REFERENCES

## REFERENCES

- <u>Acid Mine Drainage in Appalachia</u>, Appalachian Regional Commission, Appendix C, The Incidence and Formation of Mine Drainage Pollution in Appalachia, 126 p., (1969)
- Ashley, G. H., <u>Geology and Mineral Resources of the Punxsutawney Quadrangle, Pennsylvania:</u> Pennsylvania Geol. Survey, 4th ser., Atlas 65., (1926)
- Ashley, G. H., <u>Bituminous Coal Fields of Pennsylvania, General Information on Coal, Part I:</u> Pennsylvania Geol. Survey, 4th ser., Bull. M6, 237 p., (1928)
- Balsinger, T. R., Delong, T. S., Ibberson, J. E., <u>Observations of and Recommendations for</u> <u>Reforestation Plantings on Areas Affected by Open Pit Mining in the Bituminous Coal</u> <u>Fields of Pennsylvania:</u> Rept. to M. K. Goddard, Secretary, Forests and Waters, and J. T. Kennedy, Secretary, Mines and Mineral Industries, 13 p., (1957)
- Barnes, H. L. and Romberger, S. B., <u>Chemical Aspects of Acid Mine Drainage</u>, <u>Part I:</u> Journal Water Pollution Control Federation, p. 371 384., (1968)
- Barnes, I. and Clarke, F. E., <u>Geochemistry of Ground Water in Mine Drainage Problems:</u> U. S. Geol. Survey Prof. Paper 473-A, p. Al A6., (1964)
- Barnes, I. and Stuart, W. T., and Fisher, D. W., <u>Field Investigation of Mine Waters in the</u> <u>Northern Anthracite Field Pennsylvania:</u> U.S. Geol. Survey Prof. Paper 473-B, p. B1 -B8., (1964)
- Biesecker, J. E. and George, J. R., <u>Stream Quality in Appalachia as Related to Coal-Mine</u> <u>Drainage, 1965:</u> U. S. Geol. Survey Circ. 526, 27 p., (1966)
- Braley, S. A., <u>Mine Acid Control:</u> Am. Inst. Mining and Metall. Engineers, Coal and Industrial Minerals Divisions mtg., Bedford Springs, Pa., Sept. 24 26, 1959, 6 p., (1959)
- Carswell, L. D. and Bennett, G. D., <u>Geology and Hydrology of the Neshannock Quadrangle</u>, <u>Mercer and Lawrence Counties</u>, <u>Pennsylvania</u>: Pennsylvania Geol. Survey, 4th ser., Bull. W15, 90 p., (1963)
- Caruccio, F. T., <u>The Quantification of Reactive Pyrite by Grain Size Distribution</u>: 3rd Symposium on Coal Mine Drainage Research, Mellon Institute, Pittsburgh, Pa., May 19 -20, 1970, p. 123 - 131., (1970)
- Caruccio, F. T. and Parizek, R. R., <u>An Evaluation of Factors Affecting Acid Mine Drainage</u> <u>Production And the Ground Water Interactions in Selected Areas of Western</u> <u>Pennsylvania:</u> 2nd Symposium on Coal Mine Drainage Research, Mellon Institute, Pittsburgh, Pa., May 14-15, 1968, p. 107 - 151., (1968)

- Chester Engineers, <u>Report To The Sanitary Water Board on Pollution of Slippery Rock Creek:</u> Pennsylvania Dept. of Health, Bureau of Environmental Health, Div. of Sanitary Eng., pub. no. 17, 29 p., (1967)
- Clifford, J. E. and Snavely, C.A., <u>Studies of Acid Mine Waters With Particular Reference to the</u> <u>Raccoon Creek Watershed:</u> Battelle Memorial Institute Monograph to The Ohio Div. Wildlife, Dept. of Natural Resources, 82 p., (1954)
- Collier, C.C., <u>Influence of Strip Mining on the Hydrologic Environment of Parts of Beaver</u> <u>Creek Basin, Kentucky:</u> U. S. Geol. Survey Prof. Paper 427-B, (1962)
- <u>The Comprehensive Plan For Butler County:</u> Butler County Planning Commission, Rept. no. 5, 103 p., (1965)
- Corbett, D. M. and Agnew, A. F., <u>Hydrology of the Busseron Creek Watershed</u>, <u>Indiana:</u> Water Resources Research Center, Indiana University, 187 p., (1968)
- Deul, M. and Mihok, E. A., <u>Mine Water Research; Neutralization:</u> U. S. Bur. Mines, Rept. Inv. RI 6987, 24 p., (1967)
- Dutcher, R. R., Jones, E. B., Lovell, H. L., Parizek, R. R., and Stefanko, R., <u>Mine Drainage, Part</u> <u>1: Abatement, Disposal, Treatment:</u> Mineral Industries, The Penna. State Univ., v. 36, no. 3, 7 p., (1966)
- Dutcher, R. R., <u>Mine Drainage, Part II: The Hydrologic Setting:</u> Mineral Industries, The Penna. State Univ., v. 36, no. 4, 7 p., (1967)
- Edmunds, W. E., <u>Geology and Mineral Resources of the Northern Half of the Houtzdale</u> <u>Quadrangle:</u> Pennsylvania Geol. Survey, 4th ser., Atlas A85 ab., (1968)
- Edmunds, W. E., <u>Revised Lithoesratigraphic Nomenclature of the Pottsville and Allegheny</u> <u>Groups (Pennsylvanian), Clearfield County, Pennsylvania:</u> Pennsylvania Geol. Survey, 4th ser., Bull. IC51, 36 p., (1969)
- Emrich, G. H., <u>Effects of Coal Mining On Ground Water</u>: Am. Inst. Mining and Metall. Engineers, Rocky Mountain Minerals Conf., Fall mtg., Phoenix, Arizona, October 7 - 9, 1965, 11 p., (1965)
- Emrich, G. H., <u>Ground Water Geology:</u> Pennsylvania Dept. of Health, Div. Sanitary Eng., pub. no. 11, 27 p., (1966)
- Emrich, G. H., and Thompson, D. R., <u>Some Characteristics of Drainage From Deep Bituminous</u> <u>Mines in Pennsylvania</u>: 2nd Symposium on Coal Mine Drainage Research, Mellon Institute, Pittsburgh, Pa., May 14 - 15, 1968, p. 190 - 222., (1968)

- <u>Feasibility Study on the Application of Various Grouting Agents, Techniques and Methods to</u> <u>the Abatement of Mine Drainage Pollution,</u> Report by Halliburton Company for the U.S. Dept. of the interior, Federal Water Quality Administration, Part I, 227 p.; Part II, 161 p., (1967), Part IV, 181 p., (1968)
- Ferm, J. C., <u>Petrology of the Kittanning Formation Near Brookville, Pennsylvania:</u> Unpublished Ph.D. thesis, The Penna. State Univ., (1957)
- Ferm, J. C., and Williams, E. G., <u>Stratigraphic Variation In Some Allegheny Rocks of Western</u> <u>Pennsylvania:</u> Am. Assoc. Petroleum Geologists Bull., v. 44, no. 4, p. 495 - 497., (1960)
- <u>A Guide For Revegetating Bituminous Strip Mine Spoils in Pennsylvania:</u> Research Committee on Coal Mine Spoil Revegetation in Pennsylvania, 46 p., (1965)
- Hanna, G. P. and Brant, R. A., <u>Stratigraphic Relations to Acid Mine Water Production:</u> Proceedings of the Seventeenth Industrial Waste Conference, Eng. Extension Series, no. 12, Purdue University, p. 478 - 492., (1962)
- Hill, R. D., Mine Drainage Treatment State of the Art and Research Needs: U. S. Dept. of the Interior, Federal Water Pollution Control Administration, Mine Drainage Control Activities, 99 p., (1968)
- Kent, B. H., Roen, J. B., Schweinfurth, S. P., and Carswell, L. D., <u>Stratigraphy of the</u> <u>Pennsylvanian and Permian Rocks of Washington, Mercer, and Lawrence Counties,</u> <u>Pennsylvania:</u> Pennsylvania Geologists Ann. Field Conf., 30th, 1965, Guidebook, 95 p., (1965)
- Land Use and Physical Features: Butler County Planning Commission, Rept. no. 2, 101 p., (1965)
- Land Use Slippery Rock Creek Watershed: Butler County Planning Commission, 29 p., (1967)
- Leverett, F., <u>Glacial Formations and Drainage Features of the Erie and Ohio Basins:</u> U. S. Geol. Survey Mon. 41, 802 p., (1902)
- Leverett, F., Glacial Deposits Outside of the Terminal Moraine in Pennsylvania: Pennsylvania Geol. Survey, 4th ser., Bull. G-7, 123 p., (1934)
- Lorenz, W. C. and Stephen, R. W., <u>A Review of Current Research On Coal Mine Drainage in</u> <u>Appalachia:</u> Development of Water Resources in Appalachia, U. S. Dept. of the Interior, Bureau of Mines, Area I Mineral Resource Office, Pittsburgh, Pennsylvania, 26 p., (1967)

- Lorenz, W. C., <u>Factors That Affect The Formation of Coal Mine Drainage Pollution in</u> <u>Appalachia:</u> ibid., 17 p.
- Lorenz, W. C., The Oxidation of Pyrite Associated With Coal Mines: ibid., 21 p.
- Lorenz, W. C., <u>Survey of Costs on Methods For Control of Acid Mine Drainage Pollution:</u> ibid., 35 p., (1968)
- Lucas, J. R., <u>A Field Study in Acid Mine Drainage:</u> Am. Inst. Mining and Metall. Engineers, ann. mtg., New York, Feb. 14 18, 13 p., (1960)
- Mansfield, S. P. and Spackman, W., <u>Petrographic Composition and Sulphur Content of Selected</u> <u>Pennsylvania Bituminous Coal Seams:</u> The Pennsylvania State University, Special Research Report no. SR-50, Coal Research Board of Pennsylvania, 178 p., (1965)
- Moebs, N. N., <u>Mine Air Sealing: A Progress Report:</u> 2nd Symposium on Coal Mine Drainage Research, Mellon Institute, Pittsburgh, Pa., May 14 - 15, 1968, p. 255 - 264., (1968)
- Patterson, E. D., <u>Coal Resources of Beaver County</u>, Pennsylvania: U. S. Geol. Survey Bull., 1143-A, 33 p., (1963)
- Patterson, E. D., and VanLieu, J. A., <u>Coal Resources of Butler County, Pennsylvania:</u> U. S. Geol. Survey open-file rept., (1969)
- Poth, C. W., <u>Geology and Hydrology of the Mercer Quadrangle, Mercer, Lawrence and Butler</u> <u>Counties, Pennsylvania:</u> Pennsylvania Geol. Survey, 4th ser., Bull. W16, 149 p., (1963)
- Preston, F. W., <u>Glacial Foreland of Northwest Pennsylvania</u>: Guidebook Field Conference of Pennsylvania Geologists, 16th ann. mtg., Pittsburgh, Pennsylvania, p. 11 36., (1950)
- Reese, R. D. and Lovell, H. L., <u>A Study of the Reactions Between Coal and Coal Mine</u> <u>Drainage:</u> Dept. of Mineral Preparation, College of Mineral Industries, The Pennsylvania State University, Special Research Report no. SR-54, Coal Research Board of Pennsylvania. 179 p., (1965)
- Reese, J. F. and Sisler, J. D., <u>Bituminous Coal Fields of Pennsylvania, Coal Resources, Part III:</u> Pennsylvania Geol. Survey, 4th ser., Bull. M6, 153 p., (1928)
- Reidenouer, D. R., <u>The Relationship Between Sulphur Distribution and Paleotopography in</u> <u>Three Selected Coal Seams of Western Pennsylvania:</u> unpublished M. S. Thesis, The Penna. State Univ., 196 p., (1966)

- <u>Report On Pollution of Slippery Rock Creek:</u> Pennsylvania Department of Health, Bureau of Environmental Health, Division of Sanitary Engineering, pub. no. 8, 76 p., (1965)
- Richardson, G. B., <u>Geology and Mineral Resources of the Butler and Zelienople Quadrangles</u>, <u>Pennsylvania:</u> U. S. Geol. Survey Bull. 873, 93 p., (1936)
- Shellgren, M. A., <u>The Effects of Lime Neutralization of the North Branch of Slippery Rock</u> <u>Creek, Butler County, Pennsylvania and The Colonization of Iron Coated Rocks by</u> <u>Aquatic Insects in a Neutral Environment:</u> Report to the Pennsylvania Department of Mines and Mineral Industries 33 p., (1968)
- Shepps, V. C., and others, <u>Glacial Geology of Northwestern Pennsylvania</u>: Pennsylvania Geol. Survey, 4th ser., Bull. G-32, 59 p., (1959)
- Sherrill, R. E. and Matteson, L. S., <u>Geology of the Oil and Gas Fields of the Hilliards</u> <u>Quadrangle:</u> Pennsylvania Geol. Survey, 4th ser., Bull. 122, 25 p., (1949)
- Sherrill, R. E., <u>Oil and Gas Geology of the Franklin Quadrangle, Pennsylvania</u>: Pennsylvania Geol. Survey, 4th ser., Bull. M24, 71 p., (1941)
- Sisler, J. D., <u>Bituminous Coal Fields of Pennsylvania</u>, <u>Detailed Description of Coal Fields</u>, <u>Part</u> <u>II:</u> Pennsylvania Geol. Survey, 4th ser., Bull. M6, 486 p., (1961)

Strip Mines Butler County: Butler County Planning Commission, 15 p., (1968)

- Thompson, D. R., <u>Complex Ground Water and Mine Drainage Problems From A Bituminous</u> <u>Coal Mine in Western Pennsylvania:</u> Assoc. of Engineering Geologists, ann. mtg., Dallas, Texas, 1967, 12 p., (1967)
- Thompson, D. R., and Emrich, G. H., <u>Hydrologic Considerations For Sealing Coal Mines:</u> Bureau of Sanitary Engineering, Pennsylvania Department of health, 21 p., (1969)
- U. S. Congress, <u>Acid Mine Drainage:</u> Rept. U. S. Dept. of Health, Education and Welfare; U. S. 87th Cong., 2nd sess., House Comm., Print 18, Washington, D. C., U. S. Govt. Printing Office, 23 p., (1962)
- U. S. Geological Survey and U. S. Bureau of Mines, <u>Mineral Resources of The Appalachian</u> <u>Region:</u> U. S. Geol. Survey Prof. Paper 580, 491 p., (1968)
- VanLieu, J. A. and Patterson, E. D., <u>Coal Resources of Lawrence County, Pennsylvania:</u> U. S. Geol. Survey Bull. 1143-B, 33 p., (1964)

- Williams, E. G., <u>Stratigraphy of the Allegheny Series in the Clearfield Basin:</u> Unpublished Ph.D. Thesis, The Penna. State Univ., (1957)
- Williams, E. G., Ferm, J. C., Guber, A. L. and Bergenback, R. E., <u>Cyclic Sedimentation in the</u> <u>Carboniferous of Western Pennsylvania</u>: Guidebook 29th Annual Conference Pennsylvania Geologists, State College, Pennsylvania, Oct. 10 - 11, 1964, 35 p., (1969)
- Williams, E. C., <u>Marine and Fresh Water Fossiliferous Beds in the Pottsville and Allegheny</u> <u>Groups of Western Pennsylvania:</u> Jour. of Paleo., vol. 34, pp. 908 - 922, (1960)
- Williams, E. G., and Keith, M. I., <u>Relationship Between Sulphur in Coal and the Occurrence of</u> <u>Marine Roof Beds:</u> Econ. Geol., vol. 58, pp. 720 - 729., (1963)