

seen, the Bonanza Gilsonite area with its veins of solid hydrocarbon, and the Red Wash Oil Field with production mostly from the Green River Formation. Beyond Vernal, Utah, we flew in the vicinity of the Asphalt Ridge, the White Rocks area with its exposure of oil-impregnated Navajo sandstone, the Sunnyside asphalt deposits with the oil-impregnated sandstone beds in the Green River and Wasatch Formations, and back over Naval Oil Shale Reserve No. 2. En route we passed over several areas of interest, but in general we got a comprehensive view of the vastness of the area and the interrelation not only of oil shale but other sources of energy that are present in the vicinity. A business session was held all afternoon at Rifle and then continued at dinner and afterwards in Glenwood Springs. The following morning, the 15th, we met for two hours and then broke up to follow our respective courses for home. The information provided us was beginning to ferment. The discussions were active and beneficial. Issues began to be drawn.²⁵

The Board had generally agreed that we could not proceed to any final conclusions without an opportunity to hear the nongovernmental advocates of oil shale activity. Accordingly, our next meeting was scheduled to hear those who had information of value for us.²⁶ It was held in Washington, D.C., beginning November 29. We listened to presentations by numerous capable and interested companies and individual spokesmen,²⁷ the pointed comments on many of the issues began to make clear the developing line of the report. The three-day

²⁵ At Rifle, Colorado, talks were given by:

(1) Governor John A. Love, Colorado.

(2) Professor James Gary, Colorado School of Mines, "Technology of In Situ Recovery of Oil from Shale."

At or subsequent to the Rifle meeting, the following data was provided to the Board:

(1) "Summary of Oil Shale Resources of the Green River Formation in Colorado, Utah, and Wyoming," U.S.G.C., (undated, but presented Sept. 14, 1964), 14 pp.

(2) "Earlier Oil Shale Proposals" (received by the Department), list of eight proposals (undated, but mailed September 25, 1964), 2 pp.

(3) "Memorandum from the President Addressed to the Heads of the Executive Departments and Agencies on Government Patent Policy with Statement Attached," copy of pp. 18320 and 18321, Cong. Rec., October 10, 1963.

(4) McKelvey, "Economic Problems Attending Oil Shale Development," September 13, 1964, 25 pp.

(5) Cavanaugh, "Disposition of money received under the Mineral Leasing Act," September 8, 1964, 3 pp.

(6) Love, "Remarks by Governor John A. Love before National Oil Shale Advisory Committee," Sept. 13, 1964, 4 pp.

²⁶ U.S. Dept. of the Interior Press Release, P.N. 54892-64, Office of the Secretary, "Oil Shale Advisory Board to meet with Industry," Nov. 13, 1964.

²⁷ Parties represented and documents presented included:

(1) Governor John A. Love of Colorado, and associates, Ted Stockmar, Russell Cameron, Richard Eccles, Jack Tweedy, Frank Cooley and Richard Schmidt: "Statement of John A. Love, Governor of Colorado, to the National Oil Shale Advisory Board, Dec. 1, 1964, 6 pp.; and "Supplementary Written Statement of Governor John A. Love to the Oil Shale Advisory Board," December 1, 1964, 60 pp.

(2) Messrs. O'Brian and Bradley, National Coal Association: "Statement to the Oil Shale Advisory Committee of the Department of the Interior, by Robert E. Lee Hall, Vice-President," (undated), 4 pp.

(3) Curtis Morris, American Gas Association: "Statement Prepared for Oil Shale Advisory Board," December 1, 1964, 6 pp.

(4) Dr. Charles F. Jones and Ray Sloan: a letter from Dr. Charles F. Jones, President, Humble Oil and Refining Company, Dec. 9, 1964, on "Research," with enclosures, 20 pp.

(5) F. W. Williams, Rocky Mountain Oil and Gas Association: letter to Oil Shale Advisory Board, by F. W. McWilliams, Nov. 25, 1964, 2 pp.

(6) Messrs. Hayes, Stones, Brown, and Black, Shell Oil Company: "Statement of Shell Oil Company Representatives before Oil Shale Advisory Board," Nov. 30, 1964, 4 pp.

(7) N. B. Carson and Bruce Grant, Sinclair Oil and Gas Co.: letter to Oil Shale Advisory Board by J. B. Kennedy, President, Nov. 24, 1964, 3 pp.

(8) T. W. Nelson, Dr. Dayton H. Clewell, and Jack E. Earnest, Socony Mobil Oil Co., Inc.: "Opening Statement to Oil Shale Advisory Board by T. W. Nelson," Dec. 1, 1964, 10 pp.

(9) H. I. Koolsbergen, M. M. Winston, and A. F. Lenhart, The Oil Shale Corporation (TOSCO): "Oil Shale Development on Federal Lands, Supplemental Written Statement of the Oil Shale Corporation to the Oil Shale Advisory Board," Nov. 30, 1964, 37 pp.

(10) John R. Pownall and John Allen, Union Oil Company of California: "Statement on Oil Shale Policy Matters to the Oil Shale Advisory Board of the U.S. Dept. of the Interior by John R. Pownall," Dec. 1, 1964, 6 pp.

(11) J. H. Smith, Jr., and John Savage, Valley Landowners Association: exhibits of letters, 12 pp.