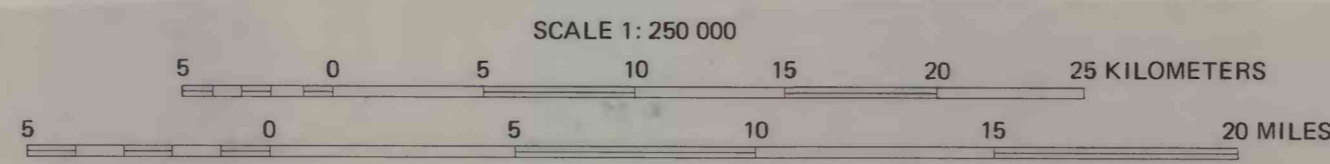


MAP EXPLANATION

**GRAVITY COUTOUR**—Dashed where approximately located. Contour interval is 1 and 5 milligals. Areas of low gravity are hatched. The correct Bouguer gravity was subtracted from the numerically larger theoretical gravity and, consequently, all gravity values on the map are negative. A density of 2.67 g/cc was assumed in correcting the data to the Bouguer anomaly. Terrain corrections were computed or estimated through zone M using Hammer charts (Dobrin, 1960) and applied to all stations. The gravity values are absolute and referenced to Kingdom Gravity Net station no. 41, which is adjusted to the International Gravity Standardization Net of 1971 (Morelli and others, 1971) at Jeddah, Saudi Arabia.

- **GRAVITY STATION**
- LITHOLOGY**
- LAYERED ROCKS**
- PHANEROZOIC ROCKS**
- Recent alluvial and eolian deposits
- Tertiary and quaternary basalts
- "Cover Rocks"
- LATE PROTEROZOIC ROCKS**
- Volcanic or sedimentary rocks unmetamorphosed to moderately metamorphosed



**THE COMPLETE BOUGER GRAVITY FIELD  
 OVER PARTS OF QUADRANGLES 26E, 26F, 27E,  
 AND 27F, NORTHEASTERN ARABIAN SHIELD**

- METAMORPHIC ROCKS**
- Moderately to intensely metamorphosed rocks
- INTRUSIVE ROCKS**
- Felsic and intermediate
- Mafic to ultramafic
- STRUCTURE**
- ANTICLINE—Showing direction of plunge
- SYNCLINE—Showing direction of plunge
- THRUST OR STEEP REVERSE FAULT—Sawtooth on upper plate
- FAULT—Dashed where inferred; bar-and-ball on down-thrown side; arrows indicate relative motion

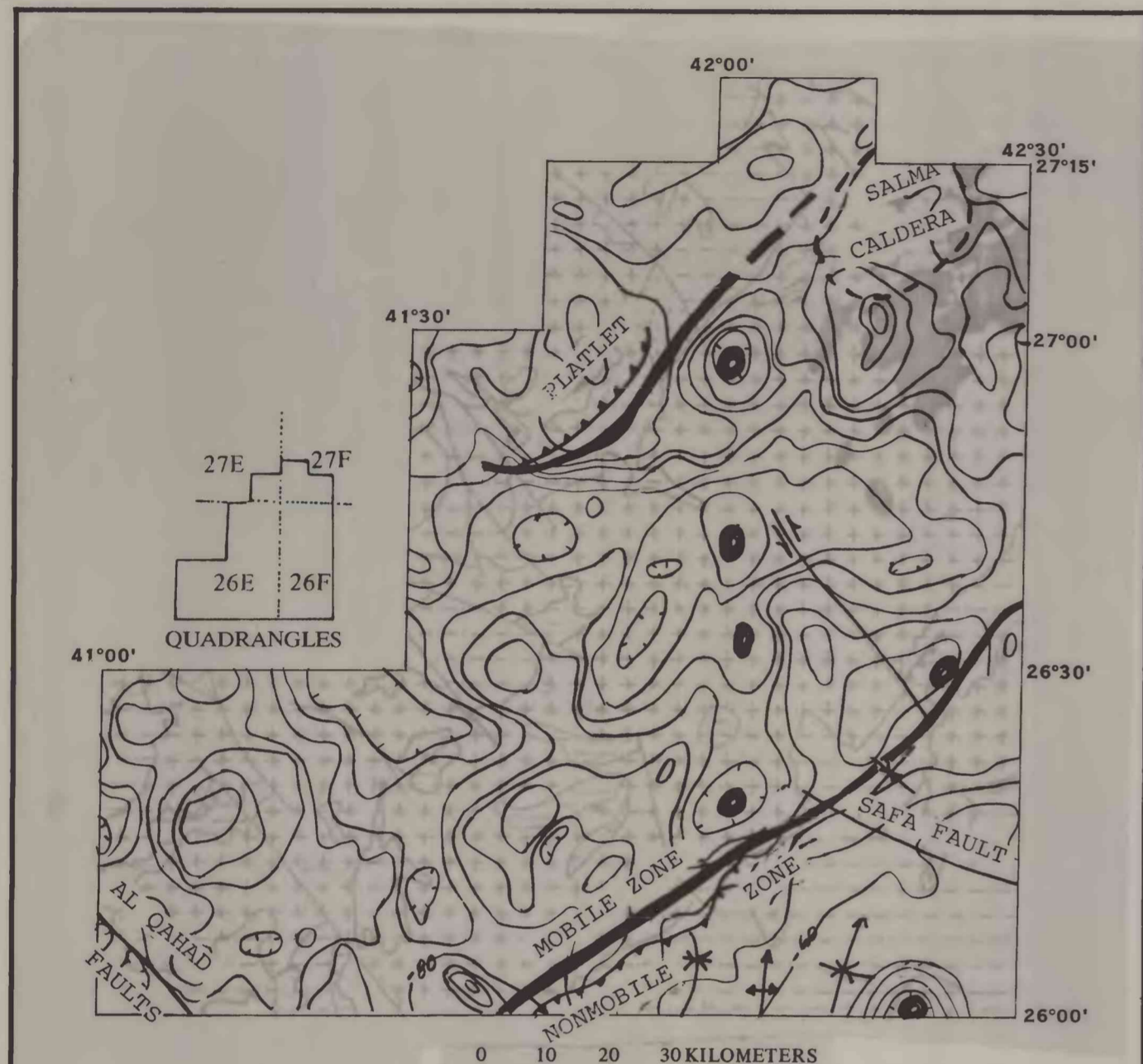


FIGURE EXPLANATION

- PHANEROZOIC ROCKS**
- Alluvium or "Cover Rocks"
- Basalt
- LATE PROTEROZOIC ROCKS**
- Volcanic or sedimentary
- Felsic and intermediate plutonic
- Mafic to ultramafic plutonic
- MOBILE BELT BOUNDARY
- FAULT—Showing relative movement
- THRUST FAULT
- SYNCLINE—Showing plunge
- ANTICLINE—Showing plunge

Sketch of main geologic structure including the major plutons (dark circles) in map area. The boundaries (heavy lines) of the southeast side of the Nabatah mobile belt and of the plattlet have been interpreted from the gravity field as well as from the structural geology. Contours are unlabeled but the same as the 5-mgal contours on the main gravity map.

