

RELATIONSHIP BETWEEN CLAY CONTENT & TDEM

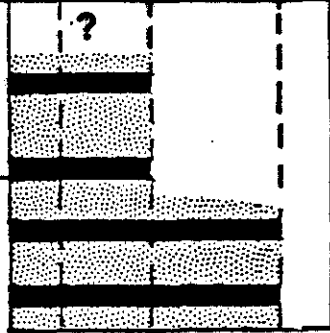
TEMPERATURE GRADIENT HOLE "A"

RELATIVE PERCENTAGE OF SMECTITE

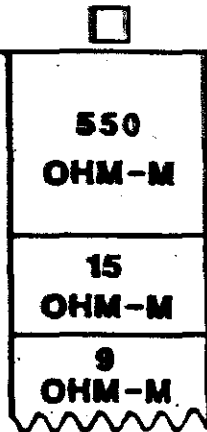
1-D TDEM RESISTIVITY MODEL

TRACE MINOR MAJOR
 (<3%) (<15%) (15-50%)

DEPTH(FEET)



T.D. 918'



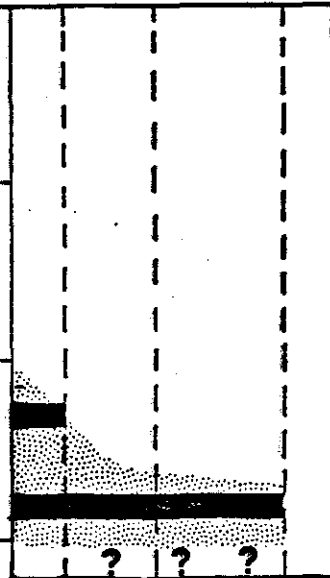
TEMPERATURE GRADIENT HOLE "B"

RELATIVE PERCENTAGE OF SMECTITE

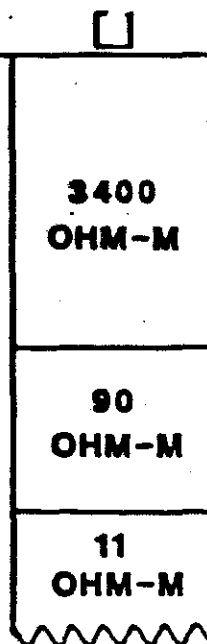
1-D TDEM RESISTIVITY MODEL

TRACE MINOR MAJOR
 (<3%) (<15%) (15-50%)

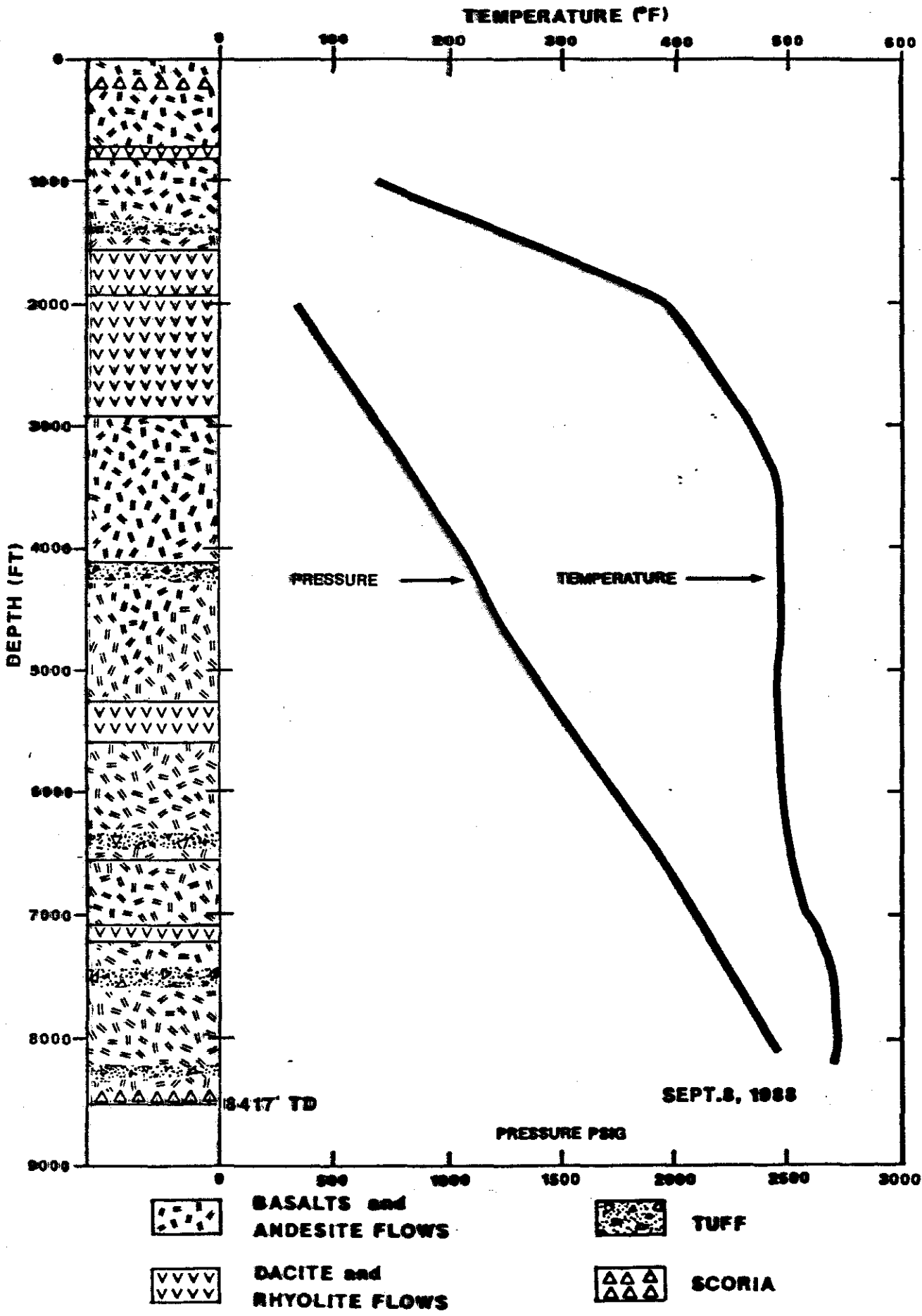
DEPTH(FEET)



T.D. 1636'



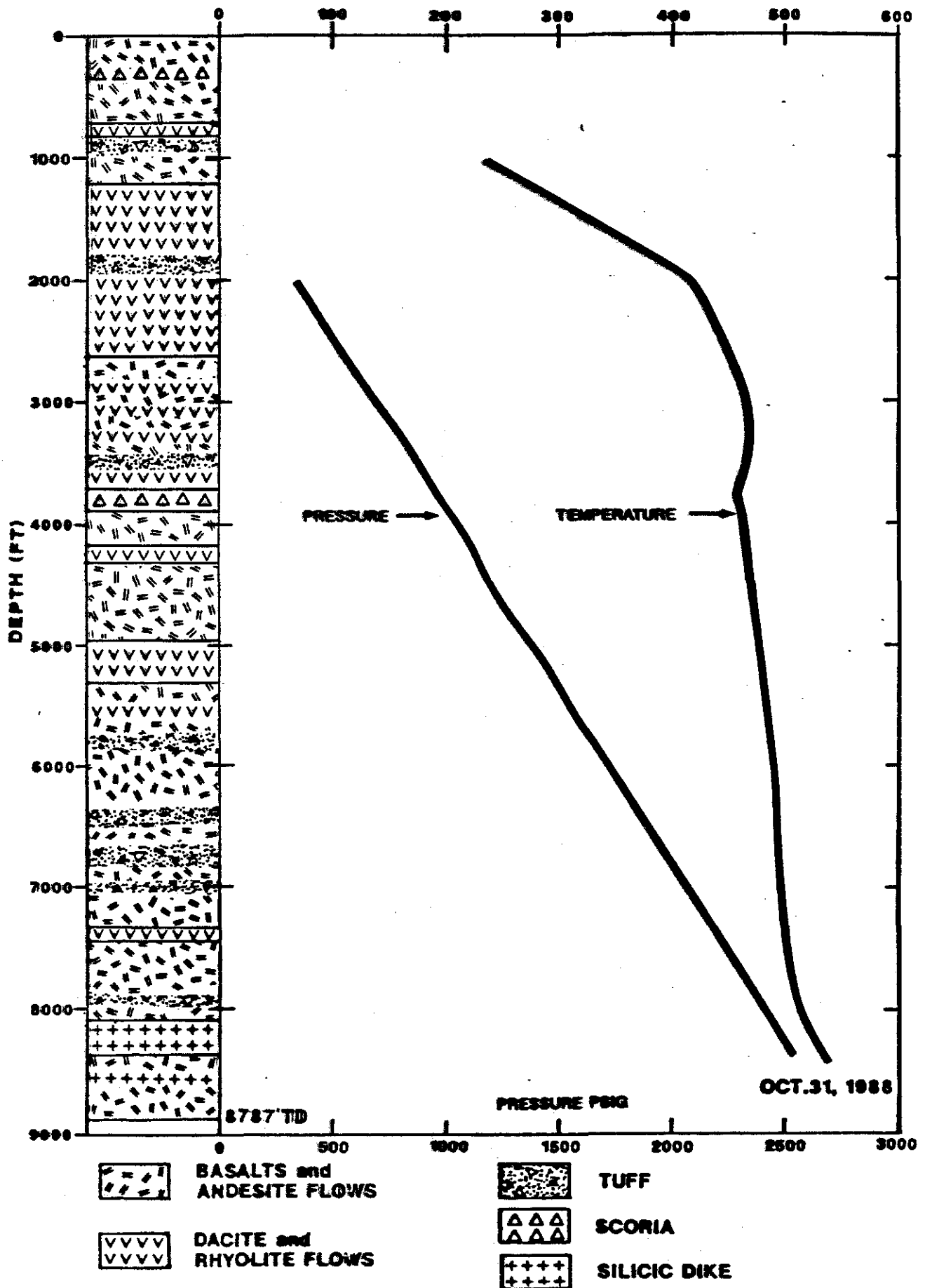
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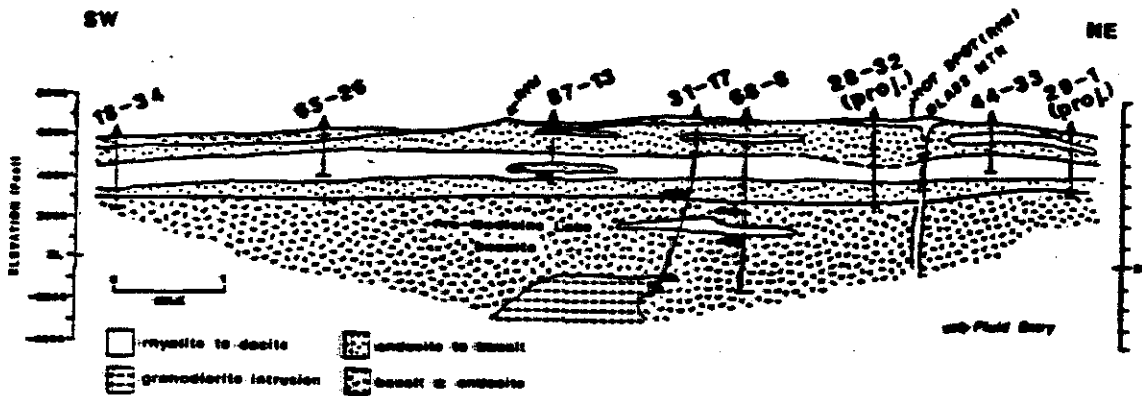
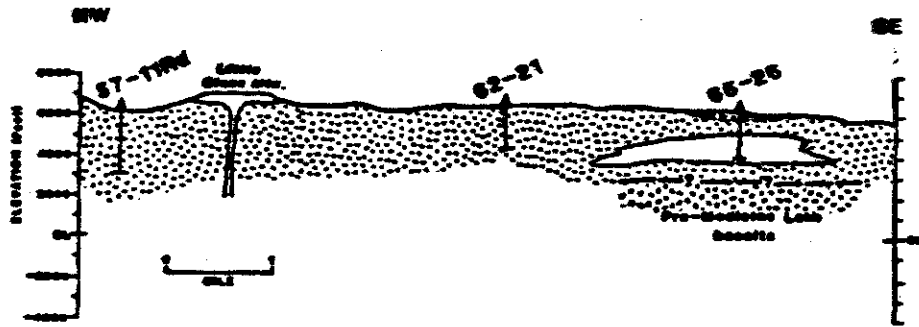
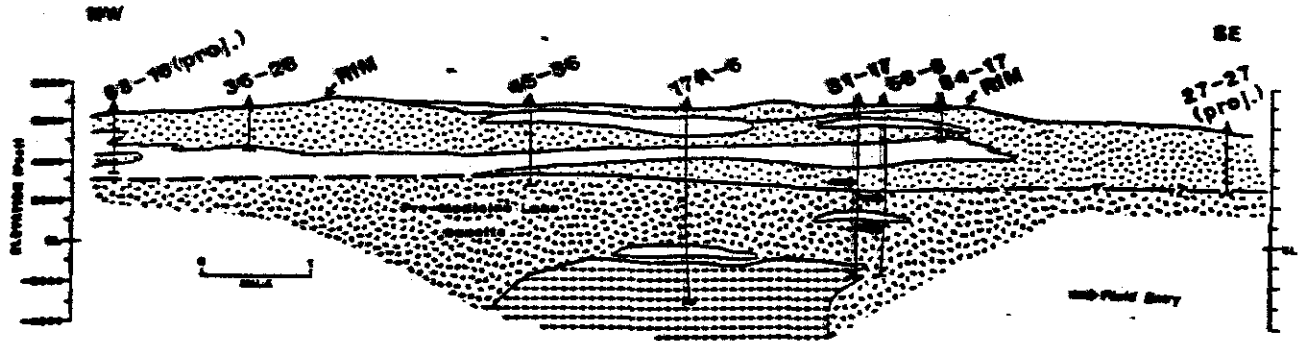
GMF 31-17

TEMPERATURE (°F)



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GEOLOGIC CROSS SECTIONS

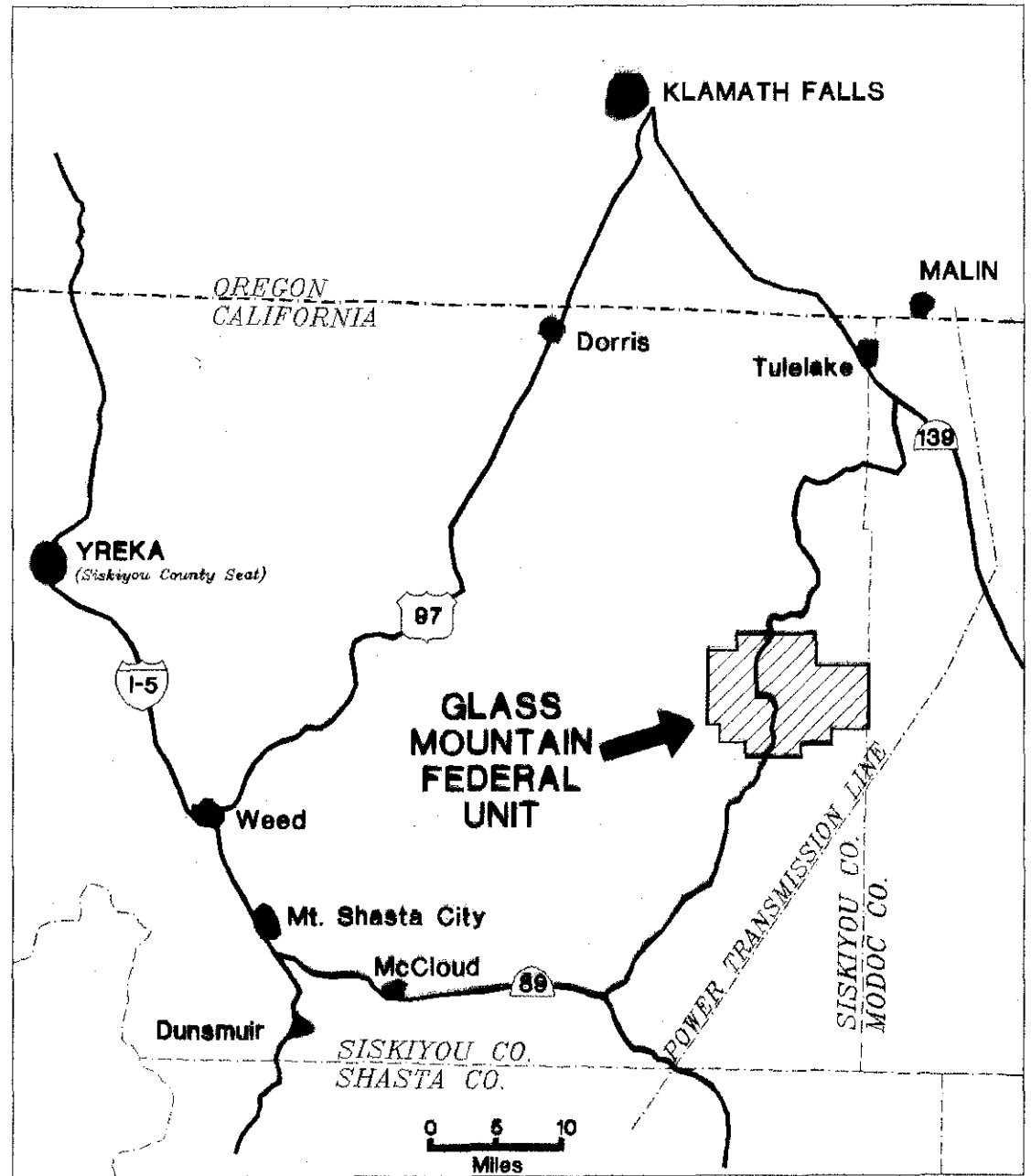
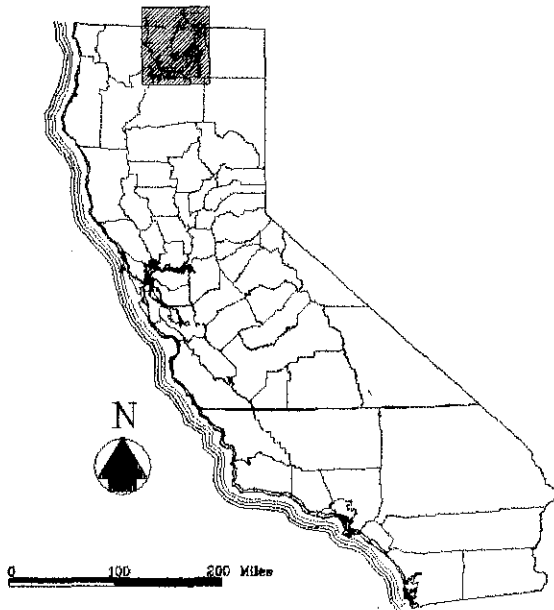


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**GLASS MOUNTAIN FEDERAL UNIT
LOCATION MAP
Siskiyou Co., Ca.**



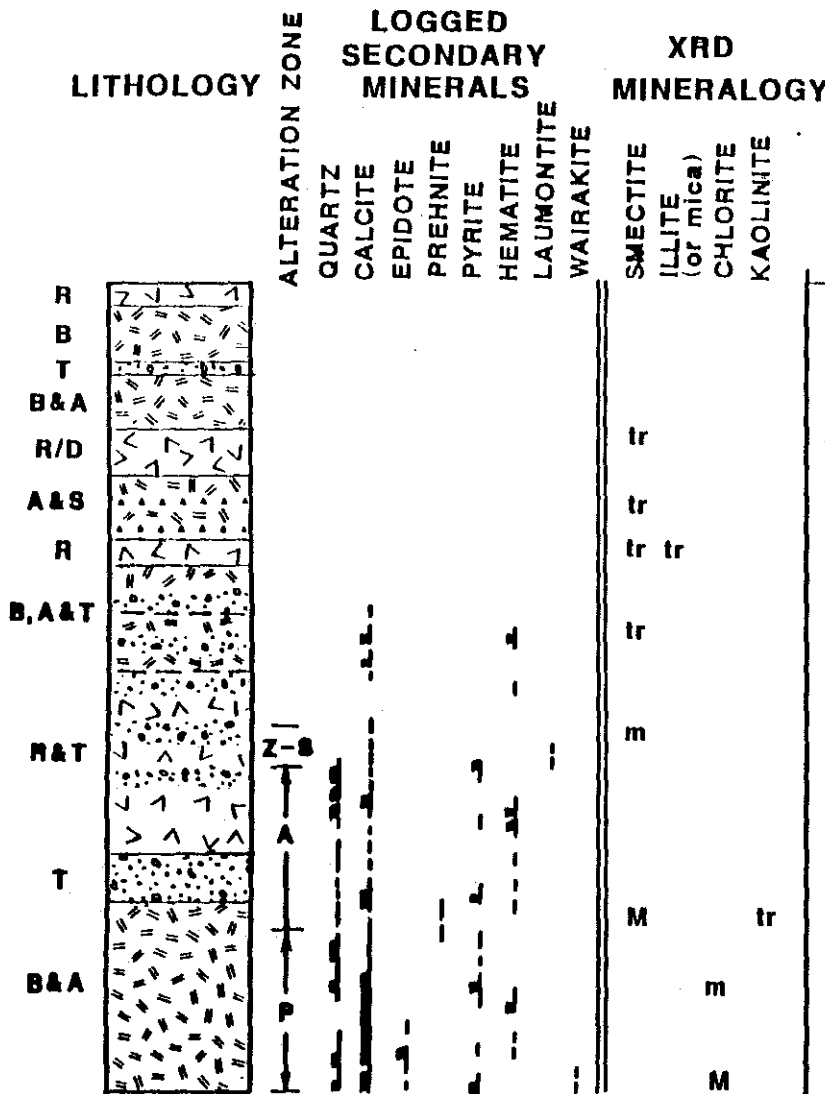
AREA OF ENLARGEMENT



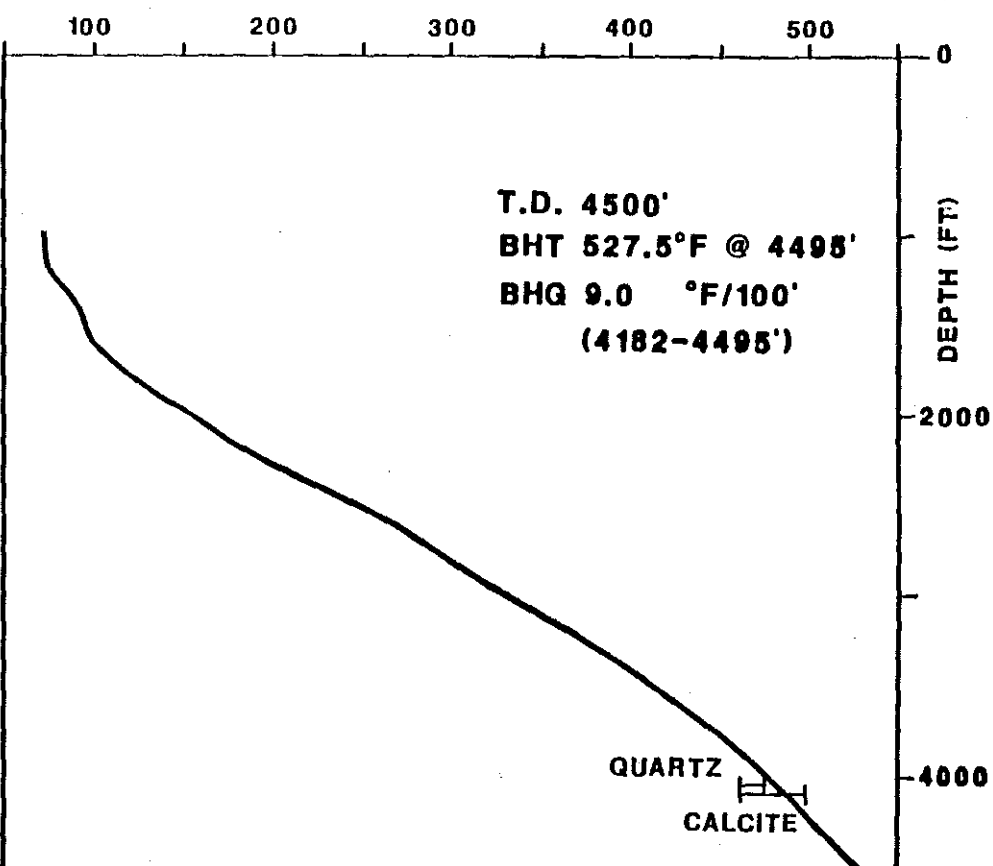
GLASSLOC 08/08/96

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TEMPERATURE (°F)



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ROCK KEY

- B BASALT
- A ANDESITE
- D DACITE
- R RHYOLITE
- T TUFF
- S SCORIA

ALTERATION ZONES

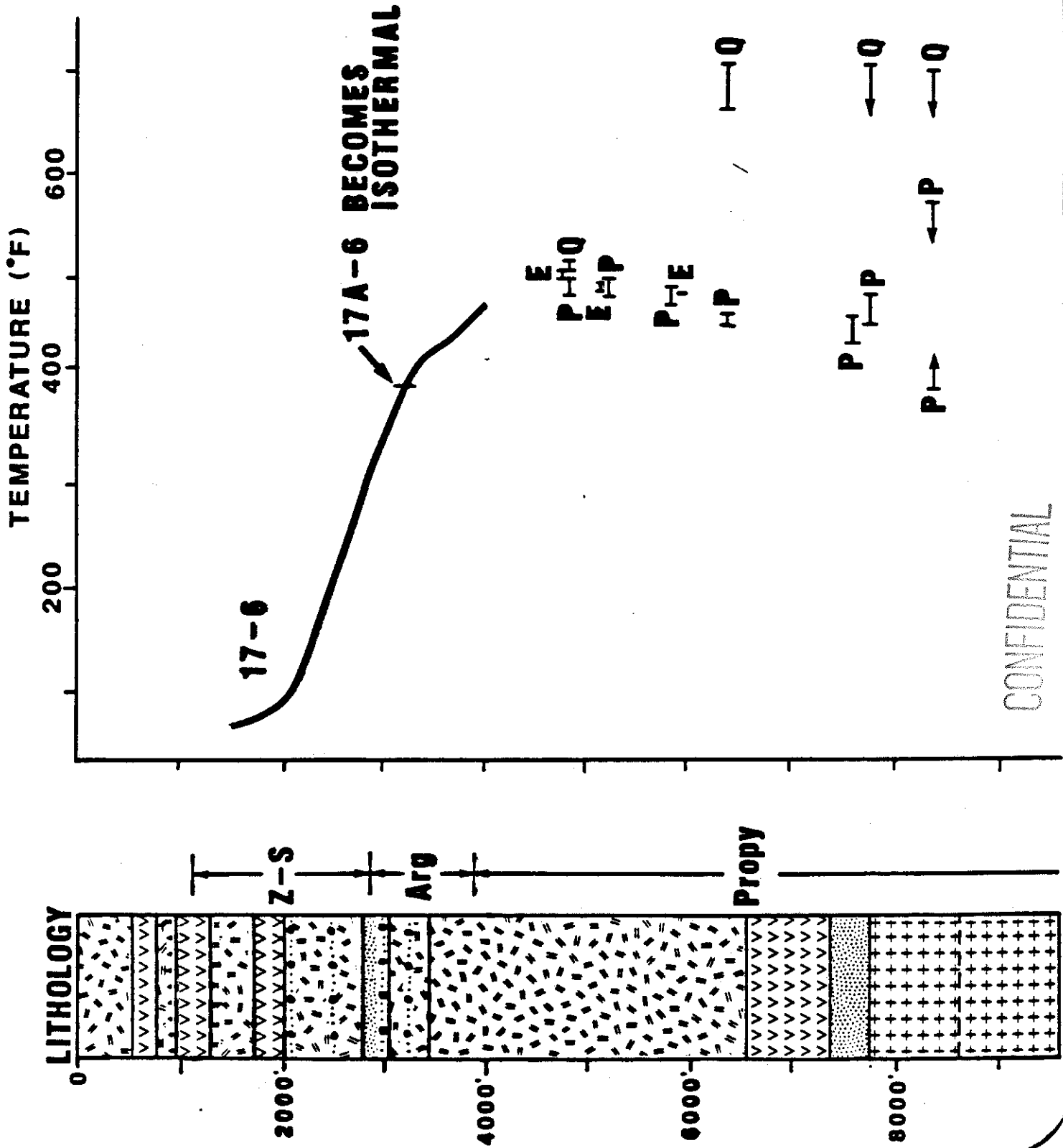
- Z-S ZEOLITE-SMECTITE
- A ARGILLIC
- P PROPYLITIC
- FLUID INCLUSION HOMOGENIZATION TEMPERATURES

- ABUNDANT
- COMMON
- TRACE
- RARE

- M MAJOR (15-50%)
- m MINOR (3-15%)
- tr TRACE (1-3%)

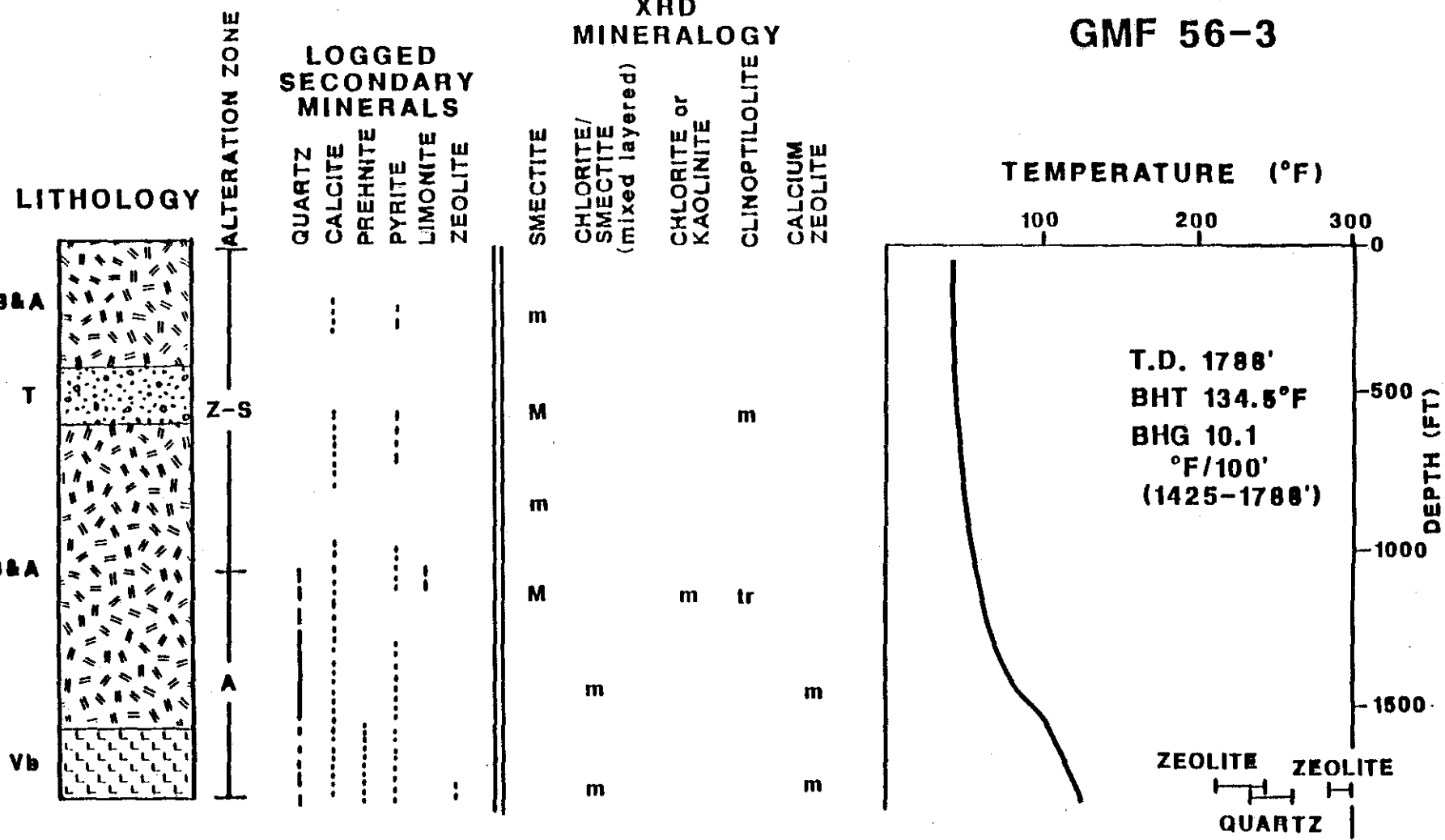
Figure 6

D.L.C.10/87



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ROCK KEY

- B BASALT
- A ANDESITE
- T TUFF
- Vb VOLCANIC BRECCIA

ALTERATION ZONES

- Z-S ZEOLITE-SMECTITE
- A ARGILLIC
- FLUID INCLUSION HOMOGENIZATION TEMPERATURES.

- ABUNDANT
- COMMON
- TRACE
- RARE

- M MAJOR (15-50%)
- m MINOR (3-15%)
- tr TRACE (1-3%)

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Figure 8

GMF 45-36

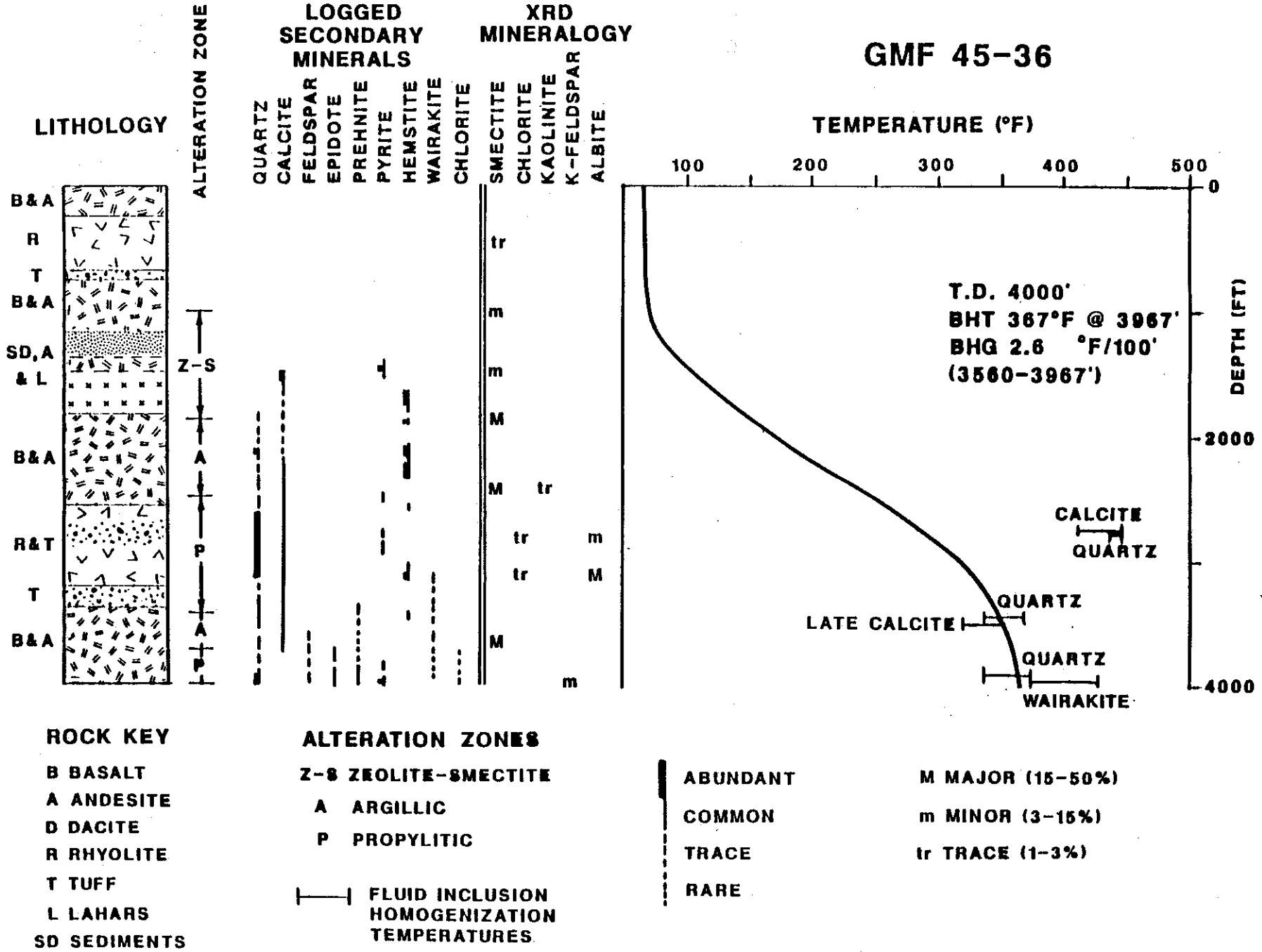
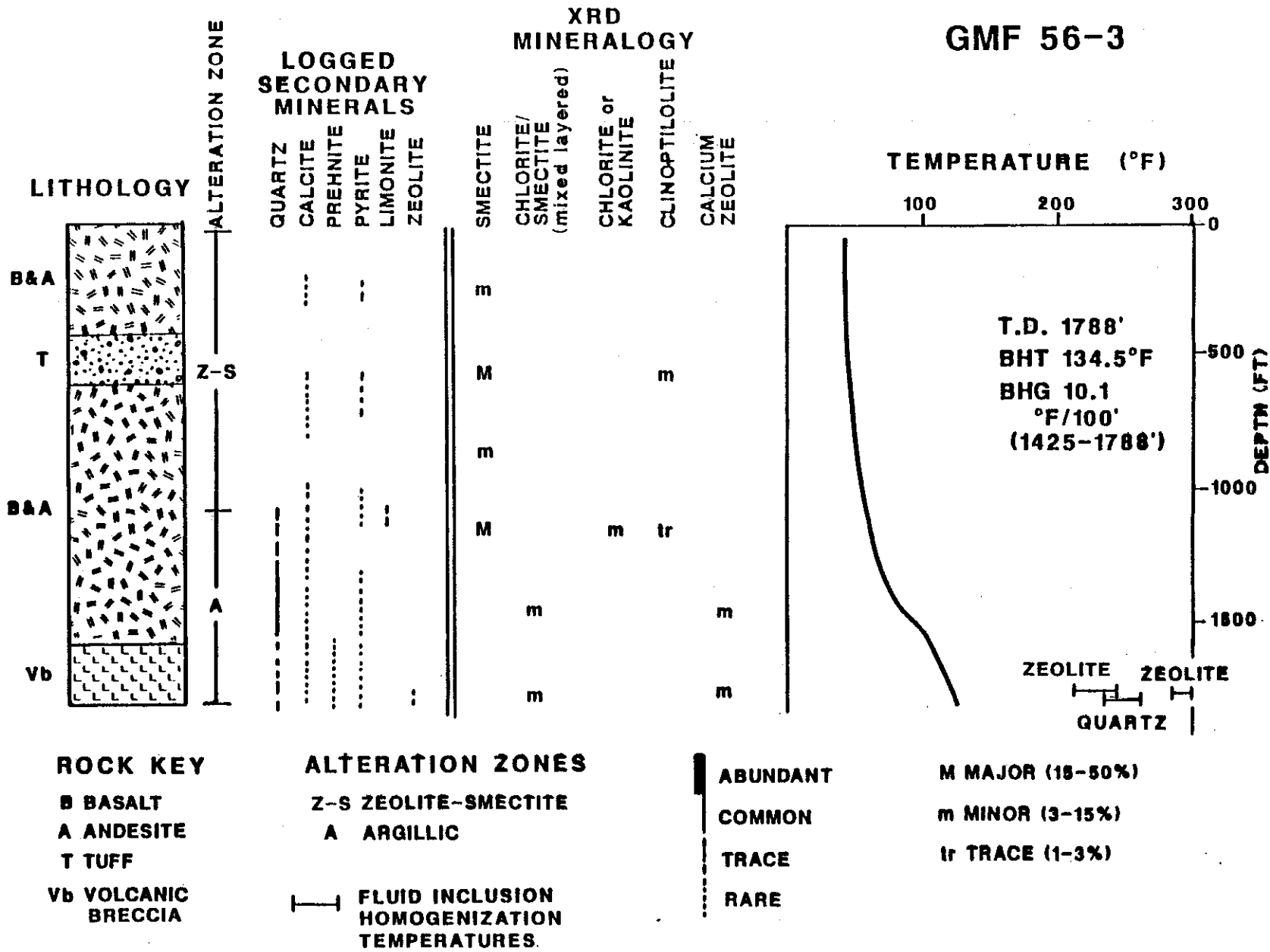


Figure 7

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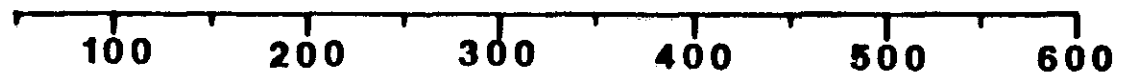


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Figure 8

ALTERATION ZONE**mineralogy****approximate
temperature
range (°F)****ZEOLITE-SMECTITE****low-temp. zeolites
minor smectite (3-15%)****100-300****ARGILLIC****quartz
major smectite (15-50%)****300-450****PROPYLITIC****2 of the following:
epidote
chlorite
calcite replacing plag.
albite****450+****CONFIDENTIAL**

TEMPERATURE °F



ALTERATION ZONES

ZEOLITE-SMECTITE ARGILLIC PROPYLITIC

CALCITE

QUARTZ

PREHNITE

EPIDOTE

ACTINOLITE

ADULARIA

SMECTITE

CHLORITE/SMECTITE

CHLORITE

ILLITE/SMECTITE

ILLITE

SPHENE

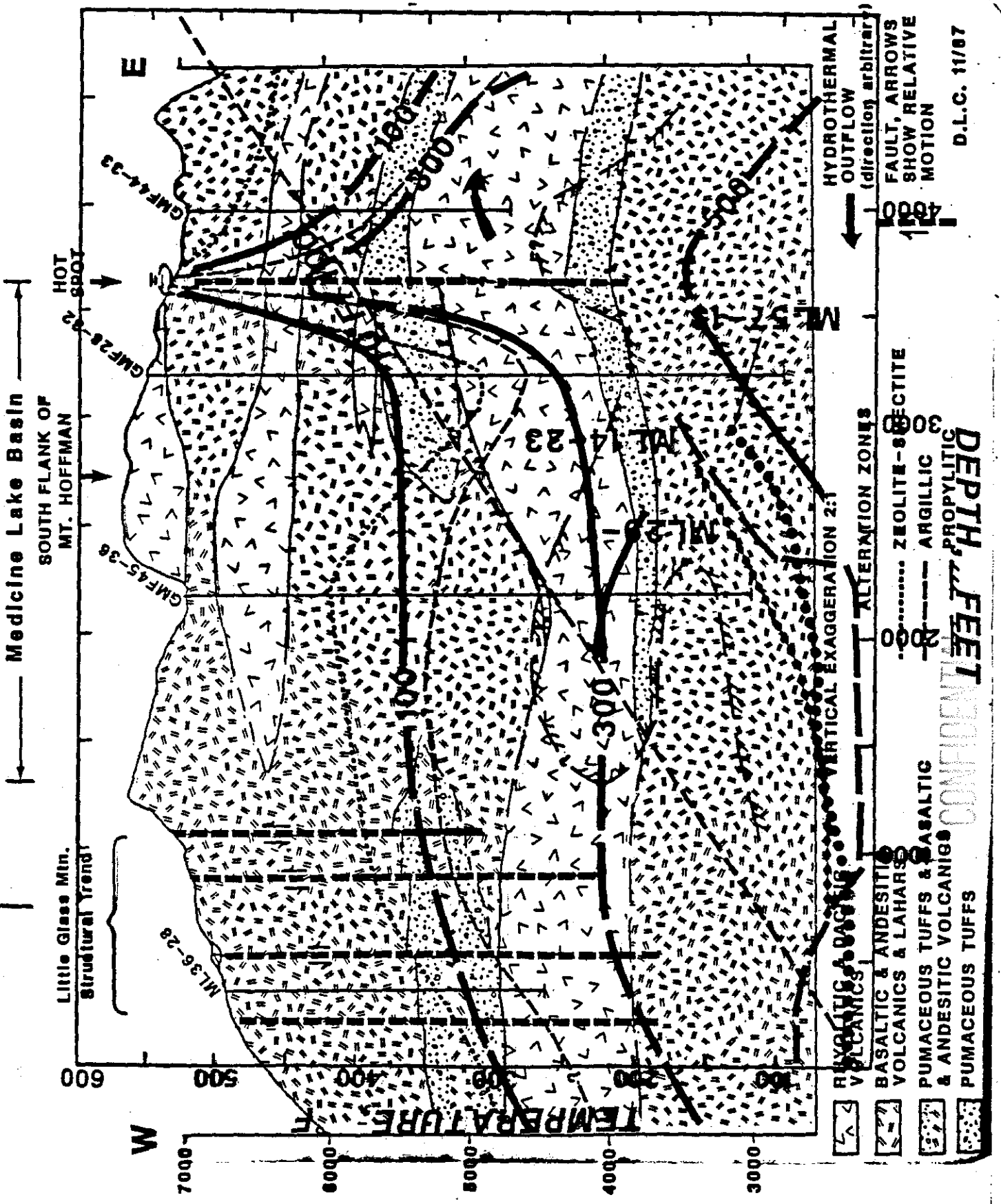
WAIRAKITE



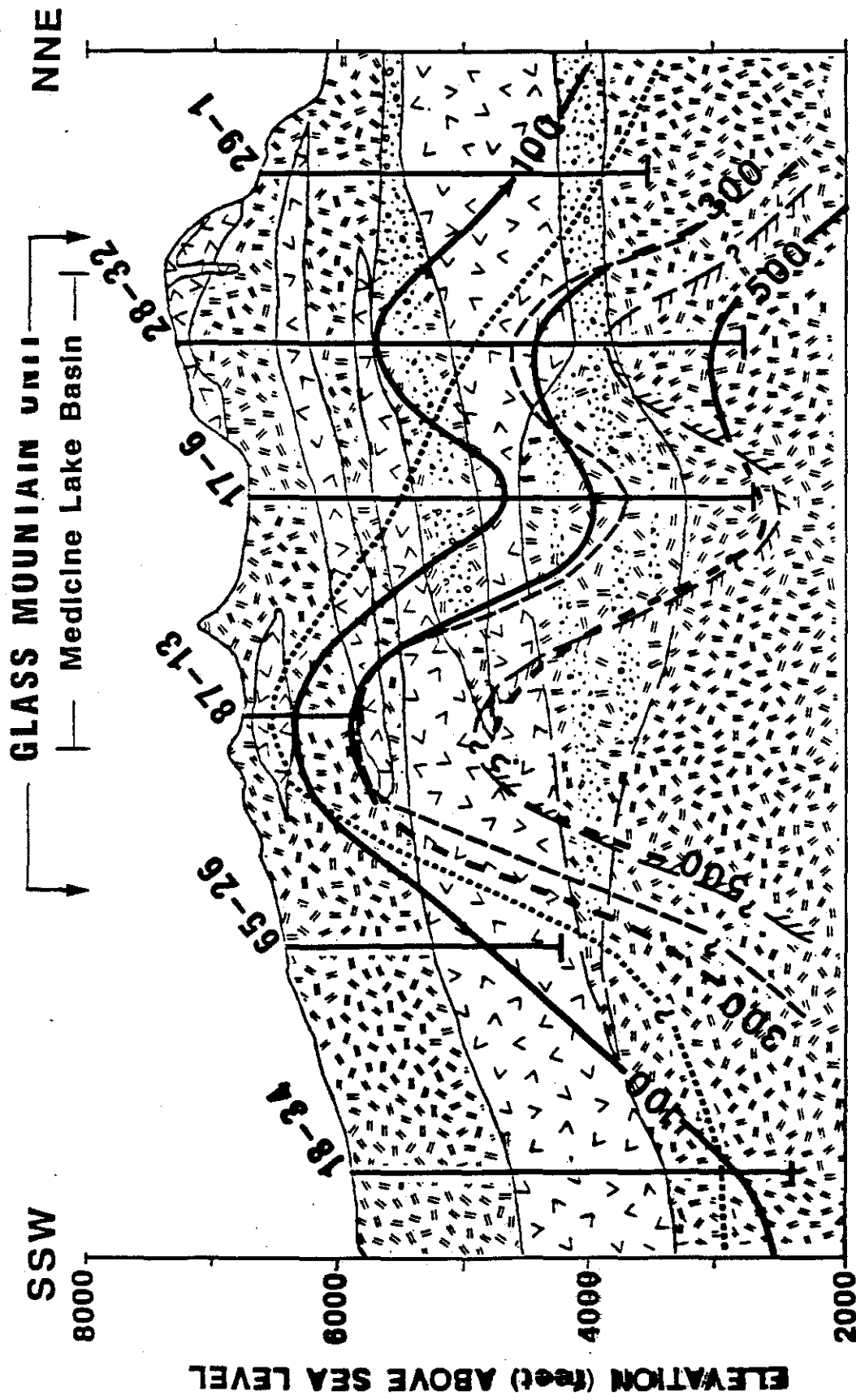
TEMPERATURE °C

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Alteration Zones
X-Section



ELEVATION ABOVE SEA LEVEL



VERTICAL EXAGGERATION 2:1

Temp. ° F

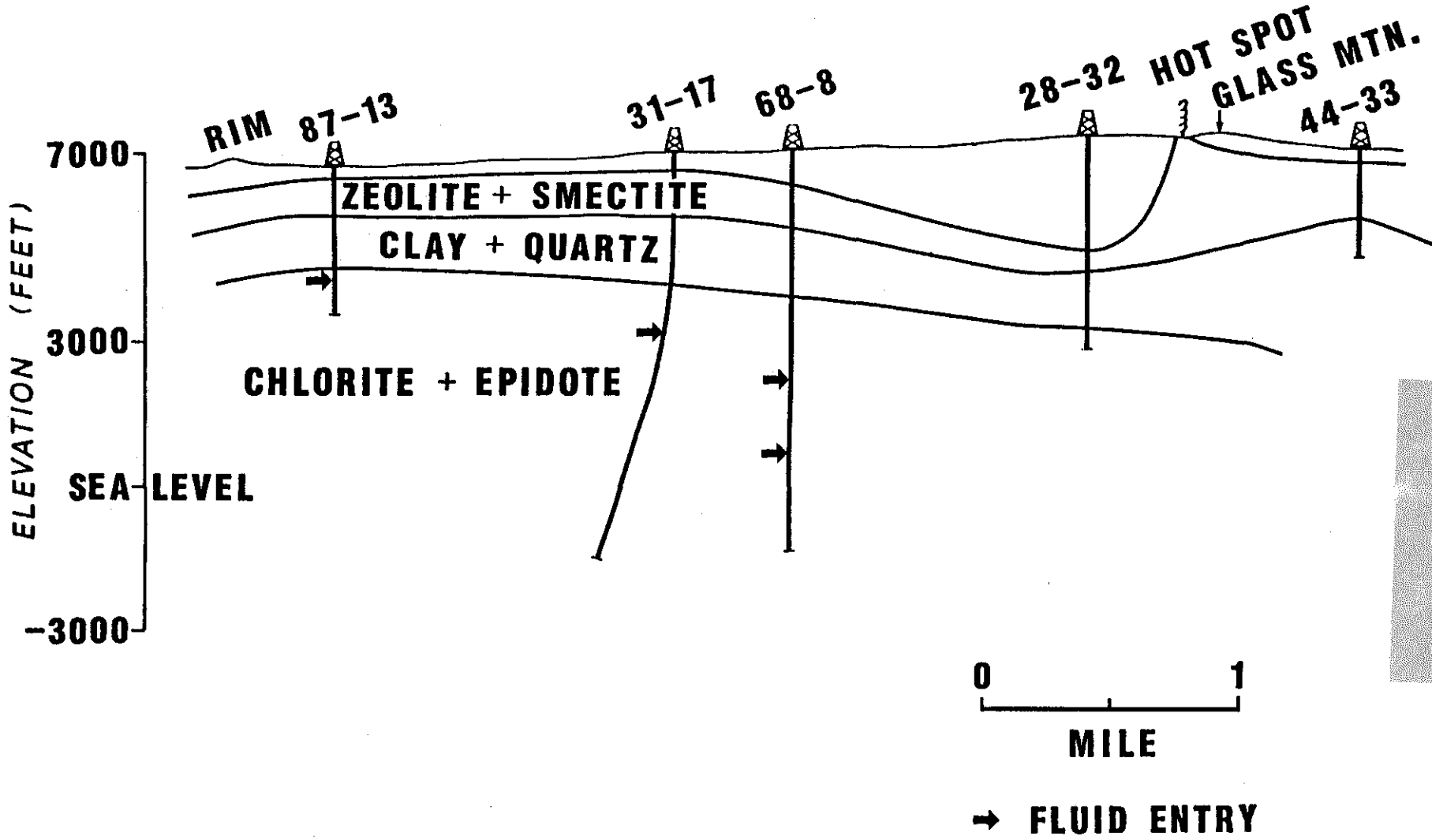
- ALTERATION ZONES**
- ZEOLITE-SMECTITE
 - ARGILLIC
 - //// PROPYLITIC
- ALTERATION ZONES**
- [Stippled] RHYOLITES & DACITES
 - [Diagonal lines] BASALTS, ANDESITES & LAHARS
 - [Horizontal lines] BASALTS, ANDESITES & TUFFS
 - [Cross-hatched] PUMACEOUS TUFFS

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GLASS MOUNTAIN ALTERATION ZONES

SW
A

NE
A'



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