

values, and I think you have perhaps done some very unique work in going to different institutions of learning—I believe it was Cornell University—and working with other groups in seeing what can be done in the way of overall planning and development, anticipating the entrance of people into these areas. What will be required in the way of new cities and that sort of growth? Would you have just a word for us in that regard?

Mr. SMITH. We are very fortunate to have several studies made of the impact of the population growth that would result from the beginning of a substantial industry in an area where there are now practically no people. The Denver Research Institute made a careful study, in fact two studies, of the economic impact on the region of an oil shale industry. We then had Cornell University work up a master plan in various phases as to how the population and community would be handled. At the present time we have a regional planning organization supported by tax levy working on the whole program.

We, of course, are very concerned with air pollution and water pollution. We are very concerned with the availability of water which has already been discussed here. I know it is not necessary to state to you gentlemen that water does not wait in the West. It is being taken up rapidly and put to use. We are very much concerned by the possibility that there simply will not be enough adjudicated water to do the million barrel a day job of 5 years or 10 or 15 years from now, to say nothing of the period beyond that. And I agree heartily with Mr. Russell Cameron, who stated that the 20,000 acre-foot figure that was given by the Secretary is not the key figure. We must go much higher than that because if you do not have enough water to support the whole system, enough water to support just one part of the process is not any good at all.

Senator HANSEN. I know you have gone with unusual vigor into seeking out answers to the ramifications of oil shale development, anticipating problems, and I wish we had more time to explore your findings. I appreciate that we do not. I want to commend you for a very excellent statement, Mr. Smith. I think you made a big contribution.

Mr. SMITH. Thank you, sir.

Senator HANSEN. Thank you, Mr. Chairman.

Senator MOSS. Thank you, Mr. Smith, Mr. Nielsen, and Mr. Bowes. We do appreciate your coming. The statement was most helpful and reinforces some of the urgency for moving on in this field.

The Senator from Colorado mentioned that we did not hear from the Bureau of Mines and the Geological Survey today. I should announce that both Dr. Hibbard and Dr. Pecora were invited but are out of the city at this time, in California, so they could not appear. However, the committee certainly will invite them at a later date and certainly will hear from them.

As the chairman announced, the record will be kept open at least until March 10 for any additional statements that anyone would like to file to amplify the record and clarify any of the points that have been discussed or bring in any new material. This is an exploratory hearing and we would welcome any additional statements. They will be printed at this point in the hearing record.

(The statements referred to follow:)