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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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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Open-file report
1968

This report is preliminary and has not
been edited or reviewed for conformity
with U.S. Geological Survey standards.

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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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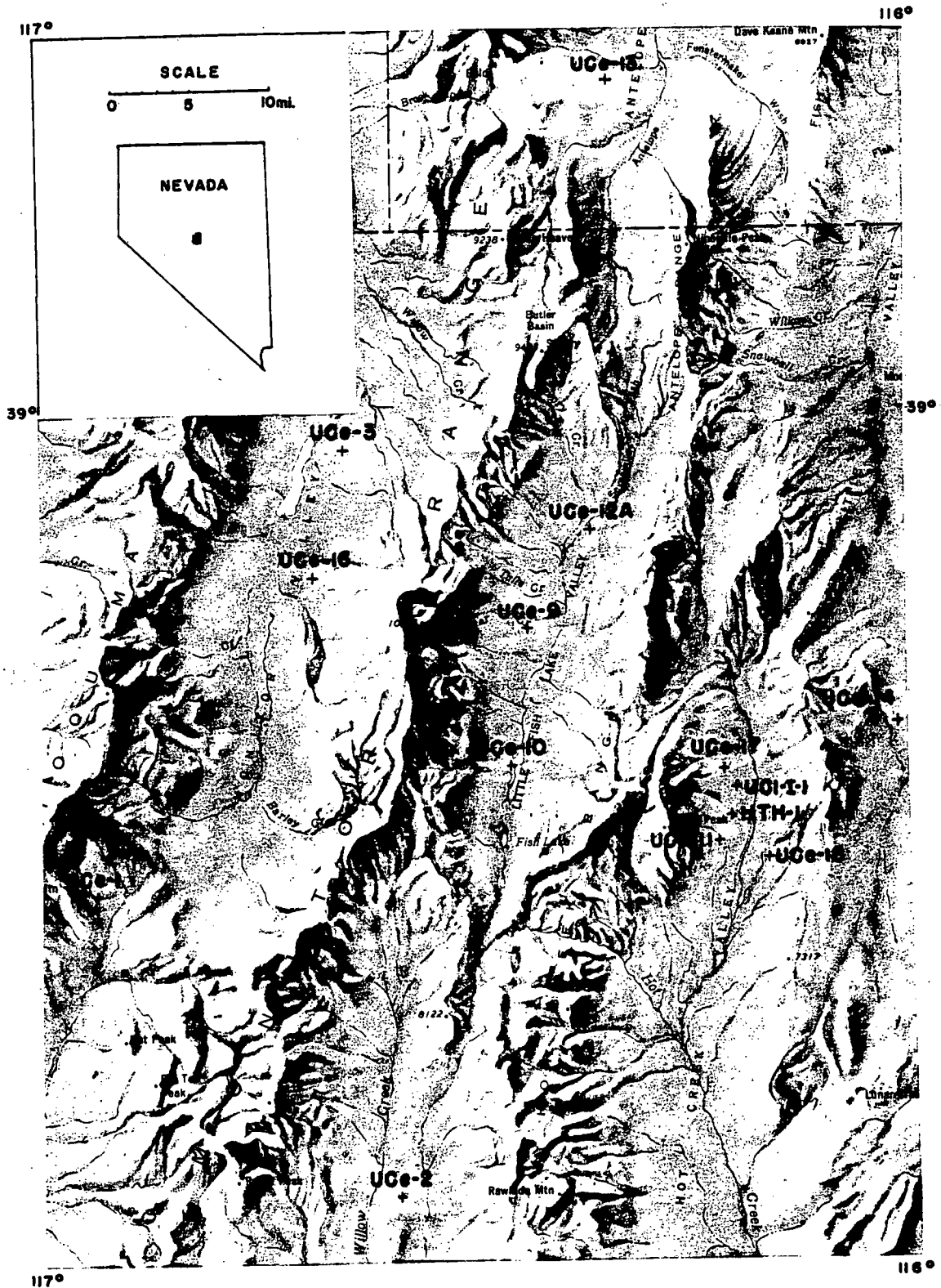


Figure 1.--Map of central Nevada showing locations of 12 drill holes from which temperature data have been taken.

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		Drilling period (days)	Date of most recent temperatures	Elapsed time since completion ^{1/}
		(feet)	(meters)			
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
UCI-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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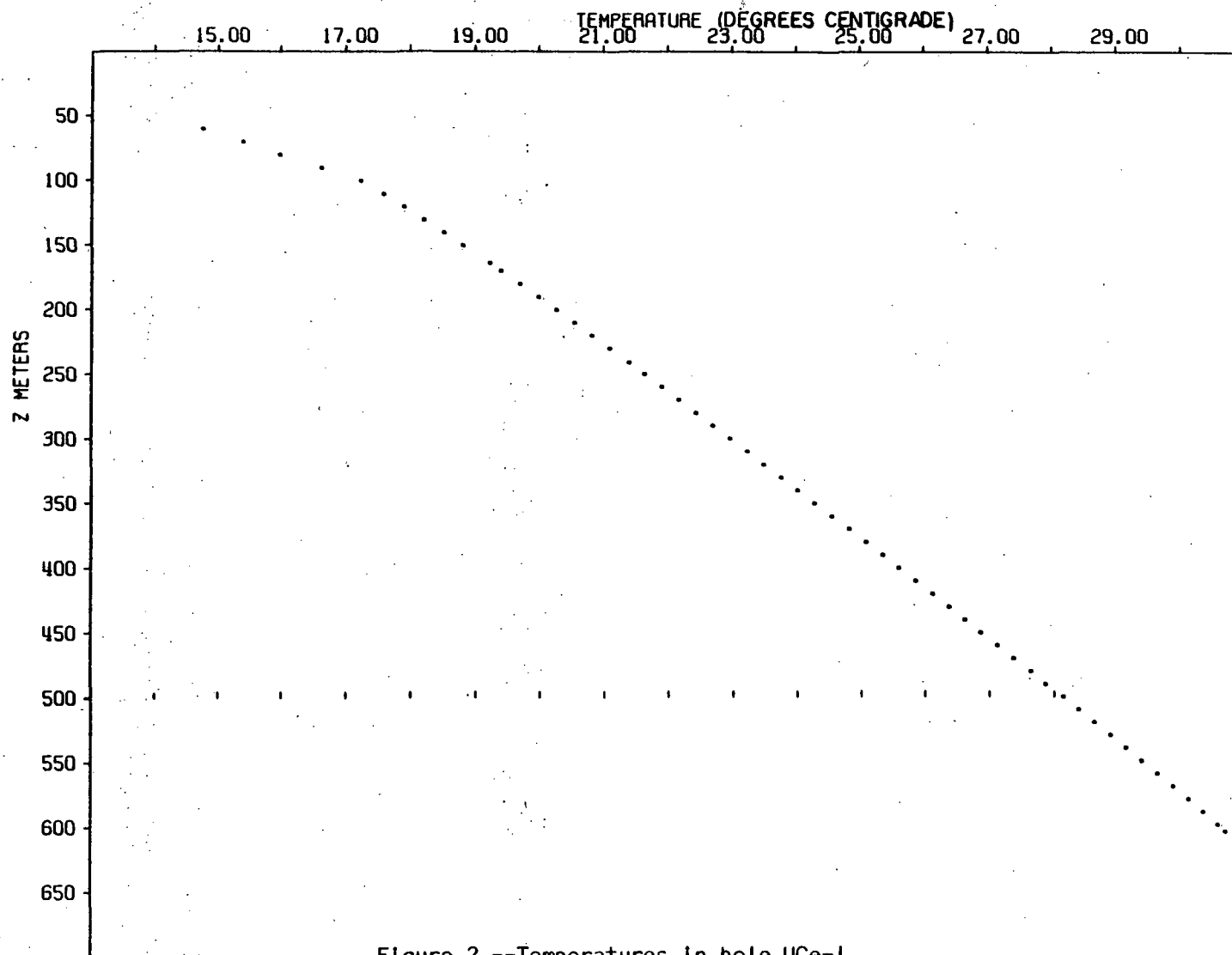


Figure 2.--Temperatures in hole UCe-1
9-13-67

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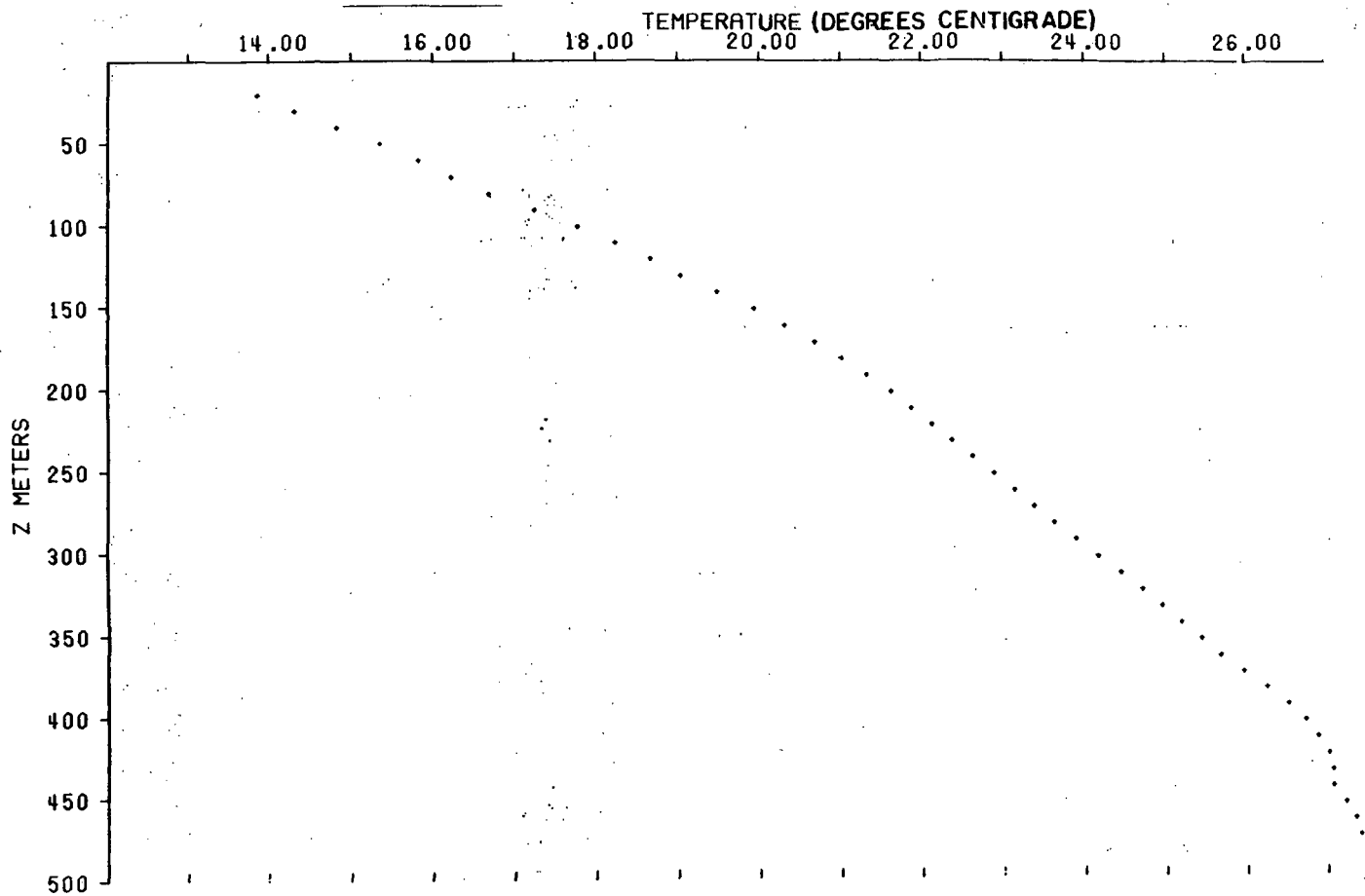


Figure 3.--Temperatures in hole UCe-2
9-14-67

CENTRAL UE-2 09/14/67

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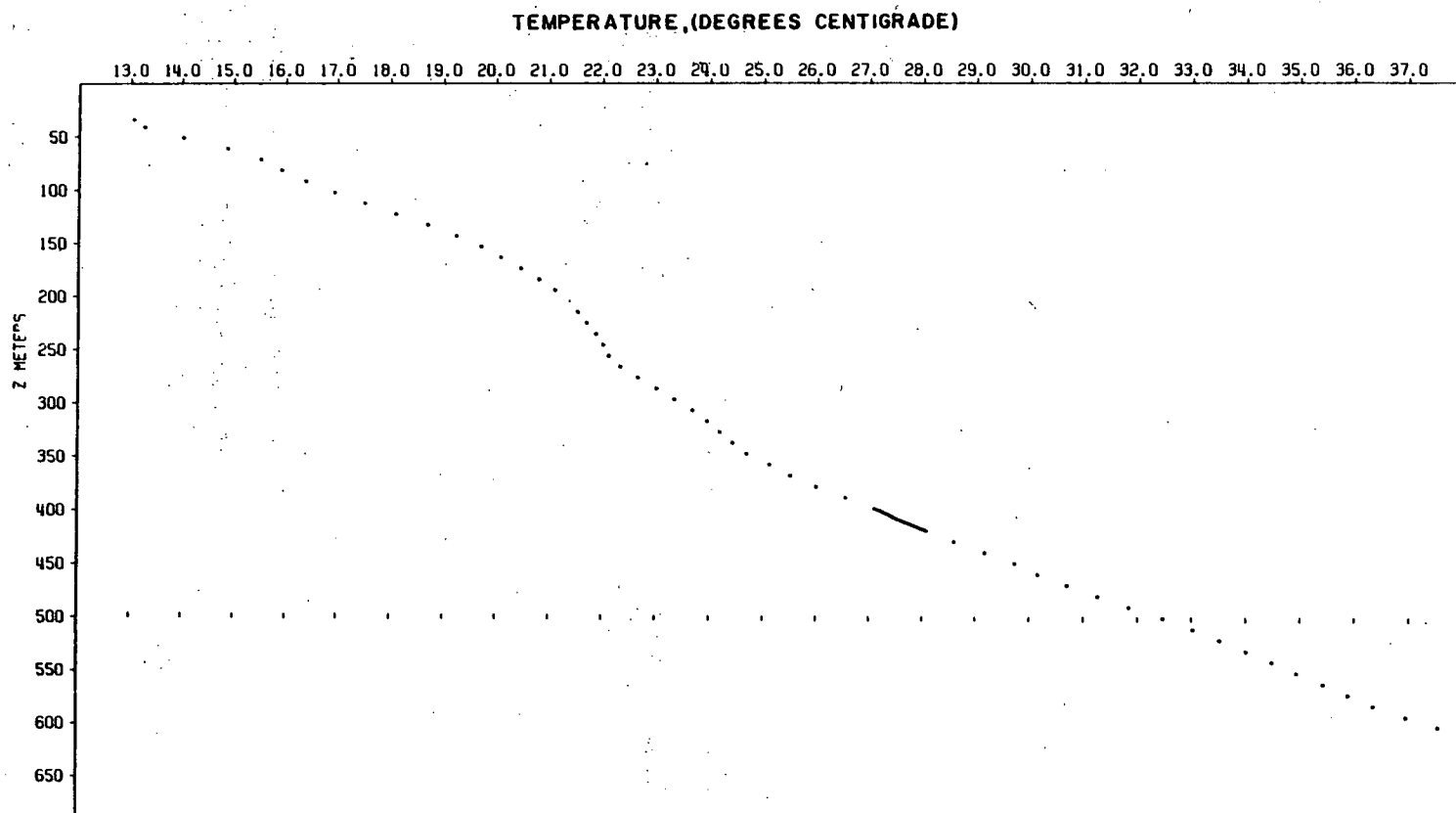


Figure 4.--Temperatures in hole UCe-3
9-13-67

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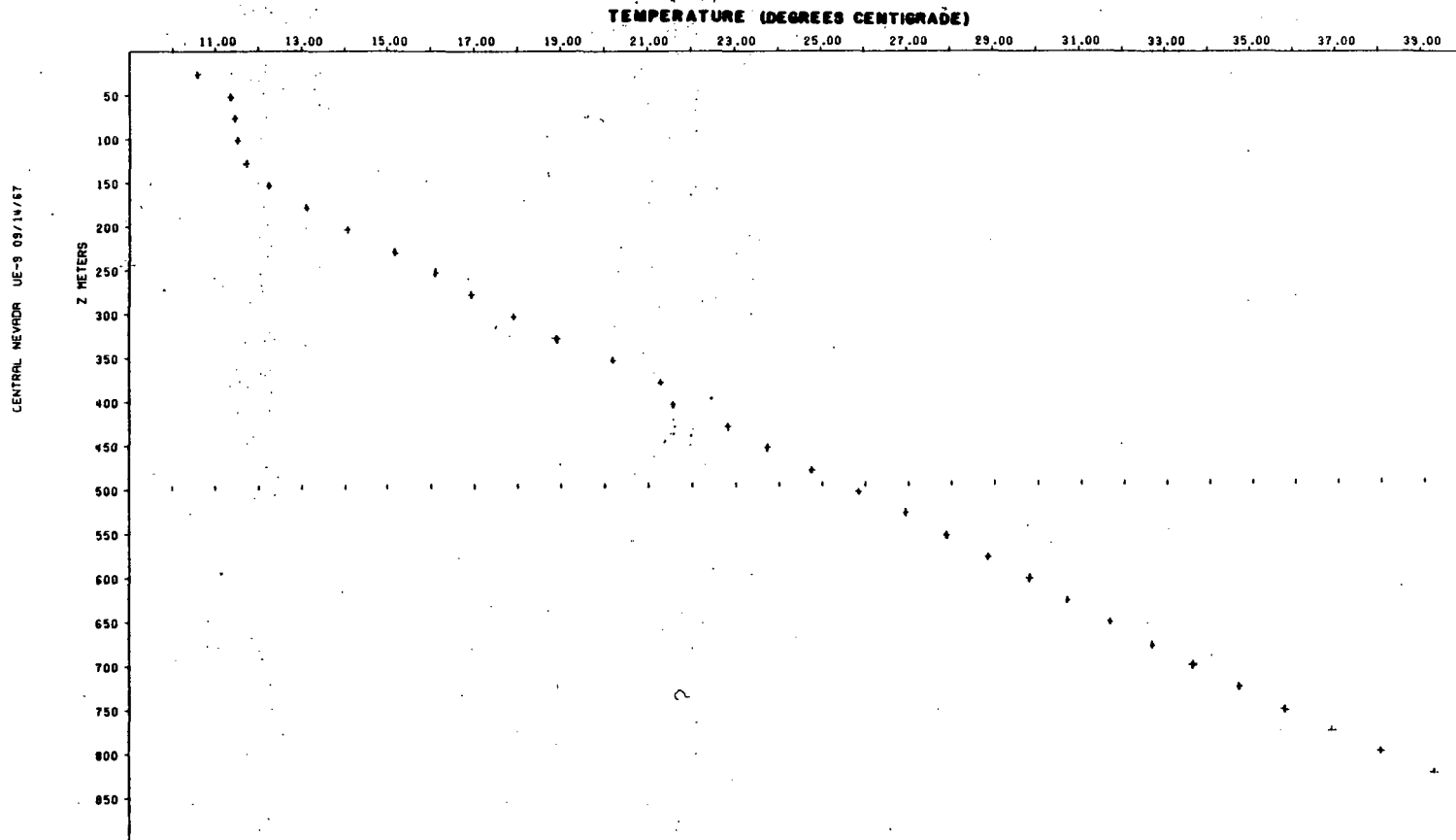


Figure 5.--Temperatures in hole UCe-9
9-14-67

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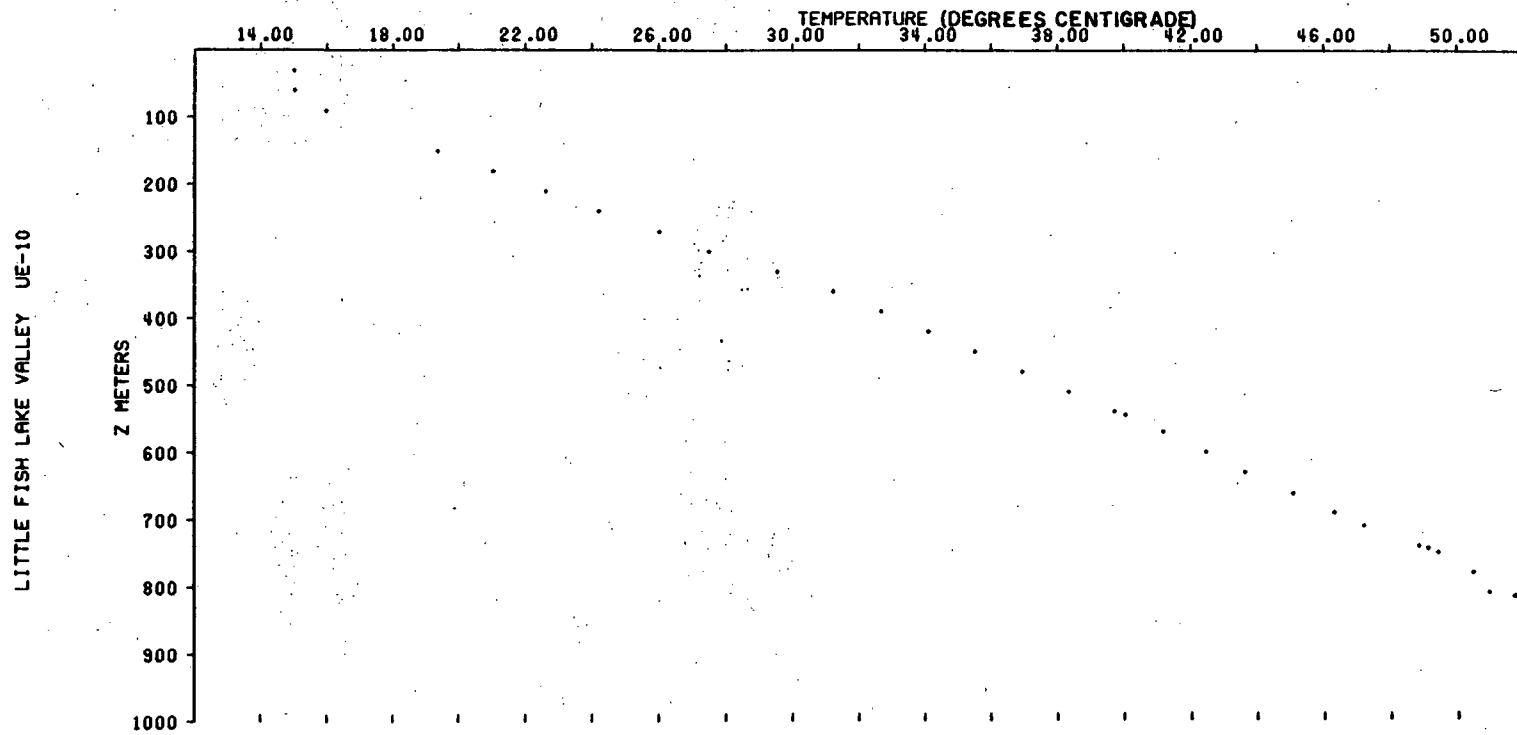


Figure 6.--Temperatures In hole UCe-10
3-9-67

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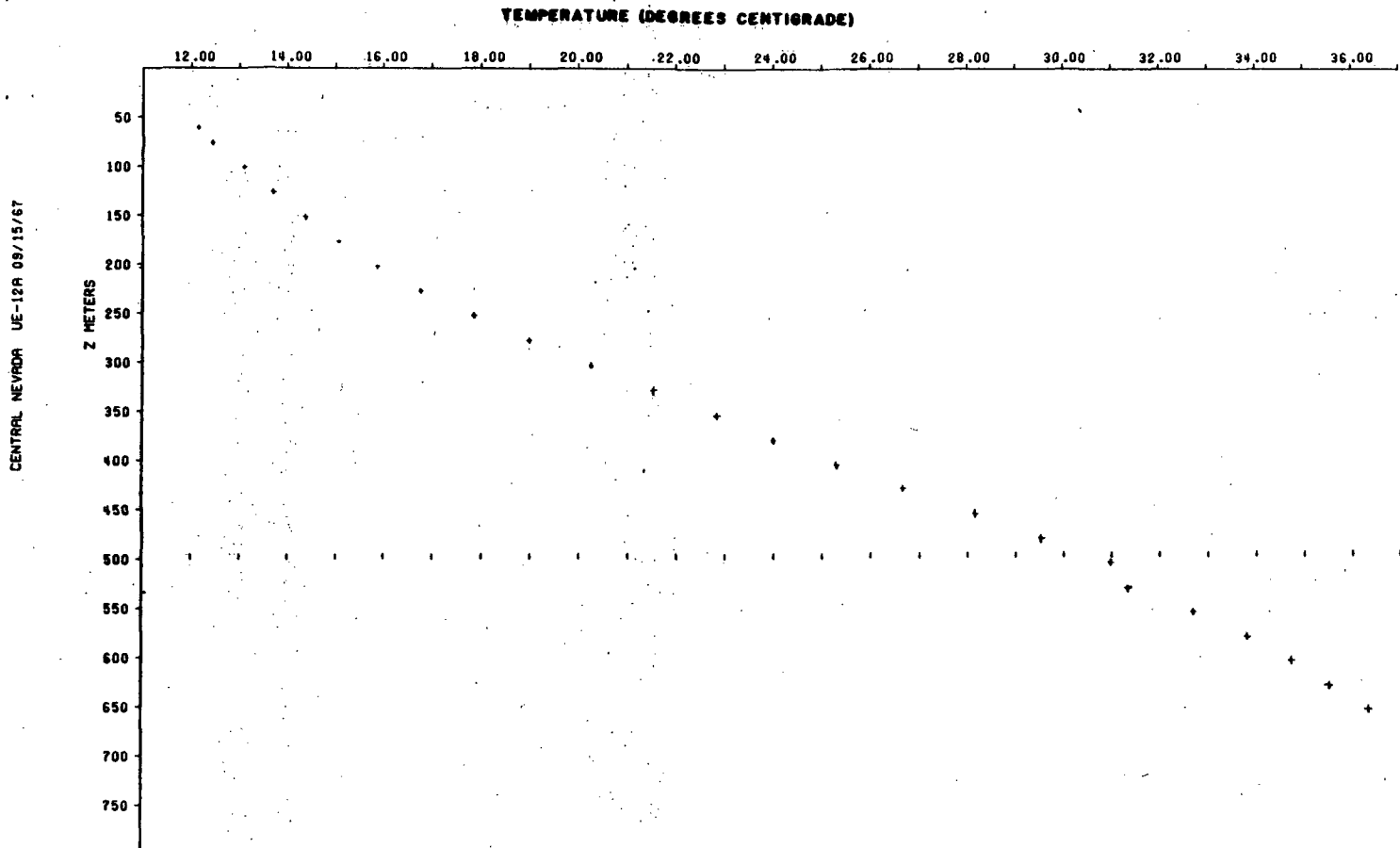


Figure 7.--Temperatures in hole UCe-12A
9-15-67

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CENTRAL NEVADA UE-14 09/17/67

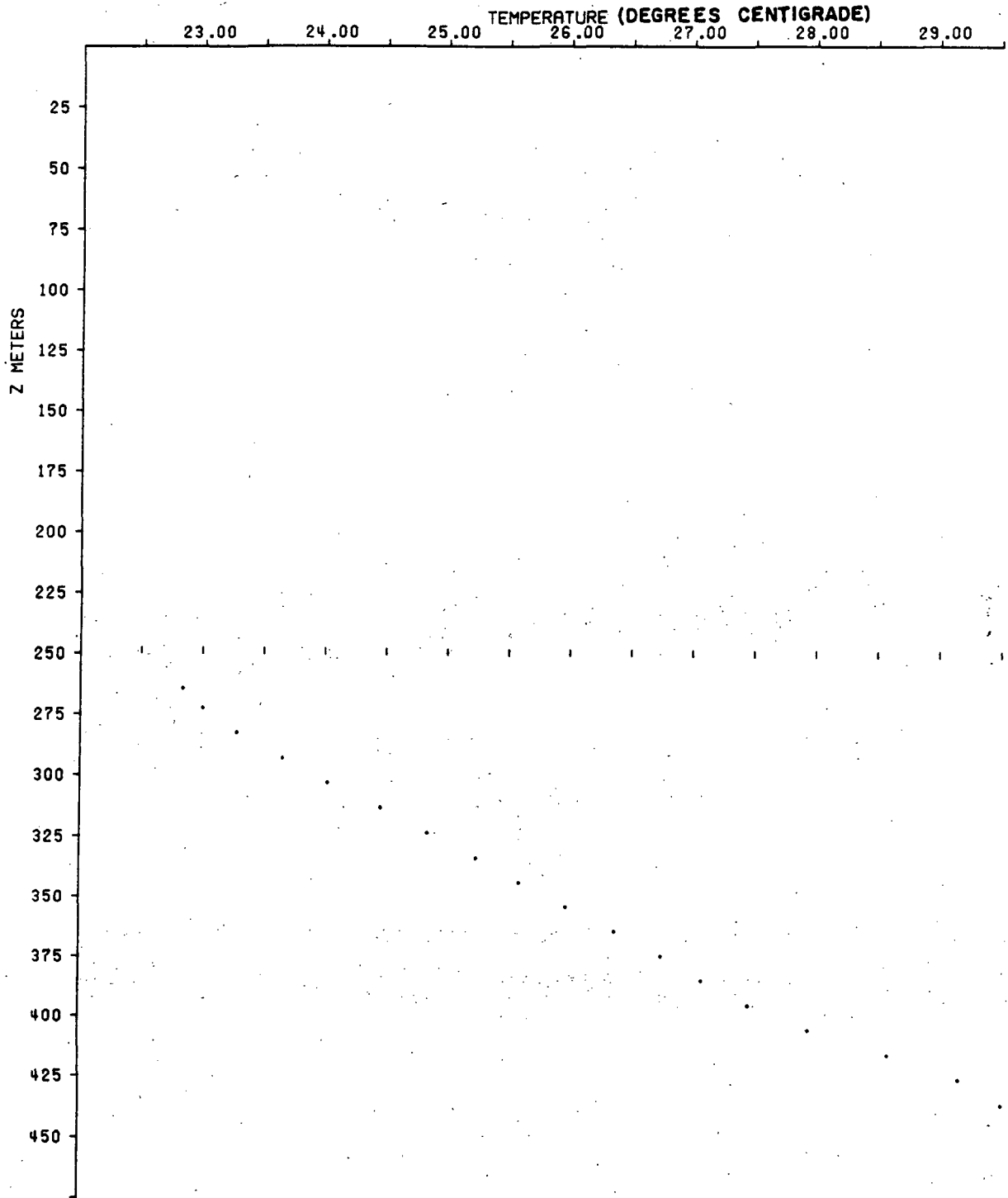


Figure 8.--Temperatures in hole UCe-14
9-17-67

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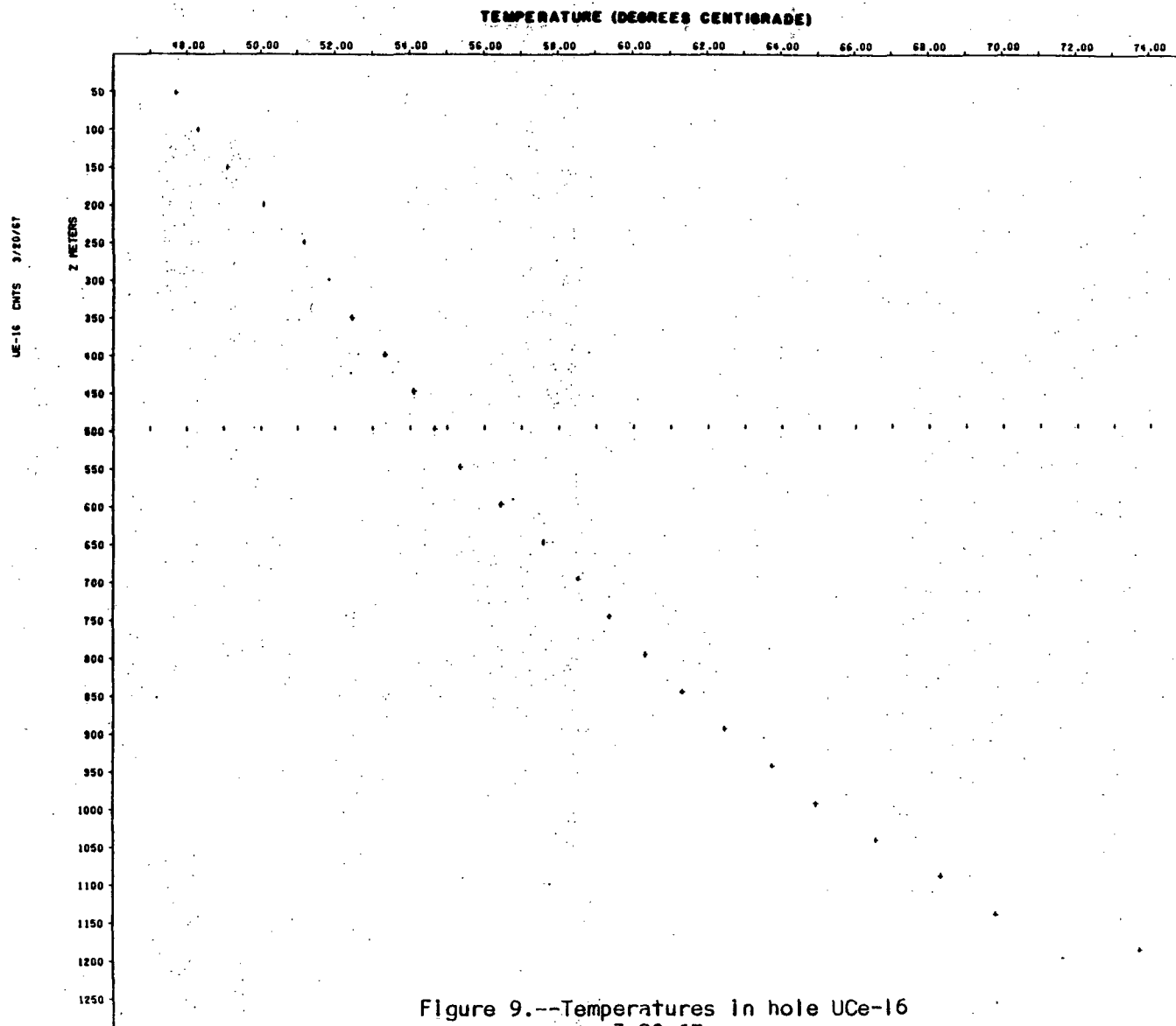
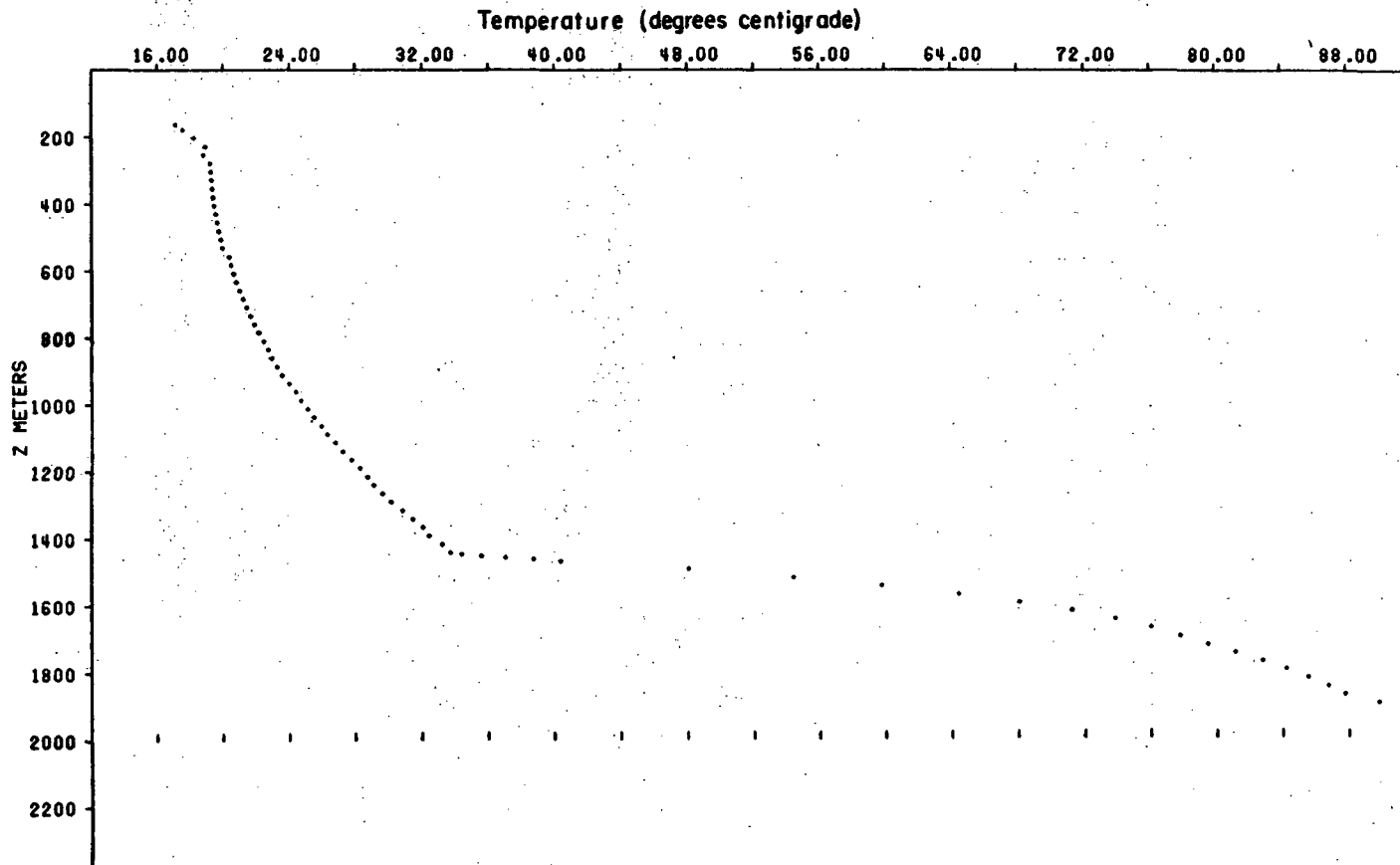


Figure 9.--Temperatures in hole UCe-16
3-20-67

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CENTRAL NEVADA UE-17 09/16/67

Figure 10.--Temperatures in hole UCe-17
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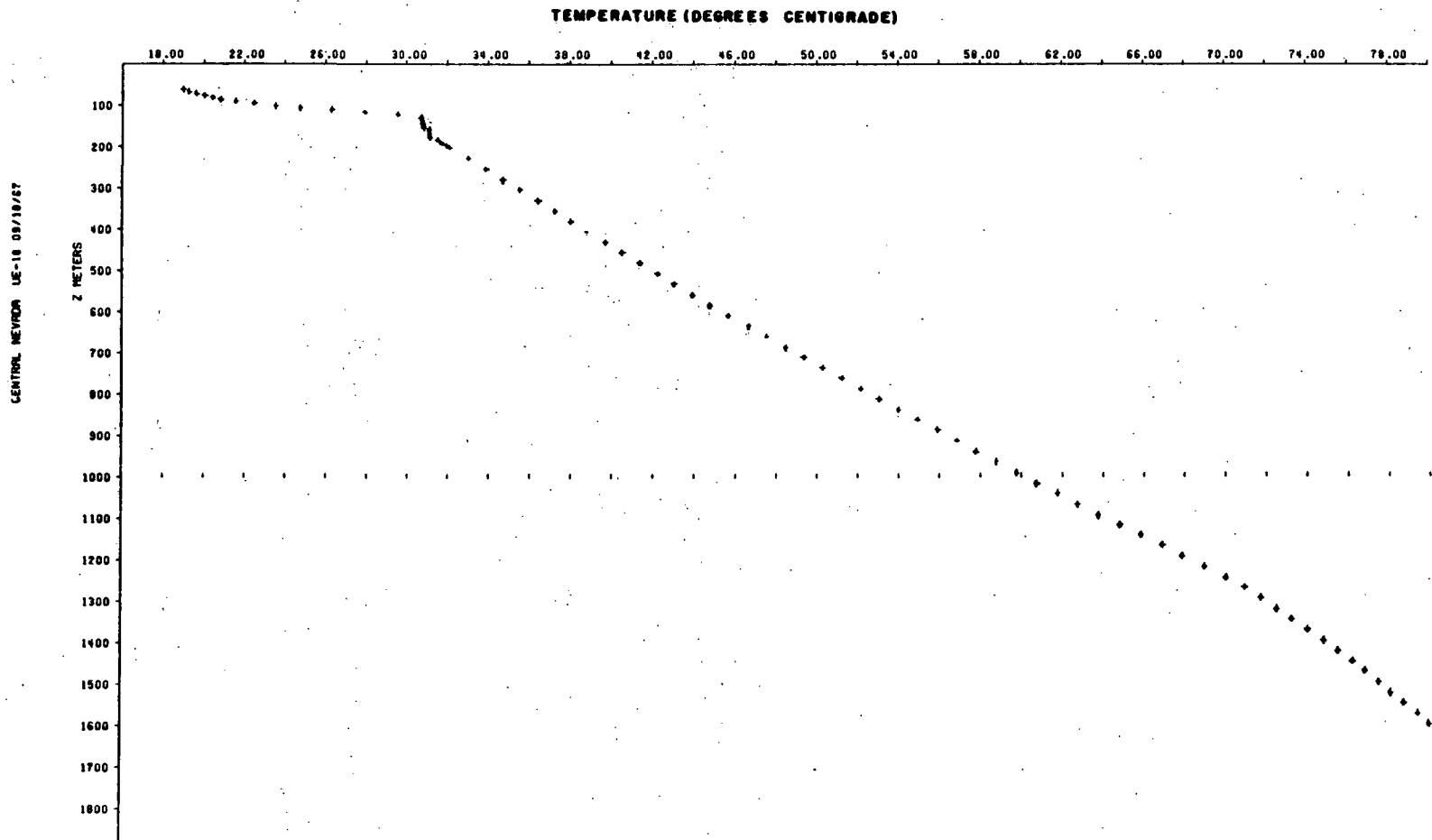


Figure 11.--Temperatures in hole UCe-18
9-18-67

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CENTRAL NEVADA UC111 09/17/67

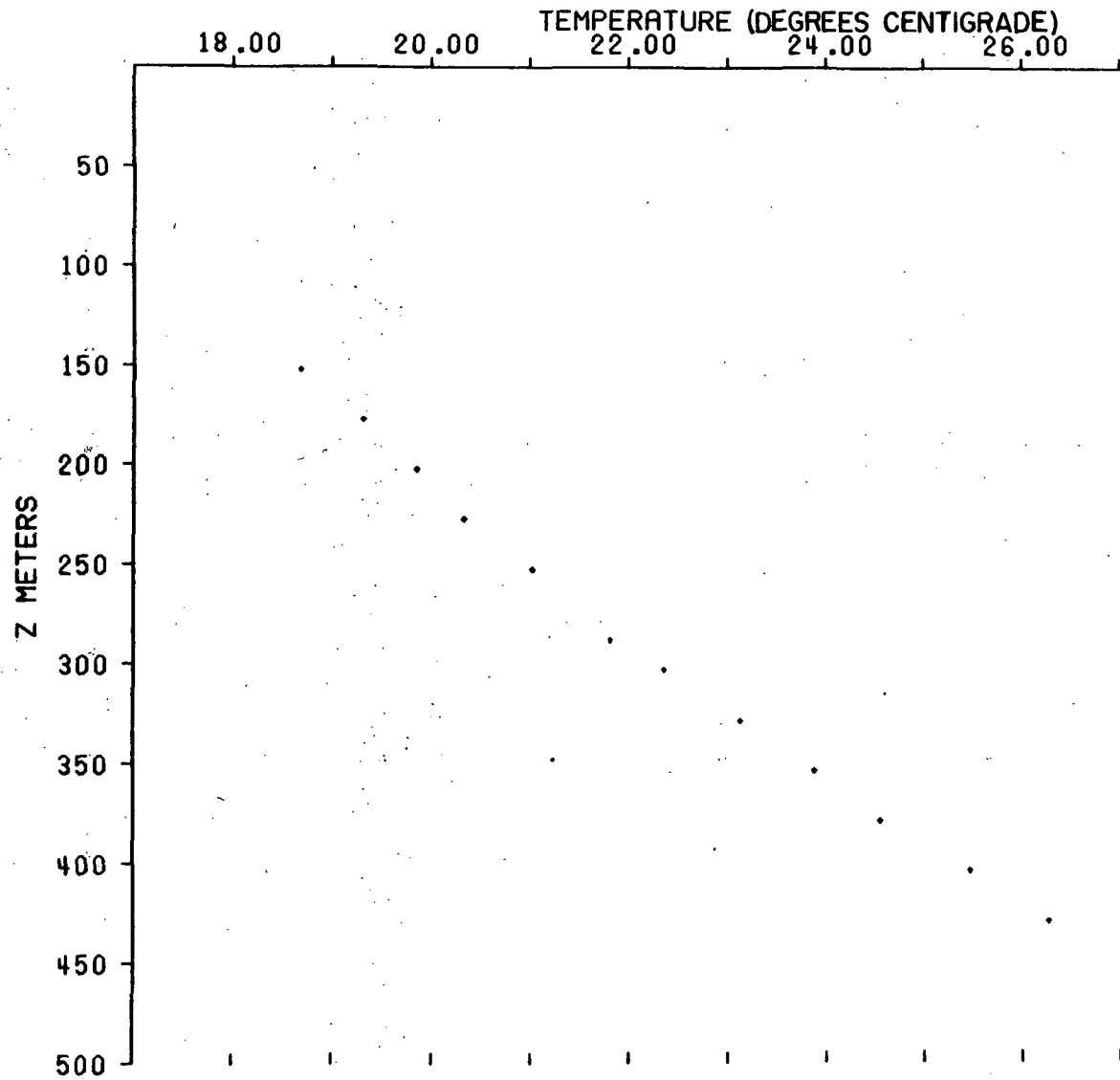


Figure 12.--Temperatures in hole UC1-I-1
9-17-67

CENTRAL NEVADA HTH-1 09/17/67

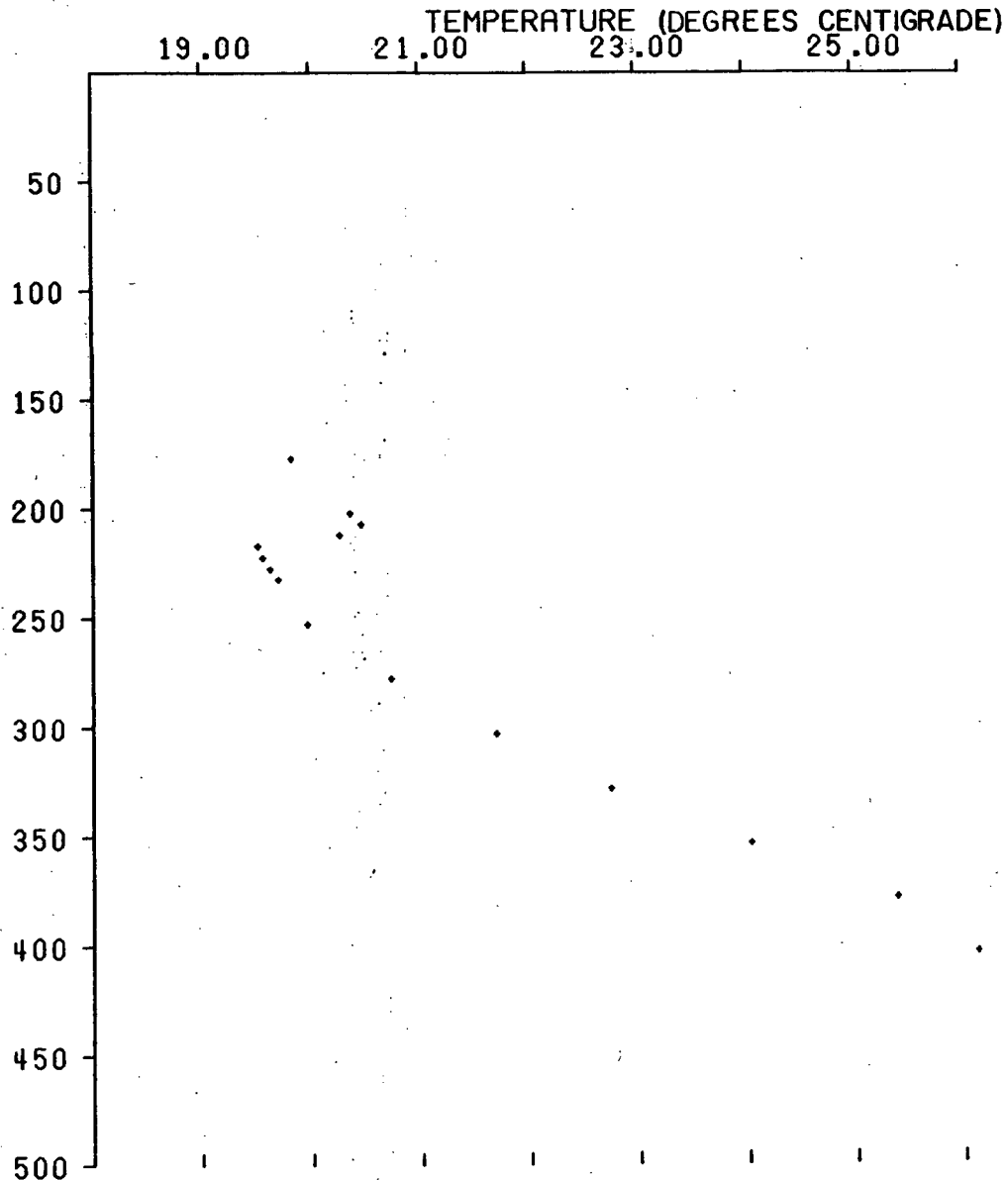


Figure 13.--Temperatures in hole HTH-1
9-17-67