

Determine the structure of the faulted Oil City Sandstone in Fig. 8.53. Is a single fault present? What kind? What is the evidence? What is the attitude of the fault? of bedding in the hangingwall? of bedding in the footwall? What is the heave and throw on the fault? Does the map agree with the attitude information? Explain the reason for the hydrocarbon trap.

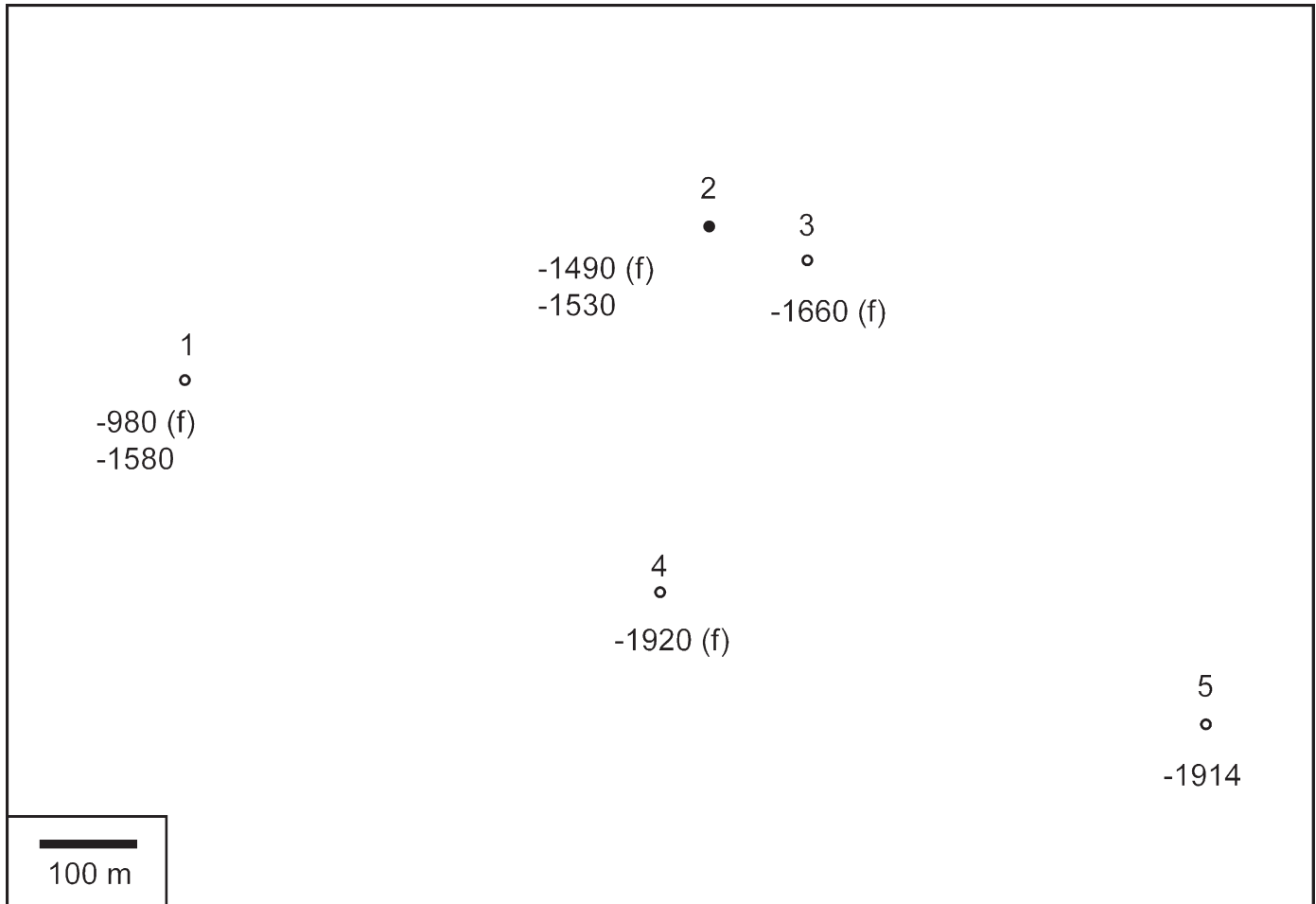


Fig. 8.53. Map of information for the Oil City Sandstone. Posted on the map are the elevations of fault cuts (*f*) and the top of the sandstone. Well 2 is an oil well. Dipmeters in well 1 indicate a bedding attitude of 10, 315 and a fault strike of 045; in well 5 the bedding attitude is 8, 315. Elevations are in meters