



GROUND WATER FLOW DIRECTIONS  
INFERRED FROM THE TEMPERATURE SURVEYS

Our interpretation of the general paths of ground water flow in the project area as inferred from analysis of the temperature surveys is presented in Figure 8. The important points to note are:

- A ground water flow divide appears to occur near the mouth of Cow Heaven Canyon between water flowing to the southwest and water flowing to the northeast toward Inyokern. From the data currently available, it is impossible to determine if the southwest flowing water continues south and discharges into Fremont Valley through Red Rock Canyon or whether it crosses the valley to the base of the El Paso Mountains and then turns north toward Inyokern, perhaps along a fault zone.
- Most inferred ground water flow paths do not follow active surface channels. The major exceptions to this are at Freeman Gulch and, perhaps, at Little Dixie Wash north of its intersection with Freeman Gulch.
- Much of the ground water from Freeman Canyon probably follows Freeman Gulch. Some additional ground water from the canyon may flow to the north of West Bowman Road in an area not covered by our temperature probes.
- A northeast oriented flow path may exist several miles east of Freeman Junction. It may be related to a fault in the area that has been inferred from seismic data (Dutcher and Moyle, 1973, Plate 1).
- No well defined flow path has been found extending into the project area from the El Paso Mountains.
- The ground water flow paths and the position of the ground water divide that we derive from the thermal survey are similar in major respects to those published by the U. S. Geological Survey (Dutcher and Moyle, 1973, Plate 2).