124	48	14.12	-118	40.23	3302.0	wa	980588.38	980911.33	12.97	-112.62	-1.12	0.00	-12.50	-113.27	-106.86	
:	a125	48	14.87	-118	38.47	3976.0	wa	980551.70	980912.45	9.89	-135.61	-1.26	0.00	13.04	-113.94	-105.85	
:	a127	48	15.70	-118	36.20	4135.0	wa	980548.46	980913.70	7.96	-141.03	-1.28	0.00	23.50	-110.86	-102.30	
:	a128	48	16.52	-118	36.01	4104.0	wa	980551.69	980914.93	5.75	-139.98	-1.28	0.00	22.58	-112.92	-104.30	
:	a129	48	17.24	-118	36.00	4243.0	wa	980537.20	980916.01	5.41	-144.72	-1.30	0.00	20.08	-120.53	-111.58	
:	a130	48	17.01	-118	38.01	3605.0	wa	980580.44	980915.66	8.83	-122.96	-1.18	0.00	3.70	-111.61	-104.27	
:	a131	48	18.82	-118	38.31	3621.0	wa	980587.75	980918.38	5.85	-123.50	-1.19	0.00	9.80	-109.04	-101.47	
:	a132	48	21.02	-118	37.24	3780.0	wa	980580.94	980921.67	3.74	-128.92	-1.22	0.00	14.63	-111.77	-103.72	
:	a133	48	19.23	-118	41.19	3571.0	wa	980593.71	980918.99	3.02	-121.80	-1.17	0.00	10.44	-109.51	-101.87	
:	a134	48	18.02	-118	42.24	3433.0	wa	980597.19	980917.18	4.83	-117.09	-1.15	0.00	2.77	-110.64	-103.42	
:	a135	48	20.59	-118	43.55	3296.0	wa	980601.45	980921.03	7.89	-112.42	-1.11	0.00	-9.70	-115.34	-108.61	
:	a136	48	20.84	-118	41.53	4042.0	wa	980561.54	980921.41	7.51	-137.86	-1.27	0.00	20.13	-111.49	-103.11	
:	a137	48	22.93	-118	38.31	4639.0	wa	980527.52	980924.54	10.93	-158.22	-1.36	0.00	39.09	-109.57	-100.11	
:	a138	48	23.61	-118	40.50	4015.0	wa	980566.79	980925.55	9.77	-136.94	-1.26	0.00	18.69	-109.75	-101.57	
:	a139	48	23.22	-118	42.46	3928.0	wa	980566.24	980924.97	9.94	-133.97	-1.25	0.00	10.55	-114.73	-106.75	
:	a140	48	24.71	-118	41.56	4116.0	wa	980557.37	980927.20	9.80	-140.39	-1.28	0.00	17.11	-114.76	-106.36	
:	a141	48	26.46	-118	41.59	3581.0	wa	980594.97	980929.83	5.25	-122.14	-1.18	0.00	1.81	-116.26	-108.74	
:	a142	48	27.59	-118	39.29	3866.0	wa	980580.86	980931.52	5.16	-131.86	-1.23	0.00	12.79	-115.14	-107.00	
:	a143	48	26.59	-118	38.11	4665.0	wa	980532.60	980930.02	9.18	-159.11	-1.37	0.00	41.12	-110.18	-100.54	
:	a144	48	26.24	-118	37.53	4033.0	wa	980575.14	980932.49	5.22	-137.55	-1.27	0.00	21.79	-111.81	-103.30	
:	a145	48	25.02	-118	37.22	4931.0	wa	980515.64	980927.67	10.10	-168.18	-1.40	0.00	51.51	-107.97	-97.62	
:	a146	48	26.10	-118	35.00	4704.0	wa	980534.61	980929.29	4.80	-160.44	-1.37	0.00	47.53	-109.48	-99.49	
:	a147	48	27.76	-118	34.24	5509.0	wa	980487.48	980931.77	12.19	-187.90	-1.46	0.00	73.56	-103.61	-92.33	
:	a148	48	28.31	-118	32.29	4868.0	wa	980533.26	980932.60	9.54	-166.03	-1.39	0.00	58.28	-99.61	-89.56	
:	a149	48	25.35	-118	33.34	6009.0	wa	980443.99	980928.16	15.96	-204.95	-1.50	0.00	80.66	-109.83	-97.70	
:	a150	48	16.42	-118	34.56	4031.0	wa	980556.81	980914.78	7.73	-137.49	-1.27	0.00	20.99	-110.03	-101.6	
:	a151	48	25.63	-118	29.93	6397.0	wa	980414.38	980928.59	26.27	-218.18	-1.51	0.00	87.09	-106.34	-94.02	
:	a152	48	24.26	-118	33.21	5839.0	wa	980453.43	980926.53	14.28	-199.15	-1.49	0.00	75.76	-110.60	-98.73	
:	a153	48	22.30	-118	31.79	5545.0	wa	980470.41	980923.59	11.43	-189.12	-1.47	0.00	68.06	-111.10	-99.69	

colville gravity
stations-lat/lon
Meter ID: obsgrv Date: 10/20/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELD
:	a154	48	19.84	-118	32.57	5167.0	wa	980489.32	980919.91	9.23	-176.23	-1.43	0.00	55.13	-113.30	-102.58	
:	a155	48	19.20	-118	28.91	5463.0	wa	980465.87	980918.95	13.69	-186.33	-1.46	0.00	60.45	-113.64	-102.56	
:	a156	48	22.57	-118	25.47	5709.0	wa	980455.44	980924.00	21.87	-194.72	-1.48	0.00	68.09	-106.24	-95.14	
:	a157	48	25.26	-118	24.04	4781.0	wa	980520.84	980928.03	23.64	-163.07	-1.38	0.00	42.26	-98.55	-89.59	
:	a159	48	17.16	-118	30.58	5438.0	wa	980472.95	980915.89	11.32	-185.47	-1.46	0.00	68.25	-107.36	-96.18	
:	a160	48	3.76	-118	31.20	2876.0	wa	980622.96	980895.79	5.79	-98.09	-1.01	0.00	-2.43	-95.74	-89.80	
:	a161	48	1.30	-118	30.47	4762.0	wa	980492.14	980892.09	19.73	-162.42	-1.38	0.00	47.71	-96.36	-87.19	
:	a163	48	2.16	-118	30.96	3811.0	wa	980556.46	980893.39	7.49	-129.98	-1.22	0.00	21.36	-102.36	-94.48	
:	a164	48	2.66	-118	35.42	3657.0	wa	980572.82	980894.14	9.35	-124.73	-1.19	0.00	22.49	-94.08	-86.66	
:	a165	48	1.56	-118	35.53	3392.0	wa	980591.50	980892.48	8.10	-115.69	-1.14	0.00	17.92	-90.81	-83.89	
:	a166	48	0.29	-118	35.51	3419.0	wa	980588.82	980890.58	6.30	-116.61	-1.14	0.00	19.68	-91.77	-84.68	
:	a167	48	0.20	-118	34.64	3792.0	wa	980565.85	980890.45	10.19	-129.33	-1.22	0.00	31.91	-88.46	-80.79	
:	a172	48	5.39	-118	35.13	3499.0	wa	980583.78	980898.23	6.19	-119.34	-1.16	0.00	14.51	-99.80	-92.52	
:	a168	48	0.55	-118	37.24	2929.0	wa	980622.70	980890.97	4.70	-99.90	-1.03	0.00	7.12	-89.11	-82.98	
:	a173	48	5.61	-118	31.83	3455.0	wa	980587.03	980898.56	7.13	-117.84	-1.15	0.00	13.29	-98.57	-91.45	
:	a169	48	0.09	-118	40.01	1933.0	wa	980675.72	980890.28	5.81	-65.93	-0.74	0.00	-32.81	-93.67	-89.79	
:	a170	48	2.58	-118	38.11	2462.0	wa	980646.95	980894.02	6.14	-83.97	-0.90	0.00	-15.58	-94.31	-89.30	
:	a171	48	4.01	-118	37.04	2877.0	wa	980620.41	980896.16	5.30	-98.13	-1.01	0.00	-5.25	-99.09	-93.12	
:	a174	48	4.16	-118	33.66	2792.0	wa	980632.34	980896.39	1.70	-95.23	-0.99	0.00	-1.54	-96.06	-90.04	
:	a175	48	3.91	-118	34.66	3533.0	wa	980581.02	980896.02	6.58	-120.50	-1.17	0.00	17.17	-97.92	-90.59	
:	a176	48	3.03	-118	33.93	2613.0	wa	980643.83	980894.70	1.12	-89.12	-0.94	0.00	-5.19	-94.13	-88.47	
:	a177	47	57.86	-118	40.21	1919.0	wa	980675.58	980886.93	2.40	-65.45	-0.74	0.00	-30.92	-94.71	-90.64	
:	a178	47	59.04	-118	38.34	3374.0	wa	980580.62	980888.70	16.71	-115.08	-1.13	0.00	9.13	-90.37	-84.04	
:	a179	47	59.04	-118	35.34	3800.0	wa	980558.94	980888.70	12.15	-129.61	-1.22	0.00	27.49	-91.19	-83.64	
:	a180	47	57.31	-118	36.88	2739.0	wa	980627.51	980886.11	6.75	-93.42	-0.98	0.00	-1.07	-88.72	-83.14	
:	a181	47	57.92	-118	33.98	2832.0	wa	980621.80	980887.02	3.85	-96.59	-1.00	0.00	1.04	-92.70	-86.73	
:	a182	47	55.33	-118	29.66	3063.0	wa	980601.28	980883.13	10.02	-104.47	-1.06	0.00	6.13	-89.38	-83.30	
:	a183	47	53.36	-118	29.75	2688.0	wa	980618.39	980880.18	15.10	-91.68	-0.96	0.00	-9.06	-86.60	-81.66	
:	a184	47	52.23	-118	24.83	2903.0	wa	980608.88	980878.48	5.54	-99.01	-1.02	0.00	3.34	-91.15	-85.13	
:	a185	47	54.41	-118	24.30	3045.0	wa	980603.78	980881.75	5.13	-103.86	-1.05	0.00	8.32	-91.46	-85.11	
:	a186	47	55.85	-118	23.03	2114.0	wa	980661.74	980883.91	2.90	-72.10	-0.80	0.00	-23.40	-93.40	-88.95	
:	a187	47	55.85	-118	26.42	2944.0	wa	980614.38	980883.91	3.46	-100.41	-1.03	0.00	7.26	-90.72	-84.48	
:	a188	47	57.89	-118	26.87	4287.0	wa	980524.82	980886.98	15.30	-146.22	-1.31	0.00	40.87	-91.36	-82.94	
:	a189	47	59.17	-118	29.50	4639.0	wa	980503.65	980888.90	21.18	-158.22	-1.36	0.00	50.85	-87.55	-78.74	
:	a190	47	59.08	-118	25.43	2342.0	wa	980653.68	980888.77	2.66	-79.88	-0.86	0.00	-14.88	-92.97	-87.99	
:	a191	48	0.26	-118	27.86	3756.0	wa	980563.49	980890.54	10.90	-128.11	-1.21	0.00	26.07	-92.35	-84.81	

colville gravity
stations-lat/lon
Meter ID: observ Date: 10/20/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	GRAVITY THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELD
:	a192	48	2.56	-118	28.33	3523.0	wa	980580.02	980893.98	10.66	-120.16	-1.16	0.00	17.25	-93.41	-86.37	
:	a193	48	4.86	-118	21.95	3252.0	wa	980601.95	980897.44	11.29	-110.92	-1.10	0.00	18.26	-90.47	-84.06	
:	a194	48	6.16	-118	25.53	3004.0	wa	980625.70	980899.39	5.38	-102.46	-1.04	0.00	8.75	-89.38	-83.13	
:	a195	48	7.24	-118	26.83	3663.0	wa	980572.96	980901.01	11.12	-131.76	-1.23	0.00	35.12	-86.75	-78.99	
:	a196	48	6.93	-118	29.05	3262.0	wa	980605.97	980900.55	7.60	-111.26	-1.11	0.00	12.11	-92.66	-85.98	
:	a197	48	8.06	-118	30.48	3382.0	wa	980597.19	980902.24	8.34	-115.35	-1.13	0.00	12.91	-95.23	-88.35	
:	a198	48	7.37	-118	33.64	3622.0	wa	980578.38	980901.20	8.39	-123.54	-1.19	0.00	17.70	-98.63	-91.22	
:	a199	48	7.84	-118	36.42	3801.0	wa	980567.71	980901.91	7.63	-129.64	-1.22	0.00	23.14	-100.09	-92.24	
:	a200	48	11.41	-118	36.88	3592.0	wa	980589.89	980907.27	3.69	-122.51	-1.18	0.00	20.33	-99.68	-92.04	
:	a201	48	11.08	-118	34.52	2985.0	wa	980629.94	980906.77	1.80	-101.81	-1.04	0.00	3.81	-97.24	-90.80	
:	a202	48	12.28	-118	34.04	3387.0	wa	980605.63	980908.57	3.68	-115.52	-1.13	0.00	15.50	-97.48	-90.29	
:	a203	48	13.69	-118	32.47	3583.0	wa	980586.13	980910.69	3.89	-122.21	-1.18	0.00	12.30	-107.19	-99.58	
:	a204	48	11.57	-118	30.08	3471.0	wa	980595.59	980907.51	7.03	-118.39	-1.15	0.00	14.42	-98.09	-90.93	
:	a205	48	15.22	-118	25.44	3891.0	wa	980566.79	980912.98	8.61	-132.71	-1.24	0.00	19.61	-105.73	-97.75	
:	a206	48	13.80	-118	24.85	3787.0	wa	980569.67	980910.85	8.43	-129.16	-1.22	0.00	14.85	-107.10	-99.34	
:	a207	48	14.23	-118	26.62	3950.0	wa	980560.82	980911.49	8.41	-134.72	-1.25	0.00	20.67	-106.89	-98.77	
:	a208	48	12.40	-118	25.71	3451.0	wa	980594.11	980908.75	4.12	-117.70	-1.15	0.00	9.81	-104.93	-97.62	
:	a209	48	10.48	-118	26.37	3712.0	wa	980583.05	980905.87	6.58	-126.61	-1.20	0.00	26.16	-95.07	-87.35	
:	a210	48	9.43	-118	26.35	3969.0	wa	980564.31	980904.30	13.75	-135.37	-1.25	0.00	33.15	-89.72	-81.90	
:	a211	48	9.25	-118	22.00	3897.0	wa	980570.22	980904.02	10.43	-132.92	-1.24	0.00	32.56	-91.16	-83.29	
:	a212	48	11.37	-118	23.10	4001.0	wa	980559.74	980907.20	10.62	-136.46	-1.26	0.00	28.68	-98.42	-90.33	
:	a213	48	13.05	-118	23.34	4008.0	wa	980556.10	980909.73	10.28	-136.70	-1.26	0.00	23.18	-104.51	-96.38	
:	a214	48	13.76	-118	20.73	3786.0	wa	980570.68	980910.79	9.80	-129.13	-1.22	0.00	15.82	-104.72	-97.05	
:	a215	48	11.30	-118	17.79	3270.0	wa	980606.67	980907.10	9.50	-111.53	-1.11	0.00	7.01	-96.13	-89.56	
:	a216	48	12.00	-118	19.65	2988.0	wa	980627.65	980908.15	5.31	-101.91	-1.04	0.00	0.43	-97.22	-91.00	
:	a217	48	11.02	-118	20.89	4064.0	wa	980554.97	980906.68	10.76	-138.61	-1.27	0.00	30.35	-98.77	-90.55	
:	a218	48	8.38	-118	18.09	3221.0	wa	980611.61	980902.72	9.27	-109.86	-1.10	0.00	11.72	-89.97	-83.49	
:	a219	48	7.12	-118	19.06	3841.0	wa	980570.38	980900.83	12.56	-131.01	-1.23	0.00	30.66	-89.02	-81.40	
:	a220	48	7.75	-118	21.39	3600.0	wa	980588.96	980901.77	9.36	-122.79	-1.18	0.00	25.64	-88.97	-81.67	
:	a221	47	58.56	-118	54.49	2795.0	wa	980612.04	980887.98	4.31	-95.33	-0.99	0.00	-13.16	-105.17	-99.31	
:	a222	47	58.45	-118	47.16	2251.0	wa	980644.15	980887.82	3.73	-76.77	-0.84	0.00	-32.02	-105.91	-101.20	
:	a223	47	57.76	-118	45.91	2912.0	wa	980600.72	980886.78	9.07	-99.32	-1.02	0.00	-12.28	-103.55	-97.74	
:	a224	47	53.63	-118	48.59	2713.0	wa	980608.58	980880.59	4.09	-92.53	-0.97	0.00	-16.93	-106.34	-100.64	
:	a225	47	53.67	-118	46.33	2641.0	wa	980612.12	980880.64	8.31	-90.08	-0.95	0.00	-20.21	-102.93	-97.66	
:	a226	47	59.50	-118	43.50	3140.0	wa	980587.97	980889.40	14.67	-107.10	-1.08	0.00	-6.21	-99.71	-93.76	
:	a227	48	2.25	-118	48.90	4424.0	wa	980506.13	980893.52	16.29	-150.89	-1.33	0.00	28.51	-107.42	-98.77	
:	a228	48	3.88	-118	46.27	3385.0	wa	980585.81	980895.97	6.74	-115.45	-1.13	0.00	8.09	-101.76	-94.76	
:	a229	48	5.70	-118	43.00	2975.0	wa	980605.22	980898.70	14.74	-101.47	-1.04	0.00	-13.77	-101.54	-95.95	
:	ne28	48	6.34	-118	48.20	3883.0	wa	980558.72	980899.66	4.17	-132.44	-1.24	0.00	24.11	-105.39	-97.15	
:	a230	48	6.66	-118	46.95	3802.0	wa	980564.19	980900.14	7.12	-129.68	-1.22	0.00	21.49	-102.29	-94.41	

colville gravity
stations-lat/lon
Meter ID: obsgrv Date: 10/20/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELD
:	a231	48	7.55	-118	45.82	3486.0	wa	980585.26	980901.48	5.17	-118.90	-1.16	0.00	11.52	-103.36	-96.05	
:	a232	48	9.20	-118	49.70	3105.0	wa	980617.84	980903.95	3.35	-105.90	-1.07	0.00	5.82	-97.80	-91.20	
:	a233	48	10.64	-118	48.68	3231.0	wa	980601.84	980906.11	2.97	-110.20	-1.10	0.00	-0.50	-108.83	-101.93	
:	a234	48	12.83	-118	46.73	3909.0	wa	980562.07	980909.40	5.19	-133.32	-1.24	0.00	20.17	-109.21	-100.97	
:	a235	48	13.77	-118	49.11	3860.0	wa	980557.82	980910.80	8.15	-131.65	-1.23	0.00	9.91	-114.83	-106.89	
:	a236	48	14.46	-118	56.07	2522.0	wa	980641.40	980911.84	1.82	-86.02	-0.92	0.00	-33.32	-118.43	-113.01	
:	a237	48	15.55	-118	59.50	2351.0	wa	980656.22	980913.48	2.44	-80.19	-0.87	0.00	-36.21	-114.82	-109.82	
:	a238	48	12.71	-119	4.38	3189.0	wa	980607.10	980909.21	4.57	-108.77	-1.09	0.00	-2.29	-107.58	-100.87	
:	a239	48	12.48	-119	7.50	2457.0	wa	980654.52	980908.87	0.83	-83.80	-0.90	0.00	-23.33	-107.20	-101.86	
:	a240	48	12.47	-119	13.90	1637.0	wa	980706.64	980908.85	3.28	-55.83	-0.64	0.00	-48.29	-101.49	-98.10	
:	a241	48	13.99	-119	13.31	2438.0	wa	980663.02	980911.13	2.00	-83.15	-0.69	0.00	-18.89	-100.93	-95.71	
:	a242	48	10.12	-119	9.07	2931.0	wa	980617.81	980905.33	7.34	-99.97	-1.03	0.00	-11.95	-105.60	-99.64	
:	a243	48	10.61	-119	9.99	2868.0	wa	980626.60	980906.06	3.58	-97.62	-1.01	0.00	-9.81	-105.06	-99.00	
:	a244	48	10.28	-119	4.39	2864.0	wa	980621.23	980905.57	5.21	-97.68	-1.01	0.00	-15.06	-108.54	-102.59	
:	a245	48	9.34	-119	3.05	2554.0	wa	980637.99	980904.16	6.87	-87.11	-0.93	0.00	-26.04	-107.20	-102.03	
:	a246	48	15.74	-119	6.06	3888.0	wa	980569.17	980913.76	3.78	-132.61	-1.24	0.00	20.93	-109.13	-100.85	
:	a247	48	15.80	-119	2.41	3252.0	wa	980600.78	980913.85	4.93	-110.92	-1.10	0.00	-7.33	-114.42	-107.60	
:	a248	48	17.39	-119	5.17	4094.0	wa	980554.95	980916.23	7.02	-139.63	-1.28	0.00	23.60	-110.29	-101.77	
:	a249	48	17.05	-119	2.20	3389.0	wa	980601.60	980915.73	4.49	-115.59	-1.14	0.00	4.50	-107.74	-100.59	
:	a250	48	17.15	-118	58.84	3030.0	wa	980618.56	980915.88	4.19	-103.34	-1.05	0.00	-12.44	-112.64	-106.26	
:	a251	48	18.86	-118	59.69	3668.0	wa	980592.41	980918.44	7.06	-125.11	-1.20	0.00	18.82	-100.42	-92.83	
:	a252	48	20.12	-118	59.53	3533.0	wa	980595.52	980920.33	4.50	-120.50	-1.17	0.00	7.35	-109.82	-102.35	
:	a253	48	22.98	-119	13.66	3271.0	wa	980630.23	980924.61	2.18	-111.56	-1.11	0.00	13.15	-97.34	-90.31	
:	a254	48	24.25	-119	13.97	3893.0	wa	980587.88	980926.52	3.68	-132.78	-1.24	0.00	27.36	-102.98	-94.68	
:	a255	48	25.65	-119	13.56	4702.0	wa	980551.38	980928.62	7.59	-160.37	-1.37	0.00	64.79	-89.37	-79.55	
:	a256	48	26.98	-119	11.90	5622.0	wa	980491.86	980930.61	11.44	-191.75	-1.47	0.00	89.72	-92.06	-80.48	
:	a257	48	27.80	-119	11.35	5098.0	wa	980530.41	980931.84	5.51	-173.88	-1.42	0.00	77.81	-91.98	-81.17	
:	a258	48	26.71	-119	14.42	5667.0	wa	980485.61	980930.20	18.92	-193.28	-1.47	0.00	88.11	-87.73	-76.54	
:	a259	48	27.99	-119	16.56	4534.0	wa	980562.12	980932.12	7.29	-154.64	-1.35	0.00	56.23	-92.47	-83.01	
:	a260	48	28.43	-119	20.25	4225.0	wa	980582.80	980932.78	6.49	-144.10	-1.30	0.00	47.21	-91.70	-82.86	
:	a261	48	29.53	-119	24.40	4126.0	wa	980588.80	980934.43	10.44	-140.73	-1.28	0.00	42.26	-89.31	-80.94	
:	a262	48	27.43	-119	24.84	3246.0	wa	980642.06	980931.28	8.43	-110.71	-1.10	0.00	15.96	-87.43	-80.84	
:	a263	48	26.96	-119	18.49	5749.0	wa	980475.15	980930.58	23.47	-196.08	-1.48	0.00	84.98	-89.12	-78.03	
:	a264	48	25.28	-119	19.05	5162.0	wa	980516.40	980928.06	15.68	-176.06	-1.43	0.00	73.59	-88.22	-77.92	
:	a265	48	24.42	-119	22.23	2954.0	wa	980658.54	980926.77	3.05	-100.75	-1.03	0.00	9.50	-89.24	-82.95	
:	a267	48	18.27	-119	16.93	4423.0	wa	980548.04	980917.55	11.21	-150.86	-1.33	0.00	46.29	-94.69	-85.71	
:	a268	48	18.58	-119	13.95	4324.0	wa	980553.44	980918.02	8.76	-147.48	-1.32	0.00	41.92	-98.12	-89.20	

colville grevity
stations-lat/lon
Meter ID: obsgrv Date: 10/20/80

STATION IDENTIFICATION proj	sta-id	LOCATION LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
:	a269	48	7.35	-119	8.14	2249.0	wa	980660.69	980901.17	4.91	-76.71	-0.84	0.00	-29.03	-101.66	-97.04	
:	a270	47	55.23	-118	39.29	2532.0	wa	980626.39	980882.98	7.11	-86.36	-0.92	0.00	-18.53	-98.70	-93.59	
:	a271	47	53.55	-118	36.89	2634.0	wa	980623.55	980880.46	4.67	-89.84	-0.95	0.00	-9.26	-95.38	-89.90	
:	a272	47	53.98	-118	33.24	2681.0	wa	980614.37	980881.11	10.51	-91.44	-0.96	0.00	-14.67	-96.56	-91.35	
:	a273	48	4.10	-119	2.79	2282.0	wa	980653.25	980896.30	2.01	-77.83	-0.85	0.00	-28.49	-105.16	-100.27	
:	a274	48	1.79	-119	3.97	2486.0	wa	980640.15	980892.83	1.26	-84.79	-0.91	0.00	-18.94	-103.38	-98.00	
:	a275	48	1.15	-119	8.30	2727.0	wa	980630.04	980891.88	1.01	-93.01	-0.97	0.00	-5.44	-98.41	-92.49	
:	a276	48	5.55	-119	17.90	1739.0	wa	980699.80	980898.48	1.70	-59.31	-0.68	0.00	-35.16	-93.45	-89.74	
:	a277	48	1.92	-119	21.14	2201.0	wa	980666.55	980893.02	2.75	-75.07	-0.82	0.00	-19.53	-92.68	-88.02	
:	a278	48	3.32	-119	36.67	2441.0	wa	980657.28	980895.13	3.25	-83.26	-0.89	0.00	-8.34	-89.24	-84.08	
:	a279	48	3.36	-119	40.92	2951.0	wa	980614.11	980895.19	7.20	-100.65	-1.03	0.00	-3.63	-98.11	-92.09	
:	a280	48	8.95	-119	43.69	1854.0	wa	980691.68	980903.58	3.73	-63.23	-0.71	0.00	-37.57	-97.79	-93.95	
:	a281	48	9.70	-119	42.09	1464.0	wa	980721.39	980904.70	2.17	-49.93	-0.58	0.00	-45.65	-94.00	-90.92	
:	a282	48	10.17	-119	36.81	2066.0	wa	980687.97	980905.41	2.46	-70.47	-0.78	0.00	-23.18	-91.97	-87.59	
:	a283	48	29.70	-119	37.80	2397.0	wa	980678.83	980934.68	6.43	-81.76	-0.88	0.00	-30.48	-106.69	-101.84	
:	a284	48	27.31	-119	38.98	3196.0	wa	980620.78	980931.10	9.38	-109.01	-1.09	0.00	-9.84	-110.56	-104.15	
:	a285	48	24.67	-119	42.38	4203.0	wa	980554.22	980927.15	12.05	-143.35	-1.30	0.00	22.20	-110.40	-101.96	
:	a286	48	27.91	-119	43.91	4915.0	wa	980504.23	980932.00	18.31	-167.64	-1.40	0.00	34.27	-116.46	-106.86	
:	a287	48	23.17	-119	41.28	4153.0	wa	980559.80	980924.90	11.96	-141.65	-1.29	0.00	25.32	-105.65	-97.31	
:	a288	48	20.64	-119	39.06	2424.0	wa	980661.39	980921.10	8.56	-82.68	-0.89	0.00	-31.80	-106.81	-102.03	
:	a289	48	21.20	-119	31.97	1906.0	wa	980701.00	980921.95	3.08	-65.01	-0.73	0.00	-41.73	-104.39	-100.40	
:	a290	48	19.19	-119	32.31	2916.0	wa	980640.73	980918.93	4.55	-99.46	-1.02	0.00	-4.04	-99.97	-93.86	
:	a291	48	17.04	-119	37.81	2310.0	wa	980671.64	980915.71	3.03	-78.79	-0.86	0.00	-26.87	-103.49	-98.61	
:	a292	48	13.62	-119	39.17	1819.0	wa	980699.26	980910.58	3.98	-62.04	-0.70	0.00	-40.29	-99.65	-95.31	
:	a293	48	12.30	-119	39.63	2027.0	wa	980686.74	980908.60	4.78	-69.14	-0.77	0.00	-31.27	-96.39	-92.25	
:	a294	48	12.05	-119	40.24	2236.0	wa	980665.24	980908.23	8.66	-76.26	-0.83	0.00	-32.75	-101.18	-96.83	
:	a295	48	12.42	-119	38.96	2653.0	wa	980656.66	980908.78	1.74	-90.49	-0.95	0.00	-2.68	-92.38	-86.67	
:	a296	48	13.52	-119	33.48	2936.0	wa	980638.03	980910.43	2.95	-100.14	-1.03	0.00	3.64	-94.57	-88.32	
:	a297	47	53.56	-119	6.67	1858.0	wa	980666.54	980880.48	2.00	-63.37	-0.72	0.00	-39.24	-101.32	-97.37	
:	a298	47	55.33	-119	6.73	1822.0	wa	980672.56	980883.13	0.79	-62.14	-0.70	0.00	-39.25	-101.31	-97.36	
:	a300	47	58.16	-119	9.35	2383.0	wa	980643.75	980887.38	0.18	-81.28	-0.88	0.00	-19.58	-101.55	-96.33	
:	a301	47	57.69	-119	8.99	2320.0	wa	980645.16	980886.68	0.39	-79.13	-0.86	0.00	-23.38	-102.98	-97.91	
:	a302	47	56.61	-119	9.63	2169.0	wa	980652.51	980885.05	0.30	-73.98	-0.81	0.00	-28.61	-103.10	-98.36	
:	a303	47	59.03	-119	9.76	2394.0	wa	980645.89	980888.69	0.12	-81.65	-0.88	0.00	-17.71	-100.12	-94.87	
:	a304	47	59.45	-119	9.78	2414.0	wa	980646.22	980889.32	0.14	-82.33	-0.89	0.00	-16.13	-99.21	-93.92	
:	a305	47	58.02	-119	12.71	2525.0	wa	980635.55	980887.17	0.28	-86.12	-0.92	0.00	-14.22	-100.98	-95.45	
:	a306	47	57.81	-119	13.62	2545.0	wa	980633.93	980886.86	0.27	-86.80	-0.92	0.00	-13.64	-101.10	-95.53	
:	a307	47	57.39	-119	15.07	2480.0	wa	980638.15	980886.23	0.16	-84.59	-0.90	0.00	-14.90	-100.23	-94.80	
:	a308	47	56.96	-119	16.21	2435.0	wa	980641.16	980885.58	0.21	-83.05	-0.89	0.00	-15.47	-99.20	-93.87	

29a

colville gravity
stations-lat/lon
Meter ID: obsgrv Date: 10/20/80

STATION IDENTIFICATION prof	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELD
:	a310	47	57.70	-119	17.86	2386.0	wa	980648.26	980886.70	0.08	-81.38	-0.88	0.00	-14.10	-96.27	-91.04	
:	a311	47	59.01	-119	17.92	2352.0	wa	980653.40	980888.66	0.18	-80.22	-0.87	0.00	-14.12	-95.03	-89.87	
:	a312	47	59.45	-119	17.93	2331.0	wa	980655.68	980889.32	0.26	-79.50	-0.86	0.00	-14.47	-94.58	-89.48	
:	a309	47	56.69	-119	17.40	2384.0	wa	980645.87	980885.18	0.12	-81.31	-0.88	0.00	-15.16	-97.23	-92.00	
:	a313	47	57.70	-119	17.80	2345.0	wa	980645.46	980886.70	0.18	-79.98	-0.87	0.00	-20.75	-101.41	-96.28	
:	a314	47	55.04	-119	17.83	2307.0	wa	980643.45	980882.70	0.06	-78.68	-0.85	0.00	-22.33	-101.81	-96.75	
:	a315	47	55.04	-119	16.53	2348.0	wa	980640.82	980882.70	0.11	-80.08	-0.87	0.00	-21.11	-101.95	-96.80	
:	a316	47	55.03	-119	15.25	2407.0	wa	980637.22	980882.69	0.16	-82.10	-0.88	0.00	-19.15	-101.97	-96.70	
:	a317	47	55.04	-119	19.11	2219.0	wa	980649.22	980882.70	0.10	-75.68	-0.83	0.00	-24.84	-101.25	-96.39	
:	a318	47	54.39	-119	19.61	2066.0	wa	980657.07	980881.73	0.14	-70.47	-0.78	0.00	-30.39	-101.50	-96.97	
:	a319	47	54.40	-119	20.41	2028.0	wa	980660.55	980881.74	0.30	-69.17	-0.77	0.00	-30.51	-100.15	-95.71	
:	a320	47	53.30	-119	20.41	2148.0	wa	980652.26	980880.09	0.06	-73.26	-0.81	0.00	-25.86	-99.87	-95.16	
:	a321	47	52.42	-119	20.40	2148.0	wa	980650.80	980878.77	0.08	-73.25	-0.81	0.00	-26.00	-99.99	-95.28	
:	a322	47	51.54	-119	20.42	2184.0	wa	980647.79	980877.45	-0.04	-74.49	-0.82	0.00	-24.31	-99.65	-94.86	
:	a323	47	50.66	-119	20.42	2167.0	wa	980648.10	980876.13	-0.02	-73.91	-0.81	0.00	-24.27	-99.01	-94.25	
:	a324	47	50.66	-119	19.14	2187.0	wa	980645.36	980876.13	-0.03	-74.59	-0.82	0.00	-25.13	-100.57	-95.77	
:	a325	47	50.65	-119	16.55	2196.0	wa	980642.44	980876.11	0.00	-74.90	-0.82	0.00	-27.19	-102.91	-98.09	
:	a326	47	50.64	-119	21.66	2112.0	wa	980652.15	980876.16	0.00	-72.03	-0.80	0.00	-25.42	-98.25	-93.62	
:	a327	47	51.65	-119	21.66	2137.0	wa	980652.26	980877.61	0.05	-72.89	-0.80	0.00	-24.42	-98.06	-93.37	
:	a328	47	52.48	-119	22.18	2096.0	wa	980655.65	980878.86	0.36	-71.49	-0.79	0.00	-26.13	-98.05	-93.47	
:	a329	47	54.38	-119	22.31	2007.0	wa	980664.53	980881.71	0.12	-68.45	-0.76	0.00	-28.47	-97.56	-93.16	
:	a330	47	55.11	-119	23.30	1940.0	wa	980671.20	980882.80	0.28	-66.17	-0.74	0.00	-29.19	-95.82	-91.58	
:	a331	47	57.01	-119	24.59	2168.0	wa	980663.26	980885.66	0.02	-73.94	-0.81	0.00	-18.55	-93.29	-88.53	
:	a332	47	57.70	-119	24.46	2236.0	wa	980660.77	980886.70	0.07	-76.26	-0.83	0.00	-15.68	-92.71	-87.80	
:	a333	47	58.56	-119	24.45	2236.0	wa	980663.77	980887.98	0.06	-76.26	-0.83	0.00	-13.97	-91.01	-86.10	
:	a334	47	59.43	-119	24.46	2250.0	wa	980665.42	980889.29	0.10	-76.74	-0.84	0.00	-12.31	-89.79	-84.86	
:	a335	47	59.43	-119	25.74	2244.0	wa	980667.09	980889.29	0.13	-76.54	-0.84	0.00	-11.21	-88.45	-83.53	
:	a336	47	59.45	-119	27.07	2191.0	wa	980669.98	980889.32	0.05	-74.73	-0.82	0.00	-13.33	-88.83	-84.02	
:	a337	47	57.68	-119	25.77	2228.0	wa	980663.87	980886.66	0.06	-75.99	-0.83	0.00	-13.31	-90.07	-85.18	
:	a338	47	57.68	-119	26.84	2186.0	wa	980668.59	980886.66	0.02	-74.56	-0.82	0.00	-12.53	-87.89	-83.09	
:	a339	47	56.94	-119	30.35	1746.0	wa	980693.45	980885.55	0.53	-59.55	-0.68	0.00	-27.93	-87.63	-83.83	
:	a340	47	56.49	-119	29.38	1786.0	wa	980687.88	980884.88	0.39	-60.92	-0.69	0.00	-29.06	-90.28	-86.38	
:	a341	47	56.04	-119	28.15	1822.0	wa	980683.90	980884.20	1.54	-62.14	-0.70	0.00	-28.98	-90.29	-86.39	
:	a342	47	55.65	-119	26.94	1852.0	wa	980682.05	980883.62	1.11	-63.17	-0.71	0.00	-27.43	-90.20	-86.20	
:	a343	47	55.29	-119	24.51	1903.0	wa	980674.97	980883.08	0.64	-64.91	-0.73	0.00	-29.17	-94.17	-90.03	
:	a344	47	56.09	-119	19.77	2240.0	wa	980653.15	980884.27	0.02	-76.40	-0.83	0.00	-20.51	-97.73	-92.81	
:	a345	47	55.04	-119	31.98	2226.0	wa	980665.68	980882.70	0.09	-75.92	-0.83	0.00	-7.72	-84.39	-79.50	
:	a346	47	53.29	-119	30.68	2205.0	wa	980662.13	980880.07	-0.02	-75.21	-0.82	0.00	-10.62	-86.67	-81.82	
:	a347	47	53.30	-119	34.60	2212.0	wa	980665.87	980880.09	0.03	-75.45	-0.83	0.00	-6.24	-82.48	-77.62	

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Meter ID: obsgrv Date: 10/20/80

STATION IDENTIFICATION prof	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
:	a348	47	54.15	-119	35.70	2141.0	wa	980669.83	980881.36	0.09	-73.02	-0.80	0.00	-10.23	-83.96	-79.27	
:	a349	47	55.03	-119	34.58	2169.0	wa	980668.33	980882.69	0.13	-73.98	-0.81	0.00	-10.42	-85.08	-80.32	
:	a350	47	58.55	-119	32.42	2309.0	wa	980664.25	980887.97	0.47	-78.75	-0.86	0.00	-6.62	-85.76	-80.72	
:	a351	47	58.55	-119	33.55	2295.0	wa	980665.45	980887.97	0.51	-78.28	-0.85	0.00	-6.73	-85.35	-80.34	
:	a352	47	56.62	-119	33.27	1630.0	wa	980706.06	980885.07	1.23	-55.59	-0.64	0.00	-25.74	-80.75	-77.25	
:	a353	47	56.72	-119	35.83	1487.0	wa	980712.48	980885.22	1.53	-50.72	-0.59	0.00	-32.91	-82.69	-79.52	
:	a354	47	57.24	-119	38.35	1215.0	wa	980727.62	980886.00	2.26	-41.44	-0.49	0.00	-44.14	-83.81	-81.29	
:	a355	47	58.09	-119	39.02	1074.0	wa	980736.87	980887.28	2.71	-36.63	-0.44	0.00	-49.42	-83.78	-81.59	
:	a356	47	59.84	-119	39.07	836.0	wa	980753.64	980889.91	2.48	-28.51	-0.35	0.00	-57.65	-84.04	-82.36	
:	a357	47	57.02	-119	39.65	1344.0	wa	980716.42	980885.67	1.74	-45.84	-0.54	0.00	-42.87	-87.51	-84.67	
:	a358	47	55.37	-119	40.93	1642.0	wa	980696.28	980883.20	1.13	-56.00	-0.64	0.00	-32.52	-88.04	-84.50	
:	a359	47	55.04	-119	43.32	2205.0	wa	980658.35	980882.70	0.81	-75.21	-0.82	0.00	-17.02	-92.24	-87.46	
:	a360	47	53.07	-119	43.30	2134.0	wa	980665.80	980879.74	0.65	-72.78	-0.80	0.00	-13.30	-86.23	-81.59	
:	a361	47	52.42	-119	41.05	2330.0	wa	980656.73	980878.77	0.14	-79.47	-0.86	0.00	-2.96	-83.15	-78.04	
:	a362	47	51.55	-119	39.74	2293.0	wa	980657.08	980877.46	0.07	-78.21	-0.85	0.00	-4.78	-83.77	-78.74	
:	a363	47	48.94	-119	34.52	2226.0	wa	980657.29	980873.54	0.00	5.92	-0.83	0.00	-6.95	-83.71	-78.82	
:	a364	47	51.54	-119	34.57	2237.0	wa	980659.53	980877.45	0.01	-76.30	-0.83	0.00	-7.58	-84.70	-79.79	
:	a365	47	51.54	-119	31.97	2270.0	wa	980656.11	980877.45	0.01	-77.42	-0.84	0.00	-7.90	-86.16	-81.17	
:	a366	47	48.94	-119	29.35	2196.0	wa	980652.24	980873.54	-0.04	-74.90	-0.82	0.00	-14.82	-90.58	-85.76	
:	a367	47	48.93	-119	21.69	2160.0	wa	980647.09	980873.52	0.02	-73.67	-0.81	0.00	-23.34	-97.80	-93.06	
:	a368	47	48.92	-119	19.15	2231.0	wa	980639.07	980873.51	0.13	-76.09	-0.83	0.00	-24.67	-101.46	-96.58	
:	a369	47	47.19	-119	19.16	2236.0	wa	980637.32	980870.91	0.28	-76.26	-0.83	0.00	-23.35	-100.17	-95.28	
:	a370	47	47.18	-119	21.71	2172.0	wa	980644.72	980870.90	0.02	-74.08	-0.81	0.00	-21.95	-96.83	-92.06	

col ind res
gravity
Meter ID: w-147 Date: 10/23/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	hu01	48	12.95	-118	12.09	1904.0	wa	980697.49	980909.58	2.33	-64.94	-0.73	0.00	-33.06	-96.40	-92.36	
colind:	hu02	48	12.99	-118	12.68	1822.0	wa	980701.93	980909.63	1.67	-62.14	-0.70	0.00	-36.39	-97.57	-93.67	
colind:	hu03	48	12.45	-118	12.56	1828.0	wa	980701.28	980908.83	2.46	-62.35	-0.71	0.00	-35.66	-96.26	-92.40	
colind:	hu04	48	13.19	-118	11.82	1864.0	wa	980699.88	980909.94	2.53	-63.58	-0.72	0.00	-34.79	-96.55	-92.62	
colind:	hu05	48	13.65	-118	11.49	1809.0	wa	980706.65	980910.63	2.52	-61.70	-0.70	0.00	-33.88	-93.76	-89.95	
colind:	hu06	48	13.89	-118	11.02	1750.0	wa	980708.28	980910.98	2.29	-59.69	-0.68	0.00	-38.16	-96.23	-92.54	
colind:	hu07	48	14.06	-118	11.33	1810.0	wa	980708.28	980911.24	1.46	-61.73	-0.70	0.00	-32.77	-93.74	-89.86	
colind:	hu08	48	14.23	-118	11.61	1785.0	wa	980707.85	980911.49	2.24	-60.88	-0.69	0.00	-35.80	-95.14	-91.36	
colind:	hu09	48	14.36	-118	11.82	1804.0	wa	980704.71	980911.69	2.08	-61.53	-0.70	0.00	-37.35	-97.50	-93.67	
colind:	hu10	48	14.46	-118	11.94	1809.0	wa	980704.23	980911.84	2.31	-61.70	-0.70	0.00	-37.51	-97.60	-93.78	
colind:	hu11	48	14.74	-118	9.51	1618.0	wa	980713.36	980912.26	2.63	-55.19	-0.64	0.00	-46.76	-99.95	-96.57	
colind:	hu12	48	14.56	-118	9.85	1644.0	wa	980712.76	980911.99	2.29	-56.07	-0.64	0.00	-44.65	-99.08	-95.61	
colind:	hu13	48	14.77	-118	10.67	1889.0	wa	980704.49	980912.30	2.14	-64.43	-0.73	0.00	-30.20	-93.21	-89.20	
colind:	hu14	48	14.76	-118	11.04	1838.0	wa	980707.65	980912.29	2.46	-62.69	-0.71	0.00	-31.82	-92.76	-88.88	
colind:	hu15	48	14.94	-118	10.86	1764.0	wa	980712.51	980912.56	1.55	-60.17	-0.68	0.00	-34.19	-93.49	-89.71	
colind:	hu16	48	14.51	-118	11.16	2138.0	wa	980687.88	980911.91	2.12	-72.92	-0.80	0.00	-23.01	-94.61	-90.05	
colind:	hu17	48	14.71	-118	11.37	2286.0	wa	980677.76	980912.21	2.63	-77.97	-0.85	0.00	-19.52	-95.71	-90.86	
colind:	in10	48	17.02	-118	12.26	2098.0	wa	980692.08	980915.68	2.54	-71.56	-0.79	0.00	-26.34	-96.15	-91.70	
colind:	in11	48	17.25	-118	14.57	1757.0	wa	980712.32	980916.02	1.04	-59.93	-0.68	0.00	-38.50	-98.07	-94.27	
colind:	in12	48	18.08	-118	11.93	1584.0	wa	980725.75	980917.27	1.59	-54.03	-0.62	0.00	-42.58	-95.64	-92.26	
colind:	hu18	48	10.47	-118	14.76	1549.0	wa	980712.86	980905.85	2.19	-52.83	-0.61	0.00	-47.34	-98.60	-95.34	
colind:	wc01	48	11.70	-118	16.41	1829.0	wa	980697.63	980907.70	2.11	-62.38	-0.71	0.00	-38.09	-99.07	-95.19	
colind:	wc02	48	12.33	-118	17.13	1993.0	wa	980686.09	980908.65	1.68	-67.98	-0.76	0.00	-35.16	-102.21	-97.94	
colind:	wc03	48	12.89	-118	17.82	2122.0	wa	980678.47	980909.48	1.61	-72.38	-0.80	0.00	-31.49	-103.06	-98.50	
colind:	wc04	48	10.95	-118	15.96	1810.0	wa	980700.25	980906.58	2.37	-61.73	-0.70	0.00	-36.14	-96.20	-92.38	
colind:	wc05	48	10.16	-118	16.13	1866.0	wa	980697.97	980905.39	3.52	-63.64	-0.72	0.00	-31.97	-92.81	-88.94	
colind:	wc06	48	9.29	-118	15.82	1623.0	wa	980712.81	980904.09	2.63	-55.36	-0.64	0.00	-38.67	-92.03	-88.63	
colind:	in13	48	19.47	-118	13.56	1874.0	wa	980709.89	980919.35	0.97	-63.92	-0.72	0.00	-33.25	-96.92	-92.87	
colind:	in14	48	19.87	-118	14.21	1895.0	wa	980711.17	980919.95	1.41	-64.63	-0.73	0.00	-30.60	-94.55	-90.48	
colind:	t101	48	20.42	-118	15.30	1926.0	wa	980710.81	980920.77	1.52	-65.69	-0.74	0.00	-28.87	-93.78	-89.65	
colind:	t102	48	20.74	-118	15.86	1911.0	wa	980710.34	980921.26	1.76	-65.18	-0.73	0.00	-31.23	-95.38	-91.30	
colind:	t103	48	20.81	-118	17.57	2003.0	wa	980703.04	980921.36	1.87	-68.32	-0.76	0.00	-29.99	-97.20	-92.92	
colind:	t104	48	21.19	-118	19.42	2134.0	wa	980691.42	980921.93	4.12	-72.78	-0.80	0.00	-29.86	-99.33	-94.90	

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gravity
Meter ID: w-147 Date: 10/23/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	sm01	48	29.65	-118	44.40	2073.0	wa	980683.42	980934.61	7.88	-70.70	-0.78	0.00	-56.27	-119.88	-115.83	
colind:	sm02	48	28.44	-118	44.08	2006.0	wa	980687.93	980932.80	6.32	-68.42	-0.76	0.00	-56.25	-119.11	-115.11	
colind:	sm03	48	27.26	-118	44.82	1937.0	wa	980690.07	980931.02	5.60	-66.07	-0.74	0.00	-58.83	-120.03	-116.14	
colind:	sm04	48	25.61	-118	43.60	1885.0	wa	980688.85	980928.55	9.63	-64.29	-0.72	0.00	-62.46	-117.85	-114.32	
colind:	sm05	48	24.11	-118	43.86	1888.0	wa	980688.97	980926.30	7.99	-64.39	-0.73	0.00	-59.82	-116.95	-113.3[illegible]	
colind:	sm06	48	22.80	-118	44.84	1856.0	wa	980688.64	980924.34	7.83	-63.30	-0.72	0.00	-61.19	-117.38	-113.80	
colind:	sm07	48	21.17	-118	44.61	1827.0	wa	980688.51	980921.90	7.72	-62.31	-0.71	0.00	-61.61	-116.91	-113.3[illegible]	
colind:	sm08	48	19.55	-118	44.60	1770.0	wa	980694.63	980919.47	5.44	-60.37	-0.69	0.00	-58.41	-114.03	-110.49	
colind:	sm09	48	18.04	-118	44.07	1731.0	wa	980694.25	980917.21	5.48	-59.04	-0.67	0.00	-60.20	-114.43	-110.98	
colind:	sm10	48	16.57	-118	42.85	1695.0	wa	980692.91	980915.00	8.83	-57.81	-0.66	0.00	-62.71	-112.36	-109.19	
colind:	sm11	48	15.89	-118	41.28	1688.0	wa	980694.68	980913.98	7.07	-57.57	-0.66	0.00	-60.59	-111.75	-108.49	
colind:	wc07	48	3.97	-118	28.40	1898.0	wa	980680.51	980896.10	3.90	-64.74	-0.73	0.00	-37.13	-98.70	-94.78	
colind:	wc08	48	3.91	-118	26.65	1830.0	wa	980685.88	980896.02	2.72	-62.42	-0.71	0.00	-38.06	-98.46	-94.62	
colind:	wc09	48	3.49	-118	24.74	1905.0	wa	980682.97	980895.38	0.76	-64.97	-0.73	0.00	-33.30	-98.24	-94.10	
colind:	wc10	48	3.04	-118	24.51	1893.0	wa	980680.13	980894.71	0.72	-64.57	-0.73	0.00	-36.58	-101.15	-97.04	
colind:	wc11	48	2.95	-118	25.53	1880.0	wa	980679.11	980894.57	0.90	-64.12	-0.72	0.00	-38.69	-102.64	-98.57	
colind:	wc12	48	2.24	-118	25.04	1867.0	wa	980678.25	980893.51	1.19	-63.68	-0.72	0.00	-39.71	-102.92	-98.89	
colind:	wc13	48	3.55	-118	21.02	1900.0	wa	980684.20	980895.48	1.41	-64.80	-0.73	0.00	-32.62	-96.74	-92.66	
colind:	wc14	48	4.53	-118	19.56	1794.0	wa	980691.46	980896.95	1.45	-61.19	-0.69	0.00	-36.80	-97.23	-93.38	
colind:	wc15	48	3.75	-118	18.73	1766.0	wa	980690.08	980895.77	2.04	-60.23	-0.69	0.00	-39.64	-98.52	-94.77	
colind:	wc16	48	3.54	-118	17.80	1454.0	wa	980709.39	980895.46	1.65	-49.59	-0.58	0.00	-49.35	-97.87	-94.78	
colind:	wc17	48	3.25	-118	17.92	1326.0	wa	980716.85	980895.02	1.52	-45.23	-0.53	0.00	-53.49	-97.73	-94.91	
colind:	sm12	48	15.40	-118	41.42	1702.0	wa	980685.42	980913.25	5.98	-58.05	-0.66	0.00	-67.79	-120.53	-117.17	
colind:	ke01	48	13.90	-118	41.98	1661.0	wa	980696.68	980911.00	6.02	-56.65	-0.65	0.00	-58.14	-109.42	-106.16	
colind:	ke02	48	13.49	-118	39.37	1963.0	wa	980677.72	980910.38	6.51	-66.95	-0.75	0.00	-48.09	-109.29	-105.39	
colind:	ke03	48	13.58	-118	38.33	2250.0	wa	980662.45	980910.52	5.09	-76.74	-0.84	0.00	-36.51	-109.00	-104.39	
colind:	ke04	48	13.57	-118	37.33	2359.0	wa	980658.38	980910.51	5.01	-80.46	-0.87	0.00	-30.32	-106.64	-101.78	
colind:	ke05	48	12.26	-118	42.77	1642.0	wa	980696.06	980908.54	6.02	-56.00	-0.64	0.00	-58.08	-108.71	-105.49	
colind:	hu19	48	12.31	-118	12.47	1809.0	wa	980704.52	980908.62	2.58	-61.70	-0.70	0.00	-34.00	-93.82	-90.01	

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gravity
Meter ID: w-147 Date: 10/23/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	hu20	48	12.06	-118	12.64	1812.0	wa	980702.95	980908.24	2.93	-61.80	-0.70	0.00	-34.91	-94.48	-90.69	
colind:	hu21	48	11.76	-118	12.96	1804.0	wa	980702.06	980907.79	2.88	-61.53	-0.70	0.00	-36.10	-95.45	-91.67	
colind:	hu22	48	11.26	-118	12.98	1805.0	wa	980701.81	980907.04	2.60	-61.56	-0.70	0.00	-35.51	-95.17	-91.37	
colind:	hu23	48	13.18	-118	13.73	2071.0	wa	980686.92	980909.92	1.56	-70.64	-0.78	0.00	-28.27	-98.13	-93.68	
colind:	hu24	48	13.39	-118	13.26	1858.0	wa	980699.77	980910.23	2.26	-63.37	-0.72	0.00	-35.76	-97.59	-93.65	
colind:	hu25	48	13.30	-118	12.82	2069.0	wa	980688.57	980910.10	1.09	-70.57	-0.78	0.00	-26.99	-97.25	-92.78	
colind:	hu26	48	13.74	-118	13.24	2032.0	wa	980691.10	980910.76	0.96	-69.31	-0.77	0.00	-28.60	-97.72	-93.32	
colind:	hu27	48	13.78	-118	12.81	2071.0	wa	980697.26	980910.82	0.89	-70.64	-0.78	0.00	-18.84	-89.37	-84.88	
colind:	hu28	48	14.11	-118	12.92	1935.0	wa	980697.56	980911.31	1.40	-66.00	-0.74	0.00	-31.81	-97.15	-92.99	
colind:	in15	48	16.67	-118	13.79	1701.0	wa	980711.29	980915.16	1.60	-58.02	-0.66	0.00	-43.92	-101.00	-97.37	
colind:	in16	48	17.30	-118	14.06	1743.0	wa	980714.43	980916.10	1.14	-59.45	-0.68	0.00	-37.78	-96.77	-93.01	
colind:	t105	48	17.36	-118	23.69	2623.0	wa	980656.11	980916.19	1.52	-89.46	-0.94	0.00	-13.46	-102.35	-96.69	
colind:	t106	48	17.75	-118	21.57	2612.0	wa	980658.23	980916.77	1.14	-89.09	-0.94	0.00	-12.95	-101.84	-96.18	
colind:	t107	48	17.38	-118	21.69	2581.0	wa	980659.08	980916.22	1.07	-88.03	-0.93	0.00	-14.47	-102.36	-96.77	
colind:	t108	48	16.68	-118	22.16	2619.0	wa	980654.36	980915.17	0.84	-89.33	-0.94	0.00	-14.57	-104.00	-98.30	
colind:	t109	48	16.47	-118	22.35	2607.0	wa	980654.18	980914.85	0.83	-88.92	-0.94	0.00	-15.56	-104.59	-98.92	
colind:	t110	48	16.16	-118	20.40	2675.0	wa	980655.06	980914.39	0.84	-91.24	-0.96	0.00	-7.82	-99.18	-93.36	
colind:	t111	48	15.54	-118	18.57	2224.0	wa	980680.14	980913.46	1.64	-75.85	-0.83	0.00	-24.21	-99.25	-94.47	
colind:	t112	48	16.00	-118	18.33	2369.0	wa	980671.25	980914.15	1.59	-80.80	-0.87	0.00	-20.16	-100.24	-95.14	
colind:	t113	48	15.77	-118	17.89	2204.0	wa	980678.22	980913.80	1.37	-75.17	-0.82	0.00	-28.36	-102.98	-98.23	
colind:	t114	48	16.02	-118	17.04	1883.0	wa	980697.41	980914.18	2.30	-64.22	-0.72	0.00	-39.71	-102.36	-98.37	
colind:	t115	48	17.34	-118	15.53	1855.0	wa	980708.63	980916.16	1.02	-63.27	-0.71	0.00	-33.11	-96.07	-92.06	
colind:	t116	48	17.32	-118	17.48	2202.0	wa	980684.19	980916.13	1.55	-75.10	-0.82	0.00	-24.90	-99.28	-94.54	
colind:	t117	48	17.75	-118	19.10	2280.0	wa	980679.09	980916.77	2.19	-77.76	-0.85	0.00	-23.31	-99.73	-94.86	
colind:	hu29	48	14.28	-118	8.91	1334.0	wa	980732.45	980911.57	3.75	-45.50	-0.54	0.00	-53.68	-95.97	-93.27	
colind:	hu30	48	13.49	-118	9.82	1311.0	wa	980735.20	980910.38	3.29	-44.71	-0.53	0.00	-51.91	-93.86	-91.19	
colind:	hu31	48	12.16	-118	10.68	1497.0	wa	980722.35	980908.39	1.90	-51.06	-0.59	0.00	-45.28	-95.03	-91.86	
colind:	hu32	48	10.65	-118	10.01	1816.0	wa	980705.44	980906.13	2.23	-61.94	-0.70	0.00	-29.93	-90.35	-86.50	
colind:	hu33	48	9.22	-118	10.11	1708.0	wa	980710.13	980903.98	1.63	-58.26	-0.67	0.00	-33.25	-90.54	-86.89	
colind:	hu34	48	8.47	-118	11.44	1564.0	wa	980717.34	980902.85	2.26	-53.34	-0.62	0.00	-38.45	-90.15	-86.86	
colind:	hu35	48	7.87	-118	12.27	1687.0	wa	980708.79	980901.95	1.56	-57.54	-0.66	0.00	-34.54	-91.18	-87.57	
colind:	hu36	48	5.28	-118	12.24	1793.0	wa	980697.32	980898.07	1.37	-61.15	-0.69	0.00	-32.16	-92.64	-88.79	
colind:	hu37	48	1.99	-118	14.06	1523.0	wa	980695.06	980893.13	1.54	-51.95	-0.60	0.00	-54.86	-105.87	-102.62	
colind:	hu38	48	4.29	-118	11.90	1831.0	wa	980685.91	980896.59	1.06	-62.45	-0.71	0.00	-38.51	-100.60	-96.65	
colind:	hu39	48	7.16	-118	13.12	1575.0	wa	980712.91	980900.89	1.05	-53.72	-0.62	0.00	-39.88	-93.17	-89.78	

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gravity
Meter ID: w-147 Date: 10/23/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	cd01	47	59.42	-118	57.53	973.0	wa	980720.11	980889.27	4.60	-33.19	-0.40	0.00	-77.67	-106.66	-104.82	
colind:	ne01	48	1.14	-118	56.81	998.0	wa	980721.22	980891.86	5.03	-34.04	-0.41	0.00	-76.79	-106.21	-104.34	
colind:	ne02	48	1.89	-118	57.52	1079.0	wa	980717.72	980892.98	3.69	-36.80	-0.44	0.00	-73.80	-107.36	-105.22	
colind:	ne03	48	2.61	-118	58.20	1257.0	wa	980697.61	980894.06	2.75	-42.87	-0.51	0.00	-78.26	-118.89	-116.30	
colind:	ne04	48	3.25	-118	59.12	1467.0	wa	980693.20	980895.02	1.15	-50.03	-0.58	0.00	-63.88	-113.35	-110.20	
colind:	ne05	48	4.00	-118	58.34	1740.0	wa	980682.35	980896.15	1.65	-59.35	-0.68	0.00	-50.19	-108.56	-104.85	
colind:	ne06	48	4.81	-118	58.91	1763.0	wa	980681.54	980897.37	1.61	-60.13	-0.68	0.00	-50.06	-109.26	-105.49	
colind:	ne07	48	6.49	-118	59.26	1789.0	wa	980682.86	980899.88	1.04	-61.02	-0.69	0.00	-48.81	-109.48	-105.62	
colind:	ne08	48	12.72	-118	59.07	1879.0	wa	980683.21	980909.23	1.52	-64.09	-0.72	0.00	-49.34	-112.63	-108.60	
colind:	ne09	48	11.48	-118	59.25	1856.0	wa	980684.23	980907.37	1.50	-63.30	-0.72	0.00	-48.62	-111.14	-107.16	
colind:	ne10	48	9.40	-118	59.76	1813.0	wa	980690.24	980904.25	1.26	-61.84	-0.70	0.00	-43.54	-104.82	-100.91	
colind:	ne11	48	8.99	-118	58.44	1800.0	wa	980685.25	980903.63	3.47	-61.39	-0.70	0.00	-49.14	-107.76	-104.02	
colind:	ne12	48	7.27	-118	58.63	1723.0	wa	980687.40	980901.05	1.02	-58.77	-0.67	0.00	-51.65	-110.06	-106.34	
colind:	ne13	48	11.02	-118	58.06	1841.0	wa	980685.74	980906.68	2.23	-62.79	-0.71	0.00	-47.83	-109.11	-105.20	
colind:	ne14	48	13.20	-118	57.66	1886.0	wa	980680.51	980909.95	1.98	-64.33	-0.72	0.00	-52.11	-115.18	-111.16	
colind:	af01	48	8.06	-119	0.30	1619.0	wa	980696.91	980902.24	0.98	-55.22	-0.64	0.00	-53.09	-107.97	-104.48	
colind:	af02	48	8.04	-119	1.79	1144.0	wa	980724.05	980902.21	3.06	-39.02	-0.47	0.00	-70.59	-107.02	-104.70	
colind:	af03	48	8.52	-119	3.50	1003.0	wa	980731.23	980902.93	4.91	-34.21	-0.41	0.00	-77.38	-107.10	-105.20	
colind:	af04	48	8.58	-119	6.02	989.0	wa	980731.69	980903.02	3.66	-33.73	-0.41	0.00	-78.33	-108.81	-106.87	
colind:	af05	48	9.13	-119	7.46	948.0	wa	980729.30	980903.84	5.63	-32.33	-0.39	0.00	-85.41	-112.50	-110.78	
colind:	af06	48	8.72	-119	9.27	968.0	wa	980735.32	980903.23	4.72	-33.02	-0.40	0.00	-76.88	-105.58	-103.75	
colind:	af07	48	8.49	-119	9.80	948.0	wa	980733.65	980902.88	4.64	-32.33	-0.39	0.00	-80.09	-108.18	-106.39	
colind:	af19	48	9.18	-119	7.77	948.0	wa	980728.60	980903.92	5.88	-32.33	-0.39	0.00	-86.18	-113.02	-111.31	
colind:	af20	48	12.41	-119	0.59	1980.0	wa	980678.72	980908.77	1.06	-67.53	-0.75	0.00	-43.88	-111.10	-106.82	
colind:	af21	48	12.78	-119	1.27	2098.0	wa	980673.31	980909.32	1.39	-71.56	-0.79	0.00	-38.74	-109.70	-105.18	
colind:	af11	48	13.46	-119	2.94	2566.0	wa	980648.67	980910.34	1.06	-87.52	-0.93	0.00	-20.41	-107.80	-102.23	
colind:	af12	48	14.20	-119	5.02	2706.0	wa	980640.07	980911.45	2.15	-92.29	-0.97	0.00	-16.96	-108.07	-102.27	
colind:	af13	48	14.34	-119	7.26	2841.0	wa	980634.90	980911.66	1.68	-96.90	-1.00	0.00	-9.65	-105.87	-99.75	
colind:	af14	48	14.59	-119	7.80	3012.0	wa	980624.10	980912.03	2.04	-102.73	-1.05	0.00	-4.75	-106.49	-100.01	

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gravity
Meter ID: w-147 Date: 10/23/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	di01	48	20.70	-119	10.86	2674.0	wa	980657.13	980921.20	2.05	-91.20	-0.96	0.00	-12.65	-102.76	-97.02	
colind:	di02	48	19.20	-119	9.14	2723.0	wa	980649.48	980918.95	2.00	-92.87	-0.97	0.00	-13.45	-105.29	-99.44	
colind:	di03	48	18.18	-119	8.26	2913.0	wa	980633.39	980917.41	1.65	-99.35	-1.02	0.00	-10.15	-108.88	-102.59	
colind:	di04	48	15.68	-119	8.37	3056.0	wa	980617.95	980913.67	4.12	-104.23	-1.06	0.00	-8.40	-109.56	-103.12	
colind:	di05	48	26.99	-119	7.71	3853.0	wa	980599.96	980930.63	1.93	-131.41	-1.23	0.00	31.57	-99.15	-90.83	
colind:	di06	48	28.15	-119	9.28	4438.0	wa	980570.93	980932.36	2.18	-151.37	-1.33	0.00	55.78	-94.74	-85.16	
colind:	di07	48	29.01	-119	10.17	4315.0	wa	980580.47	980933.65	2.06	-147.17	-1.31	0.00	52.47	-93.96	-84.63	
colind:	di08	48	28.96	-119	12.60	4512.0	wa	980569.95	980933.57	2.41	-153.89	-1.35	0.00	60.54	-92.28	-82.55	
colind:	di09	48	26.51	-119	7.52	3671.0	wa	980609.79	980929.91	2.04	-125.21	-1.20	0.00	25.01	-99.35	-91.43	
colind:	ok01	48	22.08	-119	33.56	916.0	wa	980759.18	980923.27	2.39	-31.24	-0.38	0.00	-77.95	-107.18	-105.32	
colind:	ok02	48	21.76	-119	34.55	832.0	wa	980763.67	980922.78	3.00	-28.38	-0.35	0.00	-80.88	-106.60	-104.96	
colind:	ok03	48	20.34	-119	36.09	832.0	wa	980760.19	980920.66	3.75	-28.38	-0.35	0.00	-82.23	-107.21	-105.62	
colind:	ok04	48	17.49	-119	42.33	858.0	wa	980755.50	980916.38	3.60	-29.26	-0.36	0.00	-80.20	-106.22	-104.57	
colind:	ok05	48	17.30	-119	42.17	841.0	wa	980756.76	980916.10	3.36	-28.68	-0.35	0.00	-80.26	-105.93	-104.30	
colind:	ok06	48	17.30	-119	41.45	820.0	wa	980756.14	980916.10	3.26	-27.97	-0.34	0.00	-82.85	-107.90	-106.31	
colind:	ok07	48	17.64	-119	41.04	832.0	wa	980755.74	980916.61	3.20	-28.38	-0.35	0.00	-82.63	-108.16	-106.53	
colind:	ok08	48	17.84	-119	40.74	857.0	wa	980753.57	980916.91	3.05	-29.23	-0.36	0.00	-82.75	-109.29	-107.60	
colind:	ok09	48	18.05	-119	40.22	845.0	wa	980753.89	980917.22	3.11	-28.82	-0.35	0.00	-83.87	-109.94	-108.28	
colind:	ok10	48	18.11	-119	39.52	833.0	wa	980753.88	980917.31	3.30	-28.41	-0.35	0.00	-85.10	-110.56	-108.94	

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gravity
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STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	ok11	48	18.34	-119	38.87	819.0	wa	980754.41	980917.66	3.54	-27.93	-0.34	0.00	-86.23	-110.97	-109.39	
colind:	ok12	48	21.78	-119	34.68	829.0	wa	980762.27	980922.81	2.94	-28.27	-0.35	0.00	-82.59	-108.27	-106.63	
colind:	ok13	48	23.13	-119	33.32	838.0	wa	980761.83	980924.84	2.84	-28.58	-0.35	0.00	-84.21	-110.30	-108.64	
colind:	ok14	48	24.16	-119	32.45	836.0	wa	980768.34	980926.38	2.81	-28.51	-0.35	0.00	-79.43	-105.48	-103.82	
colind:	ok15	48	24.37	-119	32.23	835.0	wa	980768.32	980926.70	2.80	-28.48	-0.35	0.00	-79.86	-105.89	-104.23	
colind:	ok16	48	24.60	-119	32.17	834.0	wa	980768.90	980927.04	2.72	-28.44	-0.35	0.00	-79.72	-105.79	-104.13	
colind:	t130	48	26.29	-118	24.71	2531.0	wa	980667.66	980929.57	10.67	-86.33	-0.92	0.00	-23.94	-100.51	-95.64	
colind:	t131	48	26.74	-118	25.91	2619.0	wa	980660.61	980930.25	10.96	-89.33	-0.94	0.00	-23.40	-102.71	-97.66	
colind:	t132	48	27.47	-118	28.12	2872.0	wa	980647.21	980931.34	7.65	-97.96	-1.01	0.00	-14.11	-105.42	-99.61	
colind:	t133	48	27.37	-118	28.65	3058.0	wa	980637.02	980931.19	5.74	-104.30	-1.06	0.00	-6.66	-106.28	-99.94	
colind:	t134	48	27.71	-118	29.82	3094.0	wa	980635.32	980931.70	8.30	-105.53	-1.07	0.00	-5.49	-103.78	-97.53	
colind:	t135	48	25.90	-118	23.45	2444.0	wa	980671.87	980928.99	11.15	-83.36	-0.89	0.00	-27.33	-100.43	-95.78	
colind:	wb10	47	55.83	-118	41.31	1297.0	wa	980706.94	980883.88	1.21	-44.24	-0.52	0.00	-54.99	-98.54	-95.77	
colind:	wb11	47	55.21	-118	41.29	1379.0	wa	980699.37	980882.95	1.68	-47.03	-0.55	0.00	-53.92	-99.83	-96.90	
colind:	wb12	47	54.89	-118	41.78	1542.0	wa	980687.67	980882.48	1.79	-52.59	-0.61	0.00	-49.81	-101.22	-97.95	
colind:	wb13	47	54.49	-118	41.59	1580.0	wa	980684.86	980881.88	1.87	-53.89	-0.62	0.00	-48.45	-101.09	-97.74	
colind:	wb14	47	53.89	-118	42.34	1516.0	wa	980686.42	980880.98	3.61	-51.71	-0.60	0.00	-52.00	-100.70	-97.60	
colind:	wb15	47	53.58	-118	42.79	1570.0	wa	980682.55	980880.51	2.25	-53.55	-0.62	0.00	-50.33	-102.25	-98.95	
colind:	wb16	47	53.00	-118	43.02	1620.0	wa	980677.80	980879.63	3.51	-55.25	-0.64	0.00	-49.51	-101.89	-98.56	
colind:	cd02	47	53.80	-118	59.09	2339.0	wa	980637.61	980880.84	0.43	-79.78	-0.86	0.00	-23.31	-103.52	-98.41	
colind:	cd03	47	53.04	-118	58.69	2353.0	wa	980635.69	980879.70	0.30	-80.25	-0.87	0.00	-22.77	-103.59	-98.45	
colind:	cd04	47	52.74	-118	57.54	2511.0	wa	980624.48	980879.25	0.37	-85.64	-0.91	0.00	-18.67	-104.86	-99.37	
colind:	cd05	47	52.46	-118	56.23	2629.0	wa	980617.84	980878.83	0.44	-89.67	-0.95	0.00	-13.80	-103.97	-98.23	
colind:	ln08	47	45.37	-118	25.11	2072.0	wa	980656.33	980868.18	1.05	-70.67	-0.78	0.00	-17.03	-87.43	-82.95	
colind:	ln09	47	47.90	-118	25.19	1660.0	wa	980681.76	980871.98	3.49	-56.62	-0.65	0.00	-34.13	-87.91	-84.49	
colind:	ln10	47	48.77	-118	25.88	1609.0	wa	980677.94	980873.28	1.87	-54.88	-0.63	0.00	-44.06	-97.70	-94.28	
colind:	ln11	47	49.61	-118	25.73	1540.0	wa	980691.26	980874.55	1.84	-52.52	-0.61	0.00	-38.48	-89.78	-86.51	

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gravity
Meter ID: w-147 Date: 10/23/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	ln12	47	50.08	-118	26.79	1536.0	wa	980693.93	980875.25	4.15	-52.39	-0.61	0.00	-36.89	-85.74	-82.63	
colind:	ln13	47	50.76	-118	27.46	1456.0	wa	980699.11	980876.27	4.14	-49.66	-0.58	0.00	-40.26	-86.36	-83.42	
colind:	ln14	47	51.59	-118	28.14	1580.0	wa	980691.53	980877.52	2.50	-53.89	-0.62	0.00	-37.42	-89.43	-86.12	
colind:	ln15	47	49.07	-118	29.40	2474.0	wa	980638.07	980873.73	0.73	-84.38	-0.90	0.00	-3.05	-87.60	-82.22	
colind:	wb17	47	48.99	-118	31.57	2527.0	wa	980631.54	980873.62	0.87	-86.19	-0.92	0.00	-4.48	-90.72	-85.23	
colind:	wb18	47	50.75	-118	32.51	2487.0	wa	980632.50	980876.26	0.53	-84.82	-0.91	0.00	-9.92	-95.12	-89.70	
colind:	ln16	47	46.85	-118	23.20	2397.0	wa	980638.94	980870.40	0.38	-81.76	-0.88	0.00	-6.09	-88.34	-83.11	
colind:	ln17	47	47.51	-118	23.24	2404.0	wa	980638.91	980871.39	0.69	-81.99	-0.88	0.00	-6.44	-88.63	-83.40	
colind:	ln18	47	46.42	-118	20.97	2457.0	wa	980637.36	980869.76	0.50	-83.80	-0.90	0.00	-1.38	-85.58	-80.22	
colind:	ln19	47	48.99	-118	18.91	1404.0	wa	980696.15	980873.62	1.90	-47.89	-0.56	0.00	-45.45	-92.00	-89.03	
colind:	ln20	47	48.81	-118	19.31	1363.0	wa	980699.72	980873.34	2.61	-46.49	-0.55	0.00	-45.46	-89.89	-87.06	
colind:	ln21	47	50.77	-118	19.68	1823.0	wa	980671.29	980876.29	1.38	-62.18	-0.70	0.00	-33.59	-95.09	-91.17	
colind:	ln22	47	52.36	-118	19.40	1850.0	wa	980670.39	980878.67	1.63	-63.10	-0.71	0.00	-34.33	-96.52	-92.56	
colind:	ln23	47	53.63	-118	16.30	1890.0	wa	980667.64	980880.59	1.35	-64.46	-0.73	0.00	-35.23	-99.07	-95.01	
colind:	ln24	47	54.06	-118	18.01	1671.0	wa	980683.16	980881.23	1.08	-56.99	-0.65	0.00	-40.94	-97.51	-93.91	
colind:	ln25	47	55.51	-118	19.59	1842.0	wa	980674.01	980883.41	1.31	-62.83	-0.71	0.00	-36.20	-98.43	-94.46	
colind:	ln26	47	58.12	-118	18.09	2307.0	wa	980652.03	980887.32	0.98	-78.68	-0.85	0.00	-18.38	-96.94	-91.94	
colind:	ln27	47	56.75	-118	18.92	2334.0	wa	980643.46	980885.27	2.39	-79.61	-0.86	0.00	-22.36	-100.43	-95.46	
colind:	wc01	48	0.65	-118	20.99	1953.0	wa	980678.49	980891.12	0.92	-66.61	-0.75	0.00	-29.00	-95.43	-91.20	
colind:	wc02	48	1.47	-118	16.77	2014.0	wa	980670.98	980892.35	0.84	-68.69	-0.77	0.00	-32.00	-100.62	-96.25	
colind:	wc03	48	0.85	-118	16.69	2107.0	wa	980666.25	980891.42	0.62	-71.86	-0.79	0.00	-27.06	-99.10	-94.51	
colind:	hu40	48	0.82	-118	13.02	1815.0	wa	980675.41	980891.38	1.15	-61.90	-0.70	0.00	-45.30	-106.76	-102.85	
colind:	hu41	48	1.57	-118	12.69	1958.0	wa	980667.89	980892.50	0.86	-66.78	-0.75	0.00	-40.51	-107.18	-102.93	
colind:	hu42	48	2.04	-118	12.99	1974.0	wa	980668.47	980893.20	0.75	-67.33	-0.75	0.00	-39.13	-106.46	-102.17	
colind:	cd06	47	55.43	-118	56.27	1521.0	wa	980686.17	980883.28	1.54	-51.88	-0.60	0.00	-54.09	-105.03	-101.79	
colind:	cd07	47	55.53	-118	54.92	1676.0	wa	980677.40	980883.44	1.17	-57.16	-0.66	0.00	-48.45	-105.10	-101.49	
colind:	cd08	47	55.97	-118	52.27	1963.0	wa	980670.37	980884.09	1.75	-66.95	-0.75	0.00	-29.16	-95.11	-90.91	
colind:	cd09	47	53.33	-118	56.18	2564.0	wa	980621.09	980880.13	0.53	-87.45	-0.93	0.00	-17.96	-105.81	-100.22	

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gravity
Meter ID: w-147 Date: 10/23/80

STATION IDENTIFICATION proj	sta-id	LOCATION LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	cd10	47	53.33	-118	54.89	2659.0	wa	980614.95	980880.13	0.81	-90.69	-0.95	0.00	-15.18	-106.01	-100.23	
colind:	cd11	47	53.33	-118	53.56	2667.0	wa	980615.41	980880.13	0.82	-90.96	-0.96	0.00	-13.96	-105.06	-99.26	
colind:	cd12	47	53.33	-118	52.28	2709.0	wa	980613.21	980880.13	1.08	-92.40	-0.97	0.00	-12.22	-104.50	-98.63	
colind:	cd13	47	53.34	-118	50.99	2698.0	wa	980612.23	980880.15	1.33	-92.02	-0.96	0.00	-14.24	-105.90	-100.06	
colind:	cd14	47	54.08	-118	51.61	2630.0	wa	980615.22	980881.26	1.14	-89.70	-0.95	0.00	-18.76	-108.27	-102.57	
colind:	di16	48	18.05	-119	10.26	2995.0	wa	980632.94	980917.22	1.32	-102.15	-1.04	0.00	-2.70	-104.57	-98.09	
colind:	di17	48	17.19	-119	11.55	3444.0	wa	980605.93	980915.93	1.46	-117.46	-1.15	0.00	13.79	-103.37	-95.91	
colind:	di18	48	15.80	-119	12.84	2992.0	wa	980632.18	980913.85	2.27	-102.05	-1.04	0.00	-0.37	-101.19	-94.77	
colind:	di19	48	15.42	-119	10.44	3036.0	wa	980624.64	980913.28	2.49	-103.55	-1.05	0.00	-3.20	-105.31	-98.81	
colind:	di20	48	26.67	-119	5.74	3449.0	wa	980616.89	980930.14	2.10	-117.64	-1.15	0.00	11.01	-105.68	-98.25	
colind:	di21	48	28.11	-119	4.91	3633.0	wa	980603.87	980932.30	2.38	-123.91	-1.19	0.00	13.12	-109.60	-101.79	
colind:	di22	48	28.07	-119	1.53	3231.0	wa	980626.04	980932.24	1.77	-110.20	-1.10	0.00	-2.43	-111.96	-104.99	
colind:	di23	48	27.90	-119	2.14	3215.0	wa	980627.27	980931.98	2.09	-109.65	-1.10	0.00	-2.45	-111.11	-104.19	
colind:	di24	48	29.81	-119	1.25	3231.0	wa	980627.17	980934.84	1.62	-110.20	-1.10	0.00	-3.91	-113.59	-106.60	
colind:	di25	48	29.55	-119	3.24	3671.0	wa	980603.30	980934.46	2.01	-125.21	-1.20	0.00	13.96	-110.43	-102.51	
colind:	di26	48	25.42	-119	4.38	3534.0	wa	980607.38	980928.27	2.75	-120.53	-1.17	0.00	11.36	-107.59	-100.02	
colind:	di27	48	24.94	-119	6.54	3510.0	wa	980612.94	980927.55	1.62	-119.72	-1.16	0.00	15.38	-103.88	-96.29	
colind:	af09	48	12.49	-119	10.10	2387.0	wa	980660.11	980908.88	1.02	-81.41	-0.88	0.00	-24.34	-105.61	-100.44	
colind:	af10	48	11.63	-119	10.10	2438.0	wa	980668.29	980907.59	0.84	-83.15	-0.89	0.00	-10.08	-93.29	-87.99	
colind:	af15	48	8.17	-119	11.94	1398.0	wa	980715.96	980902.41	1.65	-47.68	-0.56	0.00	-54.99	-101.58	-98.62	
colind:	af16	48	8.24	-119	11.48	1398.0	wa	980715.27	980902.51	1.96	-47.68	-0.56	0.00	-55.78	-102.06	-99.12	
colind:	af17	48	8.99	-119	11.41	1446.0	wa	980712.93	980903.63	2.46	-49.32	-0.58	0.00	-54.74	-102.17	-99.15	
colind:	af18	48	7.03	-119	13.17	945.0	wa	980743.05	980900.70	2.21	-32.23	-0.39	0.00	-68.79	-99.20	-97.26	
colind:	bm01	48	7.52	-119	15.53	1287.0	wa	980725.54	980901.43	1.77	-43.90	-0.52	0.00	-54.87	-97.52	-94.80	
colind:	bm02	48	7.86	-119	17.36	1374.0	wa	980721.66	980901.94	1.69	-46.86	-0.55	0.00	-51.08	-96.80	-93.89	
colind:	bm03	48	8.94	-119	18.87	1273.0	wa	980729.35	980903.56	2.80	-43.42	-0.51	0.00	-54.51	-95.64	-93.02	
colind:	bm04	48	10.25	-119	20.24	1228.0	wa	980734.07	980905.52	1.94	-41.88	-0.50	0.00	-55.99	-96.43	-93.85	
colind:	bm05	48	11.83	-119	21.22	1289.0	wa	980733.06	980907.90	2.28	-43.96	-0.52	0.00	-53.63	-95.83	-93.14	
colind:	bm06	48	13.16	-119	21.81	1369.0	wa	980728.99	980909.89	2.34	-46.69	-0.55	0.00	-52.17	-97.07	-94.21	
colind:	bm07	48	14.62	-119	22.91	1384.0	wa	980728.52	980912.08	3.24	-47.20	-0.55	0.00	-53.42	-97.94	-95.10	
colind:	ol01	48	15.04	-119	23.39	1419.0	wa	980727.09	980912.71	3.43	-48.40	-0.57	0.00	-52.19	-97.72	-94.82	

BOUGUER GRAVITY DATA

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gravity
Meter ID: w-147 Date: 10/23/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	GRAVITY THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	bm08	48	14.78	-119	21.97	1056.0	wa	980749.11	980912.32	3.08	-36.02	-0.43	0.00	-63.91	-97.28	-95.16	
colind:	bm09	48	14.65	-119	20.87	970.0	wa	980753.56	980912.13	3.54	-33.08	-0.40	0.00	-67.35	-97.30	-95.39	
colind:	bm10	48	14.67	-119	19.59	999.0	wa	980749.62	980912.16	4.65	-34.07	-0.41	0.00	-68.60	-98.43	-96.53	
colind:	bm11	48	14.05	-119	18.78	1157.0	wa	980737.80	980911.23	5.23	-39.46	-0.47	0.00	-64.63	-99.34	-97.13	
colind:	bm12	48	13.78	-119	17.55	1206.0	wa	980736.26	980910.82	3.34	-41.13	-0.49	0.00	-61.16	-99.44	-97.01	
colind:	bm13	48	12.95	-119	16.87	1243.0	wa	980733.46	980909.58	3.00	-42.40	-0.50	0.00	-59.23	-99.13	-96.59	
colind:	bm14	48	12.28	-119	17.27	1247.0	wa	980733.77	980908.57	3.52	-42.53	-0.51	0.00	-57.54	-97.06	-94.54	
colind:	bm15	48	11.89	-119	18.48	1281.0	wa	980732.45	980907.98	3.30	-43.69	-0.52	0.00	-55.08	-95.99	-93.38	
colind:	bm16	48	11.69	-119	19.44	1246.0	wa	980734.67	980907.69	2.80	-42.50	-0.51	0.00	-55.85	-96.05	-93.49	
colind:	bm17	48	11.08	-119	20.70	1271.0	wa	980731.96	980906.77	1.60	-43.35	-0.51	0.00	-55.30	-97.56	-94.87	
colind:	bm18	48	9.66	-119	19.49	1236.0	wa	980733.04	980904.64	3.21	-42.16	-0.50	0.00	-55.38	-94.83	-92.32	
colind:	bm19	48	13.49	-119	15.47	1635.0	wa	980711.58	980910.38	2.05	-55.77	-0.64	0.00	-45.07	-99.43	-95.97	
colind:	a122	48	13.76	-119	14.76	1894.0	wa	980696.38	980910.79	1.76	-64.60	-0.73	0.00	-36.32	-99.89	-95.84	
colind:	a123	48	14.94	-119	13.03	2521.0	wa	980657.95	980912.56	1.60	-85.98	-0.92	0.00	-17.58	-102.88	-97.45	
colind:	bm20	48	9.28	-119	28.40	2553.0	wa	980657.38	980904.07	0.61	-87.07	-0.93	0.00	-6.65	-94.04	-88.48	
colind:	bm21	48	8.75	-119	27.25	2445.0	wa	980661.42	980903.27	0.45	-83.39	-0.89	0.00	-11.97	-95.80	-90.47	
colind:	bm22	48	9.13	-119	25.06	2414.0	wa	980660.94	980903.84	0.52	-82.33	-0.89	0.00	-15.94	-98.64	-93.37	
colind:	bm23	48	8.63	-119	23.04	2186.0	wa	980674.14	980903.09	0.56	-74.56	-0.82	0.00	-23.42	-98.23	-93.47	
colind:	bm24	48	9.66	-119	22.62	2039.0	wa	980684.24	980904.64	1.56	-69.54	-0.77	0.00	-28.68	-97.44	-93.06	
colind:	bm25	48	13.02	-119	24.14	2666.0	wa	980650.98	980909.68	1.58	-90.93	-0.96	0.00	-8.04	-98.34	-92.59	
colind:	bm26	48	13.70	-119	24.57	2719.0	wa	980648.40	980910.70	1.77	-92.74	-0.97	0.00	-6.66	-98.60	-92.74	
colind:	bm27	48	14.68	-119	25.62	2776.0	wa	980647.08	980912.17	1.60	-94.68	-0.99	0.00	-4.09	-98.16	-92.17	
colind:	bm28	48	12.45	-119	25.29	2803.0	wa	980641.60	980908.83	1.06	-95.60	-0.99	0.00	-3.69	-99.22	-93.14	
colind:	bm29	48	12.51	-119	25.22	2808.0	wa	980640.90	980908.91	1.11	-95.77	-0.99	0.00	-4.01	-99.66	-93.57	
colind:	bm31	48	12.06	-119	25.62	2733.0	wa	980646.42	980908.24	0.89	-93.21	-0.97	0.00	-4.86	-98.16	-92.22	
colind:	bm32	48	8.64	-119	23.04	2683.0	wa	980650.63	980903.11	8.93	-91.51	-0.96	0.00	-0.22	-83.76	-78.44	
colind:	bm33	48	12.00	-119	27.58	2637.0	wa	980655.71	980908.15	0.49	-89.94	-0.95	0.00	-4.50	-94.90	-89.15	
colind:	bm34	48	12.75	-119	29.49	2587.0	wa	980656.97	980909.27	0.39	-88.24	-0.93	0.00	-9.07	-97.85	-92.20	
colind:	bm35	48	14.72	-119	29.51	2581.0	wa	980658.15	980912.23	0.58	-88.03	-0.93	0.00	-11.41	-99.79	-94.17	
colind:	bm36	48	13.87	-119	29.50	2517.0	wa	980661.44	980910.95	0.72	-85.85	-0.92	0.00	-12.86	-98.91	-93.43	
colind:	bm37	48	11.66	-119	29.52	2633.0	wa	980656.62	980907.64	0.49	-89.80	-0.95	0.00	-3.46	-93.73	-87.98	
colind:	bm38	48	10.43	-119	29.56	2507.0	wa	980664.32	980905.80	0.37	-85.51	-0.91	0.00	-5.76	-91.81	-86.33	
colind:	bm39	48	9.08	-119	29.64	2449.0	wa	980662.22	980903.77	0.40	-83.53	-0.90	0.00	-11.29	-95.31	-89.96	
colind:	bm40	48	8.34	-119	26.67	2470.0	wa	980659.64	980902.66	0.80	-84.25	-0.90	0.00	-10.78	-95.13	-89.76	

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gravity
Meter ID: w-147 Date: 10/23/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	bm41	48	6.23	-119	22.70	2343.0	wa	980663.06	980899.49	0.67	-79.91	-0.87	0.00	-16.13	-96.04	-90.96	
colind:	bm42	48	5.73	-119	23.33	2264.0	wa	980667.94	980898.74	0.73	-77.22	-0.84	0.00	-17.94	-95.27	-90.34	
colind:	bm43	48	5.55	-119	24.13	2264.0	wa	980669.07	980898.48	0.92	-77.22	-0.84	0.00	-16.53	-93.67	-88.76	
colind:	bm44	48	9.11	-119	20.94	1411.0	wa	980723.36	980903.81	1.75	-48.12	-0.56	0.00	-47.78	-94.72	-91.73	
colind:	bm45	48	9.03	-119	19.46	1213.0	wa	980733.48	980903.70	2.14	-41.37	-0.49	0.00	-56.15	-95.88	-93.35	
colind:	bm46	48	8.25	-119	19.43	1203.0	wa	980732.90	980902.52	2.14	-41.03	-0.49	0.00	-56.51	-95.89	-93.38	
colind:	bm47	48	7.86	-119	19.06	1191.0	wa	980733.45	980901.94	1.78	-40.62	-0.48	0.00	-56.49	-95.82	-93.32	
colind:	bm48	48	7.15	-119	18.85	1172.0	wa	980735.67	980900.88	1.73	-39.97	-0.48	0.00	-55.00	-93.72	-91.25	
colind:	bm49	48	3.81	-119	21.12	1229.0	wa	980732.64	980895.86	1.54	-41.92	-0.50	0.00	-47.66	-88.53	-85.93	
colind:	bm50	48	3.80	-119	20.08	1089.0	wa	980739.28	980895.85	2.10	-37.14	-0.45	0.00	-54.17	-89.66	-87.40	
colind:	bm51	48	3.64	-119	19.91	1008.0	wa	980742.97	980895.61	2.74	-34.38	-0.42	0.00	-57.85	-89.91	-87.87	
colind:	bm52	48	3.48	-119	21.44	1222.0	wa	980729.86	980895.37	2.06	-41.68	-0.50	0.00	-50.60	-90.72	-88.16	
colind:	bm53	48	3.99	-119	25.02	1069.0	wa	980738.72	980896.13	2.82	-36.46	-0.44	0.00	-56.89	-90.97	-88.80	
colind:	bm54	48	5.55	-119	26.93	1376.0	wa	980723.25	980898.48	1.19	-46.93	-0.55	0.00	-45.84	-92.13	-89.19	
colind:	bm55	48	6.02	-119	27.14	1432.0	wa	980719.81	980899.18	1.27	-48.84	-0.57	0.00	-44.72	-92.86	-89.79	
colind:	bm56	48	10.46	-119	19.54	1427.0	wa	980722.83	980905.84	2.75	-48.67	-0.57	0.00	-48.83	-95.32	-92.36	
colind:	bm57	48	10.23	-119	17.69	2684.0	wa	980646.35	980905.49	3.21	-91.54	-0.96	0.00	-6.79	-96.09	-90.40	
colind:	bm58	48	10.11	-119	17.21	2807.0	wa	980638.56	980905.31	3.40	-95.74	-0.99	0.00	-2.84	-96.17	-90.23	
colind:	bm59	48	9.76	-119	17.12	3015.0	wa	980624.77	980904.79	4.20	-102.83	-1.05	0.00	3.45	-96.23	-89.88	
colind:	bm60	48	9.57	-119	15.86	2875.0	wa	980632.78	980904.51	3.55	-98.06	-1.01	0.00	-1.42	-96.94	-90.86	
colind:	bm62	48	8.21	-119	15.56	1865.0	wa	980691.07	980902.46	2.24	-63.61	-0.72	0.00	-36.04	-98.12	-94.17	
colind:	bm63	48	6.99	-119	16.07	1246.0	wa	980726.96	980900.63	1.43	-42.50	-0.51	0.00	-56.51	-98.08	-95.44	
colind:	bm64	48	6.57	-119	15.41	1031.0	wa	980739.57	980900.01	2.14	-35.16	-0.43	0.00	-63.49	-96.94	-94.81	
colind:	bm65	48	14.40	-119	17.68	1392.0	wa	980727.98	980911.75	3.20	-47.48	-0.56	0.00	-52.88	-97.71	-94.86	

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Meter ID: w-147 Date: 10/23/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	o102	48	15.56	-119	16.75	2287.0	wa	980676.89	980913.49	2.26	-78.00	-0.85	0.00	-21.57	-98.16	-93.28	
colind:	o103	48	15.99	-119	15.35	2549.0	wa	980662.01	980914.13	1.95	-86.94	-0.92	0.00	-12.46	-98.38	-92.91	
colind:	o104	48	16.13	-119	16.49	2573.0	wa	980662.62	980914.34	1.77	-87.76	-0.93	0.00	-9.81	-96.73	-91.19	
colind:	o105	48	16.45	-119	15.99	2733.0	wa	980652.49	980914.82	2.03	-93.21	-0.97	0.00	-5.37	-97.53	-91.67	
colind:	o106	48	16.37	-119	18.18	2781.0	wa	980651.28	980914.70	2.19	-94.85	-0.99	0.00	-1.95	-95.60	-89.64	
colind:	o107	48	16.92	-119	19.04	3174.0	wa	980629.13	980915.53	3.03	-108.26	-1.09	0.00	12.02	-94.29	-87.53	
colind:	o108	48	16.89	-119	19.29	3179.0	wa	980628.42	980915.48	3.36	-108.43	-1.09	0.00	11.82	-94.33	-87.57	
colind:	o109	48	17.42	-119	19.33	3172.0	wa	980630.76	980916.28	2.73	-108.19	-1.09	0.00	12.70	-93.84	-87.06	
colind:	o110	48	17.33	-119	20.46	3088.0	wa	980634.30	980916.14	4.19	-105.32	-1.06	0.00	8.48	-93.72	-87.21	
colind:	o111	48	19.45	-119	21.04	3131.0	wa	980639.49	980919.32	3.27	-106.79	-1.08	0.00	14.54	-90.05	-83.39	
colind:	o112	48	18.78	-119	20.60	3621.0	wa	980606.13	980918.32	5.94	-123.50	-1.19	0.00	28.24	-90.51	-82.95	
colind:	o113	48	18.28	-119	21.12	3012.0	wa	980643.03	980917.57	4.09	-102.73	-1.05	0.00	8.65	-91.04	-84.69	
colind:	o114	48	21.27	-119	17.93	2384.0	wa	980687.75	980922.05	1.26	-81.31	-0.88	0.00	-10.15	-91.08	-85.93	
colind:	o115	48	20.62	-119	18.13	2309.0	wa	980691.56	980921.08	1.50	-78.75	-0.86	0.00	-12.41	-90.52	-85.55	
colind:	o116	48	19.94	-119	19.26	2411.0	wa	980684.57	980920.05	1.58	-82.23	-0.89	0.00	-8.80	-90.34	-85.14	
colind:	o117	48	20.95	-119	17.70	2300.0	wa	980691.69	980921.57	1.54	-78.45	-0.85	0.00	-13.63	-91.39	-86.44	
colind:	o118	48	21.47	-119	15.93	2580.0	wa	980672.44	980922.35	1.50	-88.00	-0.93	0.00	-7.34	-94.77	-89.20	
colind:	o119	48	20.86	-119	15.63	2762.0	wa	980659.77	980921.44	1.23	-94.20	-0.98	0.00	-1.98	-95.93	-89.95	
colind:	o120	48	19.89	-119	15.51	3043.0	wa	980642.12	980919.98	1.34	-103.79	-1.05	0.00	8.23	-95.27	-88.68	
colind:	o121	48	19.70	-119	15.63	3081.0	wa	980638.68	980919.70	1.42	-105.08	-1.06	0.00	8.65	-96.07	-89.41	
colind:	o122	48	20.97	-119	15.23	2792.0	wa	980659.71	980921.60	1.27	-95.23	-0.99	0.00	0.61	-94.33	-88.29	
colind:	di28	48	22.41	-119	14.91	2645.0	wa	980667.66	980923.76	1.65	-90.21	-0.95	0.00	-7.41	-96.92	-91.22	

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	o123	48	23.18	-119	15.60	2797.0	wa	980659.64	980924.91	2.20	-95.40	-0.99	0.00	-2.30	-96.49	-90.49	
colind:	o124	48	23.26	-119	16.05	2893.0	wa	980657.66	980925.03	1.99	-98.67	-1.02	0.00	4.63	-93.07	-86.85	
colind:	o125	48	24.14	-119	18.01	3683.0	wa	980613.47	980926.35	3.06	-125.62	-1.20	0.00	33.37	-90.38	-82.51	
colind:	o126	48	24.05	-119	18.77	3524.0	wa	980617.82	980926.22	3.51	-120.19	-1.16	0.00	22.91	-94.94	-87.43	
colind:	o127	48	24.02	-119	17.45	3619.0	wa	980616.23	980926.17	2.59	-123.43	-1.19	0.00	30.30	-91.73	-83.96	
colind:	o129	48	15.74	-119	28.48	2710.0	wa	980653.13	980913.76	0.96	-92.43	-0.97	0.00	-5.83	-98.27	-92.38	
colind:	o130	48	15.88	-119	28.05	2803.0	wa	980649.20	980913.97	0.94	-95.60	-0.99	0.00	-1.23	-96.88	-90.79	
colind:	o131	48	16.36	-119	27.23	2939.0	wa	980639.96	980914.69	2.12	-100.24	-1.03	0.00	1.60	-97.55	-91.24	
colind:	o132	48	15.62	-119	26.26	2856.0	wa	980642.36	980913.58	1.97	-97.41	-1.01	0.00	-2.70	-99.15	-93.01	
colind:	o133	48	16.30	-119	26.50	2871.0	wa	980643.42	980914.60	2.67	-97.92	-1.01	0.00	-1.25	-97.51	-91.38	
colind:	o134	48	15.97	-119	25.64	2587.0	wa	980655.55	980914.10	3.32	-88.24	-0.93	0.00	-15.32	-101.17	-95.71	
colind:	o135	48	17.94	-119	28.41	2648.0	wa	980658.57	980917.05	2.03	-90.32	-0.95	0.00	-9.52	-98.76	-93.08	
colind:	o136	48	19.28	-119	29.42	2617.0	wa	980662.90	980919.06	2.03	-89.26	-0.94	0.00	-10.12	-98.29	-92.67	
colind:	o137	48	18.63	-119	29.46	2753.0	wa	980653.67	980918.09	1.73	-93.90	-0.98	0.00	-5.58	-98.73	-92.80	
colind:	o138	48	18.11	-119	29.84	2778.0	wa	980652.31	980917.31	1.27	-94.75	-0.99	0.00	-3.81	-98.28	-92.26	
colind:	o139	48	17.57	-119	29.86	2774.0	wa	980651.27	980916.50	1.09	-94.61	-0.99	0.00	-4.42	-98.93	-92.91	
colind:	o140	48	17.39	-119	29.55	2833.0	wa	980648.05	980916.23	1.11	-96.63	-1.00	0.00	-1.83	-98.34	-92.20	
colind:	o141	48	16.83	-119	29.02	2767.0	wa	980651.55	980915.39	0.97	-94.37	-0.98	0.00	-3.69	-98.08	-92.07	
colind:	o142	48	16.46	-119	29.17	2752.0	wa	980650.31	980914.84	0.90	-93.86	-0.98	0.00	-5.78	-99.72	-93.74	
colind:	o143	48	16.19	-119	29.47	2751.0	wa	980650.72	980914.43	0.81	-93.83	-0.98	0.00	-5.07	-99.06	-93.08	
colind:	o144	48	15.58	-119	29.29	2818.0	wa	980644.28	980913.52	0.86	-96.11	-1.00	0.00	-4.29	-100.54	-94.41	
colind:	d129	48	21.92	-119	14.53	2521.0	wa	980675.71	980923.02	1.63	-85.98	-0.92	0.00	-10.29	-95.56	-90.13	
colind:	o145	48	21.93	-119	15.45	2501.0	wa	980678.25	980923.04	1.61	-85.30	-0.91	0.00	-9.64	-94.24	-88.86	
colind:	o146	48	22.03	-119	17.89	2466.0	wa	980685.97	980923.19	1.57	-84.11	-0.90	0.00	-5.36	-88.80	-83.49	
colind:	o147	48	22.08	-119	19.28	2297.0	wa	980694.94	980923.27	1.55	-78.34	-0.85	0.00	-12.35	-90.00	-85.06	
colind:	o148	48	22.20	-119	20.43	2100.0	wa	980707.56	980923.45	2.15	-71.62	-0.79	0.00	-18.43	-88.70	-84.22	
colind:	o149	48	22.50	-119	21.77	2177.0	wa	980703.70	980923.89	1.30	-74.25	-0.82	0.00	-15.50	-89.27	-84.57	
colind:	o150	48	22.51	-119	23.58	2012.0	wa	980713.76	980923.91	1.55	-68.62	-0.76	0.00	-20.97	-88.81	-84.49	
colind:	o151	48	22.93	-119	25.20	1660.0	wa	980734.25	980924.54	2.05	-56.62	-0.65	0.00	-34.20	-89.42	-85.90	

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STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	o152	48	27.57	-119	27.85	903.0	wa	980776.37	980931.49	4.46	-30.80	-0.38	0.00	-70.21	-96.93	-95.23	
colind:	o153	48	28.29	-119	28.41	863.0	wa	980777.76	980932.57	4.93	-29.43	-0.36	0.00	-73.66	-98.53	-96.94	
colind:	o154	48	28.61	-119	27.72	893.0	wa	980777.79	980930.05	3.43	-30.46	-0.37	0.00	-68.29	-95.69	-93.95	
colind:	o155	48	23.56	-119	27.51	1246.0	wa	980757.02	980925.48	1.84	-42.50	-0.51	0.00	-51.30	-92.46	-89.84	
colind:	o156	48	23.31	-119	26.38	1420.0	wa	980747.51	980925.11	2.18	-48.43	-0.57	0.00	-44.08	-90.90	-87.92	
colind:	o157	48	22.85	-119	27.06	1170.0	wa	980759.79	980924.41	2.47	-39.91	-0.48	0.00	-54.61	-92.52	-90.11	
colind:	o158	48	21.36	-119	26.39	1180.0	wa	980755.50	980922.19	4.49	-40.25	-0.48	0.00	-55.73	-91.97	-89.66	
colind:	o159	48	20.85	-119	26.48	1132.0	wa	980757.68	980921.42	4.72	-38.61	-0.46	0.00	-57.30	-91.65	-89.46	
colind:	o160	48	19.65	-119	25.53	1008.0	wa	980770.15	980919.62	5.60	-34.38	-0.42	0.00	-54.69	-83.88	-82.03	
colind:	o161	48	19.20	-119	25.13	1069.0	wa	980753.84	980918.95	6.18	-36.46	-0.44	0.00	-64.58	-95.30	-93.35	
colind:	o162	48	23.70	-119	29.79	966.0	wa	980768.45	980925.70	2.28	-32.95	-0.40	0.00	-66.40	-97.47	-95.49	
colind:	o163	48	25.01	-119	29.64	997.0	wa	980766.16	980927.66	1.75	-34.01	-0.41	0.00	-67.74	-100.41	-98.33	
colind:	o164	48	25.43	-119	29.00	1054.0	wa	980762.89	980928.28	1.83	-35.95	-0.43	0.00	-66.28	-100.84	-98.64	
colind:	o165	48	26.29	-119	29.00	1089.0	wa	980761.70	980929.57	1.82	-37.14	-0.45	0.00	-65.47	-101.24	-98.96	
colind:	o166	48	27.18	-119	28.99	1135.0	wa	980762.94	980930.91	2.13	-38.71	-0.46	0.00	-61.24	-98.29	-95.93	
colind:	o167	48	28.06	-119	29.59	1228.0	wa	980758.22	980932.23	1.89	-41.88	-0.50	0.00	-58.54	-99.03	-96.45	
colind:	o168	48	26.76	-119	29.61	1167.0	wa	980761.23	980930.27	1.58	-39.80	-0.48	0.00	-59.31	-98.01	-95.54	
colind:	o169	48	20.50	-119	28.44	1403.0	wa	980735.75	980920.90	5.39	-47.85	-0.56	0.00	-53.22	-96.25	-93.51	
colind:	o170	48	19.76	-119	27.95	1392.0	wa	980734.24	980919.79	5.39	-47.48	-0.56	0.00	-54.66	-97.30	-94.58	
colind:	o171	48	18.60	-119	26.74	1333.0	wa	980736.67	980918.05	4.71	-45.46	-0.54	0.00	-56.03	-97.32	-94.69	
colind:	o172	48	18.48	-119	26.48	1357.0	wa	980734.62	980917.87	4.92	-46.28	-0.55	0.00	-55.65	-97.56	-94.89	
colind:	o173	48	17.15	-119	25.29	1348.0	wa	980731.85	980915.88	5.88	-45.98	-0.54	0.00	-57.27	-97.91	-95.32	
colind:	o174	48	20.99	-119	29.89	1754.0	wa	980714.48	980921.63	3.29	-59.82	-0.68	0.00	-42.22	-99.44	-95.79	
colind:	o175	48	22.51	-119	28.65	1511.0	wa	980738.13	980923.91	1.41	-51.54	-0.60	0.00	-43.70	-94.42	-91.19	
colind:	o176	48	22.25	-119	28.38	1645.0	wa	980730.33	980923.52	1.55	-56.11	-0.65	0.00	-38.51	-93.72	-90.20	
colind:	o177	48	22.12	-119	28.18	1728.0	wa	980725.44	980923.32	1.68	-58.94	-0.67	0.00	-35.41	-93.34	-89.65	
colind:	o178	48	21.93	-119	27.88	1824.0	wa	980719.42	980923.04	2.54	-62.21	-0.70	0.00	-32.11	-92.49	-88.64	
colind:	br01	48	9.46	-119	30.81	2497.0	wa	980660.74	980904.34	0.36	-85.17	-0.91	0.00	-8.82	-94.54	-89.08	
colind:	br02	48	8.62	-119	30.81	2485.0	wa	980658.19	980903.08	0.44	-84.76	-0.91	0.00	-11.25	-96.47	-91.04	

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gravity
Meter ID: w-147 Date: 10/23/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	br03	48	8.01	-119	32.35	2578.0	wa	980654.24	980903.06	0.74	-87.93	-0.93	0.00	-6.44	-94.56	-88.95	
colind:	br04	48	8.58	-119	33.69	2504.0	wa	980657.47	980903.02	0.60	-85.40	-0.91	0.00	-10.12	-95.84	-90.38	
colind:	br05	48	8.16	-119	34.70	2500.0	wa	980659.35	980902.39	1.06	-85.27	-0.91	0.00	-7.98	-93.10	-87.68	
colind:	br07	48	6.85	-119	34.73	2450.0	wa	980660.08	980900.42	0.90	-83.56	-0.90	0.00	-9.99	-93.55	-88.23	
colind:	br08	48	6.30	-119	36.12	2448.0	wa	980659.56	980899.60	2.48	-83.49	-0.90	0.00	-9.87	-91.78	-86.56	
colind:	br09	48	7.01	-119	33.40	2520.0	wa	980656.63	980900.66	0.77	-85.95	-0.92	0.00	-7.09	-93.19	-87.71	
colind:	br10	48	6.44	-119	32.10	2494.0	wa	980656.27	980899.81	0.97	-85.06	-0.91	0.00	-9.04	-94.05	-88.63	
colind:	br11	48	7.73	-119	30.80	2468.0	wa	980658.86	980901.74	0.63	-84.18	-0.90	0.00	-10.84	-95.28	-89.91	
colind:	ok18	48	15.37	-119	33.90	2589.0	wa	980659.92	980913.20	0.75	-88.30	-0.94	0.00	-9.86	-98.35	-92.71	
colind:	br12	48	14.56	-119	34.35	2418.0	wa	980671.40	980911.99	1.00	-82.47	-0.89	0.00	-13.24	-95.60	-90.36	
colind:	br13	48	11.79	-119	33.42	2405.0	wa	980671.94	980907.84	0.43	-82.03	-0.88	0.00	-9.77	-92.26	-87.00	
colind:	br14	48	9.48	-119	33.39	2559.0	wa	980655.55	980904.37	0.75	-87.28	-0.93	0.00	-8.22	-95.68	-90.11	
colind:	ok19	48	16.78	-119	42.20	819.0	wa	980755.97	980915.32	3.30	-27.93	-0.34	0.00	-82.34	-107.31	-105.72	
colind:	br15	48	14.45	-119	43.48	873.0	wa	980754.56	980911.83	2.72	-29.78	-0.36	0.00	-75.17	-102.59	-100.85	
colind:	br16	48	9.59	-119	39.76	815.0	wa	980760.36	980904.53	2.10	-27.80	-0.34	0.00	-67.54	-93.58	-91.92	
colind:	br17	48	8.33	-119	40.08	813.0	wa	980760.16	980902.65	2.11	-27.73	-0.34	0.00	-66.03	-91.99	-90.34	
colind:	br18	48	7.75	-119	40.09	1019.0	wa	980748.87	980901.77	1.57	-34.76	-0.42	0.00	-57.09	-90.69	-88.56	
colind:	br19	48	7.30	-119	39.40	1228.0	wa	980735.63	980901.10	0.94	-41.88	-0.50	0.00	-50.00	-91.44	-88.80	
colind:	br20	48	7.20	-119	37.99	1338.0	wa	980731.47	980900.95	1.24	-45.64	-0.54	0.00	-43.67	-88.60	-85.74	
colind:	br21	48	6.40	-119	39.17	1194.0	wa	980734.87	980899.75	0.87	-40.72	-0.49	0.00	-52.61	-92.95	-90.38	
colind:	br22	48	6.03	-119	38.52	1266.0	wa	980735.00	980899.20	1.11	-43.18	-0.51	0.00	-45.15	-87.73	-85.02	
colind:	br23	48	6.21	-119	41.14	872.0	wa	980756.33	980899.46	1.20	-28.04	-0.34	0.00	-65.84	-93.02	-91.29	
colind:	br24	48	1.69	-119	40.57	897.0	wa	980747.61	980892.68	2.36	-30.59	-0.37	0.00	-60.72	-89.33	-87.51	
colind:	br25	48	0.74	-119	39.80	921.0	wa	980746.83	980891.26	2.16	-31.41	-0.38	0.00	-57.82	-87.46	-85.57	
colind:	br26	48	2.30	-119	35.26	1295.0	wa	980735.98	980893.59	1.52	-44.17	-0.52	0.00	-35.84	-79.01	-76.27	
colind:	br27	48	2.65	-119	34.68	1163.0	wa	980738.41	980894.13	1.78	-39.67	-0.47	0.00	-46.35	-84.71	-82.27	
colind:	ok20	48	15.55	-119	43.24	876.0	wa	980752.21	980913.48	2.96	-29.88	-0.37	0.00	-78.89	-106.17	-104.44	
colind:	ok21	48	18.38	-119	37.82	846.0	wa	980757.86	980917.72	4.22	-28.85	-0.35	0.00	-80.31	-105.29	-103.70	
colind:	o179	48	22.04	-119	29.38	1316.0	wa	980746.72	980923.20	2.13	-44.89	-0.53	0.00	-52.74	-96.03	-93.27	
colind:	o180	48	25.06	-119	26.38	1624.0	wa	980737.60	980927.73	2.71	-55.39	-0.64	0.00	-37.43	-90.74	-87.35	
colind:	o181	48	25.52	-119	24.43	2104.0	wa	980710.83	980928.42	2.34	-71.76	-0.79	0.00	-19.76	-89.98	-85.51	
colind:	o182	48	26.56	-119	22.86	2746.0	wa	980674.65	980929.98	2.35	-93.66	-0.98	0.00	2.85	-89.44	-83.56	

col ind res gravity
stations&bases
Meter ID: w-90 Date: 10/23/80

STATION IDENTIFICATION prol	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	k-11	48	3.32	-118	32.10	2377.0	wa	980650.73	980895.13	1.11	-81.07 -0.88	0.00	-16.90	-97.74	-92.59	
colind:	k-12	48	14.57	-118	32.40	4032.0	wa	980558.85	980912.01	4.92	-137.52 -1.27	0.00	25.90	-107.96	-99.44	
colind:	k-13	48	14.52	-118	30.53	3848.0	wa	980569.25	980911.93	4.16	-131.24 -1.23	0.00	19.08	-109.23	-101.06	
colind:	base16	48	14.78	-118	29.58	3838.0	wa	980571.04	980912.32	3.05	-130.90 -1.23	0.00	19.54	-109.54	-101.32	
colind:	wc18	48	13.01	-118	28.25	3809.0	wa	980572.63	980909.66	3.46	-129.91 -1.22	0.00	21.06	-106.61	-98.48	
colind:	wc20	48	10.85	-118	27.98	4686.0	wa	980515.32	980906.42	15.34	-159.83 -1.37	0.00	49.41	-96.44	-87.16	
colind:	wc21	48	10.49	-118	28.91	3955.0	wa	980568.92	980905.88	5.74	-134.89 -1.25	0.00	34.85	-95.55	-87.25	
colind:	in17	48	19.49	-118	11.62	1519.0	wa	980731.46	980919.38	1.73	-51.81 -0.60	0.00	-45.09	-95.77	-92.55	
colind:	in18	48	21.86	-118	11.79	1401.0	wa	980743.53	980922.94	2.35	-47.78 -0.56	0.00	-47.67	-93.66	-90.74	
colind:	in19	48	22.39	-118	11.76	1420.0	wa	980743.86	980923.73	2.45	-48.43 -0.57	0.00	-46.35	-92.90	-89.93	
colind:	in20	48	24.02	-118	12.34	1350.0	wa	980749.29	980926.17	2.52	-46.04 -0.54	0.00	-49.94	-94.01	-91.20	
colind:	in21	48	24.67	-118	12.92	1368.0	wa	980749.94	980927.15	3.33	-46.66 -0.55	0.00	-48.57	-92.45	-89.66	
colind:	in22	48	26.06	-118	13.26	1299.0	wa	980753.74	980929.23	3.83	-44.31 -0.52	0.00	-53.34	-94.34	-91.73	
colind:	in23	48	29.38	-118	12.22	1309.0	wa	980753.91	980934.20	4.42	-44.65 -0.53	0.00	-57.20	-97.96	-95.36	
colind:	in24	48	29.01	-118	12.75	1445.0	wa	980743.96	980933.65	5.11	-49.29 -0.58	0.00	-53.81	-98.57	-95.72	
colind:	in25	48	19.33	-118	8.65	1774.0	wa	980715.51	980919.14	3.57	-60.51 -0.69	0.00	-36.83	-94.45	-90.78	
colind:	in26	48	25.74	-118	10.19	1724.0	wa	980729.70	980928.75	1.72	-58.80 -0.67	0.00	-36.94	-94.69	-91.02	
colind:	in27	48	27.08	-118	10.34	1721.0	wa	980730.02	980930.76	1.90	-58.70 -0.67	0.00	-38.91	-96.38	-92.72	
colind:	in29	48	24.10	-118	10.06	1573.0	wa	980735.94	980926.29	2.65	-53.65 -0.62	0.00	-42.45	-94.07	-90.78	
colind:	in30	48	21.47	-118	8.32	1934.0	wa	980709.51	980922.35	2.47	-65.96 -0.74	0.00	-31.00	-95.23	-91.14	
colind:	in31	48	20.29	-118	8.64	1882.0	wa	980711.34	980920.58	2.62	-64.19 -0.72	0.00	-32.28	-94.57	-90.61	
colind:	in32	48	17.46	-118	8.39	1415.0	wa	980728.93	980916.34	3.22	-48.26 -0.57	0.00	-54.36	-99.96	-97.06	

col ind res gravity
stations&bases
Meter ID: w-90 Date: 10/23/80

STATION IDENTIFICATION proj	sta-id	LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	GRAVITY THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	ANOMALIES COMPLETE-BOUGUER d1=2.67	ANOMALIES BOUGUER d2=2.50	SPEC FIELDS
colind:	ke14	48	13.76	-118	35.10	3081.0	wa	980622.04	980910.79	2.93	-105.08	-1.06	0.00	0.92	-102.30	-95.73	
colind:	ke15	48	14.11	-118	33.65	3640.0	wa	980584.23	980911.31	3.20	-124.15	-1.19	0.00	15.13	-107.01	-99.23	
colind:	ke16	48	13.28	-118	30.57	3300.0	wa	980602.05	980910.07	1.87	-112.55	-1.12	0.00	2.23	-109.57	-102.45	
colind:	ke17	48	11.82	-118	31.74	2646.0	wa	980649.08	980907.68	1.76	-90.25	-0.95	0.00	-10.02	-99.46	-93.77	
colind:	ke18	48	12.68	-118	30.68	3162.0	wa	980614.11	980909.17	1.66	-107.85	-1.08	0.00	2.22	-105.05	-98.22	
colind:	ke19	48	10.38	-118	31.64	2281.0	wa	980668.66	980905.72	3.12	-77.80	-0.85	0.00	-22.59	-98.11	-93.30	
colind:	sm13	48	23.63	-118	43.78	2379.0	wa	980661.73	980925.59	4.60	-81.14	-0.88	0.00	-40.17	-117.59	-112.66	
colind:	sm14	48	23.81	-118	42.09	2913.0	wa	980632.70	980925.86	3.05	-99.35	-1.02	0.00	-19.28	-116.60	-110.41	
colind:	sm16	48	23.80	-118	36.35	3809.0	wa	980586.01	980925.84	1.91	-129.91	-1.22	0.00	18.26	-110.97	-102.74	
colind:	sm17	48	22.91	-118	36.02	3629.0	wa	980593.54	980924.51	2.19	-123.77	-1.19	0.00	10.21	-112.56	-104.75	
colind:	sm18	48	22.19	-118	36.23	3581.0	wa	980594.40	980923.43	1.55	-122.14	-1.18	0.00	7.64	-114.13	-106.38	
colind:	sm19	48	21.17	-118	36.16	3303.0	wa	980608.47	980921.90	2.41	-112.66	-1.12	0.00	-2.90	-114.26	-107.17	
colind:	sm20	48	18.70	-118	37.12	3220.0	wa	980607.77	980918.20	6.97	-109.83	-1.10	0.00	-7.69	-111.64	-105.02	
colind:	sm21	48	17.93	-118	38.47	2408.0	wa	980656.21	980917.04	5.28	-82.13	-0.88	0.00	-34.43	-112.16	-107.21	
colind:	ke21	48	8.84	-118	34.29	3035.0	wa	980623.11	980903.41	1.24	-103.52	-1.05	0.00	5.05	-98.28	-91.70	
colind:	ke22	48	6.91	-118	35.58	3087.0	wa	980614.64	980900.52	1.45	-105.29	-1.06	0.00	4.36	-100.54	-93.86	
colind:	ke23	48	7.95	-118	34.89	2763.0	wa	980637.36	980902.08	1.31	-94.24	-0.98	0.00	-4.94	-98.85	-92.87	
colind:	ke24	48	5.40	-118	36.99	1967.0	wa	980675.24	980898.25	3.87	-67.09	-0.75	0.00	-38.06	-102.03	-97.95	
colind:	ke25	48	5.89	-118	41.62	1500.0	wa	980703.12	980898.98	3.25	-51.16	-0.60	0.00	-54.82	-103.33	-100.24	
colind:	wc22	48	7.49	-118	23.39	2050.0	wa	980687.76	980901.38	2.32	-69.92	-0.78	0.00	-20.87	-89.25	-84.90	
colind:	wc23	48	6.31	-118	22.04	1891.0	wa	980694.13	980899.62	2.73	-64.50	-0.73	0.00	-27.68	-90.17	-86.19	
colind:	wc24	48	7.76	-118	23.85	1941.0	wa	980693.09	980901.79	3.38	-66.20	-0.74	0.00	-26.19	-89.76	-85.71	
colind:	wc25	48	7.77	-118	24.61	2081.0	wa	980685.22	980901.80	3.20	-70.98	-0.79	0.00	-20.92	-89.48	-85.12	
colind:	wc26	48	8.18	-118	25.60	2201.0	wa	980678.07	980902.42	3.74	-75.07	-0.82	0.00	-17.40	-89.56	-84.96	
colind:	wc27	48	8.27	-118	26.33	2290.0	wa	980672.24	980902.55	4.28	-78.11	-0.85	0.00	-15.00	-89.67	-84.92	
colind:	wc28	48	8.26	-118	27.58	2644.0	wa	980651.46	980902.54	4.18	-90.18	-0.95	0.00	-2.49	-89.44	-83.90	
colind:	wc29	48	8.79	-118	28.22	3085.0	wa	980624.97	980903.34	2.75	-105.22	-1.06	0.00	11.68	-91.85	-85.26	
colind:	wc30	48	8.83	-118	29.23	3464.0	wa	980600.94	980903.40	3.31	-118.15	-1.15	0.00	23.21	-92.78	-85.39	
colind:	wc31	48	9.53	-118	29.20	3588.0	wa	980593.46	980904.45	3.93	-122.38	-1.18	0.00	26.34	-93.28	-85.67	
colind:	wc32	48	12.41	-118	27.64	4194.0	wa	980546.50	980908.77	8.78	-143.05	-1.29	0.00	32.01	-103.54	-94.91	

col ind res gravity
stations&bases
Meter ID: w-90 Date: 10/23/80

STATION IDENTIFICATION		LOCATIONS					GRAVITY		CORRECTIONS				ANOMALIES			
		LATITUDE		LONGITUDE		ELE ST	OBSERVED	THEORETICAL	TERRAIN	BOUGUER	CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER d1=2.67		SPEC FIELDS
prol	sta-id	deg	min	deg	min	(in ft)									d2=2.50	
colind:	hu43	48	14.93	-118	14.28	2605.0 wa	980656.50	980912.55	1.68	-88.85	-0.94	0.00	-11.12	-99.23	-93.62	
colind:	hu44	48	14.52	-118	14.74	2621.0 wa	980654.39	980911.93	2.33	-89.39	-0.94	0.00	-11.11	-99.12	-93.51	
colind:	hu46	48	14.10	-118	13.50	2431.0 wa	980667.52	980911.30	2.43	-82.91	-0.89	0.00	-15.21	-96.58	-91.40	
colind:	hu47	48	13.81	-118	13.83	2230.0 wa	980679.30	980910.87	1.34	-76.06	-0.83	0.00	-21.90	-97.45	-92.64	
colind:	t119	48	18.76	-118	16.03	1913.0 wa	980707.84	980918.29	1.53	-65.25	-0.73	0.00	-30.57	-95.02	-90.92	
colind:	t120	48	23.13	-118	17.69	1983.0 wa	980708.20	980924.84	2.92	-67.63	-0.76	0.00	-30.18	-95.65	-91.48	
colind:	t121	48	23.88	-118	17.58	2024.0 wa	980707.34	980925.96	2.89	-69.03	-0.77	0.00	-28.31	-95.22	-90.96	
colind:	t122	48	25.53	-118	18.14	2059.0 wa	980704.69	980928.44	5.73	-70.23	-0.78	0.00	-30.15	-95.43	-91.27	
colind:	t123	48	27.14	-118	19.23	2094.0 wa	980705.49	980930.84	6.30	-71.42	-0.79	0.00	-28.47	-94.38	-90.18	
colind:	t124	48	28.21	-118	19.70	2177.0 wa	980697.35	980932.45	6.22	-74.25	-0.82	0.00	-30.41	-99.26	-94.87	
colind:	t125	48	28.49	-118	18.87	2168.0 wa	980700.31	980932.87	4.77	-73.94	-0.81	0.00	-28.71	-98.70	-94.24	
colind:	t126	48	28.90	-118	17.07	2196.0 wa	980702.17	980933.48	2.72	-74.90	-0.82	0.00	-24.84	-97.84	-93.19	
colind:	t127	48	29.97	-118	15.14	2309.0 wa	980695.55	980935.09	5.27	-78.75	-0.86	0.00	-22.44	-96.78	-92.05	
colind:	t128	48	28.14	-118	16.15	2197.0 wa	980705.06	980932.34	2.52	-74.93	-0.82	0.00	-20.71	-93.95	-89.28	
colind:	t129	48	27.52	-118	16.16	1979.0 wa	980716.12	980931.41	2.74	-67.50	-0.75	0.00	-29.22	-94.74	-90.56	
colind:	wh01	47	59.22	-118	33.18	2168.0 wa	980666.01	980888.98	3.18	-73.94	-0.81	0.00	-19.12	-90.70	-86.14	
colind:	wh02	47	56.99	-118	32.90	1517.0 wa	980699.72	980885.63	4.22	-51.74	-0.60	0.00	-43.27	-91.39	-88.32	
colind:	ln01	47	54.07	-118	27.60	3270.0 wa	980591.00	980881.24	5.79	-111.53	-1.11	0.00	17.20	-89.65	-82.85	
colind:	ln02	47	54.67	-118	26.55	4090.0 wa	980533.42	980882.14	14.07	-139.50	-1.28	0.00	35.79	-90.92	-82.85	
colind:	ln03	47	55.25	-118	27.85	3656.0 wa	980567.22	980883.02	7.44	-124.70	-1.19	0.00	27.92	-90.53	-82.98	
colind:	ln04	47	52.89	-118	23.77	2076.0 wa	980662.66	980879.47	1.56	-70.81	-0.78	0.00	-21.61	-91.64	-87.18	
colind:	ln05	47	53.31	-118	21.58	1481.0 wa	980696.85	980880.10	2.02	-50.51	-0.59	0.00	-43.99	-93.07	-89.95	
colind:	ln06	47	56.55	-118	22.06	1351.0 wa	980708.83	980884.97	1.74	-46.08	-0.54	0.00	-49.10	-93.99	-91.13	
colind:	ln07	47	57.58	-118	22.06	1358.0 wa	980708.82	980886.52	1.68	-46.32	-0.55	0.00	-50.00	-95.18	-92.30	
colind:	ne15	48	3.30	-118	56.32	1901.0 wa	980671.65	980895.10	1.45	-64.84	-0.73	0.00	-44.71	-108.82	-104.74	
colind:	ne16	48	3.26	-118	54.77	2404.0 wa	980641.82	980895.04	1.02	-81.99	-0.88	0.00	-27.19	-109.04	-103.83	
colind:	ne17	48	3.09	-118	53.79	2933.0 wa	980608.11	980894.78	2.55	-100.04	-1.03	0.00	-10.91	-109.43	-103.15	
colind:	ne18	48	2.50	-118	51.71	2808.0 wa	980616.03	980893.90	1.29	-95.77	-0.99	0.00	-13.86	-109.33	-103.25	
colind:	wh03	47	59.94	-118	41.31	1380.0 wa	980706.07	980890.05	2.13	-47.07	-0.55	0.00	-54.22	-99.72	-96.82	
colind:	wh04	47	59.19	-118	41.55	1385.0 wa	980704.15	980888.93	2.35	-47.24	-0.56	0.00	-54.55	-99.99	-97.10	
colind:	wh05	47	58.54	-118	41.86	1354.0 wa	980704.61	980887.95	2.18	-46.18	-0.54	0.00	-56.03	-100.57	-97.74	
colind:	wh06	47	56.82	-118	41.38	1295.0 wa	980708.68	980885.38	1.53	-44.17	-0.52	0.00	-54.92	-98.08	-95.33	
colind:	wh07	47	57.37	-118	41.62	1377.0 wa	980707.41	980886.20	1.48	-46.97	-0.55	0.00	-49.30	-95.34	-92.41	
colind:	wh08	47	57.13	-118	43.09	1930.0 wa	980668.93	980885.84	1.17	-65.83	-0.74	0.00	-35.44	-100.83	-96.67	

col ind res gravity
stations&bases
Meter ID: w-90 Date: 10/23/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	wh09	47	56.30	-118	43.80	1693.0	wa	980680.62	980884.59	1.44	-57.74	-0.66	0.00	-44.78	-101.75	-98.12	
colind:	ne25	48	9.94	-118	47.21	3659.0	wa	980673.09	980905.06	5.78	-131.62	-1.23	0.00	130.83	3.76	11.85	
colind:	ne27	48	7.54	-118	47.94	4110.0	wa	980631.08	980901.46	6.56	-140.18	-1.28	0.00	116.01	-18.89	-10.30	
colind:	ne28	48	6.34	-118	48.20	3883.0	wa	980642.68	980899.66	4.17	-132.44	-1.24	0.00	108.07	-21.43	-13.19	
colind:	bk01	48	15.15	-118	57.16	1941.0	wa	980678.53	980912.88	2.98	-66.20	-0.74	0.00	-51.84	-115.80	-111.73	
colind:	bk02	48	15.81	-118	56.49	1958.0	wa	980676.94	980913.87	4.23	-66.78	-0.75	0.00	-52.82	-116.12	-112.09	
colind:	base04	48	17.37	-118	55.82	2006.0	wa	980678.52	980916.20	3.53	-68.42	-0.76	0.00	-49.06	-114.72	-110.54	
colind:	bk03	48	20.15	-118	53.69	2727.0	wa	980637.07	980920.37	9.50	-93.01	-0.97	0.00	-26.91	-111.39	-106.01	
colind:	bk04	48	21.58	-118	53.20	3181.0	wa	980615.95	980922.52	2.47	-108.49	-1.09	0.00	-7.49	-114.60	-107.78	
colind:	bk05	48	23.03	-118	53.13	3011.0	wa	980626.25	980924.69	2.28	-102.70	-1.05	0.00	-15.35	-116.81	-110.35	
colind:	bk06	48	26.00	-118	50.45	2301.0	wa	980669.70	980929.14	6.73	-78.48	-0.85	0.00	-43.09	-115.69	-111.07	
colind:	bk07	48	27.30	-118	48.02	2078.0	wa	980686.85	980931.09	7.44	-70.87	-0.79	0.00	-48.85	-113.07	-108.98	
colind:	bk08	48	28.05	-118	50.06	2193.0	wa	980681.24	980932.21	5.38	-74.80	-0.82	0.00	-44.77	-115.01	-110.54	
colind:	bk09	48	28.74	-118	51.99	2236.0	wa	980674.88	980933.24	9.48	-76.26	-0.83	0.00	-48.13	-115.74	-111.44	
colind:	bk10	48	27.54	-118	46.66	2020.0	wa	980686.74	980931.45	8.77	-68.90	-0.77	0.00	-54.77	-115.67	-111.79	
colind:	di10	48	22.53	-119	11.85	2994.0	wa	980643.83	980923.94	1.65	-102.12	-1.04	0.00	1.38	-100.13	-93.66	
colind:	di11	48	23.54	-119	11.59	3497.0	wa	980616.04	980925.45	2.48	-119.27	-1.16	0.00	19.36	-98.59	-91.08	
colind:	di12	48	24.22	-119	9.82	4067.0	wa	980583.34	980926.47	2.82	-138.71	-1.27	0.00	39.21	-97.95	-89.22	
colind:	di13	48	24.14	-119	6.29	3560.0	wa	980606.39	980926.35	2.07	-121.42	-1.17	0.00	14.73	-105.79	-98.12	
colind:	di14	48	23.61	-119	5.13	4037.0	wa	980569.82	980925.55	3.47	-137.69	-1.27	0.00	23.79	-111.70	-103.07	

col ind res gravity
stations&bases
Meter ID: w-90 Date: 10/23/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	bk11	48	23.07	-118	59.32	3739.0	wa	980588.81	980924.75	2.42	-127.53	-1.21	0.00	15.58	-110.74	-102.69	
colind:	bk12	48	21.97	-118	56.17	3034.0	wa	980625.20	980923.10	1.94	-103.48	-1.05	0.00	-12.65	-115.24	-108.71	
colind:	bk13	48	22.33	-118	55.22	3034.0	wa	980625.15	980923.64	1.77	-103.48	-1.05	0.00	-13.24	-116.00	-109.46	
colind:	bk14	48	22.77	-118	54.03	3086.0	wa	980621.13	980924.30	1.91	-105.25	-1.06	0.00	-13.03	-117.44	-110.79	
colind:	wc33	48	14.04	-118	16.97	2879.0	wa	980634.31	980911.21	1.69	-98.19	-1.01	0.00	-6.21	-103.73	-97.52	
colind:	wc34	48	5.49	-118	16.01	1569.0	wa	980706.10	980898.37	3.45	-53.51	-0.62	0.00	-44.74	-95.42	-92.19	
colind:	wc35	48	4.36	-118	16.26	1621.0	wa	980701.29	980896.69	1.58	-55.29	-0.64	0.00	-42.98	-97.32	-93.86	
colind:	wc36	48	3.97	-118	16.78	1626.0	wa	980700.01	980896.10	1.68	-55.46	-0.64	0.00	-43.21	-97.62	-94.16	
colind:	wc37	48	3.35	-118	17.09	1559.0	wa	980702.55	980895.17	1.17	-53.17	-0.62	0.00	-46.04	-98.65	-95.30	
colind:	wc38	48	6.22	-118	15.88	1603.0	wa	980706.27	980899.48	4.99	-54.67	-0.63	0.00	-42.48	-92.79	-89.59	
colind:	wc39	48	7.11	-118	15.54	1591.0	wa	980708.37	980900.81	5.11	-54.26	-0.63	0.00	-42.85	-92.63	-89.46	
colind:	t136	48	21.98	-118	16.54	1961.0	wa	980709.64	980923.12	2.29	-66.88	-0.75	0.00	-29.09	-94.43	-90.27	
colind:	t137	48	23.35	-118	19.41	2111.0	wa	980696.65	980925.16	4.12	-72.00	-0.80	0.00	-30.03	-98.71	-94.34	
colind:	t138	48	23.19	-118	18.52	2032.0	wa	980705.46	980924.93	2.71	-69.31	-0.77	0.00	-28.41	-95.78	-91.49	
colind:	t139	48	16.19	-118	26.44	2819.0	wa	980634.88	980914.43	2.74	-96.15	-1.00	0.00	-14.51	-108.91	-102.90	
colind:	t140	48	15.38	-118	28.15	3399.0	wa	980596.86	980913.22	3.11	-115.93	-1.14	0.00	3.20	-110.76	-103.50	
colind:	ne33	48	11.66	-118	45.71	3204.0	wa	980611.06	980907.64	1.68	-109.28	-1.09	0.00	4.65	-104.04	-97.12	
colind:	ne34	48	11.94	-118	45.42	3228.0	wa	980610.12	980908.06	1.89	-110.10	-1.10	0.00	5.54	-103.76	-96.80	
colind:	ne35	48	12.52	-118	45.36	3221.0	wa	980609.73	980908.93	1.90	-109.86	-1.10	0.00	3.63	-105.42	-98.48	
colind:	ke26	48	12.91	-118	44.90	3169.0	wa	980614.55	980909.52	1.52	-108.09	-1.08	0.00	2.97	-104.68	-97.82	
colind:	ne36	48	14.40	-118	45.66	3171.0	wa	980612.39	980911.75	0.95	-108.15	-1.08	0.00	-1.23	-109.52	-102.62	
colind:	ne37	48	14.69	-118	46.72	3272.0	wa	980603.56	980912.19	0.98	-111.60	-1.11	0.00	-1.00	-112.73	-105.61	
colind:	ne38	48	14.47	-118	47.21	3388.0	wa	980595.47	980911.85	1.30	-115.55	-1.14	0.00	2.14	-113.25	-105.90	
colind:	ne39	48	14.78	-118	48.88	3520.0	wa	980585.42	980912.32	1.77	-120.06	-1.16	0.00	4.04	-115.41	-107.81	
colind:	ne40	48	14.77	-118	49.28	3547.0	wa	980582.24	980912.30	2.03	-120.98	-1.17	0.00	3.41	-116.71	-109.06	
colind:	ne41	48	13.87	-118	50.97	2729.0	wa	980632.93	980910.95	1.04	-93.08	-0.97	0.00	-21.44	-114.45	-108.53	
colind:	ke27	48	1.41	-118	44.84	1869.0	wa	980675.00	980892.26	3.70	-63.75	-0.72	0.00	-41.53	-102.29	-98.42	
colind:	ne42	48	0.41	-118	47.87	2849.0	wa	980612.38	980890.76	2.21	-97.17	-1.00	0.00	-10.51	-106.48	-100.37	

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gravity stations
Meter ID: w-147 Date: 10/30/80

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	mth	48	3.07	-118	42.05	2993.8	wa	980608.03	980894.75	7.85	-102.11	-1.04	0.00	-5.25	-100.55	-94.48	
colind:	dh019	48	3.08	-118	42.11	3044.6	wa	980604.08	980894.77	8.42	-103.84	-1.05	0.00	-4.44	-100.92	-94.78	
colind:	dh028	48	3.12	-118	42.16	3187.0	wa	980593.08	980894.83	11.90	-108.70	-1.09	0.00	-2.11	-100.00	-93.77	
colind:	dh144	48	3.24	-118	42.39	3329.4	wa	980581.00	980895.01	13.34	-113.56	-1.12	0.00	-0.99	-102.33	-95.87	
colind:	dh002	48	3.25	-118	42.23	3336.1	wa	980579.83	980895.02	14.06	-113.78	-1.12	0.00	-1.55	-102.39	-95.97	
colind:	dh106	48	3.16	-118	42.16	3297.5	wa	980584.59	980894.89	15.40	-112.47	-1.11	0.00	-0.27	-98.45	-92.20	
colind:	dh094	48	3.18	-118	42.21	3373.1	wa	980578.54	980894.91	16.60	-115.05	-1.13	0.00	0.75	-98.83	-92.49	
colind:	dh142	48	3.23	-118	42.33	3427.0	wa	980573.72	980894.99	16.81	-116.89	-1.14	0.00	0.92	-100.30	-93.85	
colind:	dh089	48	3.22	-118	42.33	3460.5	wa	980570.58	980894.98	18.15	-118.03	-1.15	0.00	0.94	-100.09	-93.65	
colind:	dh035	48	3.27	-118	42.22	3193.5	wa	980590.58	980895.05	10.54	-108.92	-1.09	0.00	-4.23	-103.70	-97.37	
colind:	dh099	48	3.24	-118	42.45	3206.5	wa	980591.04	980895.01	9.41	-109.36	-1.09	0.00	-2.50	-103.55	-97.12	
colind:	dh016	48	3.22	-118	42.59	3019.5	wa	980605.69	980894.98	6.42	-102.99	-1.05	0.00	-5.40	-103.02	-96.80	
colind:	dh022	48	3.27	-118	42.45	3057.5	wa	980601.83	980895.05	6.58	-104.28	-1.06	0.00	-5.76	-104.52	-98.23	
colind:	dh026	48	3.29	-118	42.39	3056.1	wa	980601.78	980895.09	7.20	-104.23	-1.06	0.00	-5.97	-104.06	-97.82	
colind:	dh039	48	3.28	-118	42.27	3083.8	wa	980599.47	980895.07	7.62	-105.18	-1.06	0.00	-5.67	-104.29	-98.01	
colind:	dh007	48	3.24	-118	42.16	3122.0	wa	980596.75	980895.01	9.72	-106.48	-1.07	0.00	-4.73	-102.57	-96.34	
colind:	dh004	48	3.19	-118	42.10	3185.2	wa	980593.65	980894.93	12.65	-108.64	-1.09	0.00	-1.82	-98.90	-92.71	
colind:	dh024	48	3.15	-118	42.09	3054.7	wa	980603.30	980894.88	8.97	-104.19	-1.06	0.00	-4.38	-100.65	-94.52	
colind:	dh006	48	3.24	-118	42.11	3000.5	wa	980606.72	980895.01	7.42	-102.34	-1.04	0.00	-6.19	-102.15	-96.04	
colind:	dh003	48	3.28	-118	42.16	2999.2	wa	980605.25	980895.07	7.28	-102.29	-1.04	0.00	-7.83	-103.89	-97.78	
colind:	dh056	48	3.29	-118	42.28	2996.1	wa	980605.94	980895.09	6.53	-102.19	-1.04	0.00	-7.46	-104.16	-98.00	
colind:	dh060	48	3.14	-118	42.22	3183.4	wa	980593.74	980894.86	10.92	-108.58	-1.09	0.00	-1.82	-100.56	-94.28	
colind:	dh053	48	3.16	-118	42.33	3179.7	wa	980594.05	980894.89	10.01	-108.45	-1.09	0.00	-1.89	-101.42	-95.08	
colind:	dh047	48	3.20	-118	42.46	3177.3	wa	980594.03	980894.95	9.22	-108.37	-1.09	0.00	-2.19	-102.43	-96.05	
colind:	dh042	48	3.22	-118	42.50	3190.8	wa	980592.22	980894.98	9.26	-108.83	-1.09	0.00	-2.77	-103.43	-97.02	
colind:	dh005	48	3.32	-118	42.21	2909.0	wa	980611.30	980895.13	6.37	-99.22	-1.02	0.00	-10.33	-104.20	-98.22	
colind:	dh015	48	3.32	-118	42.33	2863.2	wa	980615.72	980895.13	6.69	-97.66	-1.01	0.00	-10.21	-102.19	-96.33	
colind:	dh023	48	3.32	-118	42.16	2815.0	wa	980617.68	980895.13	5.75	-96.01	-1.00	0.00	-12.78	-104.04	-98.23	
colind:	dh009	48	3.31	-118	42.10	2662.7	wa	980628.38	980895.11	5.79	-90.82	-0.96	0.00	-16.38	-102.36	-96.89	
colind:	dh151	48	3.15	-118	41.40	2498.8	wa	980630.95	980894.88	7.05	-85.23	-0.91	0.00	-28.98	-108.06	-103.03	
colind:	dh147	48	3.27	-118	41.52	2505.7	wa	980625.68	980895.05	6.79	-85.46	-0.91	0.00	-33.78	-113.37	-108.30	
colind:	dh091	48	3.16	-118	41.59	2769.7	wa	980601.13	980894.89	11.27	-94.47	-0.98	0.00	-33.35	-117.53	-112.17	

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gravity stations
Meter ID: w-147 Date: 10/30/80

STATION IDENTIFICATION prol	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
colind:	dh014	48	3.39	-118	42.21	2522.2	wa	980617.50	980895.23	8.57	-86.03	-0.92	0.00	-40.59	-118.96	-113.97	
colind:	dh036	48	3.39	-118	42.43	2506.6	wa	980622.89	980895.23	9.36	-85.49	-0.91	0.00	-36.67	-113.71	-108.81	
colind:	dh041	48	3.49	-118	42.44	2273.6	wa	980641.97	980895.38	8.53	-77.55	-0.84	0.00	-39.64	-109.50	-105.06	
colind:	dh046	48	3.54	-118	42.38	2163.2	wa	980650.71	980895.46	9.17	-73.78	-0.81	0.00	-41.35	-106.78	-102.61	
colind:	dh048	48	3.56	-118	42.33	2182.6	wa	980651.11	980895.48	7.50	-74.44	-0.82	0.00	-39.16	-106.92	-102.61	
colind:	dh052	48	3.56	-118	42.26	2021.5	wa	980663.74	980895.48	8.98	-68.95	-0.77	0.00	-41.67	-102.41	-98.54	
colind:	dh021	48	3.35	-118	41.57	2192.4	wa	980658.76	980895.17	3.32	-74.78	-0.82	0.00	-30.28	-102.55	-97.95	
colind:	dh027	48	3.35	-118	41.45	2149.0	wa	980663.30	980895.17	3.15	-73.30	-0.81	0.00	-29.81	-100.77	-96.25	
colind:	dh049	48	3.31	-118	41.04	2052.8	wa	980668.76	980895.11	2.25	-70.01	-0.78	0.00	-33.34	-101.88	-97.52	

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gravity.profile
Meter ID: g-113 Date: 08/18/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
Colind:	base02	48	8.01	-118	58.09	1787.1	wa	980685.34	980902.16	1.16	-60.95	-0.69	0.00	-48.78	-109.27	-105.42	
Colind:	a092	48	20.40	-118	52.47	4611.0	wa	980521.83	980920.74	10.06	-157.27	-1.36	0.00	34.55	-114.02	-104.56	
Colind:	a106	48	22.93	-118	50.34	4334.0	wa	980542.75	980924.54	9.14	-147.82	-1.32	0.00	25.65	-114.35	-105.44	
Colind:	a093	48	22.14	-118	50.60	4781.0	wa	980510.73	980923.35	12.57	-163.07	-1.38	0.00	36.83	-115.05	-105.38	
Colind:	sm15	48	23.98	-118	39.78	3251.0	wa	980618.24	980926.11	2.58	-110.88	-1.10	0.00	-2.22	-111.63	-104.66	
Colind:	ra01	48	23.98	-118	39.85	3273.6	wa	980617.76	980926.11	2.45	-111.65	-1.11	0.00	-0.58	-110.89	-103.87	
Colind:	ra02	48	23.92	-118	39.40	3333.1	wa	980615.05	980926.02	2.46	-113.68	-1.12	0.00	2.39	-109.95	-102.80	
Colind:	ra03	48	23.93	-118	39.18	3407.8	wa	980611.47	980926.04	2.50	-116.23	-1.14	0.00	5.82	-109.05	-101.74	
Colind:	ra05	48	23.83	-118	38.56	3460.6	wa	980608.76	980925.88	3.01	-118.03	-1.15	0.00	8.22	-107.95	-100.56	
Colind:	ra06	48	23.82	-118	38.31	3491.5	wa	980606.91	980925.88	2.80	-119.09	-1.16	0.00	9.30	-108.15	-100.67	
Colind:	ra07	48	23.75	-118	38.14	3511.7	wa	980604.79	980925.77	2.84	-119.77	-1.16	0.00	9.18	-108.92	-101.40	
Colind:	ra08	48	23.71	-118	38.01	3527.0	wa	980601.93	980925.70	3.16	-120.30	-1.17	0.00	7.81	-110.49	-102.96	
Colind:	ra09	48	23.68	-118	37.77	3539.0	wa	980599.07	980925.66	4.62	-120.71	-1.17	0.00	6.13	-111.13	-103.66	
Colind:	ra10	48	23.78	-118	37.61	3578.2	wa	980597.11	980925.81	4.23	-122.04	-1.18	0.00	7.70	-111.29	-103.71	
Colind:	ra11	48	23.88	-118	37.24	3590.7	wa	980596.57	980925.96	4.54	-122.47	-1.18	0.00	8.19	-110.92	-103.34	
Colind:	ra13	48	24.07	-118	40.34	3191.7	wa	980619.61	980926.25	3.78	-108.86	-1.09	0.00	-6.56	-112.73	-105.97	
Colind:	ra14	48	24.07	-118	40.59	3162.1	wa	980619.88	980926.25	3.57	-107.85	-1.08	0.00	-9.07	-114.43	-107.73	
Colind:	ra15	48	24.10	-118	40.89	3116.4	wa	980622.65	980926.29	3.02	-106.29	-1.07	0.00	-10.65	-114.99	-108.35	

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STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
Colind:	ra16	48	23.99	-118	41.06	3031.2	wa	980626.00	980926.13	4.24	-103.39	-1.05	0.00	-15.14	-115.34	-108.96	
Colind:	ra17	48	23.94	-118	41.22	2998.6	wa	980628.29	980926.05	4.01	-102.27	-1.04	0.00	-15.84	-115.15	-108.82	
Colind:	ra18	48	23.92	-118	41.44	2956.3	wa	980631.11	980926.02	3.59	-100.83	-1.03	0.00	-16.96	-115.24	-108.98	
Colind:	ra19	48	23.84	-118	41.59	2951.2	wa	980631.19	980925.90	3.18	-100.66	-1.03	0.00	-17.25	-115.75	-109.48	
Colind:	ra20	48	23.80	-118	41.84	2909.2	wa	980632.68	980925.84	3.33	-99.22	-1.02	0.00	-19.64	-116.56	-110.39	
Colind:	ra21	48	23.83	-118	42.20	2887.6	wa	980633.67	980925.88	3.27	-98.49	-1.01	0.00	-20.73	-116.96	-110.83	
Colind:	ra22	48	23.88	-118	42.46	2914.0	wa	980632.31	980925.96	2.80	-99.39	-1.02	0.00	-19.68	-117.29	-111.07	
Colind:	ra23	48	23.79	-118	42.69	2845.3	wa	980636.40	980925.83	2.93	-97.05	-1.00	0.00	-21.91	-117.03	-110.98	
Colind:	ra24	48	23.72	-118	42.94	2819.5	wa	980637.17	980925.72	2.96	-96.16	-1.00	0.00	-23.46	-117.66	-111.67	
Colind:	ra25	48	23.76	-118	43.18	2686.4	wa	980644.15	980925.78	3.92	-91.69	-0.96	0.00	-28.87	-117.61	-111.96	
Colind:	ra26	48	23.79	-118	43.49	2587.5	wa	980648.29	980925.83	4.67	-88.25	-0.93	0.00	-34.26	-118.78	-113.39	
Colind:	sm05	48	24.10	-116	43.83	1688.0	wa	980689.06	980926.29	8.08	-64.39	-0.73	0.00	-59.71	-116.75	-113.12	
Colind:	ra27	48	24.53	-118	44.05	1883.2	wa	980688.70	980926.94	8.56	-64.23	-0.72	0.00	-61.16	-117.56	-113.97	
Colind:	ra28	48	25.09	-118	44.21	2125.6	wa	980678.01	980927.77	4.97	-72.50	-0.80	0.00	-49.91	-118.24	-113.89	
Colind:	ra29	48	25.13	-118	44.44	2130.8	wa	980677.58	980927.84	5.99	-72.68	-0.80	0.00	-49.91	-117.40	-113.10	
Colind:	ra30	48	25.12	-118	44.80	2211.6	wa	980672.94	980927.82	6.44	-75.43	-0.83	0.00	-46.94	-116.76	-112.31	
Colind:	ra31	48	25.14	-118	45.07	2288.1	wa	980668.51	980927.85	5.98	-78.04	-0.85	0.00	-44.21	-117.12	-112.48	
Colind:	ra32	48	25.16	-118	45.25	2440.0	wa	980660.24	980927.88	4.53	-83.22	-0.89	0.00	-38.22	-117.81	-112.74	
Colind:	ra33	48	25.19	-118	45.53	2542.7	wa	980655.08	980927.92	3.90	-86.72	-0.92	0.00	-33.78	-117.53	-112.19	
Colind:	ra34	48	25.16	-118	45.84	2648.0	wa	980649.64	980927.88	3.60	-90.32	-0.95	0.00	-29.27	-116.94	-111.36	
Colind:	ra35	48	25.30	-118	45.94	2731.3	wa	980646.20	980928.09	2.49	-93.16	-0.97	0.00	-25.09	-116.73	-110.90	
Colind:	ra36	48	25.56	-118	45.73	2857.2	wa	980639.62	980928.48	3.47	-97.45	-1.01	0.00	-20.23	-115.22	-109.17	
Colind:	ra37	48	25.32	-118	46.14	2935.4	wa	980636.41	980928.12	1.53	-100.12	-1.03	0.00	-15.72	-115.34	-109.00	
Colind:	ra38	48	25.36	-118	46.54	2913.2	wa	980637.89	980928.18	1.24	-99.36	-1.02	0.00	-16.39	-115.54	-109.22	
Colind:	ra39	48	25.47	-118	46.10	2992.6	wa	980633.62	980928.34	1.88	-102.07	-1.04	0.00	-13.37	-114.60	-108.15	
Colind:	ra40	48	25.57	-118	47.09	3039.1	wa	980631.34	980928.49	0.98	-103.66	-1.05	0.00	-11.42	-115.15	-108.54	
Colind:	ra41	48	25.68	-118	47.24	3142.6	wa	980625.29	980928.66	1.07	-107.18	-1.08	0.00	-7.91	-115.11	-108.28	
Colind:	ra42	48	25.83	-118	47.28	3269.2	wa	980617.55	980928.88	1.43	-111.50	-1.11	0.00	-3.98	-115.16	-108.08	
Colind:	ra43	48	25.94	-118	47.29	3413.0	wa	980608.57	980929.05	2.83	-116.41	-1.14	0.00	0.40	-114.32	-107.02	
Colind:	ra44	48	26.26	-118	47.00	3745.5	wa	980585.02	980929.53	7.05	-127.75	-1.21	0.00	7.62	-114.29	-106.53	
Colind:	ra45	48	26.44	-118	47.47	3723.6	wa	980586.55	980929.80	5.19	-127.00	-1.21	0.00	6.82	-116.20	-108.37	
Colind:	ra46	48	26.47	-118	47.70	3533.4	wa	980600.07	980929.84	2.92	-120.51	-1.17	0.00	2.42	-116.34	-108.78	

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STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
Colind:	ra48	48	27.28	-118	47.99	2078.0	wa	980686.74	980931.05	7.88	-70.87	-0.79	0.00	-48.93	-112.71	-108.65	
Colind:	ra49	48	27.28	-118	48.27	2158.9	wa	980682.71	980931.05	5.39	-73.63	-0.81	0.00	-45.36	-114.41	-110.02	
Colind:	ra50	48	27.19	-118	48.48	2164.6	wa	980682.50	980930.92	5.57	-73.83	-0.81	0.00	-44.90	-113.97	-109.57	
Colind:	ra51	48	27.04	-118	48.79	2160.7	wa	980682.66	980930.70	5.87	-73.70	-0.81	0.00	-44.88	-113.51	-109.14	
Colind:	ra52	48	26.93	-118	49.10	2209.1	wa	980678.68	980930.53	5.10	-75.35	-0.83	0.00	-44.15	-115.22	-110.69	
Colind:	ra53	48	26.68	-118	49.35	2197.6	wa	980678.91	980930.16	5.61	-74.95	-0.82	0.00	-44.62	-114.78	-110.32	
Colind:	ra54	48	26.53	-118	49.54	2237.6	wa	980676.36	980929.93	5.61	-76.32	-0.83	0.00	-43.19	-114.73	-110.17	
Colind:	ra55	48	26.31	-118	49.70	2283.6	wa	980673.91	980929.60	5.81	-77.89	-0.85	0.00	-40.98	-113.90	-109.26	
Colind:	ra56	48	26.11	-118	49.96	2327.9	wa	980670.81	980929.30	6.86	-79.40	-0.86	0.00	-39.62	-113.01	-108.34	
Colind:	ra57	48	26.04	-118	50.37	2357.3	wa	980668.50	980929.20	5.63	-80.40	-0.87	0.00	-39.06	-114.70	-109.88	
Colind:	ra58	48	26.21	-118	50.55	2491.7	wa	980661.19	980929.45	4.28	-84.98	-0.91	0.00	-33.99	-115.60	-110.41	
Colind:	ra59	48	26.37	-118	50.64	2640.0	wa	980653.55	980929.70	3.33	-90.04	-0.95	0.00	-27.93	-115.59	-110.01	
Colind:	ra60	48	26.57	-118	50.77	2759.3	wa	980646.83	980929.99	3.30	-94.11	-0.98	0.00	-23.74	-115.53	-109.69	
Colind:	ra61	48	26.65	-118	50.94	2852.0	wa	980641.80	980930.11	2.64	-97.27	-1.01	0.00	-20.17	-115.81	-109.72	
Colind:	ra62	48	26.77	-118	51.02	2922.4	wa	980638.00	980930.29	2.51	-99.67	-1.02	0.00	-17.53	-115.72	-109.47	
Colind:	ra63	48	26.86	-118	51.10	3009.4	wa	980633.99	980930.43	2.16	-102.64	-1.05	0.00	-13.50	-115.02	-108.56	
Colind:	ra64	48	26.89	-118	51.32	3111.2	wa	980627.58	980930.47	2.11	-106.11	-1.07	0.00	-10.39	-115.46	-108.77	
Colind:	ra65	48	26.99	-118	51.54	3253.9	wa	980619.95	980930.63	1.82	-110.98	-1.10	0.00	-4.75	-115.01	-107.99	
Colind:	ra66	48	27.04	-118	51.79	3329.4	wa	980615.10	980930.70	1.73	-113.56	-1.12	0.00	-2.58	-115.53	-108.34	
Colind:	ra67	48	26.93	-118	51.95	3379.0	wa	980611.29	980930.53	1.77	-115.25	-1.13	0.00	-1.56	-116.18	-108.88	
Colind:	ra68	48	27.04	-118	52.08	3390.7	wa	980610.64	980930.70	1.69	-115.65	-1.14	0.00	-1.28	-116.37	-109.04	
Colind:	ra69	48	27.06	-118	52.41	3440.1	wa	980605.97	980930.73	1.68	-117.33	-1.15	0.00	-1.34	-118.14	-110.70	
Colind:	ra70	48	27.11	-118	52.74	3519.7	wa	980600.61	980930.80	1.93	-120.05	-1.16	0.00	0.71	-118.57	-110.98	
Colind:	ra71	48	27.11	-118	53.09	3614.8	wa	980594.40	980930.80	1.93	-123.29	-1.18	0.00	3.44	-119.11	-111.30	
Colind:	ke20	48	9.89	-118	33.00	2431.0	wa	980658.80	980904.98	1.53	-82.91	-0.89	0.00	-17.62	-99.89	-94.66	
Colind:	ic01	48	9.34	-118	33.13	2453.1	wa	980657.36	980904.16	1.49	-83.67	-0.90	0.00	-16.16	-99.23	-93.94	
Colind:	ic02	48	9.33	-118	33.51	2469.9	wa	980655.93	980904.15	2.01	-84.24	-0.90	0.00	-15.99	-99.12	-93.83	
Colind:	ic03	48	9.36	-118	33.73	2536.8	wa	980652.41	980904.19	1.60	-86.52	-0.92	0.00	-13.26	-99.10	-93.64	
Colind:	ic04	48	9.45	-118	34.08	2602.0	wa	980648.36	980904.33	1.45	-88.75	-0.94	0.00	-11.32	-99.56	-93.94	
Colind:	ic05	48	9.56	-118	34.36	2646.7	wa	980645.69	980904.49	2.00	-90.27	-0.95	0.00	-9.96	-99.18	-93.50	
Colind:	ic06	48	9.59	-118	34.62	2751.7	wa	980639.48	980904.53	1.44	-93.85	-0.98	0.00	-6.33	-99.73	-93.78	
Colind:	ic07	48	9.56	-118	34.82	2791.2	wa	980636.93	980904.49	1.59	-95.20	-0.99	0.00	-5.13	-99.73	-93.71	
Colind:	ic08	48	9.67	-118	35.05	2853.7	wa	980633.05	980904.66	2.05	-97.33	-1.01	0.00	-3.30	-99.59	-93.46	
Colind:	ic09	48	9.76	-118	35.26	2905.6	wa	980627.57	980904.79	2.24	-100.47	-1.03	0.00	-0.28	-99.53	-93.21	
Colind:	ic10	48	9.85	-118	35.45	3035.4	wa	980622.27	980904.92	2.82	-103.53	-1.05	0.00	2.73	-99.03	-92.55	
Colind:	ic11	48	9.79	-118	35.63	3177.8	wa	980613.25	980904.84	2.31	-108.39	-1.09	0.00	7.18	-99.98	-93.16	
Colind:	ic12	48	9.72	-118	35.83	3328.9	wa	980603.64	980904.73	2.23	-113.54	-1.12	0.00	11.88	-100.55	-93.39	
Colind:	ic13	48	9.69	-118	36.12	3486.3	wa	980592.77	980904.69	2.80	-118.91	-1.16	0.00	15.85	-101.41	-93.94	

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STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGTITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
Colind:	ic13	48	9.69	-118	36.12	3486.3	wa	980592.77	980904.69	2.80	-118.91	-1.16	0.00	15.85	-101.41	-93.94	
Colind:	ic14	48	9.57	-118	36.12	3595.9	wa	980586.67	980904.51	2.81	-122.65	-1.18	0.00	20.23	-100.78	-93.08	
Colind:	ic15	48	9.42	-118	36.23	3737.2	wa	980577.00	980904.28	3.41	-127.47	-1.21	0.00	24.07	-101.20	-93.22	
Colind:	ic16	48	9.47	-118	36.40	3732.2	wa	980577.50	980904.35	3.15	-127.29	-1.21	0.00	24.02	-101.33	-93.35	
Colind:	ic17	48	9.27	-118	36.71	3587.2	wa	980586.74	980904.05	2.70	-122.35	-1.18	0.00	19.94	-100.89	-93.20	
Colind:	ic18	48	9.17	-118	36.57	3494.9	wa	980592.37	980903.91	3.17	-119.20	-1.16	0.00	17.04	-100.15	-92.69	
Colind:	ic19	48	9.02	-118	36.92	3398.0	wa	980599.22	980903.68	2.16	-115.90	-1.14	0.00	15.01	-99.87	-92.55	
Colind:	ic20	48	8.79	-118	36.93	3336.9	wa	980601.38	980903.34	2.07	-113.81	-1.12	0.00	11.77	-101.09	-93.91	
Colind:	ic21	48	8.52	-118	37.06	3215.7	wa	980607.95	980902.93	2.07	-109.68	-1.10	0.00	7.36	-101.35	-94.43	
Colind:	ic22	48	8.59	-118	37.42	2955.4	wa	980623.94	980903.03	1.96	-100.80	-1.03	0.00	-1.23	-101.10	-94.75	
Colind:	ic23	48	8.53	-118	37.56	2777.7	wa	980633.15	980902.95	3.48	-94.74	-0.99	0.00	-8.64	-100.88	-95.01	
Colind:	ic24	48	8.33	-118	37.54	2649.1	wa	980639.37	980902.65	4.23	-90.35	-0.95	0.00	-14.21	-101.28	-95.74	
Colind:	ic25	48	8.17	-118	37.62	2494.8	wa	980646.60	980902.41	4.96	-85.09	-0.91	0.00	-21.24	-102.27	-97.12	
Colind:	ic26	48	8.07	-118	37.81	2372.6	wa	980652.66	980902.26	5.46	-80.92	-0.87	0.00	-26.51	-102.85	-97.99	
Colind:	ic27	48	7.94	-118	37.98	2274.4	wa	980657.51	980902.06	5.39	-77.57	-0.85	0.00	-30.70	-103.73	-99.08	
Colind:	ic28	48	7.89	-118	38.17	2215.0	wa	980659.82	980901.98	6.45	-75.55	-0.83	0.00	-33.90	-103.83	-99.37	
Colind:	ic29	48	7.91	-118	38.43	2154.3	wa	980662.61	980902.02	8.25	-73.48	-0.81	0.00	-36.85	-102.88	-98.68	
Colind:	ic30	48	7.97	-118	38.76	2080.3	wa	980666.17	980902.10	8.35	-70.95	-0.79	0.00	-40.33	-103.72	-99.69	
Colind:	ic31	48	8.04	-118	39.06	2019.5	wa	980669.91	980902.21	7.91	-68.88	-0.77	0.00	-42.41	-104.15	-100.22	
Colind:	ic32	48	8.08	-118	39.26	1941.6	wa	980673.96	980902.27	8.71	-66.22	-0.74	0.00	-45.75	-104.00	-100.29	
Colind:	ic33	48	8.11	-118	39.59	1874.2	wa	980677.85	980902.31	7.64	-63.92	-0.72	0.00	-48.24	-105.24	-101.61	
Colind:	ic34	48	8.21	-118	39.88	1808.2	wa	980681.48	980902.46	7.50	-61.67	-0.70	0.00	-50.96	-105.83	-102.34	
Colind:	ic35	48	8.31	-118	40.20	1753.5	wa	980685.58	980902.62	6.41	-59.81	-0.68	0.00	-52.16	-106.24	-102.79	
Colind:	ic36	48	8.37	-118	40.48	1689.7	wa	980689.08	980902.70	7.17	-57.63	-0.66	0.00	-54.75	-105.87	-102.61	
Colind:	ic37	48	8.25	-118	40.68	1627.3	wa	980692.83	980902.52	7.93	-55.50	-0.64	0.00	-56.69	-104.90	-101.83	
Colind:	ic38	48	8.18	-118	40.97	1578.6	wa	980696.47	980902.42	6.98	-53.84	-0.62	0.00	-57.52	-105.00	-101.98	
Colind:	ic39	48	8.32	-118	41.29	1548.0	wa	980698.95	980902.63	5.46	-52.80	-0.61	0.00	-58.12	-106.07	-103.02	
Colind:	ic41	48	8.72	-118	41.39	1526.1	wa	980699.85	980903.23	8.21	-52.05	-0.60	0.00	-59.88	-104.33	-101.50	
Colind:	ic40	48	8.45	-118	41.35	1533.2	wa	980699.18	980902.83	6.02	-52.29	-0.61	0.00	-59.48	-106.36	-103.38	
Colind:	ic42	48	8.79	-118	41.48	1560.1	wa	980698.32	980903.34	6.17	-53.21	-0.62	0.00	-58.32	-105.98	-102.94	
Colind:	ic43	48	8.57	-118	41.39	1569.0	wa	980697.68	980903.01	6.65	-53.51	-0.62	0.00	-57.80	-105.28	-102.26	
Colind:	ic44	48	8.15	-118	41.52	1599.8	wa	980695.14	980902.38	3.99	-54.56	-0.63	0.00	-56.81	-108.01	-104.75	
Colind:	ic45	48	7.82	-118	41.48	1600.0	wa	980696.26	980901.88	3.71	-54.57	-0.63	0.00	-55.18	-106.67	-103.39	
Colind:	ic46	48	7.52	-118	41.46	1561.5	wa	980698.17	980901.43	3.80	-53.26	-0.62	0.00	-56.43	-106.51	-103.32	

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STATION IDENTIFICATION prof	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
Colind:	ic47	48	7.54	-118	41.75	1643.9	wa	980693.54	980901.46	3.12	-56.07	-0.64	0.00	-53.35	-106.94	-103.53	
Colind:	ic48	48	7.56	-118	42.06	1699.9	wa	980690.95	980901.49	3.34	-57.98	-0.66	0.00	-50.70	-106.00	-102.48	
Colind:	ic49	48	7.64	-118	42.29	1748.6	wa	980689.24	980901.61	3.25	-59.64	-0.68	0.00	-47.95	-105.02	-101.39	
Colind:	ic50	48	7.73	-118	42.50	1812.6	wa	980685.32	980901.74	3.30	-61.82	-0.70	0.00	-45.99	-105.21	-101.44	
Colind:	ic51	48	7.78	-118	42.82	1830.0	wa	980684.46	980901.82	4.16	-62.42	-0.71	0.00	-45.29	-104.25	-100.50	
Colind:	ic52	48	7.74	-118	43.07	1874.9	wa	980681.88	980901.76	4.40	-63.95	-0.72	0.00	-43.59	-103.86	-100.02	
Colind:	ic53	48	7.81	-118	43.41	1925.4	wa	980678.70	980901.87	4.94	-65.67	-0.74	0.00	-42.12	-103.59	-99.68	
Colind:	ic54	48	7.87	-118	43.70	1978.7	wa	980675.08	980901.95	5.74	-67.49	-0.75	0.00	-40.83	-103.33	-99.35	
Colind:	ic55	48	7.93	-118	43.93	2081.8	wa	980669.27	980902.05	6.60	-71.00	-0.79	0.00	-37.03	-102.22	-98.07	
Colind:	ic56	48	7.79	-118	44.04	2162.8	wa	980664.47	980901.84	5.97	-73.77	-0.81	0.00	-34.01	-102.62	-98.25	
Colind:	ic57	48	7.84	-118	44.23	2286.5	wa	980658.53	980901.91	5.57	-77.99	-0.85	0.00	-28.39	-101.66	-96.99	
Colind:	ic58	48	7.72	-118	44.43	2394.9	wa	980651.87	980901.73	6.59	-81.68	-0.88	0.00	-24.69	-100.66	-95.82	
Colind:	ic59	48	7.71	-118	44.67	2538.7	wa	980643.96	980901.71	4.62	-86.59	-0.92	0.00	-19.06	-101.95	-96.67	
Colind:	ic60	48	7.66	-118	44.92	2622.7	wa	980639.62	980901.64	3.86	-89.45	-0.94	0.00	-15.43	-101.97	-96.46	
Colind:	ic61	48	8.52	-118	47.35	4111.0	wa	980543.46	980902.93	8.44	-140.21	-1.28	0.00	27.01	-106.04	-97.57	
Colind:	ic62	48	8.48	-118	47.15	3844.9	wa	980562.25	980902.87	6.82	-131.14	-1.23	0.00	20.85	-104.70	-96.70	
Colind:	ic63	48	8.31	-118	46.87	3467.7	wa	980588.57	980902.62	2.82	-118.27	-1.15	0.00	11.97	-104.63	-97.21	
Colind:	ic64	48	8.20	-118	46.92	3384.4	wa	980593.85	980902.45	2.49	-115.43	-1.13	0.00	9.59	-104.49	-97.22	
Colind:	ic65	48	8.26	-118	46.70	3409.6	wa	980593.08	980902.54	2.42	-116.29	-1.14	0.00	11.10	-103.92	-96.59	
Colind:	ic66	48	8.21	-118	46.48	3330.9	wa	980598.31	980902.46	2.03	-113.61	-1.12	0.00	9.01	-103.69	-96.52	
Colind:	ic67	48	8.16	-118	46.30	3270.3	wa	980602.54	980902.39	1.76	-111.54	-1.11	0.00	7.61	-103.28	-96.22	
Colind:	ic68	48	8.10	-118	46.10	3227.4	wa	980605.03	980902.30	1.64	-110.08	-1.10	0.00	6.16	-103.37	-96.40	
Colind:	ic69	48	8.03	-118	45.90	3101.1	wa	980612.46	980902.20	1.48	-105.77	-1.07	0.00	1.83	-103.53	-96.82	
Colind:	ic70	48	7.91	-118	45.60	2961.4	wa	980620.11	980902.02	1.70	-101.00	-1.03	0.00	-3.48	-103.82	-97.43	
Colind:	ic71	48	7.90	-118	45.35	2900.1	wa	980623.15	980902.00	1.78	-98.91	-1.02	0.00	-6.19	-104.34	-98.09	
Colind:	ic72	48	7.82	-118	45.20	2809.0	wa	980627.57	980901.88	2.06	-95.81	-0.99	0.00	-10.21	-104.95	-98.92	
Colind:	ic73	48	7.69	-118	45.10	2742.8	wa	980631.54	980901.69	2.58	-93.55	-0.98	0.00	-12.26	-104.21	-98.36	
Colind:	ic74	48	7.56	-118	45.02	2665.2	wa	980635.87	980901.49	3.57	-90.90	-0.96	0.00	-15.04	-103.33	-97.71	
Colind:	ic75	48	7.57	-118	44.99	2675.2	wa	980637.05	980901.51	3.39	-91.24	-0.96	0.00	-12.93	-101.74	-96.09	
Colind:	ic76	48	8.54	-118	47.55	4348.0	wa	980525.78	980902.96	10.88	-148.30	-1.32	0.00	31.58	-107.16	-98.33	
Colind:	ic77	48	8.77	-118	48.60	3750.0	wa	980565.51	980903.30	5.77	-127.90	-1.21	0.00	14.75	-108.59	-100.74	
Colind:	ic78	48	8.74	-118	49.35	3341.0	wa	980592.54	980903.26	2.92	-113.95	-1.12	0.00	3.39	-108.77	-101.63	
Colind:	ic79	48	8.79	-118	50.42	3144.0	wa	980603.69	980903.34	2.96	-107.23	-1.08	0.00	-4.06	-109.41	-102.70	
Colind:	ic80	48	8.15	-118	57.12	1823.3	wa	980683.43	980902.38	1.16	-62.19	-0.70	0.00	-47.51	-109.24	-105.31	

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STATION IDENTIFICATION		LOCATIONS					GRAVITY		CORRECTIONS				ANOMALIES		
prof	sta-id	LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	OBSERVED	THEORETICAL	TERRAIN	BOUGUER	CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.50	SPEC FIELDS
Colind:	ic81	48	8.35	-118	56.68	1841.8	wa	980683.19	980902.67	1.31	-62.82	-0.71	0.00	-46.31	-108.53	-104.57	
Colind:	ic82	48	8.50	-118	56.25	1862.7	wa	980679.61	980902.90	1.26	-63.53	-0.72	0.00	-48.15	-111.14	-107.13	
Colind:	ic83	48	8.41	-118	55.82	1915.8	wa	980675.98	980902.77	1.07	-65.34	-0.73	0.00	-46.64	-111.65	-107.51	
Colind:	ic84	48	8.16	-118	55.29	1958.7	wa	980672.55	980902.39	0.85	-66.81	-0.75	0.00	-45.68	-112.38	-108.13	
Colind:	ic85	48	8.15	-118	54.73	2076.8	wa	980665.11	980902.38	0.78	-70.83	-0.79	0.00	-41.99	-112.83	-108.32	
Colind:	ic86	48	8.14	-118	54.09	2083.9	wa	980666.23	980902.36	1.70	-71.08	-0.79	0.00	-40.19	-110.35	-105.88	
Colind:	ic87	48	8.51	-118	53.64	2173.4	wa	980660.41	980902.91	1.41	-74.13	-0.81	0.00	-38.15	-111.68	-107.00	
Colind:	ic88	48	8.62	-118	53.25	2214.3	wa	980658.62	980903.08	1.29	-75.52	-0.83	0.00	-36.26	-111.33	-106.55	
Colind:	ic89	48	8.54	-118	52.62	2267.6	wa	980656.65	980902.96	1.88	-77.34	-0.84	0.00	-33.10	-109.41	-104.55	
Colind:	ic90	48	8.56	-118	52.01	2364.4	wa	980650.23	980902.99	1.41	-80.64	-0.87	0.00	-30.45	-110.55	-105.45	
Colind:	ic91	48	8.75	-118	51.62	2466.4	wa	980644.77	980903.27	1.81	-84.12	-0.90	0.00	-26.60	-109.82	-104.52	
Colind:	ic92	48	8.90	-118	51.08	2812.9	wa	980624.89	980903.50	0.84	-95.94	-1.00	0.00	-14.14	-110.24	-104.12	
Colind:	ic93	48	8.05	-118	58.48	1782.4	wa	980685.22	980902.23	0.82	-60.79	-0.69	0.00	-49.41	-110.08	-106.21	
Colind:	ic94	48	8.48	-118	59.06	1772.3	wa	980683.78	980902.87	0.69	-60.45	-0.69	0.00	-52.44	-112.89	-109.04	
Colind:	ic95	48	8.46	-119	0.08	1779.9	wa	980687.49	980902.84	0.96	-60.71	-0.69	0.00	-47.99	-108.43	-104.58	
Colind:	ic96	48	8.76	-119	0.58	1981.2	wa	980679.75	980903.29	1.45	-67.57	-0.76	0.00	-37.26	-104.13	-99.88	
Colind:	ic97	48	8.57	-119	0.89	1829.2	wa	980688.59	980903.01	1.20	-62.39	-0.71	0.00	-42.42	-104.31	-100.37	
Colind:	ic98	48	8.60	-119	1.74	1845.4	wa	980686.70	980903.05	2.24	-62.94	-0.71	0.00	-42.83	-104.24	-100.33	