

Homestake Geology Department Papers, 1903-2005 5035

Finding aid prepared by Tia Stenson

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Describing Archives: A Content Standard

Homestake Adams Research and Cultural Center
Deadwood History, Inc.
150 Sherman Street
Deadwood, South Dakota, 57732
(605) 722-4800

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Summary Information

Repository	Homestake Adams Research and Cultural Center
Creator	Harder, James O.
Creator	Homestake Mining Company Geology Department
Creator	Homestake Mining Company
Creator	McLaughlin, Donald
Creator	Noble, James
Creator	Slaughter, Archie
Title	Homestake Geology Department Papers
Date	1903-2005
Extent	104.38 Linear feet 90 Boxes
Language	English
Abstract	The Homestake Geology Department Papers consist of documents, rock samples, and thin sections from 1903 to 2005. Materials include geologic, stope, diamond drilling maps and drawings; reports, correspondence, ledgers, and indexes that represent the functions and activities of the Geology Department.

Biographical/Historical Note

The Homestake Mining Claim was founded on April 9, 1876, by Fred and Moses Manuel and Hank Harney. They soon sold their interests to a group of men, led by George Hearst. Under Hearst's direction, the Homestake Mining Company was incorporated in November 1877 and grew into the major economic driving force of the Black Hills area.

The Geology Department was founded in 1920 when Homestake Mining Company feared closing due to insufficient ore reserves. Dr. Donald H. McLaughlin (president of the Homestake Mining Company from 1944 until 1961) was hired to study the Homestake ore bodies and to organize the Geology Department. In 1927, McLaughlin's report was finished and he recommended selective mining by following the ore vein to save time, money, and machinery. By 1932, his selective mining method increased the grade (value) of ore milled.

In 1931, James Noble became the second chief geologist. Noble furthered the expanded knowledge of the Homestake Formation and the application of very detailed structural geology in understanding ore controls and expanding reserves. Noble left Homestake in 1947 to teach at the California Institute of Technology and was a consulting geologist for the company until 1953.

James O. Harder was promoted to chief geologist in 1947. He received a B.S. in mine engineering with a geology focus from the South Dakota School of Mines and Technology, and a Masters from Harvard University. He started working for Homestake in 1932. He worked with the United States Geological Survey as a geologist in charge of the Trace Elements Unit for the Manhattan District project from 1944 to 1945. He then returned to Homestake. From 1957 until his retirement in 1972 he served as manager of Black Hills Operations and as Vice President for Homestake.

In 1957, Archie L. Slaughter became the fourth chief geologist and the manager of exploration (a division of the Geology Department). It was during this time the Exploration Division of the department began creating exploration projects in the Black Hills, the greater United States, and various countries around the world.

The main duties of the Geology Department were to study, sample, map, and explore the mines owned by Homestake to find ore-bearing formations so they could be mined effectively. The chief geologist was responsible for all phases of geologic work, focusing primarily on exploration. The assistant chief geologist was responsible for supporting the gold mine operation, ore reserves, and worked with geophysical and geochemical consultants (geologic and assay data). Other geologists day-to-day work included underground studies and mapping, programming and directing diamond drilling, and grade studies in the stoping. The Geology Department was operating until the Homestake Mining Company closed in 2001.

Scope and Contents Note

The Homestake Geology Department Papers consist of 54 boxes of papers, 34 boxes and 2 cabinets of rock specimens, and two boxes and two cabinets of thin sections from the Geology Department at the Homestake Mining Company from 1903 to 2005.

Series 1 James Noble Map Collection was started in 1926 by Dr. Donald H. McLaughlin and James Noble. These maps record the surface geology of the Black Hills down to the 8000 foot level of the mine. The maps cover locations such as the Amicus, B&M, Callendoina, Crown, Ellison, Hidden Fortune, Independence, Lone Stare, Millikan, Old Abe, Oro Hondo, Pierce, Ross, and Yates shafts. The geology maps mark in detail all available drifts and crosscuts. These maps were used to update larger maps found in the Homestake Mining Company Map Collection.

Series 2 Noble and Harder Research and Notes contains research, notes, reports, and data on the rock samples collected during the 1930s and 1940s.

Series 3 Files from the Chief Geologist Office contains various papers such as reports, correspondence, and notes that were filed in the Chief Geologists Office from 1903 to 2000. These documents represent all of the operations that occurred in the Geology Department.

Series 4: Exploration Division Papers contain geochemical data such as assay results, petrography reports, photographs, negatives, slides, reports, and other documents related to the projects done by the Exploration Division to find more ore to mine from 1945 to 1999.

Series 5: Diamond Drilling Documentation contains reports, priorities, schedules, drawings, indexes, logs, and other documents related to Diamond Drilling from 1918 to 2001.

Series 6 Back Sample Stope Sections contain stope section drawings, with sample locations marked which were then provided to the Mine Department for use, guidance, and to prepare other maps in the Mine Department from the 1940s to 1992.

Series 7 Estimated Inventory Ledgers contain changes to Stope Master File Forms, Ore Block Estimate Forms, copies of maps where the samples are from, and calculation notes used to calculate the ore reserves of the Homestake Mining Company from 1974 to 1995.

Series 8 Geology Samples contain specimen indexes, identification cards, and rock samples for the Northern Black Hills Collection, the Southern Black Hills Collection, Rochford Specimen Collection, the Homestake Specimen Collection (New Series), the first Homestake Specimen Collection (Old) collected by Donald McLaughlin and two others is noted to be at Harvard University, and other various rock samples. Some of the samples from the listed collections can be found in the 5029 Tom and Melissa Campbell Collection.

Series 9 Thin Sections contain thin and polished sections that are related to the rock samples from series 8. There is a printout of the Thin Section Library in the Research Library file cabinet drawer 1 with two floppy disks.

Arrangement Note

This collection has been arranged into nine series. Documents originally housed in binders have been rehoused for preservation purposes but retain their original labels. Whenever possible original order was maintained. Oversize items have been housed separately in boxes 5-7 and are described by separation notes.

Some items do not follow the arrangement list below, due to the sizes of the documents. For example, something might skip from Box 8 and Box 14 because Box 8 holds letter-size documents and Box 14 holds legal-size documents.

Series 1 James Noble Map Collection begins with surface-level maps followed by underground geology maps that are arranged by level then by ledge, such as Main Ledge and Ledges 5 through 21.

Series 2 Noble and Harder Research and Notes are arranged by binder. If the binder was numbered they are in numeral order, unnumbered binders are at the end.

Series 3 Files from the Chief Geologist Office are arranged chronologically.

Series 4: Exploration Division Papers are arranged into sub-series for ease of description.

Subseries A: Exploration Division Data are arranged alphabetically as no original order could be identified. These materials were found in the unidentified series of boxes, yet to be processed.

Subseries B: Exploration Division Reports are arranged chronologically as no original order could be identified. These materials were found in the unidentified series of boxes, yet to be processed.

Series 5: Diamond Drilling Documentation is arranged by having the general diamond drilling documents at the beginning and arranged alphabetically. The diamond drill hole drawings and indexes were housed in binders and were arranged by level. The diamond drilling field notebooks are arranged chronologically. The diamond drill logs were housed in binders and were arranged by their diamond drill number. Other diamond drill logs from samples taken by the Exploration Division are found at the end and arranged in alphabetical order.

Series 6 Back Sample Stope Sections are arranged by year and then by level.

Series 7 Estimated Inventory Ledgers are arranged by the first section of folders with general documents about Ore Reserves and are arranged chronologically. The ore estimate files were originally housed in large binders by division and level. Inside the binders, it was arranged by level, then by ledge.

Series 8 Geology Samples are arranged by collection and sample number when possible.

Series 9 Thin sections are arranged by sample box number when possible.

Administrative Information

Publication Information

Homestake Adams Research and Cultural Center

Conditions Governing Access

This collection is housed at the Homestake Adams Research and Cultural Center with no restrictions to access. The collection may be utilized during normal operating hours or by appointment.

Immediate Source of Acquisition

These materials were transferred as a portion of one donation, accession number 2005.001, from Homestake Mining Company on May 26, 2005.

Processing Information

This collection was processed August 2021-December 2021 by Tia Stenson. Assistance provided by Stacy Deaver, Claudia Howell, Jim Petersen, Randi Sue Smith, and Mark Zwaschka.

Related Materials

Related Materials

Additional archival materials related to the Homestake Geology Department can be found in the Homestake Mining Company Collection including the following: Homestake Map Collection, 5001 Homestake Mine Engineer Files, 5019 Homestake Survey Records, 5025 Periodicals and Published Works, 5027 United States Geologic Survey Publications, 5029 Tom and Melissa Campbell Collection, 5030 Assays and Ore Reserve Records, and 5032 Homestake Reports and Courses Collection.

James Noble Map Collection

Collection Inventory

Series 1: James Noble Map Collection		
	Box	Folder
Surface Mapping, 1932 - Field Sheet (Lead to Wasp. No. 2), 1932	1	1
Surface Mapping, 1933 - Field Sheets (Lead to Central City), 1933	1	2
Surface Checking, 1934-1935	1	3
Miscellaneous -- C. N. K. Sheets, 1929-1936	1	4
Surface Mapping, 1934 - Field Sheets -- Open Cut, City Creek, and Yellow Creek, 1934	1	5
Stope Work Sheets - C. N. K., 1935-1939	1	6
Surface Mapping - 1935 - Poorman Gulch, 1935	1	7
Surface Mapping - Not Finished, 1939	1	8
Dike Zone Remapping - 1850 Level, 1934	1	9
Dike Zone Remapping - 2000 Level, 1934-1935	1	10

James Noble Map Collection

Dike Zone Remapping - 2150 Level, 1933-1934	1	11
Dike Zone Remapping - 2300 Level, 1933-1934	1	12
To be Traced (In-Active) No Maps	1	13
"Laccoliths", 1940	1	14
Cambrian Workings - East and West of Open Cut, 1934-1936	1	15
Washington Tunnel Level Geological Map	1	16
Specimen Maps	1	17
Caledonia Maps, 1934	1	18
Blacktail Gulch Maps, 1939	1	19
Geologic Mapping - Unknown, 1998-1999	1	20
Yates Geologic Maps - 800 Level, 1939	1	21
Yates Geologic Maps - 1700 Level, 1945	1	22
Yates Geologic Maps - 2300 Level, 1945	1	23
Yates Geologic Maps - 2900 Level, 1945	1	24

James Noble Map Collection

Yates Geologic Maps - 3200 Level, 1940-1945	1	25
Yates Geologic Maps - 3350 Level, 1940	1	26
Yates Geologic Maps - 3650 Level, 1940-1945	1	27
Yates Geologic Maps - 3800 Level, 1941-1945	1	28
Yates Geologic Maps - 4100 Level, 1945-1965	1	29
Yates Geologic Maps - 4850 Level, 1953-1958	1	30
Yates Geologic Maps - 5000 Level, 1942-1946	1	31
Main Ledge - 300 Level, 1929-1940	1	32
Main Ledge - 400 Level, 1928-1932	1	33
Main Ledge - 500 Level, 1936-1939	1	34
Main Ledge - 600 Level, 1927-1934	1	35
Main Ledge - 700 Level, 1927-1930	1	36
Main Ledge - 800 Level, 1929-1953	1	37
Main Ledge - 900 Level, 1929-1932	1	38

James Noble Map Collection

Main Ledge - 1000 Level, 1930-1939	1	39
Main Ledge - 1100 Level, 1929-1992	1	40
Main Ledge - 1250 Level, 1928-1950	1	41
5 Ledge - 1400 Level	1	42
Main Ledge - 1400 Level, 1928-1955	1	43
7 and 9 Ledge - Geologic Mapping - Ramps/Stopes - 1400 Level, 1989-2001	1	44
Main Ledge - 1550 Level, 1927-1949	1	45
9 Ledge - 1550 Level, 1935-1989	1	46
7 and 9 Ledge - Geologic Mapping - Ramps/Stopes - 1550 Level, 1991-1997	1	47
Main Ledge - 1700 Level, 1932-1953	1	48
9 Ledge - 1700 Level, 1935-1974	1	49
11 Ledge - 1700 Level, 1934-1940	1	50
7 and 9 Ledge - Geologic Mapping - Ramps/Stopes - 1700 Level, 1991-1994	1	51

James Noble Map Collection

Main Ledge - 1850 Level, 1931-1951	1	52
5 Ledge - 1850 Level, 1933-1967	1	53
7 and 9 Ledge - Geologic Mapping - Ramps/Stopes - 1850 Level, 1990-2001	1	54
Main Ledge - 2000 Level, 1927-1949	1	55
5 Ledge - 2000 Level, 1962-1963	1	56
7 Ledge - 2000 Level, 1962-1991	1	57
9 Ledge - 2000 Level, 1946-1984	1	58
7, 9, 11 Ledge - Geological Mapping - Ramps/Stopes - 2000 Level, 1995-1999	1	59
Main Ledge - 2150 Level, 1927-1961	1	60
7 Ledge - 2150 Level, 1955-1963	1	61
9 Ledge - 2150 Level, 1957-1981	1	62
7 and 9 Ledge, Geologic Mapping - Ramps/Stopes - 2150 Level, 1992-2000	1	63
Main Ledge - Crosscuts - 2300 Level, 1928-1948	1	64

James Noble Map Collection

Main Ledge - Ross Shaft - 2300 Level, 1934-1935	1	65
Main Ledge - Oro Hondo Header - 2300 Level, 1933	1	66
5 Ledge - 2300 Level, 1933-1934	1	67
7 Ledge - 2300 Level, 1941-1970	1	68
9 Ledge North - 2300 Level, 1946-1990	1	69
7 and 9 Ledge - Geologic Mapping - Ramps/Stopes - 2300 Level, 1992-2000	1	70
Main Ledge - 2450 Level, 1930-1949	1	71
5 Ledge - 2450 Level, 1933-1950	1	72
7 Ledge - 2450 Level, 1940-1965	1	73
9 Ledge - 2450 Level, 1934-1963	1	74
7 and 9 Ledge - Geologic Mapping - Ramps/Stopes - 2450 Level, 1962	1	75
Main Ledge - Crosscuts 18-31 - 2600 Level, 1933-1949	2	1
Main Ledge - Crosscuts 32-37 - 2600 Level, 1934-1956	2	2

James Noble Map Collection

Main Ledge - Drifts and Diagonals - 2600 Level, 1937	2	3
5 Ledge - 2600 Level, 1933-1937	2	4
7 Ledge - 2600 Level, 1939-1963	2	5
9 Ledge - 2600 Level, 1935	2	6
9 Ledge - Ross Shaft - 2600 Level, 1934-1935	2	7
9 Ledge - Crosscuts 10-33 - 2600 Level, 1939-1961	2	8
9 Ledge - Crosscuts 34-40 - 2600 Level, 1949-1963	2	9
9 Ledge - Drifts and Diagonals - 2600 Level, 1938-1959	2	10
11 Ledge - 2600 Level, 1936-1960	2	11
Yates Drift - 2600 Level, 1936-1953	2	12
Main Ledge - Crosscuts 15-35 - 2750 Level, 1934-1950	2	13
Main Ledge - Crosscuts 36-38 - 2750 Level, 1935-1953	2	14
Main Ledge - Footwall Drift - 2750 Level, 1935	2	15
Main Ledge - North Header - 2750 Level, 1932-1933	2	16

James Noble Map Collection

Main Ledge - Yates Shaft - 2750 Level, 1938-1945	2	17
5 Ledge - 2750 Level, 1933-1952	2	18
7 Ledge - 2750 Level, 1940-1965	2	19
9 Ledge - 2750 Level, 1960	2	20
9 Ledge - Ross Shaft - 2750 Level, 1933-1935	2	21
9 Ledge - Crosscuts 1-27 - 2750 Level, 1948-1958	2	22
9 Ledge - Crosscuts 28-36 - 2750 Level, 1940-1959	2	23
9 Ledge - Drifts and Diagonals - 2750 Level, 1942-1960	2	24
Main Ledge - 2900 Level, 1933-1955	2	25
5 Ledge - 2900 Level, 1934-1961	2	26
9 Ledge North - 2900 Level, 1948-1965	2	27
9 Ledge North - Ross Shaft - 2900 Level, 1933-1939	2	28
9 Ledge North - Crosscuts 1-23 - 2900 Level, 1941-1965	2	29
9 Ledge North - Crosscuts 24-33 - 2900 Level, 1939-1960	2	30

James Noble Map Collection

9 Ledge North - Drifts and Diagonals - 2900 Level, 1937-1950	2	31
Main Ledge - 3050 Level, 1932-1960	2	32
5 Ledge - 3050 Level, 1935-1960	2	33
9 Ledge South - 3050 Level	2	34
9 Ledge North - Ross Shaft - 3050 Level, 1934-1935	2	35
9 Ledge North - Crosscuts 1-15 - 3050 Level, 1938-1960	2	36
9 Ledge North - Crosscuts 16-31 - 3050 Level, 1939-1960	2	37
9 Ledge North - Drifts and Diagonals - 3050 Level, 1939-1964	2	38
Main Ledge - 3200 Level, 1932-1960	2	39
9 Ledge - 3200 Level, 1941-1959	2	40
9 Ledge - Crosscuts 1-12 - 2600 Level, 1948-1969	2	41
9 Ledge - Crosscuts 13-26 - 3200 Level, 1937-1961	2	42
9 Ledge - Ross Shaft - 3200 Level, 1934-1989	2	43
9 Ledge - Drifts and Diagonals - 3200 Level, 1937-1965	2	44

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9 Ledge - Geologic Mapping - Ramps/Stopes - 3200 Level, 2001	2	45
Main Ledge - 3350 Level, 1939-1960	2	46
9 Ledge South - 3350 Level, 1938-1970	2	47
9 Ledge North - 3350 Level, 1938-1963	2	48
9 and 11 Ledge - Geologic Mapping - Ramps/Stopes - 3350 Level, 1995-2001	2	49
Main Ledge - 3500 Level, 1934-1961	2	50
9 Ledge South - 3500 Level, 1935-1975	2	51
9 Ledge North - 3500 Level, 1937-1965	2	52
9 and 11 Ledge - Geologic Mapping - Ramps/Stopes - 3500 Level, 1995-2001	2	53
Main Ledge - 3650 Level, 1940-1963	2	54
9 Ledge South - 3650 Level, 1950-1975	2	55
9 Ledge North - 3650 Level, 1939-1990	2	56
9 and 11 Ledge - Geologic Mapping - Ramps/Stopes - 3650 Level, 1995-2001	2	57

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West Ledge - 3650 Level, 1960-1965	2	58
Ross Pillar - Misc. Data, 1989-1991	2	59
Main Ledge - 3800 Level, 1935-1965	2	60
9 Ledge - 3800 Level, 1937-1990	2	61
11 Ledge - 3800 Level, 1976-1998	2	62
9 and 11 Ledge - Geologic Mapping - Ramps/Stopes - 3800 Level, 1995-2001	2	63
Main Ledge - 3950 Level, 1947-1969	2	64
Main Ledge - Geologic Mapping - Ramps/Stopes - 3950 Level, 1993-1996	2	65
9 Ledge - 3950 Level, 1941-1968	2	66
11 Ledge - 3950 Level, 1962-1991	2	67
9 and 11 Ledge - Geologic Mapping - Ramps/Stopes - 3950, 1993-2000	2	68
Main Ledge - 4100 Level, 1937-1965	3	1
9 Ledge - 4100 Level, 1946-1976	3	2

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11 Ledge - 4100 Level, 1965-1998	3	3
West Ledge - 4100 Level, 1954-1969	3	4
Main Ledge - Geologic Mapping - Ramps/Stopes - 4100 Level, 1995	3	5
9 and 11 Ledge - Geologic Mapping - Ramps/Stopes - 4100 Level	3	6
17 Ledge - Geologic Mapping - Stamps/Stopes - 4100 Level	3	7
Main Ledge - 4250 Level, 1950-1969	3	8
9 Ledge - 4250 Level, 1960-1971	3	9
11 Ledge - 4250 Level, 1962-1980	3	10
17 Ledge - North Drift - 4250 Level, 1989	3	11
9 and 11 Ledge - Geologic Mapping - Ramps/Stopes - 4250 Level, 1993-1998	3	12
17 Ledge - Geologic Mappings - Ramps/Stopes - 4250 Level	3	13
Main Ledge - 4400 Level, 1939-1969	3	14
9 Ledge - 4400 Level, 1950-1970	3	15

James Noble Map Collection

11 Ledge - 4400 Level, 1963-1970	3	16
11, 13, 15, and 17 Ledge - Geologic Mapping - Ramps/Stopes - 4400 Level, 1989	3	17
Main Ledge - 4550 Level, 1941-1970	3	18
9 Ledge - 4550 Level, 1960-1970	3	19
11 Ledge - 4550 Level, 1967-1971	3	20
13 Ledge - 4550 Level, 1989	3	21
17 Ledge - 4550 Level, 1982-1991	3	22
Main, 9, and 11 Ledge - Geologic Mapping - Ramps/Stopes - 4550 Level, 1945-1970	3	23
Main Ledge - 4700 Level, 1945-1970	3	24
9 Ledge - 4700 Level, 1952-1970	3	25
11 Ledge - 4700 Level, 1968-1982	3	26
Maps - 4700 Level, 1989	3	27
Main, 9, and 11 Ledge - Geologic Mapping - Ramps/Stopes - 4700 Level, 1974-1985	3	28

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Main Ledge - 4850 Level, 1953-1962	3	29
9 Ledge - 4850 Level, 1955-1980	3	30
11 Ledge - 4850 Level, 1982	3	31
West Ledge - 4850 Level, 1961-1992	3	32
11 Ledge - Geologic Mapping - Ramps/Stopes - 4850 Level	3	33
Various Ledges - 4850 Level, 1995-1998	3	34
Main Ledge - 5000 Level, 1948-1966	3	35
9 Ledge - 5000 Level, 1959-1969	3	36
11 and 12 Ledges - 5000 Level, 1982	3	37
17, 19, and 21 Ledge - 5000 Level, 1990	3	38
17 Ledge - Geologic Mapping - Ramps/Stopes - 5000 Level, 1989	3	39
Main Ledge - 5150 Level, 1956-1969	3	40
9 and 11 Ledge - 5150 Level, 1964-1969	3	41
17, 19, and 21 Ledge - 5150 Level, 1966-1973	3	42

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17 Ledge - Geologic Mapping - Ramps/Stopes - 5150 Level, 1993-1996	3	43
Main Ledge - 5300 Level, 1960-1971	3	44
9 Ledge - 5300 Level, 1960-1981	3	45
17, 19, and 21 Ledge - 5300 Level, 1964-1982	3	46
17, 19, and 21 Ledge - Geologic Mapping - Ramps/Stopes - 5300 Level, 1966-1977	3	47
Main and 9 Ledge - R.B.L. - 5450 Level, 1961-1962	3	48
Main, 9, and 11 Ledge - 5450 Level	3	49
17, 19, and 21 Ledge - 5450 Level, 1989-1990	3	50
17, 19, and 21 Ledge - Geologic Mapping - Ramps/Stopes - 5450 Level, 1989-1997	3	51
Main Ledge - 5600 Level, 1958-1971	3	52
9 Ledge - 5600 Level, 1958-1969	3	53
17, 19, and 21 Ledge - 5600 Level, 1982-1989	3	54
West Ledges - 5600 Sill	3	55

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17, 19, and 21 Ledge - Geologic Mapping - Ramps/Stopes - 5600 Level, 1988-1995	3	56
Main Ledge - 5750 Level, 1962-1966	3	57
Main Ledge - J.T.W. - 5750 Level, 1964	3	58
9 Ledge - 5750 Level, 1962-1966	3	59
13 Ledge - 5750 Level, 1969	3	60
19 Ledge - 5750 Level, 1971-1982	3	61
17, 19, and 21 Ledge - Geologic Mapping - Ramps/Stopes - 5750 Level, 1989	3	62
Main Ledge - 5900 Level, 1960-1995	3	63
9, 11, 13, and 15 Ledge - 5900 Level, 1960-1998	3	64
19 Ledge - 5900 Level, 1963-1995	3	65
21 Ledge - W.S.H. - 5900 Level, 1979	3	66
17, 19, and 21 Ledge - Geologic Mapping - Ramps/Stopes - 5900 Level, 1995	3	67
Main Ledge - 6050 Level, 1965	3	68

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9 Ledge - 6050 Level, 1974	3	69
13 Ledge - 6050 Level	3	70
19 and 21 Ledge - 6050 Level, 1979-1989	3	71
21 Ledge - 50-53SB - C.A.H. - 6050 Level	3	72
15 Ledge - Geologic Mapping - Ramps/Stopes - 6050 Level, 1998-1999	3	73
17, 19, and 21 Ledge - Geologic Mapping - Ramps/Stopes - 6050 Level, 1987-1994	3	74
Main Ledge - 6200 Level, 1961	3	75
9 Ledge - 6200 Level, 1960-1989	3	76
11 and 13 Ledge - 6200 Level, 1969	3	77
15 Ledge - 6200 Level, 1991-1998	3	78
19 and 21 Ledge - 6200 Level, 1982-1990	3	79
17, 19, and 21 Ledge - Geologic Mapping - Ramps/Stopes - 6200 Level, 1988-1995	3	80
Main Ledge - 6350 Level, 1971-1995	3	81

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13 Ledge - 6350 Level, 1989-1995	3	82
17, 19, and 21 Ledge - 6350 Level, 1982-1995	3	83
Main Ledge - Geologic Mapping - Ramps/Stopes - 6350 Level, 1994-1997	3	84
9 and 11 Ledge - Geologic Mapping - Ramps/Stopes - 6350 Level, 1995-1997	3	85
13 and 15 Ledge - Geologic Mapping - Ramps/Stopes - 6350 Level, 1993-1996	3	86
17, 19, and 21 Ledge - Geologic Mapping - Ramps/Stopes - 6350 Level, 1987-1998	3	87
Main Ledge - 6500 Level, 1966-1989	3	88
9 Ledge - 6500 Level, 1969-1989	3	89
11 Ledge - 6500 Level, 1982-1989	3	90
13 and 15 Ledge - 6500 Level, 1989-1993	3	91
19 Ledge - 6500 Level, 1982-1989	3	92
Main Ledge - Geologic Mapping - Ramps/Stopes - 6500 Level, 1994-1996	3	93

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17, 19, and 21 Ledge - Geologic Mapping - Ramps/Stopes - 6500 Level, 1993-1998	3	94
17, 19, and 21 Ledge - 6650 Level, 1988-1994	3	95
Main Ledge - Geologic Mapping - Ramps/Stopes - 6650 Level, 1993-1996	3	96
15 Ledge - Geologic Mapping - Ramps/Stopes - 6650 Level, 1997-1998	3	97
17, 19, and 21 Ledge - Geologic Mapping - Ramps/Stopes - 6650 Level, 1986-1999	3	98
Main Ledge - 6800 Level, 1965-1991	4	1
9 Ledge - 6800 Level, 1966-1992	4	2
13 and 15 Ledge - 6800 Level, 1992	4	3
19 Ledge - 6800 Level, 1969-1989	4	4
Main Ledge - Geologic Mapping - Ramps/Stopes - 6800 Level	4	5
17, 19, and 21 Ledge - Geologic Mapping - Ramps/Stopes - 6800 Level, 1996-2000	3	6
15, 17, 19, and 21 Ledge - 6950 Level, 1983-1995	4	7

James Noble Map Collection

17, 19, and 21 Ledge - Geologic Mapping - Ramps/Stopes - 6950 Level, 1993-2001	4	8
17, 19, and 21 Ledge - 7100 Level, 1981-1991	4	9
15 Ledge - Geologic Mapping - Ramps/Stopes - 7100 Level, 1994-2000	4	10
17, 19, and 21 Ledge - Geologic Mapping - Ramps/Stopes - 7100 Level, 1993-2000	4	11
17, 19, and 21 Ledge - 7250 Level, 1986-1989	4	12
15 Ledge - Geologic Mapping - Ramps/Stopes - 7250 Level, 1996-1997	4	13
17, 19, and 21 Ledge - Geologic Mapping - Ramps/Stopes - 7250 Level, 1989-2000	4	14
6 Winze and 19 Ledge South - 17, 19, and 21 Ledge - 7400 Level, 1987-1995	4	15
15 Ledge to 4 Winze in Vulcan - 17, 19, and 21 Ledge - 7400 Level, 1989-1990	4	16
9 Ledge - 17, 19, and 21 Ledge - 7400 Level, 1989-1992	4	17
4 Winze - 17, 19, and 21 Ledge - 7400 Level, 1989-1990	4	18

James Noble Map Collection

Main Ledge - Geologic Mapping - Ramps/Stopes - 7400 Level, 1998-2000	4	19
15 Ledge - 4 Winze - Geologic Mapping - Ramps/Stopes - 7400 Level, 1991-1997	4	20
15 Ledge - Geologic Mapping - Ramps/Stopes - 7400 Level, 1994-2000	4	21
17, 19, and 21 - Geologic Mapping - Ramps/Stopes - 7400 Level, 1993-2001	4	22
15 Ledge - 7550 Level, 1996-1999	4	23
17, 19, and 21 Ledge - 7550 Level, 1988-1990	4	24
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Division III -- 5450 Level -- 19 Ledge -- Ore Estimates, 1983-1989	51	46
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Division III -- 5600 Level -- 19 Ledge -- Ore Estimates, 1982-1991	51	48
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Division IV -- 6500 Level -- 11 Ledge -- Ore Estimates, 1981-1990	52	2
Division IV -- 6500 Level -- 13 Ledge -- Ore Estimates, 1981-1991	52	3
Division IV -- 6500 Level -- 15 Ledge -- Ore Estimates, 1990	52	4
Division IV -- 6650 Level -- Main Ledge -- Ore Estimates, 1981-1990	52	5
Division IV -- 6650 Level -- 9 Ledge -- Ore Estimates, 1981-1990	52	6

Estimates Inventory Ledgers

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Division IV -- 6800 Level -- 9 Ledge -- Ore Estimates, 1981-1990	52	10
Division IV -- 6800 Level -- 11 Ledge -- Ore Estimates, 1978-1990	52	11
Division IV -- 6800 Level -- 15 Ledge -- Ore Estimates, 1990	52	12
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Division V -- 7400 Level -- 19 Ledge -- Ore Estimates, 1989-1990	52	24
Division V -- 7400 Level -- 21 Ledge -- Ore Estimates, 1982-1990	52	25
Division V -- 7500 Level -- 17 Ledge -- Ore Estimates, 1985-1990	52	26
Division V -- 7500 Level -- 19 Ledge -- Ore Estimates, 1989	52	27
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Scope and Contents Note

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Scope and Contents Note

Rock samples from Bear Butte, Strawberry Creek, Bird Mine, Squaw Creek, and Cutting Stock.

Northern Black Hills Rock Samples (NBH 255 to NBH 273)

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Scope and Contents Note

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Scope and Contents Note

Geology Samples

Rock samples from Squaw Creek, Wasp No. Mine, Grizzly Gulch, Englewood Pump Station, Columbia Ditch, and Echo Mine.

Northern Black Hills Rock Samples (NBH 291 to NBH 322)

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Scope and Contents Note

Rock samples from Columbia Ditch, Two John's Mine, Clinton Audit, Whitewood Peak, Whitetail Creek, Bald Mountain, Maitland Mine, Spanish Dump, and Iron Hill.

Northern Black Hills Rock Samples (NBH 327 to NBH 374)

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Scope and Contents Note

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Northern Black Hills Rock Samples (NBH 375 to NBH 397)

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Northern Black Hills Rock Samples (NBH 398 to NBH 414)

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Scope and Contents Note

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Geology Samples

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Scope and Contents Note

Contains Rock Samples:

Homestake Formation - R.143-R.149

Ellison Formation - R.152-R.156, R.158-R.159

Flag Rock Formation - R.171-R.175

Homestake Specimen Collection (New Series) Rock Samples -- Tertiary
- .5512

Rochford Specimen Collection Rock Samples -- Homestake Formation (R.14) and Amphibolite (R.21)	Research Library Cabinet	4-6
--	--------------------------------	-----

Scope and Contents Note

Contains Rock Samples:

Homestake Formation - R.14.10 to R.1416, R.1418 to R.1424

Amphibolites - R.211 to R.212, R.214 to R.2117; R.2121 to R.2122,
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Rochford Specimen Collection Rock Samples -- Ellison Formation (R..15) and Amphibolite (R.21)	Research Library Cabinet	4-7
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Geology Samples

Scope and Contents Note

Contains Rock Samples:

Ellison Formation - R.1510

Amphibolites - R.2110 to R.2117, R.2121 to R.2122, R. 2127 to R. 2128

Box

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Rochford Specimen Collection Rock Samples

Scope and Contents Note

Contains Rock Samples:

Homestake Formation - R.142

Ellison Fomration - R.157

Amphibolites - R.2118 to R.2120, R.2123 to R.2126, R.2128 to R.2138, R.2140 to R.2144

Map-case

Drawer

Homestake Specimen Collection (New Series) Rock Samples -- Poorman Formation (.12)

Research
Library
Cabinet

1-1

Scope and Contents Note

Contains Rock Samples: .121 to .1221

Homestake Specimen Collection (New Series) Rock Samples -- Poorman Formation (.12)

Research
Library
Cabinet

1-2

Scope and Contents Note

Geology Samples

Contains Rock Samples: .1222 to .1240

Homestake Specimen Collection (New Series) Rock Samples -- Poorman Formation (.12)

Research
Library
Cabinet

1-3

Scope and Contents Note

Contains Rock Samples: .1241 to .1258

Box

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Homestake Specimen Collection (New Series) Rock Samples -- Poorman Formation (.12), Homestake Formation (.14); Ellison Formation (.15), Northwestern Formation (.16), and Flag Rock Formation (.17)

Scope and Contents Note

Contains Rock Samples:

Poorman Formation - .1251 to .1252, .1255, .1258 to .1260

Homestake Formation - .1479 to .1484

Ellison Formation - .1573 to .1587

Northwestern Formation - .1637

Flag Rock Formation - .1763

Map-case

Drawer

Homestake Specimen Collection (New Series) Rock Samples -- De Smet Formation (.13) and Homestake Formation (.14)

Research
Library
Cabinet

1-4

Scope and Contents Note

Contains Rock Samples:

Geology Samples

De Smet Formation - .131 to .1312, .1316 to .1324

Homestake Formation - .141 to .145

Homestake Specimen Collection (New Series) Rock Samples -- De Smet
Formation (.13) and Homestake Formation (.14)

Research 1-5
Library
Cabinet

Scope and Contents Note

Contains Rock Samples:

De Smet Formation - .1325 to .1328

Homestake Formation - .146 to .1426

Homestake Specimen Collection (New Series) Rock Samples --
Homestake Formation (.14)

Research 1-6
Library
Cabinet

Scope and Contents Note

Contains Rock Samples: .1427 to .1447, .1449

Homestake Specimen Collection (New Series) Rock Samples --
Homestake Formation (.14)

Research 1-7
Library
Cabinet

Scope and Contents Note

Contains Rock Samples: .1450 to .1451, .1453, .1455 to .1470

Homestake Specimen Collection (New Series) Rock Samples --
Homestake Formation (.14) and Ellison Formation (.15)

Research 1-8
Library
Cabinet

Scope and Contents Note

Geology Samples

Contains Rock Samples:

Homestake Formation - .1471-.1472, .1475 to .1478

Ellision Formation - .151 to .1516

Homestake Specimen Collection (New Series) Rock Samples -- Ellison
Formation (.15)Research 1-9
Library
Cabinet**Scope and Contents Note**

Contains Rock Samples: .1523 to .1541

Homestake Specimen Collection (New Series) Rock Samples -- Ellison
Formation (.15)Research 1-10
Library
Cabinet**Scope and Contents Note**

Contains Rock Samples: .1542 to .1565

Homestake Specimen Collection (New Series) Rock Samples -- Ellison
Formation (.15) and Northwestern Formation (.16)Research 1-11
Library
Cabinet**Scope and Contents Note**

Contains Rock Samples:

Ellision Formation - .1566 to .1572

Northwestern Formation - .161 to .1617

Homestake Specimen Collection (New Series) Rock Samples --
Northwestern Formation (.16)Research 2-1
Library
Cabinet

Geology Samples

Scope and Contents Note

Contains Rock Samples: .1618 to .1640

Homestake Specimen Collection (New Series) Rock Samples -- Flag Rock Formation (.17)

Research 2-2
Library
Cabinet

Scope and Contents Note

Contains Rock Samples: .171 to .1724

Homestake Specimen Collection (New Series) Rock Samples -- Flag Rock Formation (.17)

Research 2-3
Library
Cabinet

Scope and Contents Note

Contains Rock Samples: .1725 to .1744

Homestake Specimen Collection (New Series) Rock Samples -- Flag Rock Formation (.17) and Grizzly Formation (.18)

Research 2-4
Library
Cabinet

Scope and Contents Note

Contains Rock Samples:

Flag Rock Formation - .1745 to .1764

Grizzly Formation - .181 to .187

Homestake Specimen Collection (New Series) Rock Samples -- Amphibolites (.21)

Research 4-3
Library
Cabinet

Scope and Contents Note

Geology Samples

Contains Rock Samples: .211 to .214, .2194, .21100 to .21101, .21136 to .21137, .21141 to .21145, .21157 to .21159, .21161, .21163 to .21166

Homestake Specimen Collection (New Series) Rock Samples --
Amphibolites (.21) and Rhyolites (.41)

Research 4-4
Library
Cabinet

Scope and Contents Note

Contains Rock Samples:

Amphibolites - .216 to .219, .2112 to .2115, .2117 to .2123

Rhyolites - .4111, .4116, .4118, .4120

Homestake Specimen Collection (New Series) Rock Samples --
Amphibolites (.21) and Pre-Cambrian (.51)

Research 4-1
Library
Cabinet

Scope and Contents Note

Contains Rock Samples:

Amphibolites - .2143 to .2144, .21347 to .21350

Pre-Cambrian - .5155 to .5156, .51266, .51268 to .51277, .51279 to .51280, .51282, .51284 to .51285

Homestake Specimen Collection (New Series) Rock Samples --
Amphibolites (.21)

Research 4-2
Library
Cabinet

Scope and Contents Note

Contains Rock Samples: .2145 to .2146, .2148 to .2150, .2152, .2154 to .2160, .2163, .2165, .2173, .21127 to .21129, .21131, .21134 to .21135, .21138

Geology Samples

Homestake Specimen Collection (New Series) Rock Samples -- Amphibolites (.21)	Research Library Cabinet	4-7
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Scope and Contents Note

Contains Rock Samples: .21258, .21264, .21284, .21298

Box

Homestake Specimen Collection (New Series) Rock Samples -- Amphibolites (.21)

68

Scope and Contents Note

Contains Rock Samples: .2124 to .2134, .2136
to .2142, .2144, .2157, .2161-.2162, .2164, .2166 to .2167

Homestake Specimen Collection (New Series) Rock Samples -- Amphibolites (.21)

69

Scope and Contents Note

Contains Rock Samples: .2170 to .2172, .2174 to .2183

Homestake Specimen Collection (New Series) Rock Samples -- Amphibolites (.21)

70

Scope and Contents Note

Contains Rock Samples: .2185 to .2193, .2195 to .2199, .212101 to .21110

Homestake Specimen Collection (New Series) Rock Samples -- Amphibolites (.21)

71

Scope and Contents Note

Geology Samples

Contains Rock Samples: .21111 to .21127, .21130, .21133 to .21134, .21136

Homestake Specimen Collection (New Series) Rock Samples -- Amphibolites (.21)

72

Scope and Contents Note

Contains Rock Samples: .21143, .21146 to .21157, 21159 to .21160, .21162, .21167 to .21169

Homestake Specimen Collection (New Series) Rock Samples -- Amphibolites (.21)

73

Scope and Contents Note

Contains Rock Samples: .21170 to .21175, .21177 to .21179, .21183 to .21187

Homestake Specimen Collection (New Series) Rock Samples -- Amphibolites (.21)

74

Scope and Contents Note

Contains Rock Samples: .21190 to .21195, .21197, .21199 to .21200

Homestake Specimen Collection (New Series) Rock Samples -- Amphibolites (.21)

75

Scope and Contents Note

Contains Rock Samples: .21200 to .21215, .21217 to .21219

Homestake Specimen Collection (New Series) Rock Samples -- Amphibolites (.21)

76

Scope and Contents Note

Geology Samples

Contains Rock Samples: .21220 to .21231, .21233 to .21239

Homestake Specimen Collection (New Series) Rock Samples -- Amphibolites (.21)

77

Scope and Contents Note

Contains Rock Samples: .21240 to .21245, .21247 to .21256

Homestake Specimen Collection (New Series) Rock Samples -- Amphibolites (.21)

78

Scope and Contents Note

Contains Rock Samples: .2125, .21259 to .21260, .21262 to .21263, .21265
to .21268, .21270 to .21272, .21276 to .21280, .21282 to .21283

Homestake Specimen Collection (New Series) Rock Samples -- Amphibolites (.21)

79

Scope and Contents Note

Contains Rock Samples: .21285 to .21293, .21297 to .21307

Homestake Specimen Collection (New Series) Rock Samples -- Amphibolites (.21)

80

Scope and Contents Note

Contains Rock Samples: .21308 to .21309, .21311 to .21316, .21318 to .21321, .21323
to .21327, .21329

Homestake Specimen Collection (New Series) Rock Samples -- Amphibolites (.21),
Rhyolite (.41), Phonolite (.44), Pre-Cambrian (.51), and Tertiary (.55)

81

Scope and Contents Note

Geology Samples

Contains Rock Samples:

Amphibolites - .21330 to .21334, .21336 to .21337, .21340 to .21346

Rhyolites - .4149

Phonolites - .4416 to .4419

Pre-Cambrian - .5177, .5188, .5131 to .5132, .51286 to .51288

Tertiary - .551, .5549 .55113 to .55114

Map-case DrawerHomestake Specimen Collection (New Series) Rock Samples -- Deadwood
Formation (.31)Research
Library
Cabinet

2-5

Scope and Contents Note

Contains Rock Samples: .311 to .318

Homestake Specimen Collection (New Series) Rock Samples -- Rhyolite
(.41)Research
Library
Cabinet

2-6

Scope and Contents NoteContains Rock Samples: .411 to .418, .4110, .4112
to .4113, .4115, .4117, .4119, .4121Homestake Specimen Collection (New Series) Rock Samples -- Rhyolite
(.41)Research
Library
Cabinet

2-7

Scope and Contents Note

Contains Rock Samples: .4122 to .4145

Geology Samples

<p>Homestake Specimen Collection (New Series) Rock Samples -- Rhyolite (.41)</p> <p>Scope and Contents Note</p> <p>Contains Rock Samples: .4146 to .4147, .4149 to .4170</p>	<p>Research Library Cabinet</p>	<p>2-8</p>
<p>Homestake Specimen Collection (New Series) Rock Samples -- Rhyolite (.41), Quartz Porphyry (.42), Quartz-feldspar Porphyry (.43), and Phonolite (.44)</p> <p>Scope and Contents Note</p> <p>Contains Rock Samples:</p> <p>Rhyolites - .4171 to .4172</p> <p>Quartz Porphyry - .421 to .422</p> <p>Quartz-Feldspar Porphyry - .431 to .439</p> <p>Phonolites - .441 to .449</p>	<p>Research Library Cabinet</p>	<p>2-9</p>
<p>Homestake Specimen Collection (New Series) Rock Samples -- Phonolite (.44) and Pre-Cambrian (.51)</p> <p>Scope and Contents Note</p> <p>Contains Rock Samples:</p> <p>Phonolites - .4410 to .4415</p> <p>Pre-Cambrian - .515 to .519, .5111, .5115 to .5117, .5119 to .5121, .5126 to .5127, .5130 to .5135</p>	<p>Research Library Cabinet</p>	<p>2-10</p>

Geology Samples

Homestake Specimen Collection (New Series) Rock Samples -- Pre-Cambrian (.51)

Research 2-11
Library
Cabinet

Scope and Contents Note

Contains Rock Samples: .5136, .2038 to .5139, .5168 to .5170, .5168 to .5170, .5173 to .5179, .5181 to .5182, .5187 to .5188

Homestake Specimen Collection (New Series) Rock Samples -- Pre-Cambrian (.51), Tertiary (.55)

Research 3-5
Library
Cabinet

Scope and Contents Note

Contains Rock Samples:

Pre-Cambrian - .5140, .5143 to .5145, .51217, .51219 to .51222

Tertiary - .559 to .5511, .5513 to .5524

Homestake Specimen Collection (New Series) Rock Samples -- Pre-Cambrian (.51)

Research 3-3
Library
Cabinet

Scope and Contents Note

Contains Rock Samples: 0.5142, .51145 to .51146, .51148 to .51152, .51155 to .51157, .51159 to .51162, .51165, .51167 to .51173

Homestake Specimen Collection (New Series) Rock Samples -- Pre-Cambrian (.51), Tertiary (.55)

Research 3-10
Library
Cabinet

Scope and Contents Note

Contains Rock Samples:

Geology Samples

Pre-Cambrian - 0.5149

Tertiary - .5562 to .5584

Homestake Specimen Collection (New Series) Rock Samples -- Pre-Cambrian (.51)

Research 3-2
Library
Cabinet

Scope and Contents Note

Contains Rock Samples: .5150 to .5154, .51116, .51118, .51120, .51123 to .51124, .51126 to .51129, .51131 to .51133, .51137 to .51138, .51141 to .51144

Homestake Specimen Collection (New Series) Rock Samples -- Pre-Cambrian (.51)

Research 3-7
Library
Cabinet

Scope and Contents Note

Contains Rock Samples: .5158, .5161, .5164, .5166 to .5167, .5172, .5172, .51193 to .51197, .51199 to .51200, .51252 to .51259, .51262 to .51264

Homestake Specimen Collection (New Series) Rock Samples -- Pre-Cambrian (.51)

Research 3-1
Library
Cabinet

Scope and Contents Note

Contains Rock Samples: .5189 to .5195, .5197 to .51100, .51102 to .51112, .51114 to .51115

Homestake Specimen Collection (New Series) Rock Samples -- Pre-Cambrian (.51), Tertiary (.55)

Research 3-4
Library
Cabinet

Geology Samples

Scope and Contents Note

Contains Rock Samples:

Pre-Cambrian - .51174 to .51183, .51185 to .51186, .51188 to .51192

Tertiary - .511 to .555, .558

Homestake Specimen Collection (New Series) Rock Samples -- Pre-Cambrian (.51), Tertiary (.55)

Research 3-8
Library
Cabinet

Scope and Contents Note

Contains Rock Samples:

Pre-Cambrian - .51201, .51203 to .51204, .51206 to .51208, .51211 to .51213, .51215 to .51216

Tertiary - .5524 to .5537

Homestake Specimen Collection (New Series) Rock Samples -- Pre-Cambrian (.51)

Research 3-6
Library
Cabinet

Scope and Contents Note

Contains Rock Samples: .51223 to .51227, .51229, .51231, .51233 to .51243, .51247 to .51251

Homestake Specimen Collection (New Series) Rock Samples -- Tertiary (.55)

Research 3-9
Library
Cabinet

Scope and Contents Note

Contains Rock Samples: .5538 to .5561

Geology Samples

<p>Homestake Specimen Collection (New Series) Rock Samples -- Tertiary (.55)</p> <p>Scope and Contents Note</p> <p>Contains Rock Samples: .5585 to .55102, .55107 to .55108, .55110</p>	<p>Research Library Cabinet</p>	<p>3-11</p>	
		Box	
<p>Chief Geologist Teaching Samples</p>	<p>82</p>		
<p>Rock Samples with Unknown Collection</p> <p>Scope and Contents Note</p> <p>Contains Rock Samples:</p> <p>609 to 610, 612, 627, 629 to 633, 687 to 688</p> <p>2021</p> <p>5084, 5750</p> <p>AIR SH 2000, AIR SH 2900, AIR SH 3800</p> <p>GN-2, GN-4</p> <p>No. 4 SH 5450</p>	<p>83</p>		
<p>Unidentified Rock Samples</p>	<p>84-87</p>		
		Map-case	Drawer
<p>Rock Samples with Unknown Collection</p> <p>Scope and Contents Note</p>	<p>Map Room Cabinet</p>	<p>Shelf 1</p>	

Geology Samples

Contains Rock Samples: 2013, 2016-2018, 202, 2132B, 21198, and
Tornado Dike

Rock Samples with Unknown Collection

Map Room
Cabinet

Shelf 2

Scope and Contents Note

Contains Rock Samples: 21339, 27194, 21310, 21129a,b,c, 21250, 21251,
6 unidentified samples

Rock Samples with Unknown Collection

Map Room
Cabinet

Shelf 3

Scope and Contents Note

Contains Rock Samples: R2131, 21322, 18A L-78, 2184, L-79, 21281, 11
unidentified samples

Rock Samples with Unknown Collection

Map Room
Cabinet

Shelf 4

Scope and Contents Note

Contains Rock Samples: 18-7, 1219, Open Cut 5100 5 Ledge, 2081, 13
unidentified samples

Rock Samples with Unknown Collection

Map Room
Cabinet

Shelf 5

Scope and Contents Note

Contains Rock Samples: 21216, 2376, 611, 6350 Level 21 Ledge, 81 stp.
Area, 2299, 5 unidentified samples

Thin Sections

Rock Samples with Unknown Collection	Map Room Cabinet	Shelf 6
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Scope and Contents Note

Contains Rock Samples: 50588, 2375, 1742, 21226, 21200, 5 unidentified samples

Rock Samples with Unknown Collection	Map Room Cabinet	Shelf 7
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Scope and Contents Note

Contains Rock Samples: 38505, SO589, 613, 21279, DDH250-19, 2375, 255, SO587, 3575

Series 9: Thin Sections

	Box	Folder
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Thin Sections -- CA 1 to CA 25	88	1
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Thin Sections -- C samples, Diamond Drill Samples, HS Samples, and HR Samples	88	2
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Scope and Contents Note

Contains Thin Sections:

C Samples - C-3-81 to C-9-81, C-10-81, C-31-81, C-15-81, C-19-81 to C-20-81, C-22-81 to C-23-81, C-27-81, C-30-81 to C-32-81

Diamond Drill Samples - 18026-915, 18026-1455, 18026-1499, 18046-110, 18439-388, 18543-203, 18475-87, 18527-445, 18542-99, 18545-13, 18580-400

Thin Sections

HS Samples - HS 205, HS 290, HS 295, HS 298

HR Samples - HR 235, HR 241, HR 259, HR 265, HR 267, HR 269

Unidentified Samples - 1, 11, 15

Thin Sections -- Halsted, California Samples, HS Sample, MA Samples,
Wyoming Samples, SJ Samples, G Samples and Tinton Samples

88

3

Scope and Contents Note

Contains Thin Sections:

Halsted, California Samples - CA 301 to CA 305

HS Sample - HS 207

MA Samples - MA 1 to MA9

Wyoming Samples - WY 76

SJ Samples - SJ 411 to 412, 421 to 428, 431, 441, 501 to 504

G Samples - G-1, G-2

Tinton Samples - TC 3, TC 6, TC 13 to TC 24, T 1B, T 2, T 3, T 5A, T5B

Thin Sections -- A Samples, GN Samples, DR Samples and Mexico (G)
Samples

89

4

Scope and Contents Note

Contains Thin Sections:

A Samples - A 1 to A 17

GN Samples - GN 17 to GN 27, GN 33 to GN 36, GN 40 to GN 44

DR Samples - DR 1 to DR 14

Thin Sections

Mexico Samples - G 1 to G 25

Thin Sections -- Diamond Drill Samples	89	5
Scope and Contents Note		
Contains Thin Sections:		
Diamond Drill Hole Numbers -- 80, 84, 87, 88, 4021, 9758, 9855, 9874, 5785, 5790, 6421, 10168, 10225, 10236, 10337, 10378, 10459, 10561, 10679, 10745, 10753, 11471, 11474, 11487, 11491, 11516, and 11527		
	Map-case	Drawer
Thin Sections -- Poorman Formation (.12), De Smet Formation (.13), and Homestake Formation (.14)	Thin Section Cabinet	1-1
Thin Sections -- Homestake Formation (.14) and Ellison Formation (.15)	Thin Section Cabinet	1-2
Thin Sections -- Northwestern Formation (.16), Flag Rock Formation (.17), and Grizzly Formation (.18)	Thin Section Cabinet	1-3
	Box	Drawer
Thin Sections -- Amphibolites (.21)	Thin Section Cabinet	1-4
	Map-case	Drawer

Thin Sections

Thin Sections -- Northern Black Hills	Thin Section Cabinet	1-5
HS Series Rogers	Thin Section Cabinet	1-6
Thin Sections -- Tertiary Intrusives - Rhyolites (.41), Quartz Porphyry (.42), Quartz-feldspar porphyry (.43), and Phonolites (.44)	Thin Section Cabinet	1-7
Thin Sections -- Southern Black Hills and JKG Collection	Thin Section Cabinet	1-8
Thin Sections -- Mineralization - Pre-Cambrian (.51) and Tertiary (.55)	Thin Section Cabinet	1-9
Thin Sections -- Rochford and Foreign	Thin Section Cabinet	1-10
Thin Sections -- McL. Collection A -.1116	Thin Section Cabinet	2-1
	Map-case	Folder
Thin Sections -- McL. Collection .1117-.1732	Thin Section Cabinet	2-2
	Map-case	Drawer

Thin Sections

Thin Sections -- Lead Collection .511-.51118	Thin Section Cabinet	2-3
Thin Sections -- Lead Collection .51119	Thin Section Cabinet	2-4
	Box	Drawer
Thin Sections -- Lead Collection .552	Thin Section Cabinet	2-5
	Map-case	Drawer
Thin Sections -- 51211 to 51231, 51233 to 51243, and 51245	Thin Section Cabinet	2-6
Thin Sections -- HM and T Samples	Thin Section Cabinet	2-7
Thin Sections -- GN 3, GN 4, 1000, 2150, 2450, 2600, 2750, 3050, and 3350	Thin Section Cabinet	2-8
Thin Sections -- Northern Black Hills and Southern Black Hills	Thin Section Cabinet	2-9
Thin Sections -- Tex 2, COLO.14 COLO.15, 51246 to 51249, and 51251 to 51270	Thin Section Cabinet	2-10

Thin Sections

Thin Sections -- Box 01	Research Library File Cabinet	1
Scope and Contents Note		
Contains Thin Sections: SM86-1, AM86-1A-C		
Thin Sections -- Box 02	Research Library File Cabinet	1
Scope and Contents Note		
Contains Thin Sections: SM86-1C, SM87-1 to SM87-4, SM87-3A, Jardine 3, Jardine 4		
Thin Sections -- Box 03	Research Library File Cabinet	1
Scope and Contents Note		
Contains Thin Sections: SM88-5A		
Thin Sections -- Box 04	Research Library File Cabinet	1
Scope and Contents Note		
Contains Thin Sections: RX 1A, RX 2, RX 2A, SM86-1		
Thin Sections -- Box 05	Research Library File Cabinet	1
Scope and Contents Note		
Contains Thin Sections: SM87-4A, SM 87-4B, SL, EC Suite, OID, 1733, Cutting Stock, Two Bit Creek		

Thin Sections

Thin Sections -- Box 06	Research Library File Cabinet	1
Scope and Contents Note		
Contains Thin Sections: SM 86-1, SM 87-4, SM88-5A, SM 88-5C, YB 2, KWR, HT 81-1, HT 81-2, GCM 83-2, B 84-2, B 84-3, C 84-6, C 84-11, C 84-12, GCC 8, GCC 10		
Thin Sections -- Box 07	Research Library File Cabinet	1
Scope and Contents Note		
Contains Thin Sections: SM88-5C, SM 88-5D, SM 88-3, GCC 10, KW 4, HT 81-2, S 1, KW 88, YB 2		
Thin Sections -- Box 08	Research Library File Cabinet	1
Scope and Contents Note		
Contains Thin Sections: B84-4, GB 83-1, GB 83-2		
Thin Sections -- Box 09	Research Library File Cabinet	1
Scope and Contents Note		
Contains Thin Sections: BLG 2, BLG 4 to BLG 6, B84-1- B84-3, GCM 83-2, DDP (16557)		
Thin Sections -- Box 10	Research Library File Cabinet	1
Scope and Contents Note		

Thin Sections

Contains Thin Sections: NL 3, SM 86 86-1, SM 861A, S 1, SOC, 73 BLG, G 3 to G 5, S d		
Thin Sections -- Box 11	Research Library File Cabinet	1
Scope and Contents Note		
Contains Thin Sections: NL 3		
Thin Sections -- Box 12	Research Library File Cabinet	1
Scope and Contents Note		
Contains Thin Sections: NL 2		
	Folder	Drawer
Thin Sections -- Box 13	Research Library File Cabinet	1
Scope and Contents Note		
Contains Thin Sections: NL 2		
	Map-case	Drawer
Thin Sections -- Box 14	Research Library File Cabinet	1
Scope and Contents Note		
Contains Thin Sections: NL 1		
Thin Sections -- Box 15	Research Library	1
Scope and Contents Note		

Thin Sections

Contains Thin Sections: NL 4	File Cabinet	
Thin Sections -- Box 16	Research Library File Cabinet	1
Scope and Contents Note		
Contains Thin Sections: NL 5		
Thin Sections -- Box 17	Research Library File Cabinet	1
Scope and Contents Note		
Contains Thin Sections: KN 1388, KN 488, 18080, 180-14, DBT 88-1B, 18044, DBT 87-1, D 88-3, DML 88-3, DCC 88, DCC 88-1A-C, DCC 2		
Thin Sections -- Box 21	Research Library File Cabinet	1
Scope and Contents Note		
Contains Thin Sections: CC87-1, CC87-1A, CC87-2 to CC87-8		
Thin Sections -- Box 25	Research Library File Cabinet	2
Scope and Contents Note		
Contains Thin Sections: BTG 87-1, BTG 87-2, BTG 87-4, BTG 87-5, BTG 87-7, BTG 87-8A, DBT 88-1A, DBM 91-2G		
Thin Sections -- Box 26	Research Library File Cabinet	2
Scope and Contents Note		

Thin Sections

Contains Thin Sections: 17621A, 17660

Thin Sections -- Box 27

Research 2
Library
File
Cabinet

Scope and Contents Note

Contains Thin Sections: PG 1, PG 2, TR 87-1A, CE 12, CE 12A, CE 16

Thin Sections -- Box 31

Research 2
Library
File
Cabinet

Thin Sections -- Box 39

Research 2
Library
File
Cabinet

Scope and Contents Note

Contains Thin Sections: Button Flag Rock 1980-1981

Thin Sections -- Box 40

Research 2
Library
File
Cabinet

Scope and Contents Note

Contains Thin Sections: NL 5, NL 6, BTG 87-1, BTG 87-2, BTG 87-3, BTG 87-5, BTG 87-7, BTG 87-8A, DBT 87-1, PG 1, PG 2, PG 3, PG 6

Thin Sections -- Box 41

Research 2
Library
File
Cabinet

Scope and Contents Note

Contains Thin Sections: ST 87-1, ST 87-1A, ST 87-2, ST 87-3, RX 86-1, RX 87-1, RX 87-1B

Thin Sections

Thin Sections -- Box 43	Research Library File Cabinet	2
Scope and Contents Note		
Contains Thin Sections: DBM 91-2G, DBM 91-1B, 11916, BTG 87-4, BTG 87-5, 19776N, 19600, 19827, MA 90-1, 1700-91-71A1, 4646AW, LL 85-1, 44-84, 12474, 19776		
Thin Sections -- Box 47	Research Library File Cabinet	2
Scope and Contents Note		
Contains Thin Sections: Shaddrick Suite, HM 1-9A, GE-3		
Thin Sections -- Box 48	Research Library File Cabinet	2
Scope and Contents Note		
Contains Thin Sections: Shaddrick Suite, 11829B, 11855B		
Thin Sections -- Box 49	Research Library File Cabinet	2
Scope and Contents Note		
Contains Thin Sections: Rolland Reid Suite 85RR		
Thin Sections -- Box 50	Research Library File Cabinet	2
Scope and Contents Note		
Contains Thin Sections: Rolland Reid Suite 86RR		

Thin Sections

Thin Sections -- Box 51	Research	2
	Library	
Scope and Contents Note	File	
Contains Thin Sections: Rolland Reid Suite 86RR	Cabinet	
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Thin Sections -- Box 52	Research	2
	Library	
Scope and Contents Note	File	
Contains Thin Sections: Rolland Reid Suite 88RR and Lead/Back River	Cabinet	
<hr/>		
Thin Sections -- Box 53	Research	2
	Library	
Scope and Contents Note	File	
Contains Thin Sections: Rolland Reid Suite 85RR and 86RR	Cabinet	
<hr/>		
Thin Sections -- Box 54	Research	2
	Library	
Scope and Contents Note	File	
Contains Thin Sections: Rolland Reid Suite 88RR 001 to 035	Cabinet	
<hr/>		
Thin Sections -- Box 55	Research	2
	Library	
Scope and Contents Note	File	
Contains Thin Sections: Rolland Reid Suite 86RR, 87RR, 89RR and GB 83-1	Cabinet	

Thin Sections

Thin Sections -- Box 56	Research	3
Scope and Contents Note	Library	
Contains Thin Sections: Rolland Reid Suite 87RR	File	
	Cabinet	
Thin Sections -- Box 57	Research	3
Scope and Contents Note	Library	
Contains Thin Sections: Rolland Reid Suite 87RR	File	
	Cabinet	
Thin Sections -- Box 58	Research	3
Scope and Contents Note	Library	
Contains Thin Sections: Rolland Reid Suite 87RR	File	
	Cabinet	
Thin Sections -- Box 59	Research	3
Scope and Contents Note	Library	
Contains Thin Sections: Rolland Reid Suite 88RR	File	
	Cabinet	
Thin Sections -- Box 60	Research	3
Scope and Contents Note	Library	
Contains Thin Sections: Rolland Reid Suite 85RR, 88RR	File	
	Cabinet	
Thin Sections -- Box 61	Research	3
	Library	

Thin Sections

Scope and Contents Note

Contains Thin Sections: Rolland Reid Suite 83RR, 84RR, CM

File
Cabinet

Thin Sections -- Box 62

Scope and Contents Note

Contains Thin Sections: Rolland Reid Suite 82RR, 83RR, CM

Research 3
Library
File
Cabinet

Thin Sections -- Box 63

Scope and Contents Note

Contains Thin Sections: WR 93-1, WR94-2

Research 3
Library
File
Cabinet

Thin Sections -- Box 64

Scope and Contents Note

Contains Thin Sections: Rolland Reid Suite 89RR 001 to 035

Research 3
Library
File
Cabinet

Thin Sections -- Box 65

Scope and Contents Note

Contains Thin Sections: Rolland Reid Suite 89RR 035 to 066

Research 3
Library
File
Cabinet

Thin Sections -- Box 66

Scope and Contents NoteResearch 3
Library
File
Cabinet

Thin Sections

Contains Thin Sections: Rolland Reid Suite 89RR 066 to 103

Thin Sections -- Box 67

Research 3
Library
File
Cabinet

Scope and Contents Note

Contains Thin Sections: Rolland Reid Suite 89RR 103 to 151

Thin Sections -- Box 68

Research 3
Library
File
Cabinet

Scope and Contents Note

Contains Thin Sections: Rolland Reid Suite 89RR 151 to 185

Thin Sections -- Box 69

Research 3
Library
File
Cabinet

Scope and Contents Note

Contains Thin Sections: Rolland Reid Suite 89RR 185 to 203

Thin Sections -- Box 70

Research 3
Library
File
Cabinet

Scope and Contents Note

Contains Thin Sections: E. Caddy, DML 87-1, DML 88-1,A, 17720, 18325, 18445, 18845, 19591, Jon DBM 88-1,A, FN, DCC, TCF, BTA, DBT 87-1

Thin Sections -- Box 71

Research 3
Library
File
Cabinet

Scope and Contents Note

Thin Sections

Contains Thin Sections: DML 87-1,2,A,B, DBM 91-1B,C, DBT 88-1A,
S17 88-5A, DCC 88-1, 21L, 25L 87-1,2B, 17660, 19998, 20072, 20128

Thin Sections -- Box 72

Research 3
Library
File
Cabinet

Scope and Contents Note

Contains Thin Sections: DBM 91-1B, C, 92-4, DBT 88-1A, NL-1, 19776,
19998, 200072B, 20128, 20133, 20868, 21088, Western Star Mine

Thin Sections -- Box 73

Research 3
Library
File
Cabinet

Scope and Contents Note

Homestake Exploration Thin Section Library List/Document

Folder Drawer

Thin Sections -- Bachman I TS - Rush

Research 3
Library
File
Cabinet

Scope and Contents Note

Contains Thin Sections: 1035 ST

Map-case Drawer

Thin Sections -- Reid 6 PTS + S

Research 3
Library
File
Cabinet

Scope and Contents Note

Contains Thin Sections: 2928A-AD, 2936-AD

Thin Sections -- Tinton Thin and Polished Sections

Research 3
Library

Thin Sections

Scope and Contents Note	File	
Contains Thin Sections: CM2 420', CMI 246', CMI 350', CMI 191', CMI 470', 351 AC, CMI 186', CMI 411.5'	Cabinet	
Thin Sections -- San Diego Petrographics 1	Research	3
	Library	
Scope and Contents Note	File	
Contains Thin Sections: THMC 359, 0479 BH, 0480 BH, 0481 BH	Cabinet	
Thin Sections -- Jack Redden	Research	3
	Library	
Scope and Contents Note	File	
Contains Thin Sections: SS-4-K, JRM 10, 2007, OC-102, 13-59-11, 11-59-34, 13-59-23, FB-3-61, FB-3-1052, 18442-1022, DBM 89-2 7317, 59-13-4, 17956 1020, DBM-89-1A 5292, 2+566-1884, 18687-1046, 17660-465	Cabinet	
Thin Sections -- West Rim and D. City Creek	Research	3
	Library	
Scope and Contents Note	File	
Contains Thin Sections: MLH-87-4 146.5, 5180, DC 88-1B-3263, 514	Cabinet	
		Box
Microscope Parts		90