

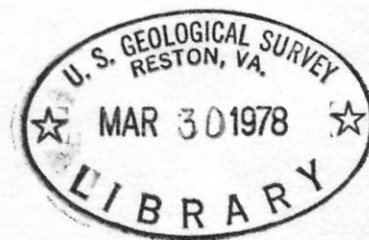
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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PROFILES SHOWING POTENTIOMETRIC SURFACES AND CHANGES
IN EFFECTIVE STRESS IN AQUIFERS IN HARRIS AND
GALVESTON COUNTIES, TEXAS, 1977-78



Open-File Report

286515

Prepared in cooperation with the
Texas Department of Water Resources and the
Harris-Galveston Counties Coastal Subsidence District

March 1978

✓ UNITED STATES (DEPARTMENT OF THE INTERIOR)
GEOLOGICAL SURVEY [Reports-Open file series]

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Reproduced by the Texas Department of
Water Resources as a part of the continuing
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Copies of this report may be obtained from the
U.S. Geological Survey
Federal Building
300 East 8th Street
Austin, TX 78701

ILLUSTRATIONS

- Figure 1. Potentiometric profiles and change in effective stress at Moses Lake near Texas City, Texas, February 1977-February 1978
2. Potentiometric profiles and change in effective stress near Addicks, Texas, January 1977-January 1978
3. Potentiometric profiles and change in effective stress at Baytown, Texas, February 1977-January 1978
4. Potentiometric profiles and change in effective stress at Seabrook, Texas, February 1977-January 1978
5. Potentiometric profiles and change in effective stress at Pasadena, Texas, February 1977-January 1978
6. Potentiometric profiles and change in effective stress at Clear Lake City, Texas, February 1977-February 1978

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By
R. K. Gabrysch

These profiles were prepared by the U.S. Geological Survey in cooperation with the Harris-Galveston Counties Coastal Subsidence District and the Texas Department of Water Resources to show the changes in the altitudes of the potentiometric surfaces and, consequently, the changes in effective stress on the framework of the aquifers as a result of changes in the distribution and amount of ground-water pumping.

In general, and in most areas, the profiles show for the dates indicated that water levels have increased and that the effective stress has decreased.

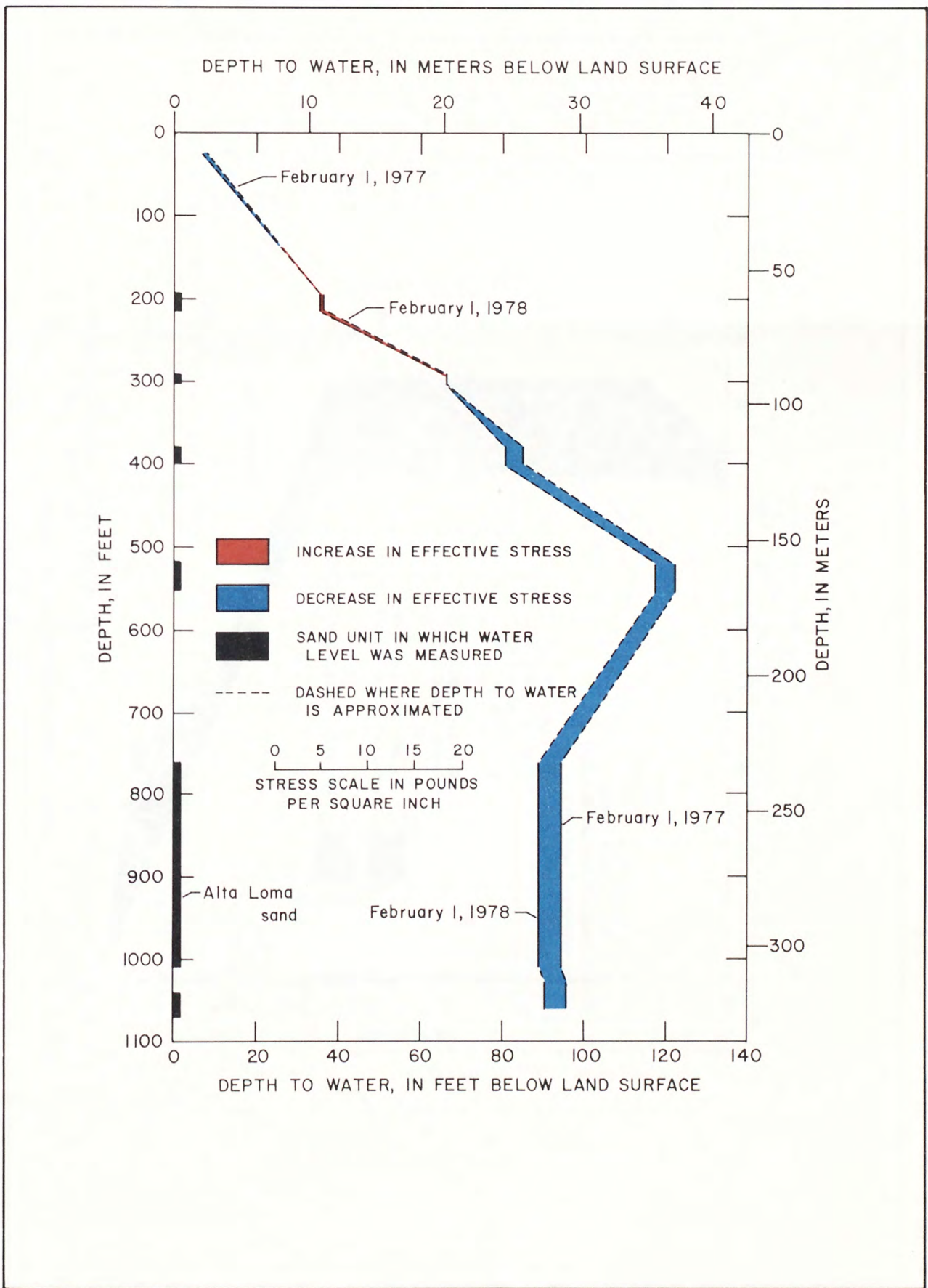


FIGURE 1.-Potentiometric profiles and change in effective stress at Moses Lake near Texas City, Texas, February 1977-February 1978

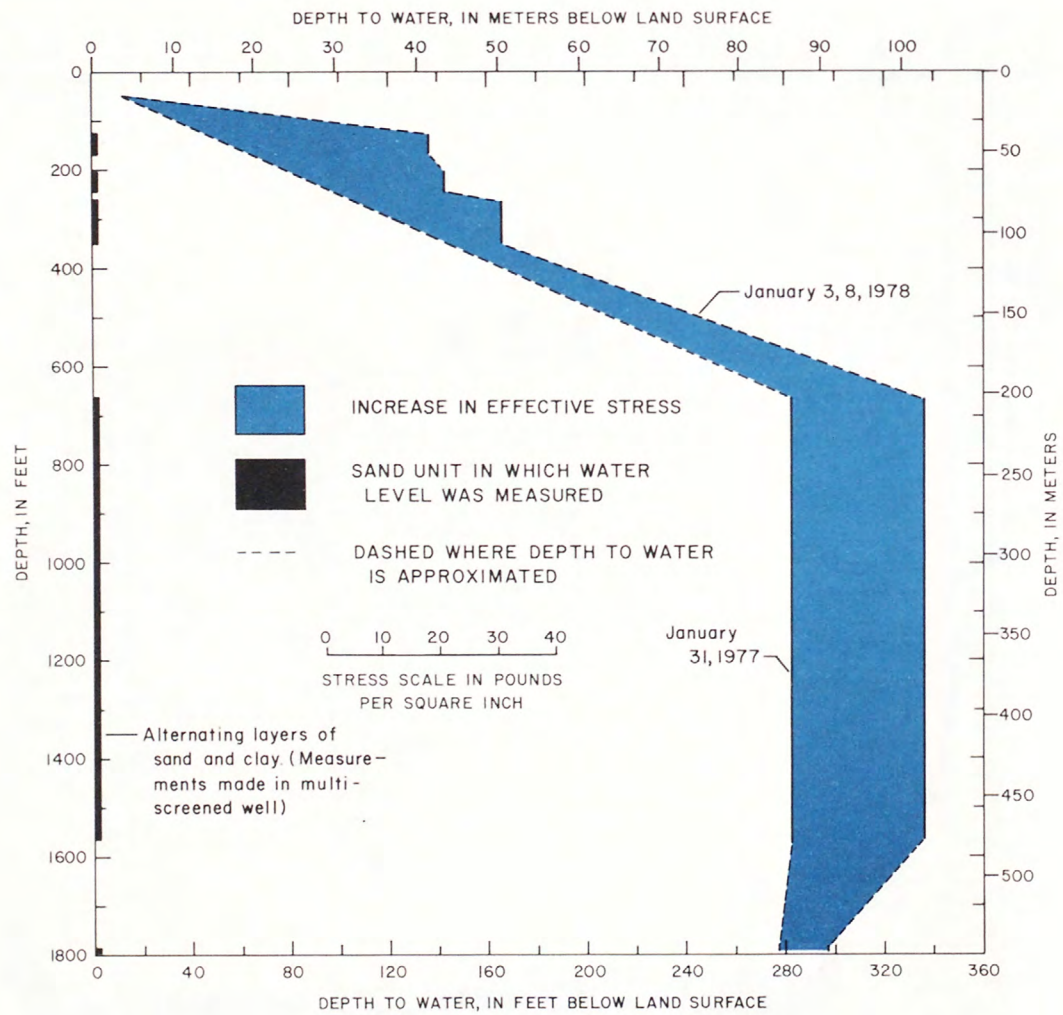


FIGURE 2.-Potentiometric profiles and change in effective stress near Addicks, Texas, January 1977-January 1978

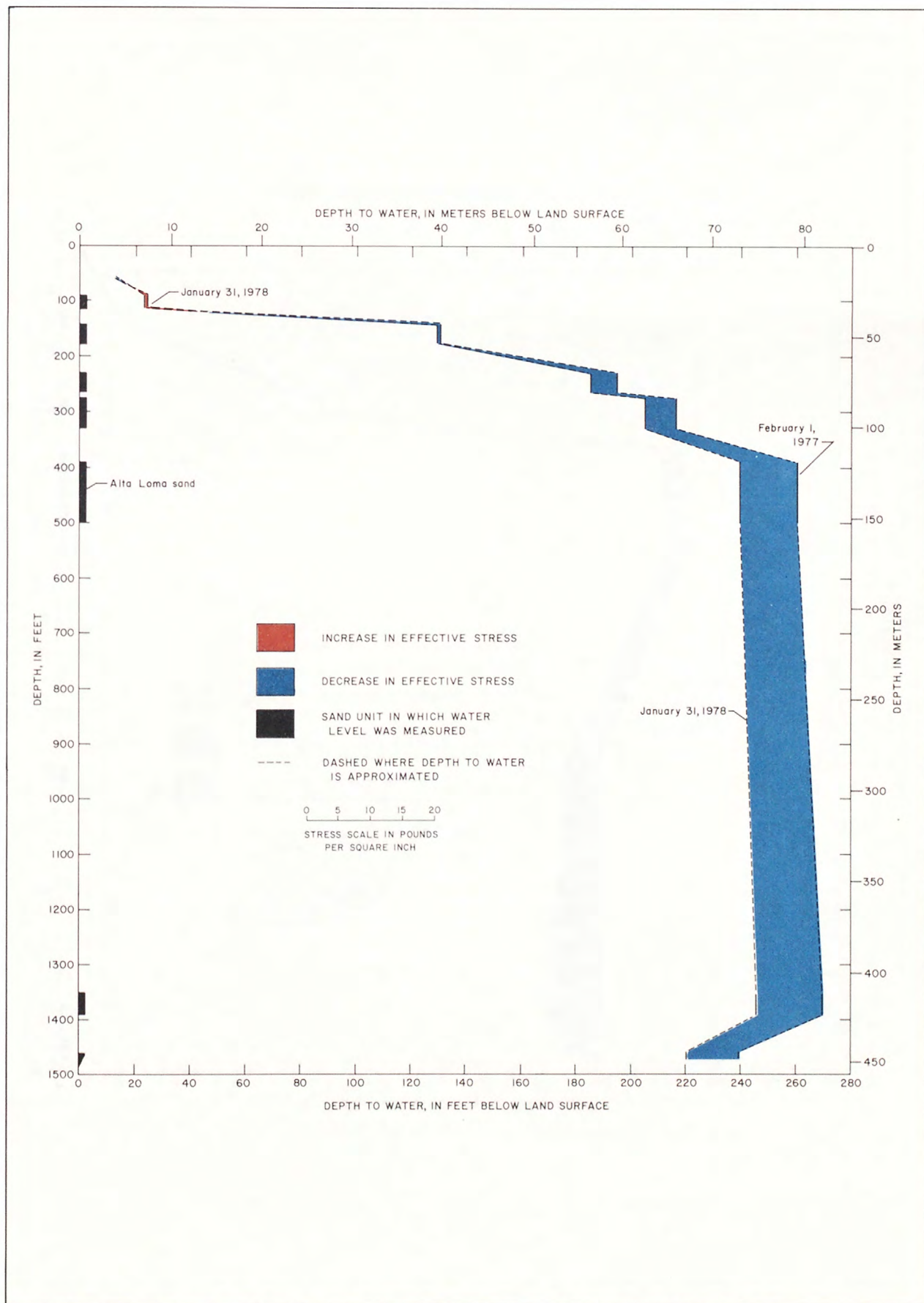


FIGURE 3.-Potentiometric profiles and change in effective stress at Baytown, Texas, February 1977-January 1978

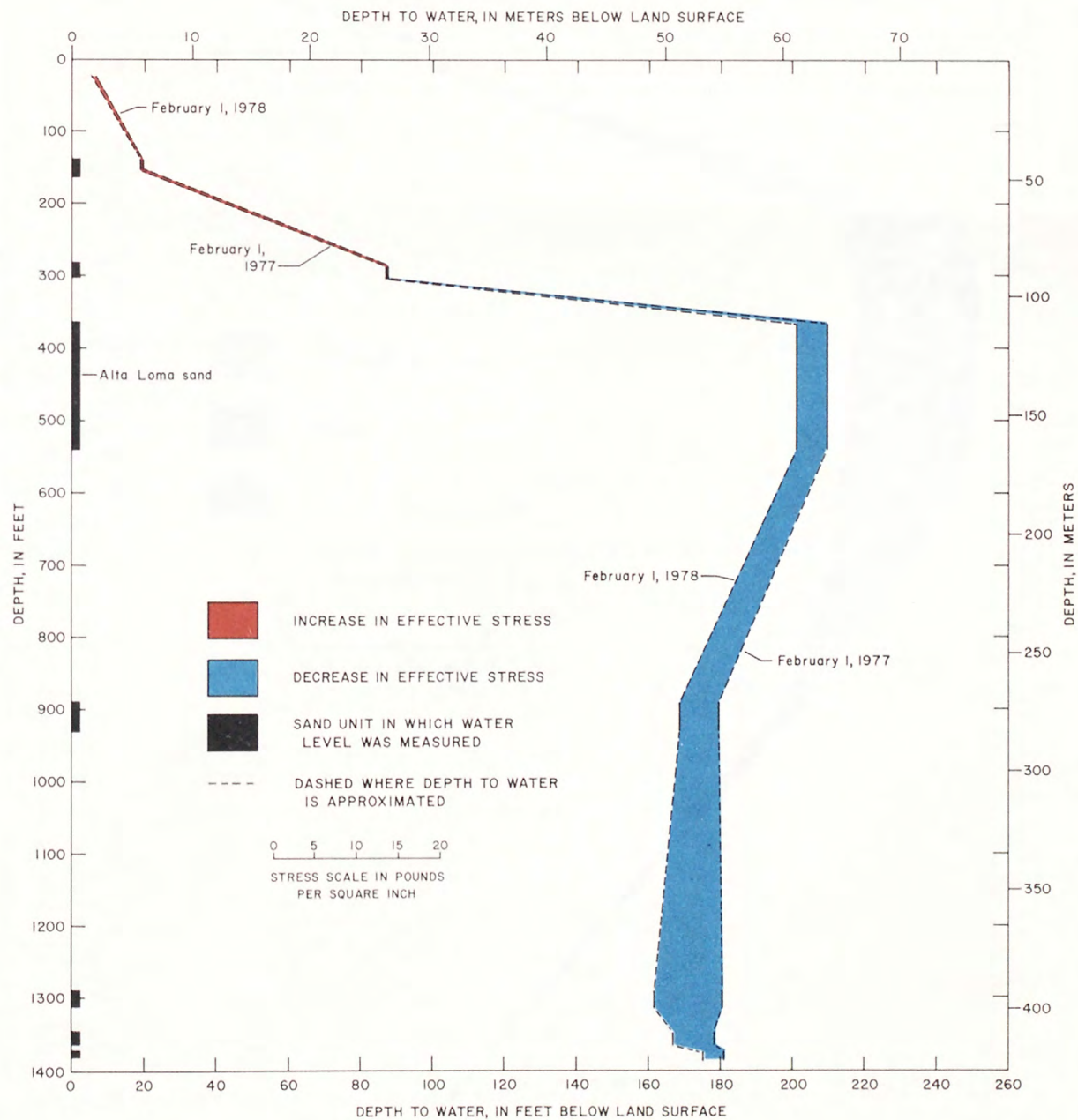


FIGURE 4.-Potentiometric profiles and change in effective stress at Seabrook, Texas, February 1977-January 1978

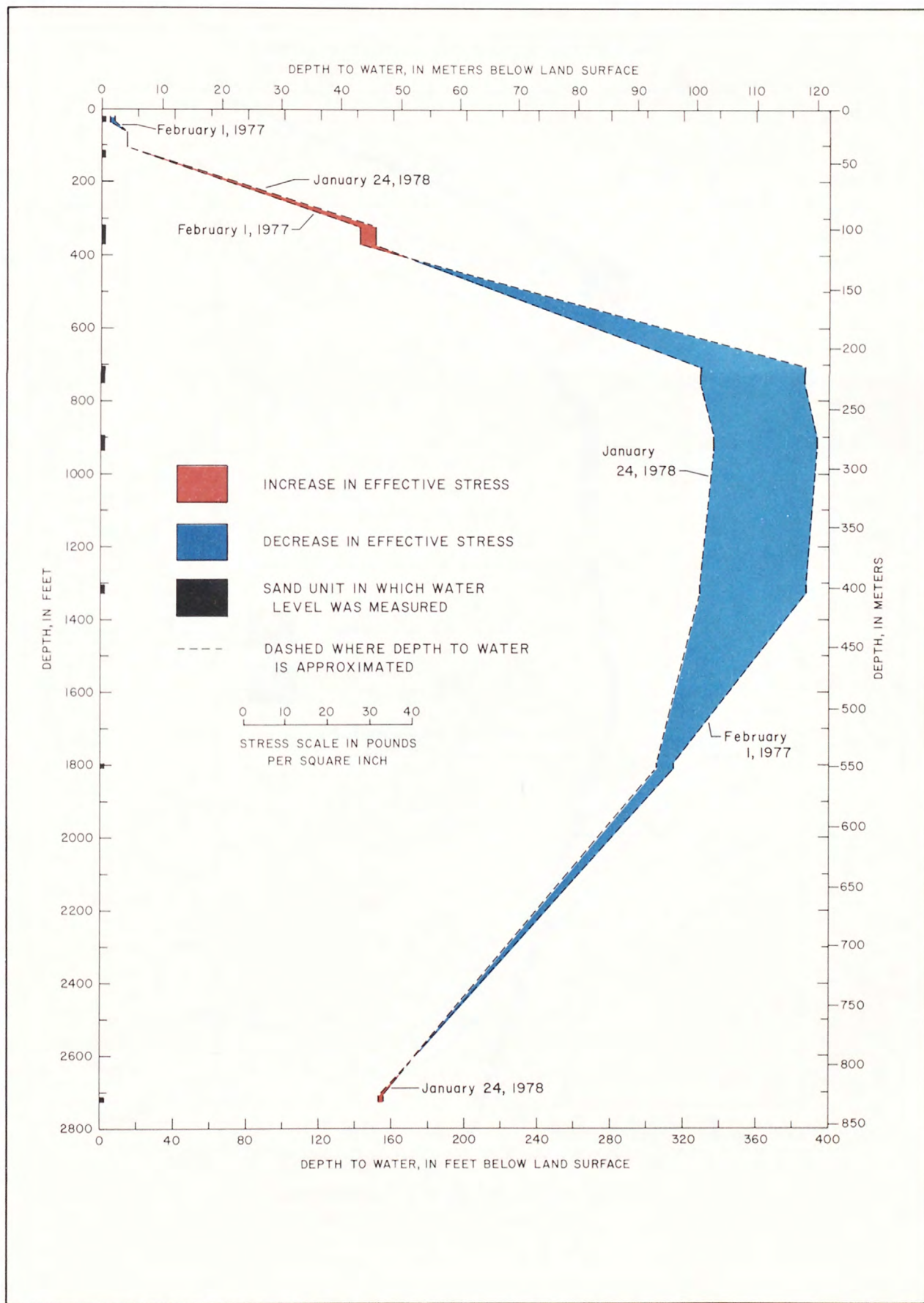


FIGURE 5.-Potentiometric profiles and change in effective stress at Pasadena, Texas, February 1977-January 1978

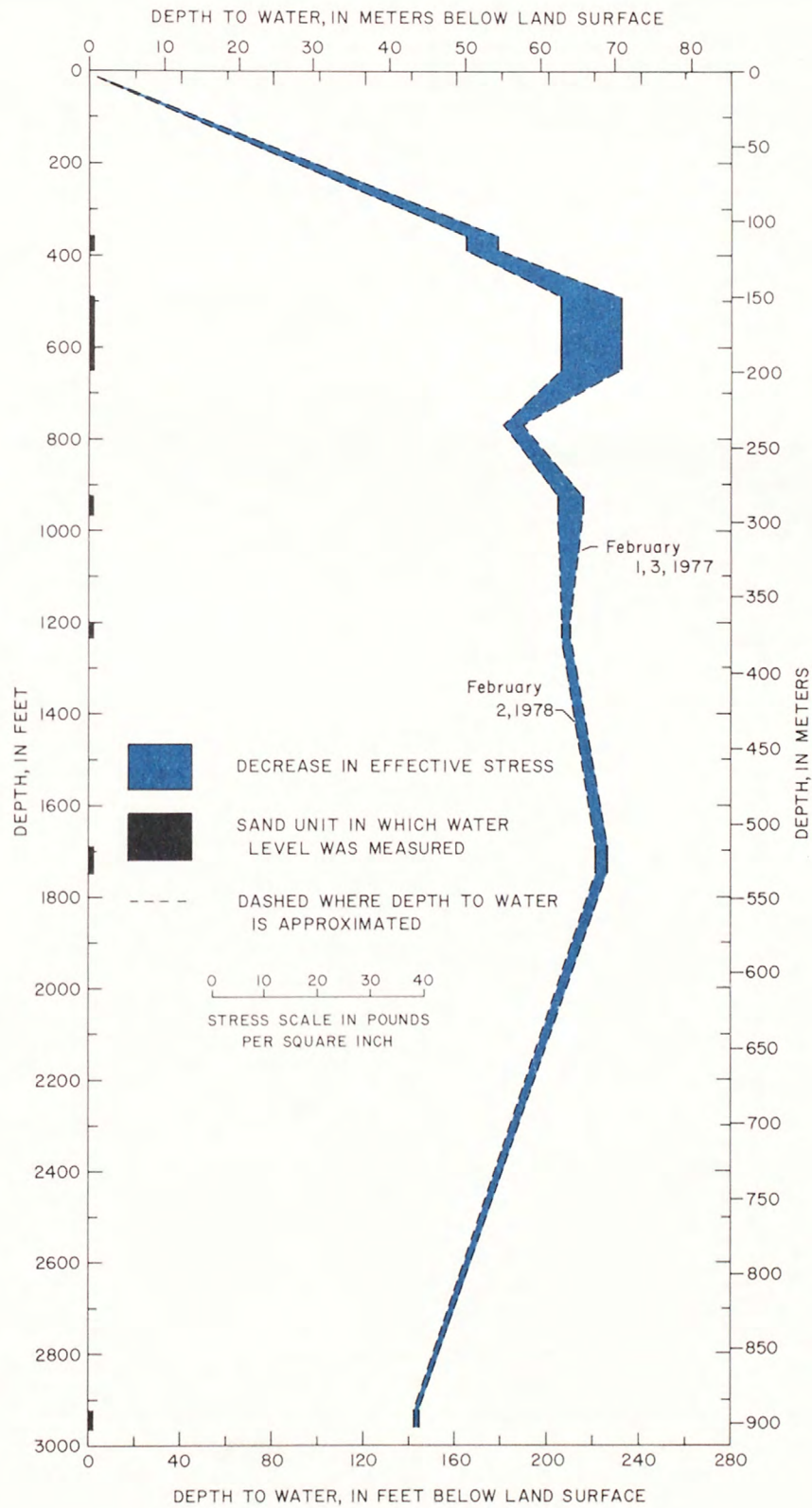


FIGURE 6.-Potentiometric profiles and change in effective stress at Clear Lake City, Texas, February 1977- February 1978

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