

Notes on Division history

Compiled by J. Eric Schuster

May 19, 1986

LIBRARY
DEPARTMENT OF NATURAL RESOURCES
GEOLOGY AND EARTH RESOURCES DIVISION
OLYMPIA, WASHINGTON 98504

J.E.S.

Notes of 4-23-86:

Judy Kittle, DNR Personnel, tells me that I can find out who worked for the Division by consulting old Organization Code listings. These list name, position, salary, seniority date, and other items. The Department holds these records going back many years. Sandra Clancy has them. Personnel files for individuals can be gotten from Archives if I can supply names.

Notes of 4-10-86:

***From 1901-1903 Biennial report of the Board of Geological Survey

Survey staff received no salaries other than a small per diem allowance for time actually spent in the field work of the Survey.

Annual report for 1901: Ready by March, 1902. 2,000 copies were printed, 1,000 cloth bound and 1,000 paper bound. Sent out free of charge. "...But a few paper copies remained" by the time the 1901-1903 Biennial Report was written on December 1, 1902.

Appropriation for the biennium was \$10,000. \$7,769.50 had been expended by Dec. 1, 1902.

***From 1909-1911 Biennial report of the Board of Geological Survey

1903 Legislature amended the 1901 law to allow the Survey to enter into 50:50 cost-shared topographic, geologic and hydrographic surveys of the state with the U.S.G.S. 1909 Legislature appropriated \$30,000 for U.S.G.S. cooperative work and \$20,000 for work provided for by the laws of 1901, as amended in 1903, for the 1909-1911 biennium.

Bulletin No. 1, by Umpleby, 1910, was published (1200 cloth bound copies). Available from State Librarian for \$0.35.

For cooperative work with U.S.G.S.--	
appropriation	\$30,000.00
spent to 12-01-10	<u>26,237.77</u>
balance	3,762.23

For State Geological Survey--	
appropriation	\$20,000.00
spent to 12-01-10	<u>18,801.51</u>
balance	1,198.49

For road material surveys--	
appropriation	\$5,000.00
spent to 12-01-10	<u>3,779.22</u>
balance	1,220.78

The State Geological Survey apparently remained in operation, or at least remained organized, between 1903 and 1909, but there may have been no appropriation between 1903 and 1909. No field work or other investigations are mentioned previous to the 1909 field season, and the biennial report says that the Board of

Geological Survey met and organized itself on April 16, 1909, and elected Henry Landes (U of W, then called the State University) State Geologist and Solon Shedd Assistant State Geologist. I need to check to see if any publications were released between 1903 and 1909--this will be the best clue to the activity level in those years.

***From Board of Geological Survey, Biennial Report for 1911-1913

For topographic and hydrographic surveys--

appropriation	\$37,500.00
spent to 12-01-12	<u>31,548.17</u>
balance	5,951.83

For geological surveys--

appropriation	\$20,000.00
spent to 12-01-12	<u>19,965.33</u>
balance	34.67

***From Board of Geological Survey, Biennial Report for 1913-1915

Landes was reelected State Geologist for the ensuing term of four years.

New base map of state prepared, in cooperation with the U.S.G.S., and printed in two colors. Scale 8 miles to the inch.

For topographic and hydrological surveys--

appropriated	\$35,000.00
spent to 12-01-14	<u>29,389.50</u>
balance	5,610.50

For geological surveys--

appropriated	\$20,000.00
spent to 12-01-14	<u>17,116.53</u>
balance	2,883.47

***From Board of Geological Survey, Biennial Report for 1915-1917

Henry Landes has office at University Station, Seattle.

For topographic and hydrographical surveys--

appropriation	\$35,000.00
spent to 12-01-16	<u>30,111.43</u>
balance	4,888.57

No financial statement given for geological surveys, but \$20,000.00 requested for following biennium.

From p. 25 "...More requests have come for a geological map of the state than for any other one thing. With the base map now available it is desirable that the boundaries of the different geological formations should be entered thereon and a complete geological map of the state be prepared as early as possible. This has been very generally done by other states and Washington will be one of the last to prepare such a map. The cost of preparation of such a map is not excessive, and its value to our citizens generally would repay the cost many fold."

***From Board of Geological Survey, Biennial Report for 1919-1921
Landes' office still in Seattle. Biennium ended March 31,
1919.

For topographic and hydrological surveys--	
appropriation	\$35,000.00
spent to 11-30-18	<u>26,371.01</u>
balance	8,628.99

For geological surveys--	
appropriation	\$5,700.00
spent to 11-30-18	<u>5,614.27</u>
balance	85.73

For supplies, materials, and service--	
appropriation	\$7,400.00
spent to 11-30-18	<u>3,268.53</u>
balance	4,132.47

For salaries and wages--	
appropriation	\$6,900.00
spent to 11-30-18	<u>5,304.22</u>
balance	1,595.78

The same call for preparation of a state geologic map as was in the 1915-1917 report is repeated here. A similar note appeared in the 1913-1915 report, and a more general call for a state map was in the 1911-1913 report.

***From Board of Geological Survey, Biennial Report for 1919-1921
Landes is still listed as State Geologist; still located in
Seattle.

For topographic and hydrological surveys--	
appropriation	\$35,000.00
spent to 11-30-20	<u>30,261.00</u>
balance	4,739.00

For investigations and surveys--	
appropriation	\$5,700.00
spent to 11-30-20	<u>4,810.18</u>
balance	889.82

For supplies, materials, and service--	
appropriation	\$7,400.00
spent to 11-30-20	<u>4,644.73</u>
balance	2,755.27

For salaries and wages--	
appropriation	\$6,900.00
spent to 11-30-20	<u>5,875.21</u>
balance	1,024.79

***Report of Supervisor of Geology from 4-01-21 to 09-30-22

Includes list of appropriations for other state geological surveys. Requested \$20,000.00 for topographic mapping and \$20,000.00 for geological surveys for the coming biennium.

Effective April 1, 1921 the old Washington Geological Survey (including Geological, Topographical, and Hydrometric Branches) was abolished. It became the Division of Geology in the Department of Conservation and Development. The department director, D. A. Scott, assumed the duties of the Board of Geological Survey. Scott, on assuming office, appointed Prof. Solon Shedd of WSC as Supervisor of Geology and the headquarters of the Division of Geology were located at Pullman. O. P. Jenkins, WSC Prof. and Herschel H. Cooper and Charles A. Stewart, graduate students, were employed part time. Miss Bernice M. McDermid was secretary. Hydrometric Survey transferred to Division of Water Resources, leaving the work in geology and topography under the direction of the Supervisor of Geology. Another call for a state geologic map was made.

Financial statement--

appropriation	\$10,000.00
spent	6,485.56

This appropriation and expenditure were apparently only for geologic work; at least no mention is made of topographic work. The first mention of automobile expenses appears in this report.

This and all previous reports were printed as independent volumes.

***Report of Supervisor of Geology for 10-01-22 to 09-30-24

Shedd was head of the WSC Department of Geology as well as Supervisor of Geology. The call for a state geologic map is repeated. Financial statement shows an appropriation of \$10,000.00 and balance of \$2,806.89 as of 09-30-24. These do not seem to be all the resources that were available. Presumably the topographic mapping budget was not given.

This report was also issued as an independent volume.

***Biennial Report of the Supervisor of the Division of Geology for April 1, 1925 to September 30, 1926

This report was issued as p. 84-92 of the third Department of Conservation and Development biennial report.

Shedd retired early in summer, 1925. Harold E. Culver assumed duties. Still at WSC.

Culver lists these categories of work: 1.) Geologic studies, 2.) topographic mapping, 3.) laboratory and field studies, 4.) collection of mineral statistics. Topographic cooperative program ceased at beginning of biennium. The first Report of Investigations was issued during this biennium. No information on budget; Culver mentions "absence of specific records."

***Biennial Report of the Supervisor of the Division of Geology for April 1, 1927 to September 30, 1928

The biennial reports appear to cover only the first 18 months of the biennium. Culver mentions reorganization of the survey during this biennium.

U.S.G.S. cooperative topographic mapping resumed. About 51

per cent of the state had by now been topographically mapped.

Geologists still worked for the survey only during summer. Culver requests one year-round geologist.

This report was issued as p. 67-74 of the fourth biennial report of the Department of Conservation and Development.

***Biennial report of the Supervisor of the Division of Geology, Department of Conservation and Development, for April 1, 1933 to November 30, 1934

Culver mentions that there had been a reduced budget allotment until September 30, 1933. Then the Department of Conservation and Development got an \$80,000.00 grant from the Washington State Emergency Relief Commission for stream gauging, river surveys, topographic mapping, and geological and mineral investigations.

A large section of the report deals with the 1936 state geologic map. Copy attached.

Reported expenditures total \$86,900.00.

The lack of biennial reports from late 1928 to 1933 may be a result of the depression. Culver doesn't say. He does say that between 1925 and 1934 Division geologists collected reconnaissance geologic data for about 60 per cent of the state. Judging from the 1936 state geologic map, their reconnaissance data were very thin.

This report was issued as a separate volume.

***Eighth Biennial report of the Division of Geology for 10-01-34 to 09-30-36

Circular of Information No. 1 was put out in 1935. It summarized all topographic mapping work to date and plans for completion. The biennial appropriation for topographic mapping was \$25,000.00.

This report is printed. A typed and mimeographed biennial report dated June, 1936, seems to be an earlier version of the printed report.

Notes of 4-11-86:

***Ninth Biennial report of the Division of Geology for 10-01-36 to 09-30-38

Personnel listed as: Harold E. Culver, Supervisor; Sheldon L. Glover, Assistant Supervisor; W. A. G. Bennett, Assistant Supervisor; John W. Melrose, Geologist; and Dorothy Kremmel, Secretary. Mentions that nearly 1,000 samples were examined in the Division laboratory.

***Tenth Biennial report of the Division of Geology for 10-01-38 to 09-30-40

Culver gives some history (copy attached). Says the survey has been in continuous existence since 1900. Culver says funds were severely restricted beginning in 1925, and no money whatever was provided for publications between 1924 and 1935. In this period there were only administrative reports and one brief mimeographed Report of Investigations. From 1932 to 1935 the work of the Division was centered on the task of preparing a state geologic map.

***Eleventh Biennial report of the Division of Geology for 10-01-40 to 09-30-42

Culver says the work of the survey was entirely directed toward economic objectives because of WWII.

***Twelfth Biennial report of the Division of Geology for 10-01-42 to 09-30-44

Culver says an identification service, established in 1925, has been continued. Most work continued to be directed toward economic objectives because of WWII. A card file of mineral occurrences and mining properties had by now reached 13,000 entries.

***First Biennial report of the Division of Mines and Mining, in Eighth Biennial report of the Department of Conservation and Development. By Thomas B. Hill, Supervisor, for June 1, 1935 to December 31, 1936

Hill tells how the Division came into existence and identifies its objectives. Division had no appropriation and was funded out of the budget of the Department of Conservation and Development. Hill makes only one mention of the Division of Geology. I wonder if there was bad blood?

***Second Biennial report of the Division of Mines and Mining, by Thomas B. Hill, for 01-01-37 to 11-30-38

This report was printed both as pages 79-95 of the Ninth Biennial report of the Department of Conservation and Development and as a separate pamphlet with its own pagination.

***Third Biennial report of the Division of Mines and Mining, by Thomas B. Hill, for 01-01-39 to 01-01-41

Long list of mining properties. (Along with the card file, the beginnings of Bulletin 37 ?????)

***Fourth Biennial report of the Division of Mines and Mining, by Sheldon L. Glover, for 10-01-40 to 09-30-42

Thomas B Hill left on November 1, 1941 to take charge of other activities of the Department of Conservation and Development. He was succeeded by Sheldon L. Glover, formerly assistant supervisor of the Division of Geology and since September 18, 1941 had been associated with the Division of Mines and Mining.

Ward Carithers, formerly of the Howe Sound Mining Co. was hired as a geologist on February 13, 1942, replacing John W. Melrose, who resigned. Stephen H. Green, mining engineer, employed from May 25, 1942 to September 3, 1942 for work on a special magnesite investigation. Philip H. Holdsworth, mining engineer and geophysicist, engaged September 5, 1942 to investigate ore deposits, and Alton K. Guard, geologist and experienced miner, was employed as field assistant.

Examined 688 samples in the lab. for the public.

***Fifth Biennial report of the Division of Mines and Mining, by S. L. Glover, for 10-01-42 to 09-30-44

400 samples examined.

***Biennial report no. 1 of the Division of Mines and Geology for 10-01-44 to 09-30-46

The Division of Geology and the Division of Mines and Mining, both formerly under the Department of Conservation and Development, were combined on October 1, 1945. Office of the Division of Geology was moved to Olympia--the Division of Mines and Mining was already in Olympia. Supervisor was Sheldon L. Glover, who had already been supervisor of the Division of Mines and Mining.

***Biennial report no. 2 of the Division of Mines and Geology for 10-01-46 to 09-30-48

Staff: Sheldon L. Glover, supervisor; W. A. G. Bennett, Grant Valentine, and Marshall T. Huntting, geologists; C. Phillips Purdy, Jr., geologist and draftsman; Stephen H. Green, mining engineer; clerical staff, Dorothy Rinkenberger and Vera Fischer. Toward the end of biennium Mrs. Fischer resigned and was replaced by Gay Hemphill. Temporary additions for special projects were George Becraft and George Simmons, field assistants. Melvin Schroeder, geologist, was temporarily associated with the staff through a special cooperative arrangement with the WSC Department of Geology. 491 samples examined.

***Biennial report no. 3 of Division of Mines and Geology, by S. L. Glover, for 10-01-48 to 09-30-50

Staff: S. L. Glover, W. A. G. Bennett, Grant M. Valentine, Marshall T. Huntting, C. Phillips Purdy, Jr., Stephen H. Green, Robert H. Stebbins. Clerical; Dorothy Rinkenberger and Ruth Johnston, then Darlene Tilley, then Sandra Burdick. Temporary: George B. Rigg, working on a peat report, and C. S. Leuthy, F. A. Nave, and E. M. Woodruff, field assistants.

Glover says, "Activities, as usual, were confined almost exclusively to economic aspects of the state's mineral resources."

***Biennial report no. 4 of Division of Mines and Geology, by S. L. Glover, for 10-01-50 to 09-30-52

Staff: S. L. Glover, supervisor; W. A. G. Bennett, Marshall T. Huntting, and C. Phillips Purdy, Jr., geologists; Robert H. Stebbins, assistant geologist. Clerical staff: Dorothy Rinkenberger and Sandra Burdick, followed by Judith Juhl, then by Gloria Dermond. Temporaries: George B. Rigg, peat report; F. A. Nave, D. Walsh, and M. Morrison, field assistants. Stebbins left in April, 1951.

***Biennial report no. 5 of Division of Mines and Geology, by S. L. Glover, for 07-01-52 to 06-30-54

Staff: S. L. Glover, supervisor; W. A. G. Bennett, Marshall T. Huntting, and C. Phillips Purdy, Jr., geologists; clerical, Dorothy Rinkenberger, Gloria DeRossitt, and Marcellea Allen. Temporaries, 1953: Frank Howd, Thomas Davenport, and Quinton Aune; 1954, Gerald Thorsen and Quinton Aune.

This report includes a section called "One Hundred Years of Mining" by S. L. Glover.

***Biennial report no. 6 of Division of Mines and Geology, by S. L. Glover, for 07-01-54 to 06-30-56

Staff: S. L. Glover, supervisor; Marshall T. Huntting, assistant supervisor; W. A. G. Bennett, geologist. C. Phillips Purdy, Jr., who had been on the staff as a geologist since April 7, 1947, resigned on October 15, 1954. Howard E. Banta was employed as an assistant geologist on January 24, 1955, and resigned on February 24, 1956. He was replaced by Vaughn E. Livingston on June 11, 1956. Temporary employees included Gerald L. Gould and Nathan R. Segel, draftsmen. Clerical staff: Dorothy Rinkenberger, secretary, and Gloria DeRossitt, clerk-stenographer.

The uranium boom started in 1954. An interesting section of this report deals with its development.

***Biennial report no. 7 of Division of Mines and Geology, by M. T. Huntting, for 07-01-56 to 06-30-58

Staff: Marshall T. Huntting, supervisor; W. A. G. Bennett, geologist 4; Vaughn E. Livingston, geologist 2; Gerald W. Thorsen, geologist 1; Mark D. Haun, cartographer; Dorothy Rinkenberger, secretary-editor; Gloria DeRossitt, secretary.

Sheldon L. Glover retired in February, 1957 after 25 years in state service. Succeeded by Marshall, who had been assistant supervisor for the preceding 1.5 years and had been a geologist with the Division since May, 1942.

Wayne Moen was employed as a geologist on June 16, 1957 and resigned on October 31, 1957. Mrs. Mary Walker worked as a draftsman from September 17, 1956 to June 22, 1957. Mrs. Ulva M. Lehman worked as a clerk for 2 months in spring of 1957. Temporary field and office assistants were William Hartwell and Jack Ellingson.

The Division's appropriation included the charge to do archaeological surveys.

***Biennial report no. 8 of Division of Mines and Geology, by M. T. Huntting, for 07-01-58 to 06-30-60

Staff: Marshall T. Huntting, supervisor; W. A. G. Bennett, geologist 4; Vaughn E. Livingston and Wayne S. Moen, geologists 3; William H. Reichert and Gerald W. Thorsen, geologists 2; Mark D. Haun, cartographer; Dorothy Rinkenberger, secretary-editor; Gloria DeRossitt, secretary; Jean Preston, clerk-typist.

Bill Reichert started October 20, 1958. Wayne Moen started on July 1, 1959. J. W. Mills and W. R. Danner worked for three months each on limestones. Field assistants; Charles E. Stearns, Clayton D. Rau, Thomas H. Cole, R. D. Shumway, Alder M. Rivisto, and Charles F. McKillop. Mavis Stuhr worked as clerk-typist from 2-29-60 until 6-03-60.

Marshall has a good one-page history on page 4.

The entire remaining stock of the 1936 state geologic map was quickly exhausted when the uranium prospecting boom started. Marshall describes briefly a three-year project for the 1961 state geologic map.

***Biennial report no. 9 of Division of Mines and Geology, by M. T. Huntting, for 07-01-60 to 06-30-62

Staff: Marshall T. Huntting, supervisor; Weldon W. Rau, geologist 5; W. A. G. Bennett, geologist 4; Vaughn E. Livingston and Wayne Moen, geologists 3; William Reichert, geologist 2; Gerald W. Thorsen, geologist 1; Nancy Maschner, cartographer; Dorothy Rinckenberger, secretary-editor; Gloria DeRossitt, secretary; Sandra Anderson, clerk-typist.

Weldon was hired at the beginning of the biennium. Mills and Danner worked on limestone reports for three months each in 1960. Mills worked another three months in 1961 on geology and mineral deposits of an area in Stevens County. Field or lab. assistants were Frank Kistner, Herbert Bradshaw, Keith Ikerd, and John Braislin.

The library contained about 13,000 volumes.

***Biennial report no. 10 of Division of Mines and Geology, by M. T. Huntting, for 07-01-62 to 06-30-64

Staff remained the same as in previous biennium.

***Biennial report no. 11 of Division of Mines and Geology, by M. T. Huntting, for 07-01-64 to 06-30-66

No staff listed in this biennial report.