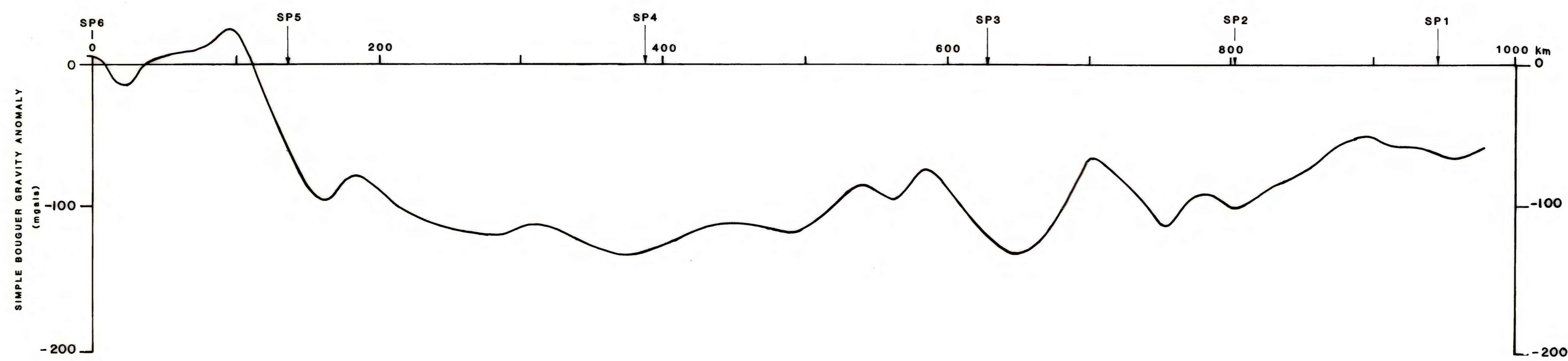
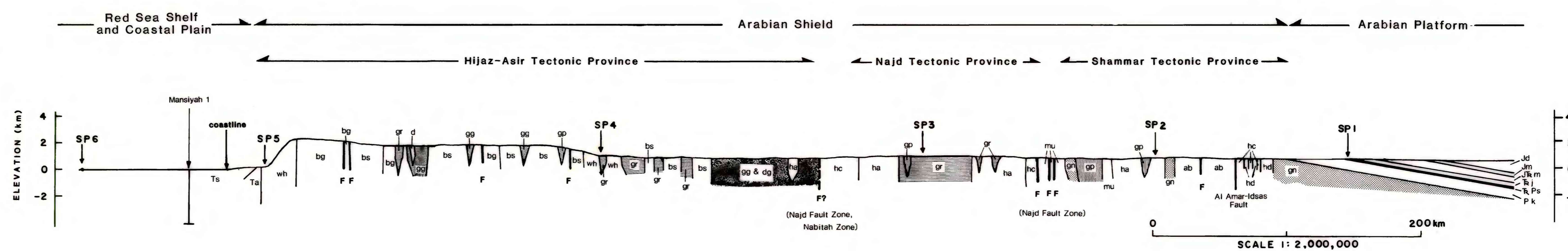


GEOLOGIC SECTION AND GRAVITY, AEROMAGNETIC AND HEAT FLOW PROFILES ALONG THE SEISMIC REFRACTION PROFILE

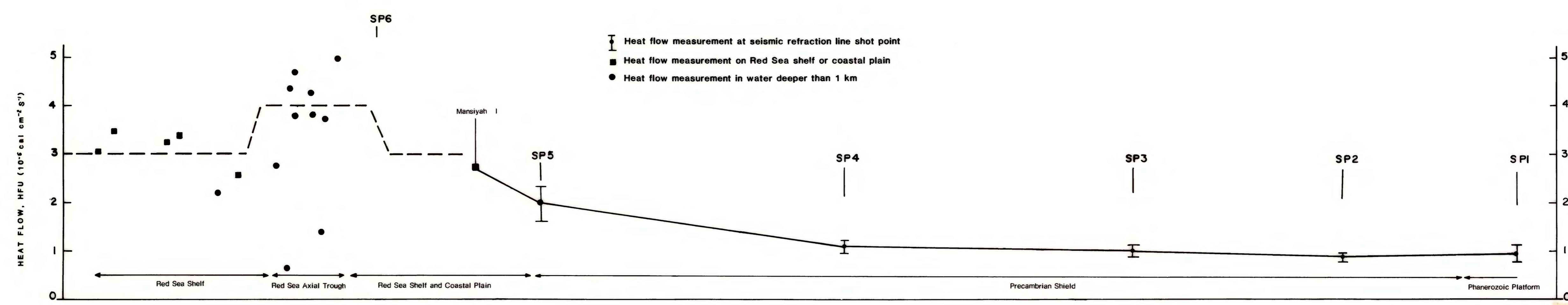
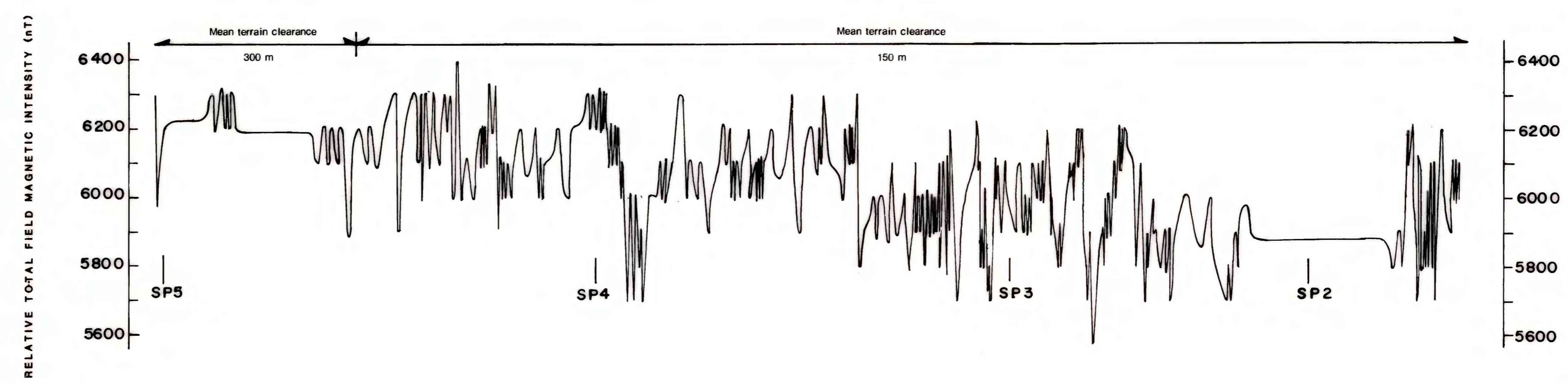
KINGDOM OF SAUDI ARABIA

EXPLANATION

|   |    |                                   |    |
|---|----|-----------------------------------|----|
| Tertiary Sediments                                | Ts | Halaban Formation (andesite)      | ha |
| Andesite and diabase                              | Ta | Halaban Formation (clastic rocks) | hc |
| Hall Schist                                       | wh | Murdama Formation                 | mu |
| Balah Greenstone                                  | bg | Granite gneiss                    | gn |
| Greenschist                                       | bs | Abt schist                        | ab |
| Calc-alkaline Granite                             | gf | Diorite and Quartz diorite        | hd |
| Diorite   | d  | Khuff Formation                   | pk |
| Granite   | gg | Sudair Shale                      | sp |
| Peralkaline Granite                               | gp | Jilh Formation                    | ji |
| Granodiorite and diorite                          | dg | Minjur Sandstone                  | jm |
| Fault   | F  | Marrat Formation                  | ma |
| Geologic contact                                  |    | Dhurma Formation                  | da |
| Location of seismic refraction profile shot point | SP |                                   |    |



- SOURCES OF INFORMATION**
1. Geologic section: U.S. Geological Survey - Arabian American Oil Company (1963).
  2. Gravity profile: Gettings (1977) and Gettings (unpublished).
  3. Aeromagnetic profile: Andraessen and others (1980).
  4. Heat flow profile: Gettings and Showell (1980).



This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.