

69-199

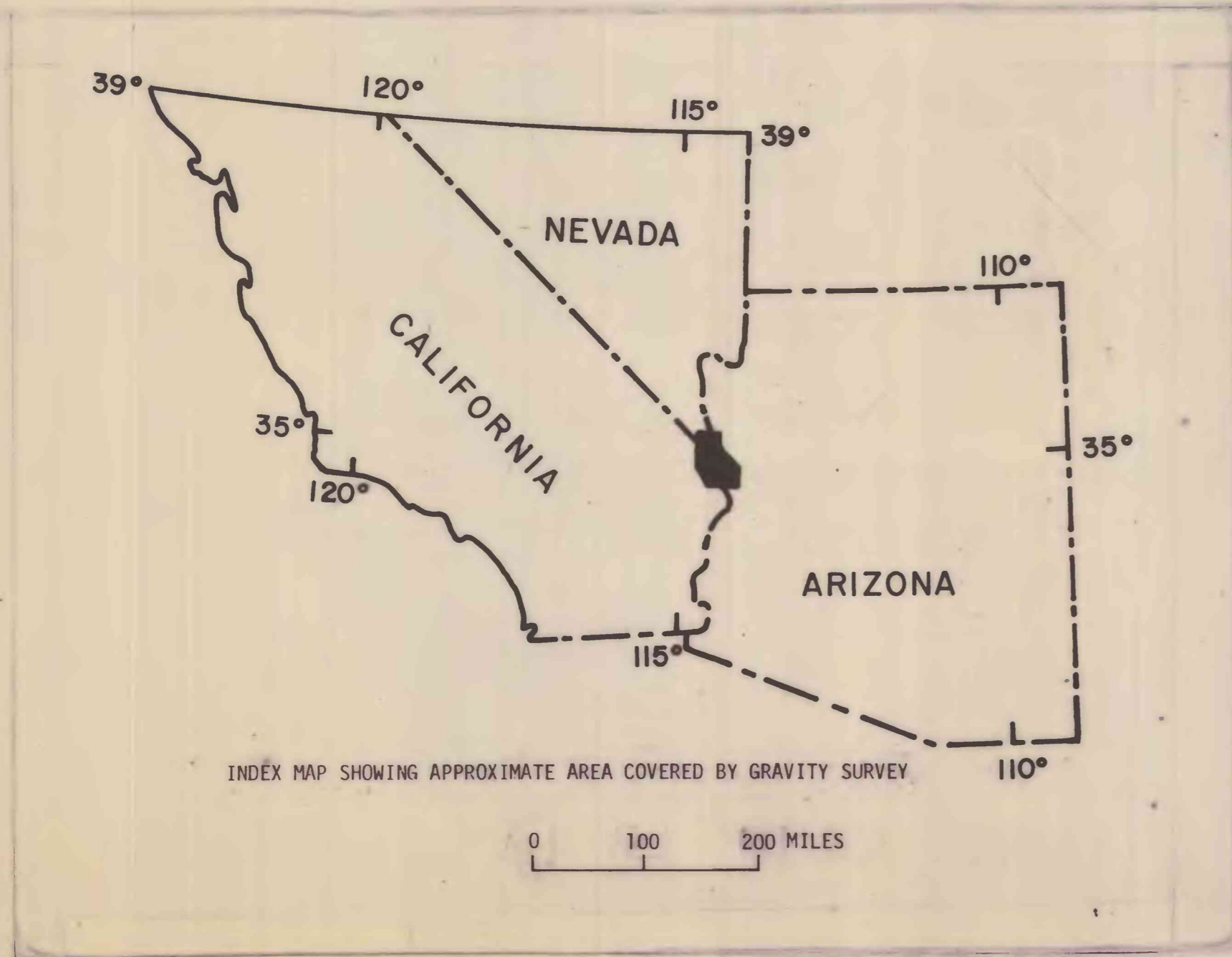


Base from U.S. Geological Survey 1:250,000  
Kingman (1954-63), Needles (1956-63).

Gravity survey made in 1968.



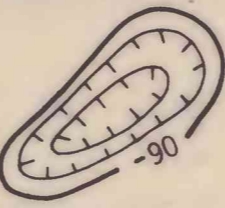
CONTOUR INTERVAL 200 FEET  
DATUM IS MEAN SEA LEVEL



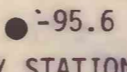
U. S. GEOLOGICAL SURVEY  
Released to open file:  
JUL 7 - 1969

This map is preliminary  
and has not been edited  
or reviewed for conformity  
to Geological Survey  
standards.

EXPLANATION



GRAVITY CONTOURS  
Dashed where approximately located. Contour interval  
2 milligals. Hachured contours indicate areas of low  
gravity closure



GRAVITY STATION  
Value is complete Bouguer anomaly

A density of 2.67 grams per cubic centimeter was assumed  
in reducing the data to the complete Bouguer anomaly.  
Theoretical gravity was computed from the International  
Formula. Terrain corrections were made for 66 selected  
stations for zones D through K using Hayford-Bowie  
templates (Swick, 1942). The remaining terrain corrections  
were interpolated. The gravity values were referenced to  
base station WA 129 at the Las Vegas, Nevada airport  
(Behrendt and Woollard, 1961).

REFERENCES

- Behrendt, J. C., and Woollard, G. P., 1961, An evaluation  
of the gravity control network in North America:  
Geophysics, v. 26, no. 1, p. 57-76.
- Swick, C. H., 1942, Pendulum gravity measurements and  
isostatic reductions: U.S. Coast and Geod. Survey  
spec. pub. 232, 82 p.

# BOUGUER GRAVITY MAP OF THE NEEDLES AREA, SAN BERNARDINO COUNTY, CALIFORNIA MOHAVE COUNTY, ARIZONA, AND CLARK COUNTY NEVADA

BY  
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