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During February two localised investigations were made. One investigation covered the Elm Creek fault in southern Guadalupe County. Closure was mapped at the southwest end of the fault. A report in form of a map of the area was turned in through Mr.K.S.Ferguson. The second investigation covered the West Belmont area in eastern Guadalupe County. A report on this area has been made.

The remainder of the month was used to map in those parts of Bastrop County which are not covered by existing Company geological maps. The following are the preliminary results. The section at Smithville is not faulted as was assumed previously in spite of the fact that the dips of the Weches and other beds are steep. The section at Smithville includes fossiliferous marine Sparta and fossiliferous marine Queen City. The latter beds crop out at the mouth of Gazley Creek and are about 20 feet below the base of the Weches stratigraphically. Other parts of the Queen City are also marine. Paleontologically interesting is the fact that the Queen City at Gazley Creek contains *Callocardia astartoides* Gardner, which is very common in the equivalents of the Queen City of the Pearsall and Luna Vista region. The Gazley Creek fauna is the at present the only *Callocardia* occurrence which is tied in in a regular Mount Selman section.