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Temperature data from exploratory boreholes at the Supplemental Test Site, central Nevada: Interim report

By Robert J. Munroe and T. H. Moses, Jr.

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1. Reconnaissance geologic map of the Preston quadrangle, southeastern Idaho, by Steven S. Oriel and Lucian B. Platt. 2 sheets, scale 1:62,500. 1012 Federal Bldg., Denver, Colo. 80202; 8102 Federal Office Bldg., Salt Lake City, Utah 84111; 678 U.S.Court House Bldg., Spokane, Wash. 99201. Material from which copy can be made at private expense is available in the Denver and Salt Lake City offices just listed.

2. Aeromagnetic map of the Wolcott-Boulder area, north-central Colorado, by the U. S. Geolcgical Survey. 1 sheet, scale 1:125,000. 8102 Federal Office Bldg., Salt Lake City, Utah 84111; 1012 Federal Bldg., Denver, Colo. 80202. Material from which copy can be made at private expense is available in this Denver office

3. Geologic map of the Wagon Wheel Gap fluorspar district, Colorado, by T.A. Steven. 2 sheets, scale 1:20,000. 8102 Federal Office Bldg., Salt Lake City, Utah 84111; 1012 Federal Bldg., Denver, Colo. 80202. Material from which copy can be made at private expense is available in this Denver office.

4. Temperature data from exploratory boreholes at the Supplemental Test Site, central Nevada: interim report, by Robert J. Munroe and T. H. Moses, Jr. 1 p., 13 figs., 1 table. 1012 Federal Bldg., Denver, Colo. 80202; 8102 Federal Office Bldg., Salt Lake City, Utah 84111; 504 Custom House, San Francisco, Calif. 94111; 7638 Federal Bldg., Los Angeles, Calif. 90012; Library, Mackay School of Mines, University of Nevada, Reno, Nev. 89507.

5. Mineral investigations in the Jabal Radwa quadrangle, northwest Hijaz, Saudi Arabia, by Robert F. Johnson and Virgil A. Trent. 10 p., 1 map, explanation, scale 1:100,000.

6. Experimental error in sample preparation and spectrographic analysis in the Jiddah laboratory, Saudi Arabia, by Paul K. Theobald, Jr., and Charles E. Thompson. 6 p., 1 table.

7. Mineral reconnaissance of the Bir al Bayda' quadrangle, northwest Hijaz, Saudi Arabia, by Robert F. Johnson and Virgil A. Trent. 13 p., 1 map, explanation, scale 1:100,000.

8. Mineral reconnaissance in the southern part of the Wadi Azlam quadrangle, Saudi Arabia, by Robert F. Johnson and Virgil A. Trent. 4 p., 1 map, explanation, scale 1:100,000.

9. Mineral reconnaissance of the Wadi al 'Ays quadrangle, Saudi Arabia, by Robert F. Johnson and Virgil A. Trent. 8 p., 1 map, explanation, scale 1:100,000.

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Temperature data from exploratory boreholes at the Supplemental Test Site, central Nevada: Interim report

By Robert J. Munroe and T. H. Moses, Jr.

Introduction

In cooperation with the U.S. Atomic Energy Commission, the U.S. Geological Survey is making precise temperature measurements in exploratory boreholes at the Supplemental Test Site, central Nevada. Together with thermal properties measurements made on the core, and additional temperature measurements in progress these data will be used to estimate geothermal flux from the area. The purpose of this interim report is to make our preliminary temperature measurements available to other interested groups.

The locations of the sites are shown on figure 1, and data pertinent to the state of disequilibrium at the time of measurement are tabulated in table 1. In the geothermal profiles (figs. 2 through 13) the temperature is given in degrees centigrade and the depth (Z) in meters.

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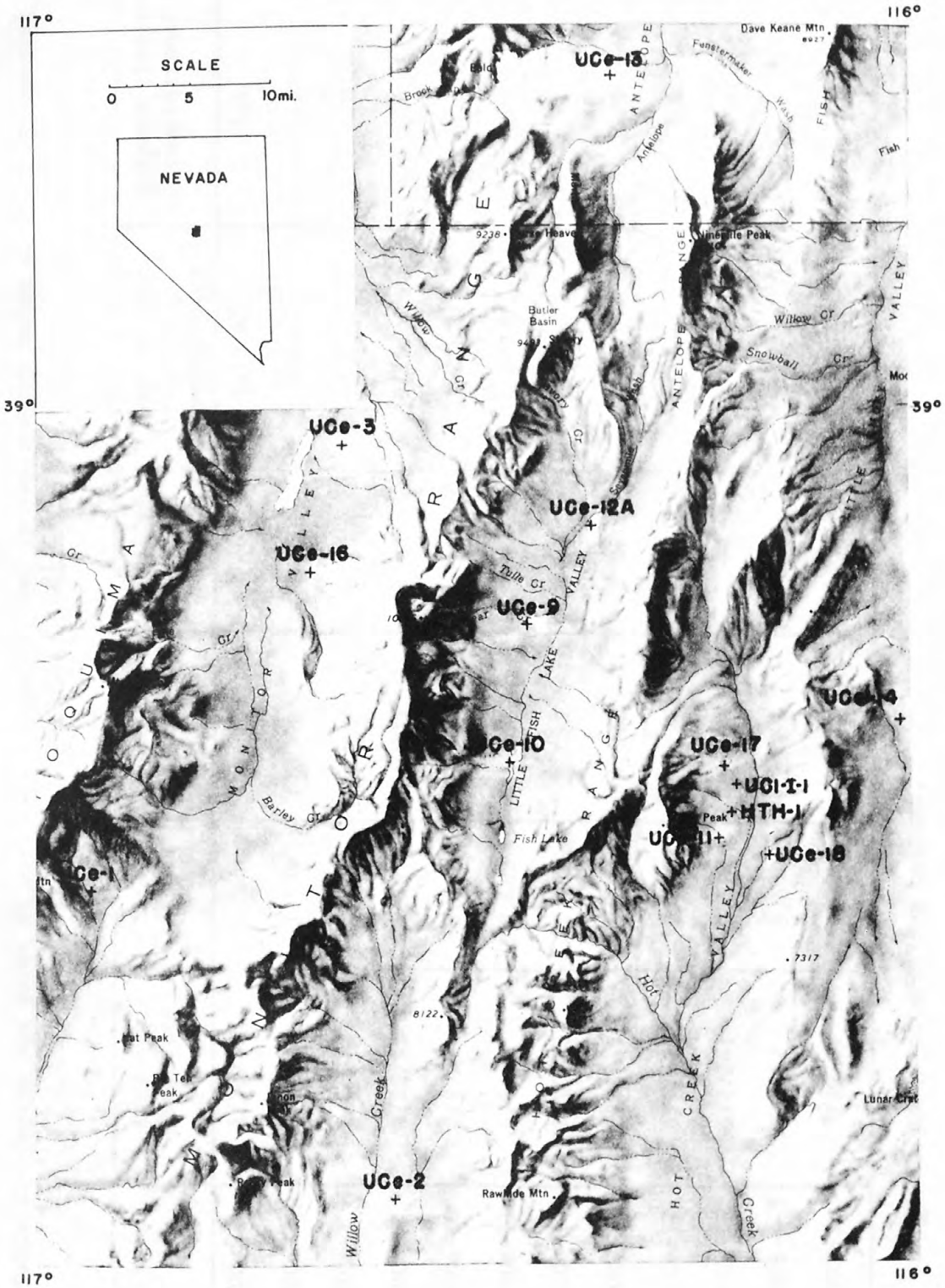

Figure 1.--Map of central Nevada showing locations of 12 drill holes from which temperature data have been taken.

Table 1.--Depths and dates of most recent temperatures in exploratory holes at the Supplemental Test Site, Central Nevada

Hole	Drilling Completed	Total depth of hole (feet)	Total depth of hole (meters)	Drilling period (days)	Date of most recent temperatures	Elapsed time since completion[1/]
UCe-1	1/30/67	2,000	610	66	9/13/67	3.4
UCe-2	1/7/67	1,659	506	48	9/14/67	5.2
UCe-3	2/4/67	2,000	610	75	9/13/67	3.0
UCe-9	2/20/67	3,297	1,005	81	9/14/67	2.6
UCe-10	2/9/67	2,963	903	50	3/9/67	0.6
UCe-12a	4/6/67	3,482	1,061	36	9/15/67	4.5
UCe-14	12/30/66	1,548	472	9	9/17/67	32.4
UCe-16	3/23/67	4,353	1,327	30	3/20/67	0.0
UCe-17	6/7/67	7,978	2,432	57	9/16/67	1.8
UCe-18	5/27/67	6,514	1,985	77	9/18/67	1.1
UCl-I-1	8/3/67	3,500	1,067	42	9/17/67	1.1
HTH-1	7/16/67	3,700	1,128	18	9/17/67	3.4

1/ In terms of drilling periods.

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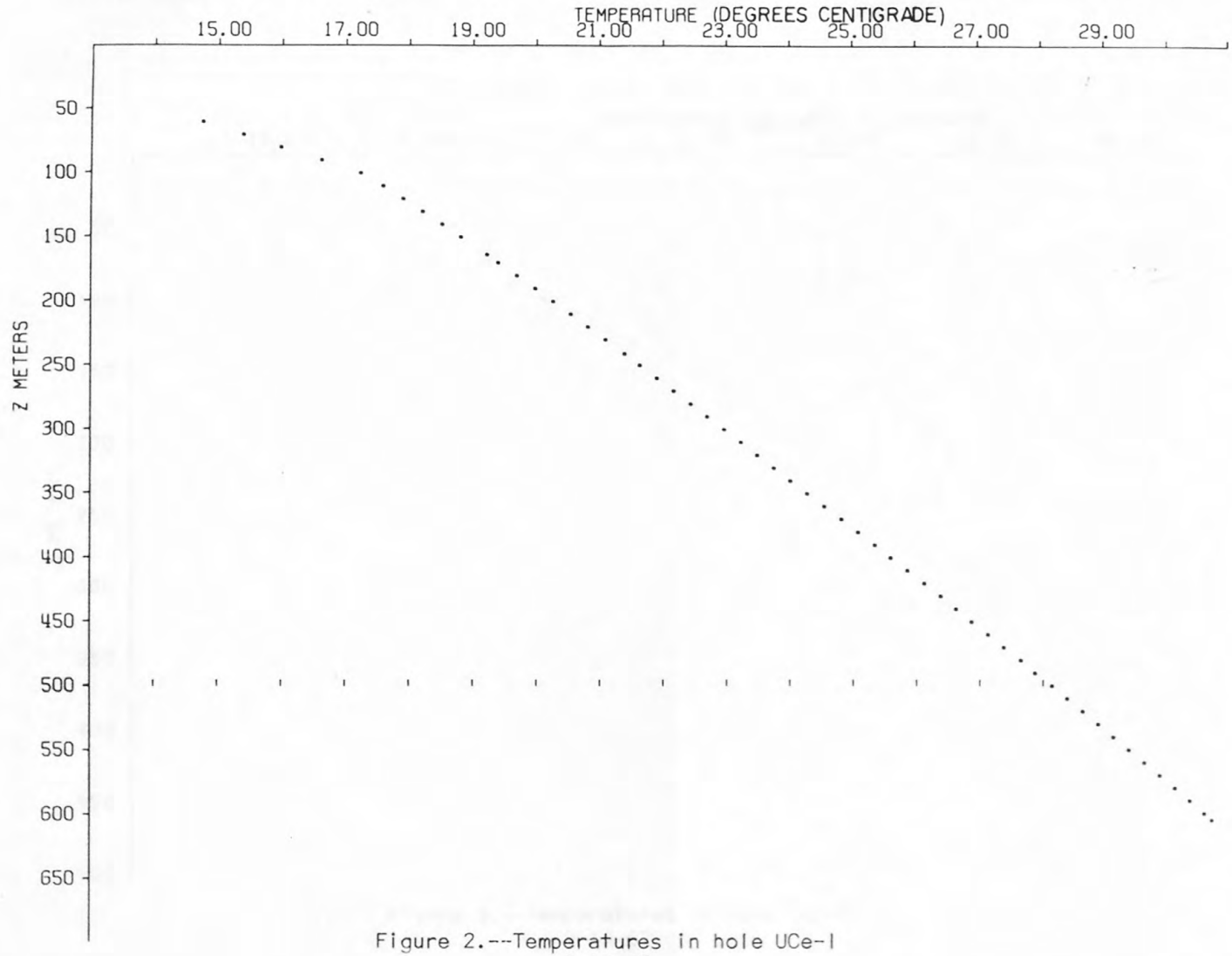

Figure 2.--Temperatures in hole UCe-1
9-13-67

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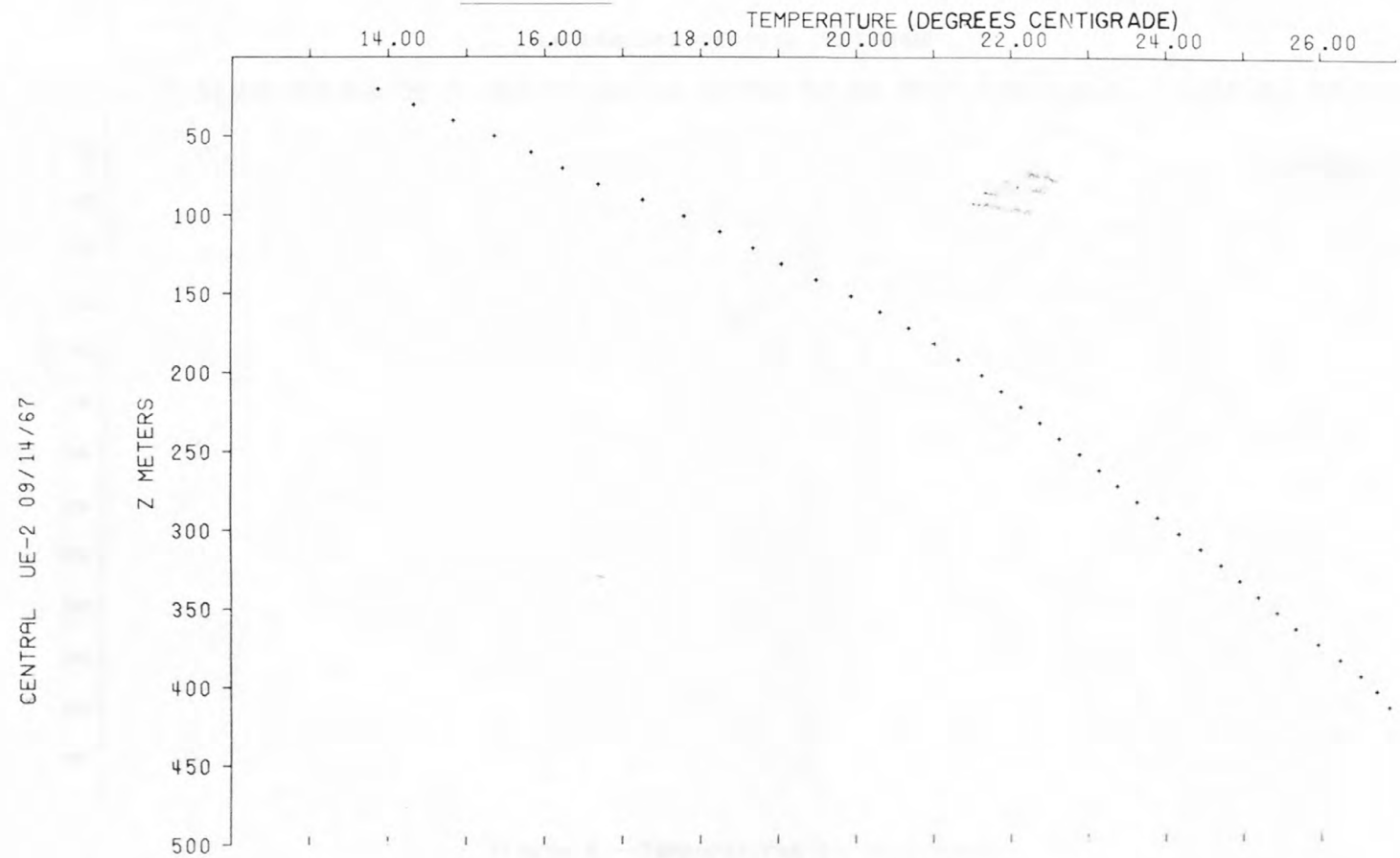

Figure 3.--Temperatures in hole UCe-2
9-14-67

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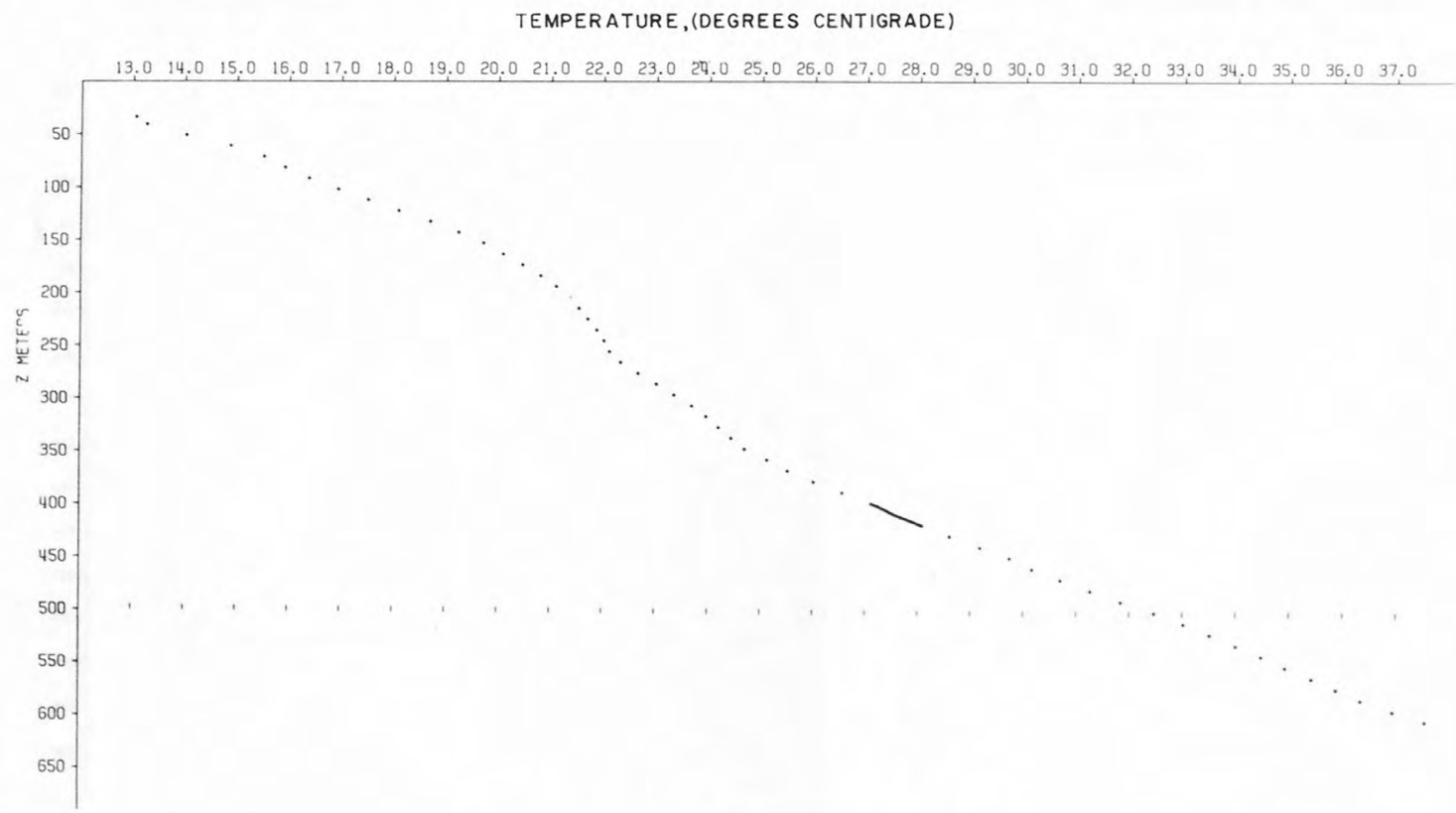

Figure 4.--Temperatures in hole UCe-3
9-13-67

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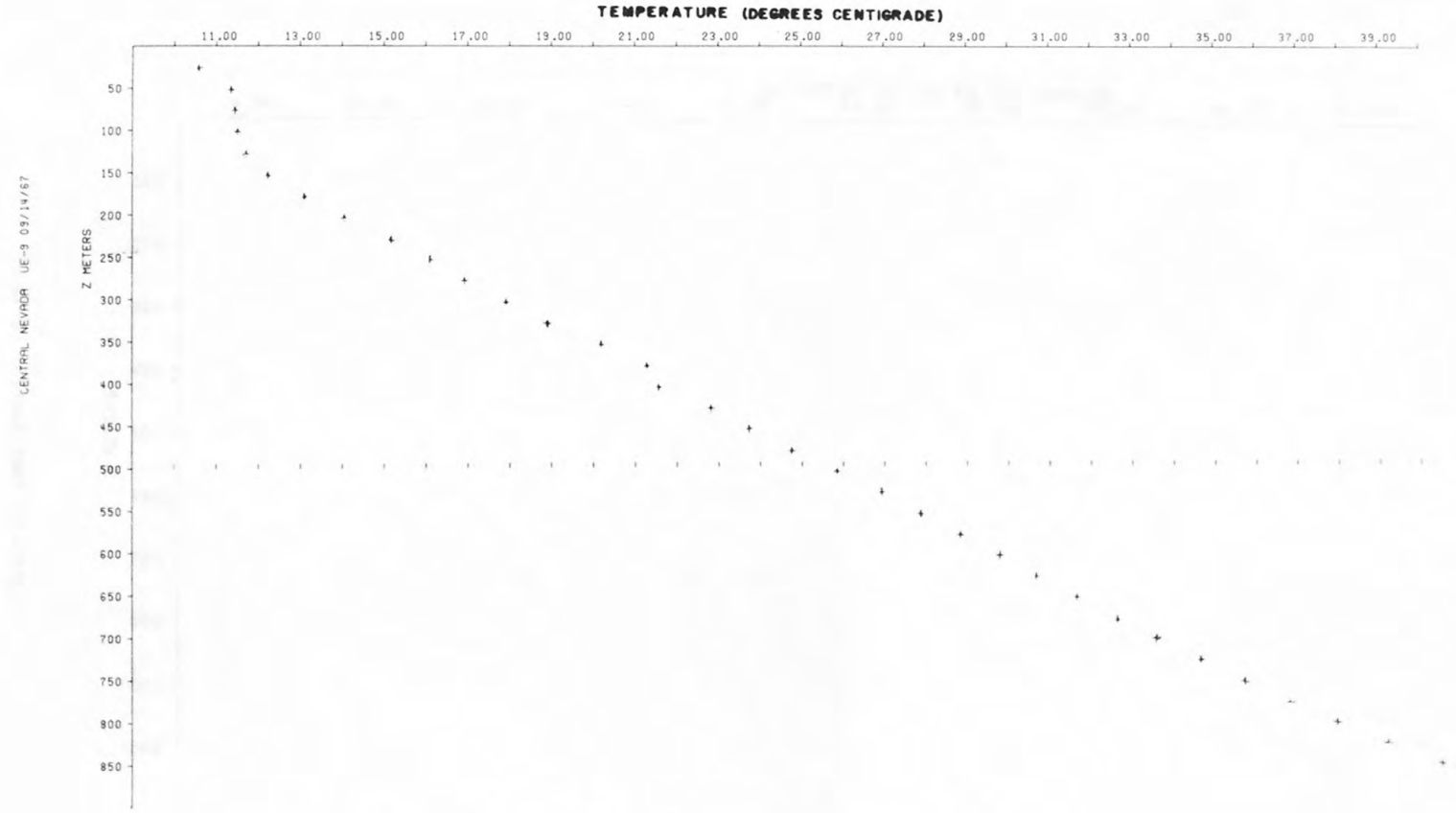

Figure 5.--Temperatures in hole UCe-9
9-14-67

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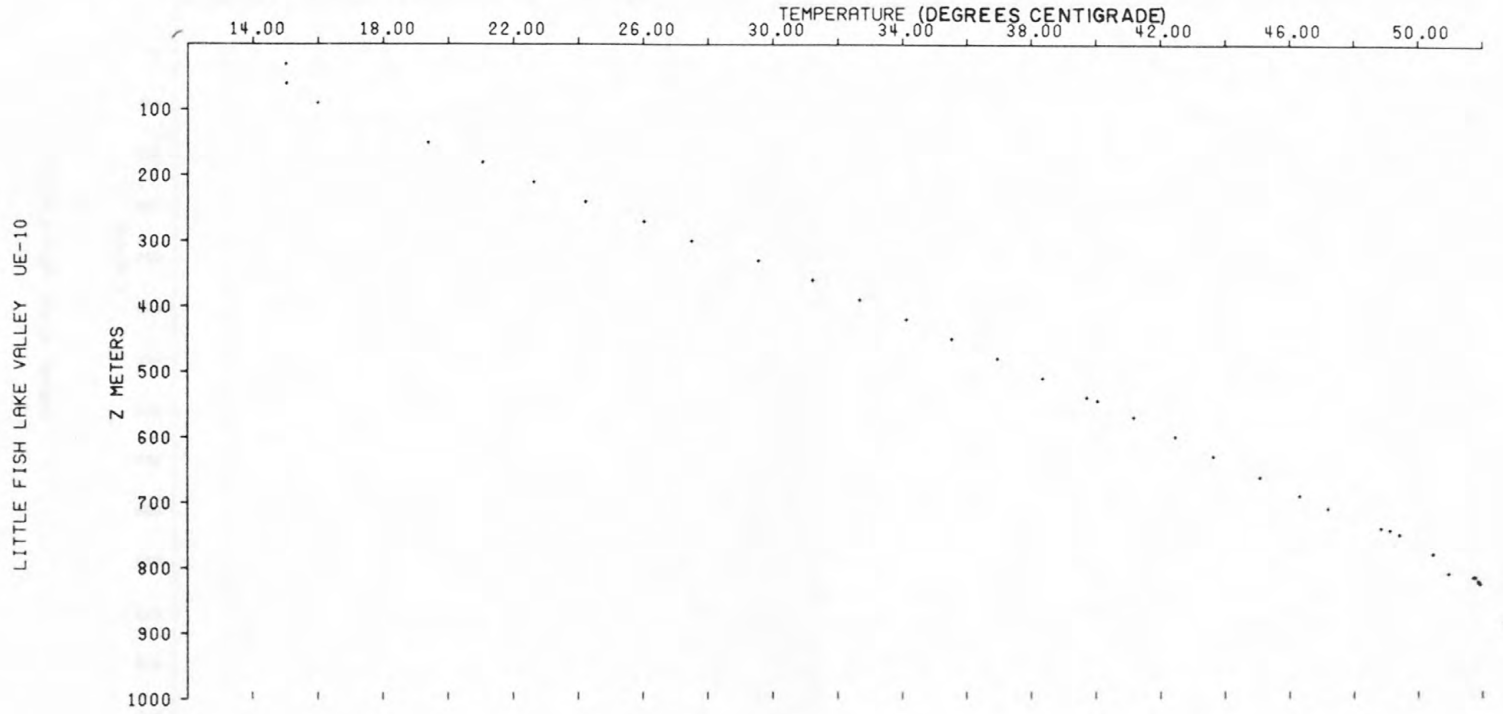

Figure 6.--Temperatures in hole UCe-10
3-9-67

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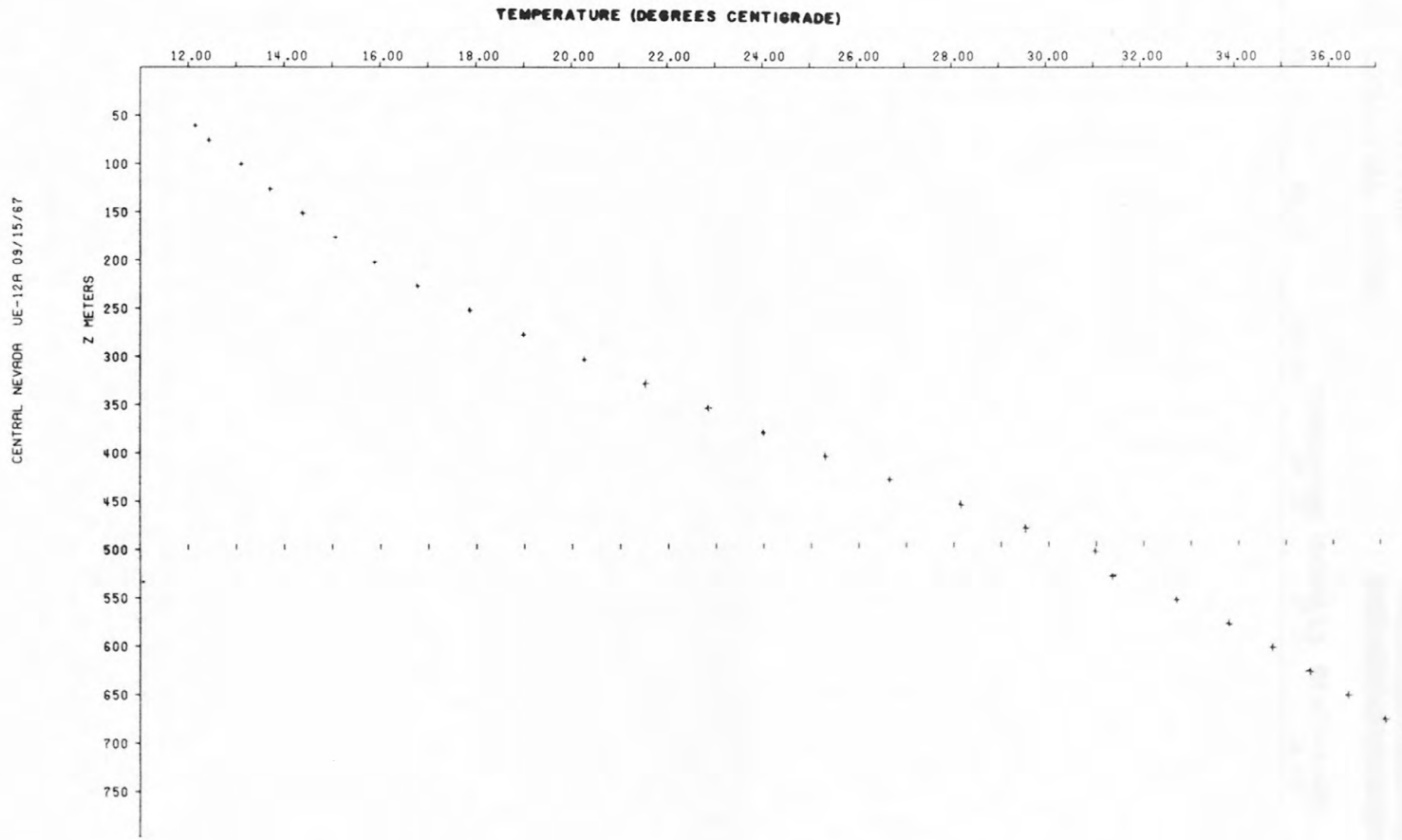

Figure 7.--Temperatures in hole UCe-12A
9-15-67

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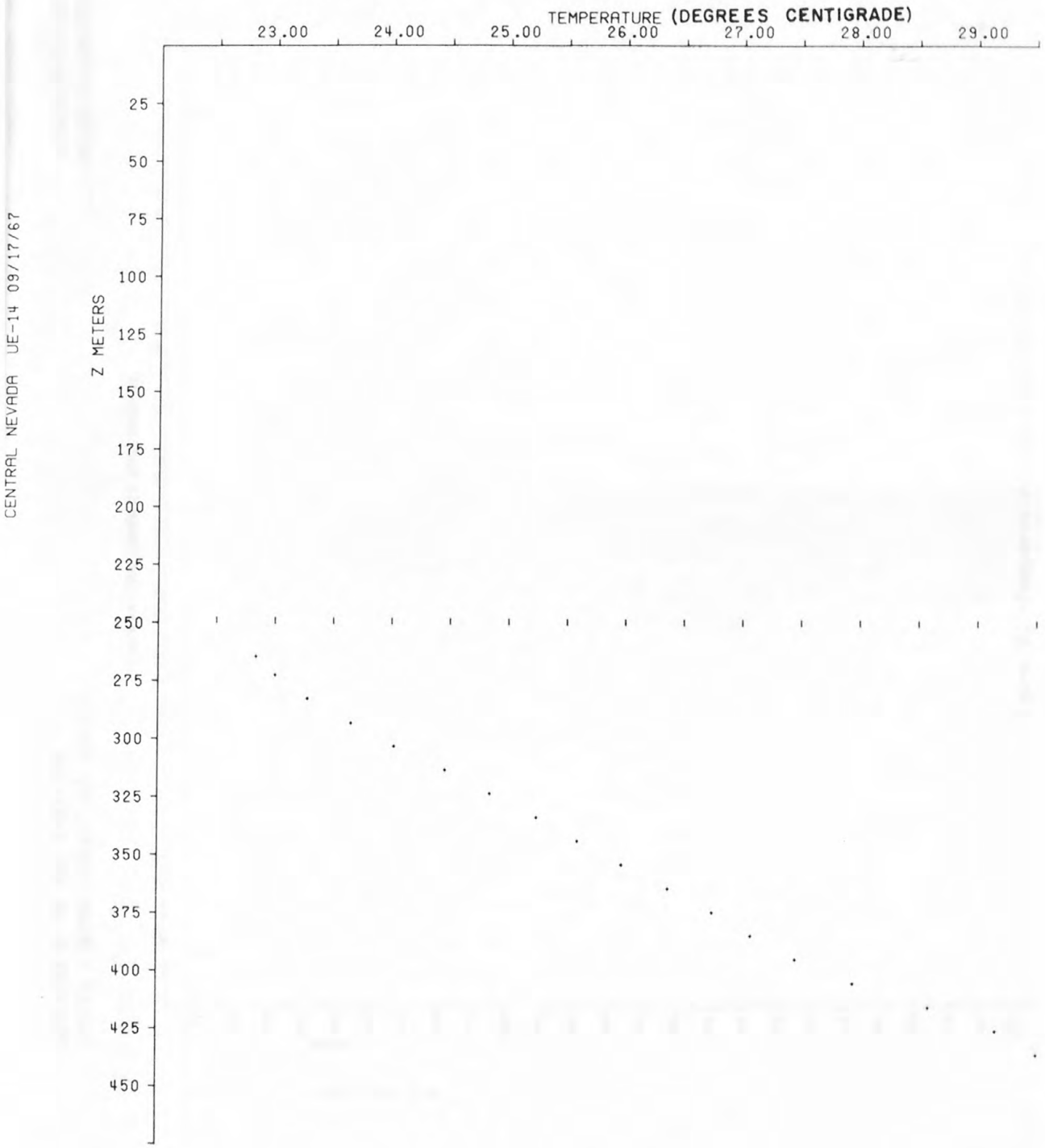

Figure 8.--Temperatures in hole UCe-14
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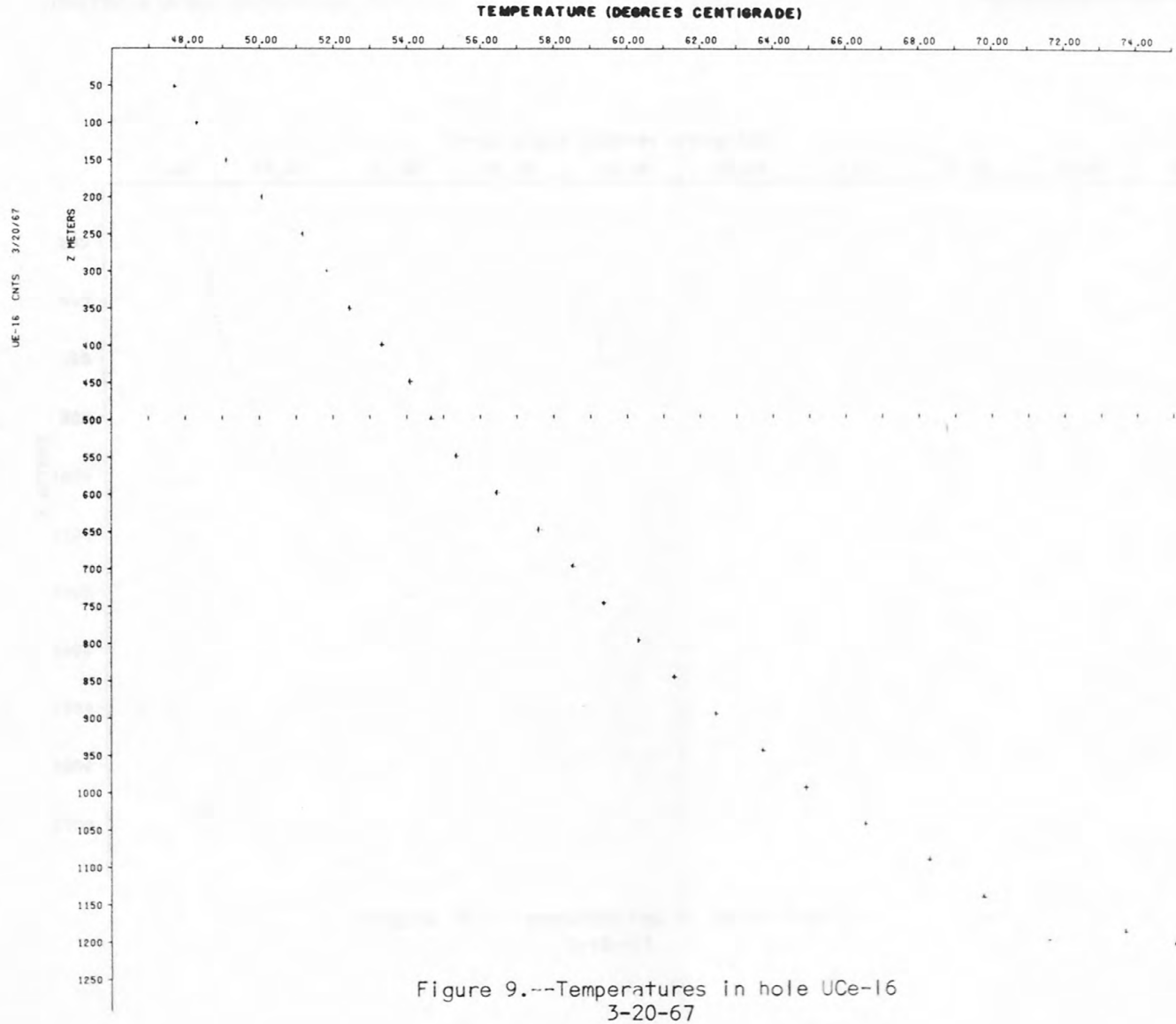

Figure 9.--Temperatures in hole UCe-16
3-20-67

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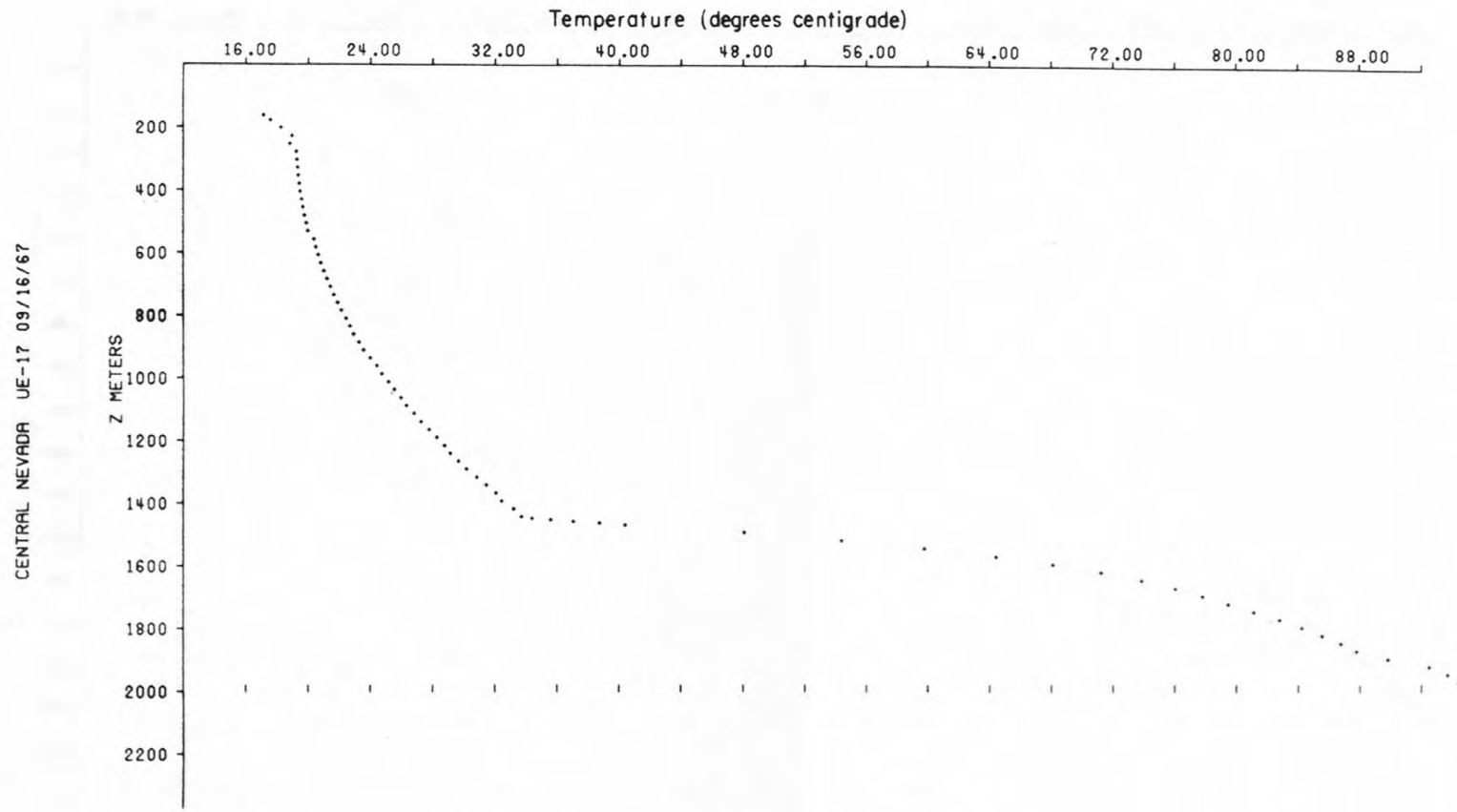

Figure 10.--Temperatures in hole UCe-17
9-16-67

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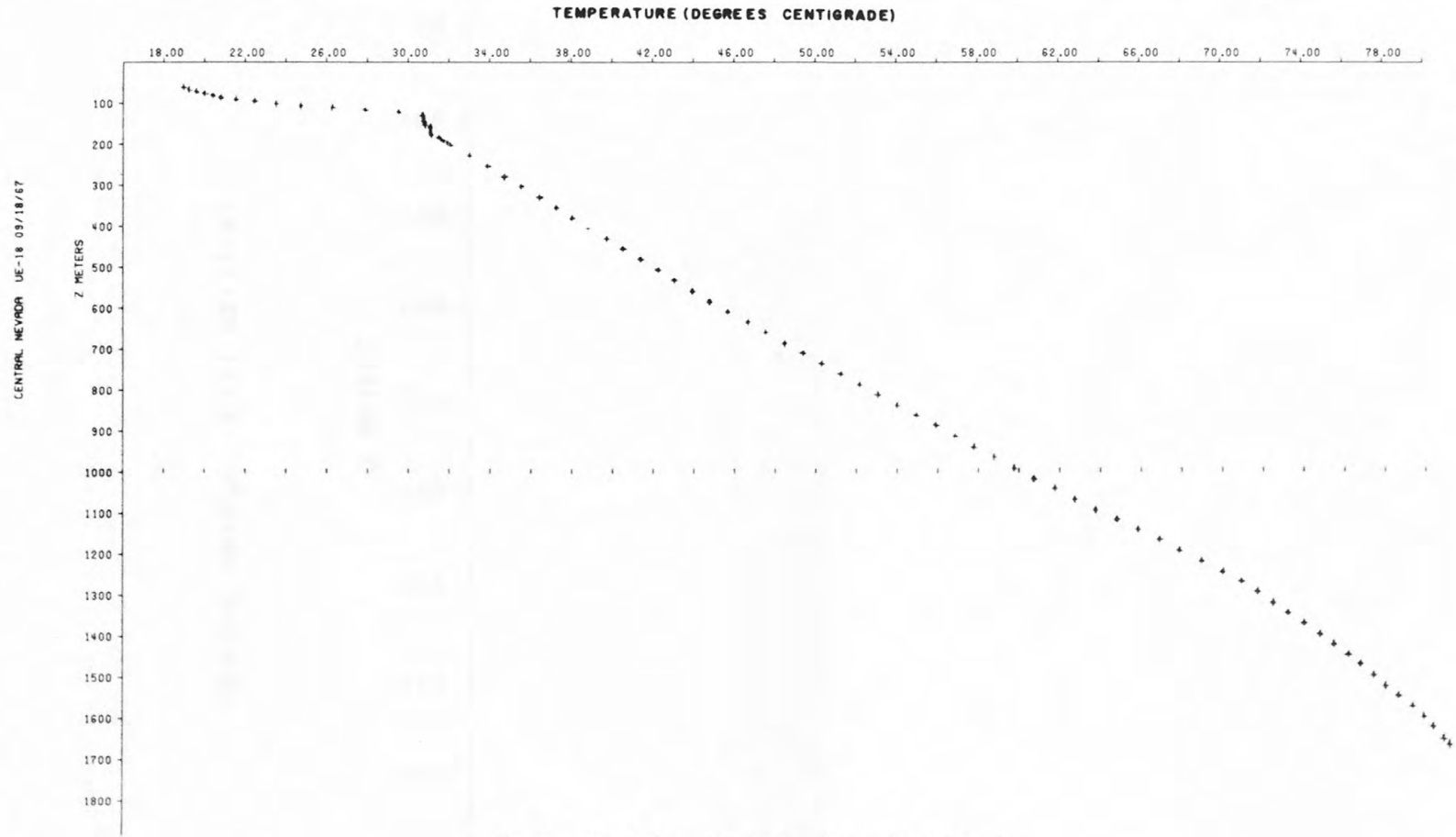

Figure 11.--Temperatures in hole UCe-18
9-18-67

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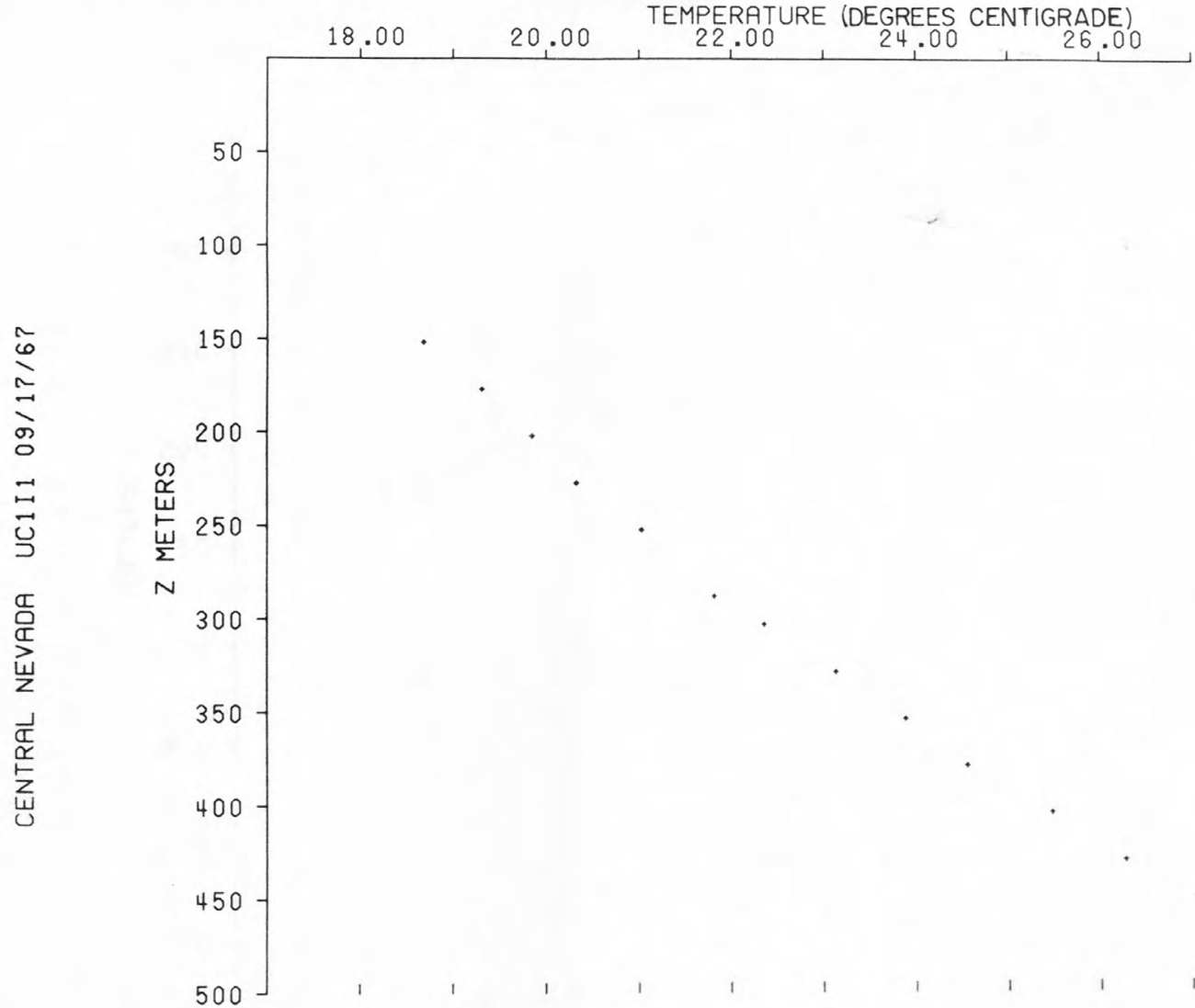

Figure 12.--Temperatures in hole UCI-I-1
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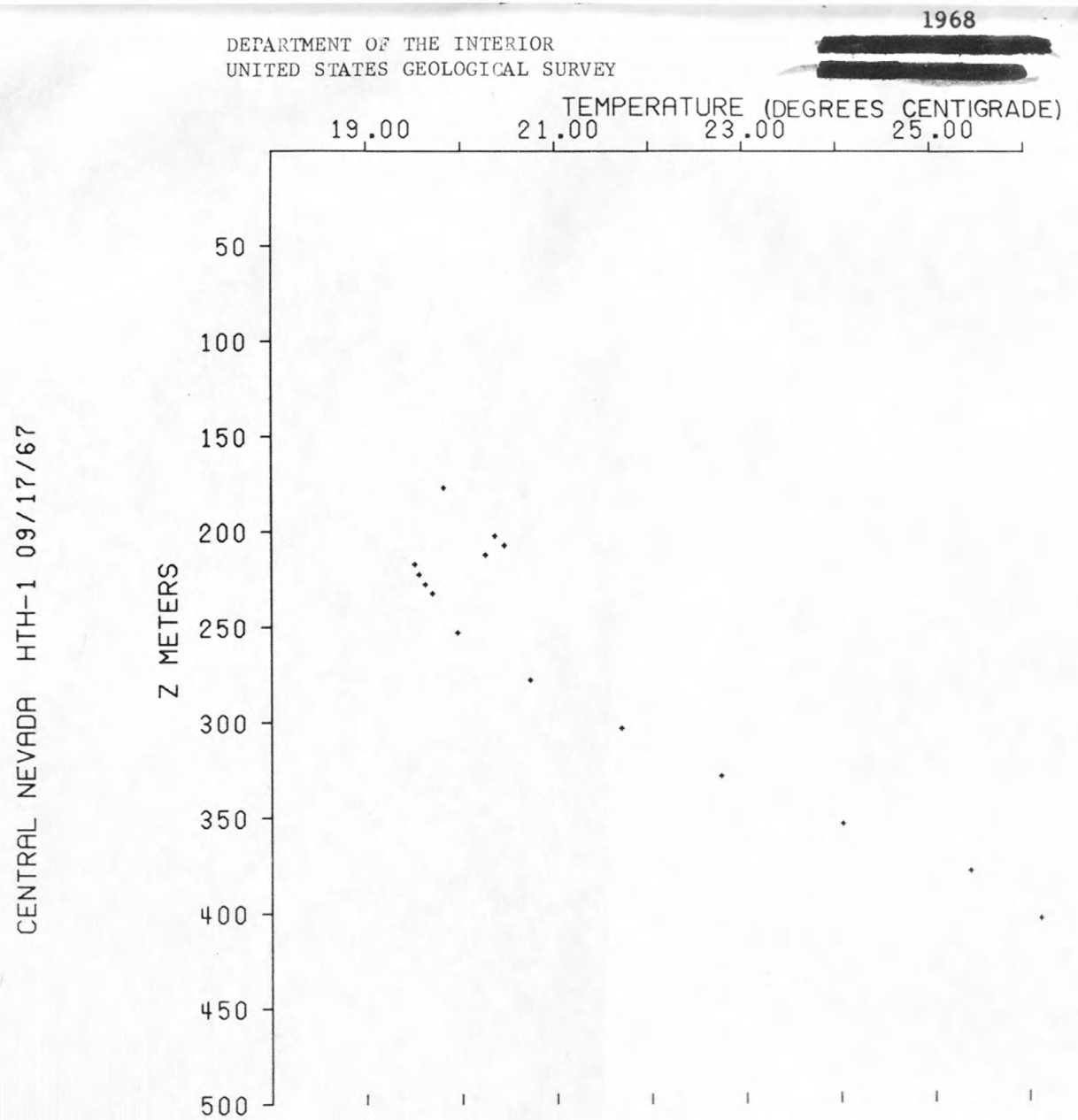

Figure 13.--Temperatures in hole HTH-1
9-17-67