

REPORT OF SUB-COMMITTEE FOR SOUTH AREA

The assigned South Area for this subcommittee included Sections 1-12, T22S, R37E; the south half of Section 31, T22S, R37E; and portions of the Skelly Penrose "A" and "B" Units which extend into Sections 31, 32, 33, and 34, T22S, R37E. This subcommittee included representatives of Gulf Oil Corporation, Amerada-Mess, Agua, Inc., and Skelly Oil Company; with Skelly Oil Company serving as chairman.

We have reviewed (1) well schematics, (2) available data on all known wellbores in the study area, (3) available data on waterflows, (4) temperature surveys, (5) injection profiles, (6) bradenhead pressures, (7) remedial work performed. Based on this information we have formulated the following recommendations:

General Recommendations:

1. That bradenhead pressure surveys be required on all active wells within the study area. That an initial bradenhead pressure check be obtained on each well as soon as possible. That bradenhead pressures be routinely reported at quarterly intervals for one year, and semi-annually thereafter. That remedial operations be expeditiously performed on wells where waterflows are indicated.
2. That bradenhead pressure data be utilized to determine localized problem areas where additional information or surveys are required to determine scope of problem. Our review of the South Area indicates that problem is not blanket throughout the area at this time; but localized in scattered areas.
3. That injection profiles and temperature surveys be run on injection wells in indicated problem areas to monitor injected water movement. That temperature surveys be run on producing wells in indicated problem areas to monitor water movement behind the casing; unless the Commission approves exemption due to recent remedial cementing operations which are considered to have eliminated possibility of waterflow. That temperature surveys be run on any well, in an indicated problem area, where bradenhead pressure check is deemed inconclusive due to either a shallow casing leak repair operation or suspected bridge condition in the bradenhead annulus. That remedial operations be expeditiously performed on wells where waterflows behind pipe are indicated.
4. That plugged and abandoned wells located in indicated problem areas be re-entered and re-plugged in a manner to insure against water movement within the wellbore under waterflood conditions.
5. That injection into the Skelly Penrose "A" Unit be increased to 150% of withdrawal rates as soon as remedial work indicated in the "Recommendations on Specific Wells" Section for wells in the immediate area has been satisfactorily completed.