VIRGINIA DIVISION OF MINERAL RESOURCES PUBLICATION 51

SELECTED VIRGINIA MINERAL-RESOURCE INFORMATION

Palmer C. Sweet and William D. Rowe, Jr.

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT
DIVISION OF MINERAL RESOURCES
Robert C. Milici, Commissioner of Mineral Resources and State Geologist

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FRONT COVER: Outcrop of kyanite-bearing quartzite along east ridge of Willis Mountain, Buckingham County (Photograph by James F. Conley).

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Portions of this publication may be quoted if credit is given to the Virginia Division of Mineral Resources. It is recommended that reference to this report be made in the following form:
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SELECTED VIRGINIA MINERAL-RESOURCE INFORMATION

Palmer C. Sweet[1] and William D. Rowe, Jr.[2]

INTRODUCTION

The U. S. Geological Survey's Mineral Resources Data System (MRDS) is a computerized mineral data storage and analysis system operated by the Branch of Resource Analysis (BORA) of the Office of Mineral Resources (OMR) in the Geologic Division of the U.S. Geological Survey (USGS). MRDS operations were started in 1972 under the name of Computerized Resource Information Bank (CRIB) in response to the growing need for automated storage and rapid retrieval of large amounts of descriptive information on mineral resources. Currently, MRDS is being redesigned as a dynamic system which is continually being updated and expanded in support of various USGS, federal, and state research activities.

The system contains a revised and expanded subset of mineral resource information for the State of Virginia. This subset of computerized information, known as MRDS-VIRGINIA, currently consists of 1,120 records containing location, geologic, and resource information about metallic and nonmetallic mineral deposits and mineral commodity occurrences in the State. These records represent a comprehensive source of updated and verified non-proprietary data on some of Virginia's mineral resources. The data are available to the public through both MRDS regional offices, and through the General Electric World-Wide MARK 3000 Computer Network at the University of Oklahoma.

The retrieval software used by MRDS (discussed in the "System Overview and Access" section) makes possible highly selective rapid searches of this file. Common search patterns are by area (country, state, county, or rectangular area based on a set of geodetic coordinates), commodity, or geologic conditions associated with a particular commodity or deposit. Retrieved information can be displayed in a variety of output formats, including entire record print-out, specified parts of a record, tabulations, and computer-generated map plots at any scale desired. Questions concerning public access to the system should be directed to the MRDS regional representative in the area: U. S. Geological Survey, 920 National Center, Reston, VA 22092, or U. S. Geological Survey, Mail Stop 84, 345 Middlefield Road, Menlo Park, CA 94024. Questions may also be directed to the Virginia Division of Mineral Resources, P.O. Box 3667, Charlottesville, VA 22903.

The primary purpose of this report is to make the public aware of the existence of the MRDS data for use by all interested parties. This report describes the content of typical MRDS-VIRGINIA records and presents map displays of 705 of the 1,120 records in the MRDS-VIRGINIA file. A similar report CRIB-UTAH, was published as Circular 846 by the USGS in 1972.

A compilation of data such as these relies on the cooperation and assistance of many persons. The authors are pleased to acknowledge some of those who have contributed to the completion of this file, namely, David Trimble, Robert E. Meintzer, and Harvey Beaulieu, former employees of the Virginia Division of Mineral Resources.

PURPOSE OF MRDS-VIRGINIA MINERAL-RESOURCE DATA

MRDS-VIRGINIA is a subset of the MRDS master data base, an international file on mineral resources, which was constructed to help the USGS meet its responsibilities of assessing the identified and undiscovered mineral resources of the nation. This system also provides the State of Virginia with the advantage of organizing, assessing, and distributing data on its own mineral resources. Each record in MRDS (and MRDS-VIRGINIA) describes a mineral deposit, occurrence, or district; the records emphasize geologic information and include some available production data. The system can be used for mineral-commodity compilations, resource-related mapping, identification programs, metallogenic research, and answering mineral-resource data inquiries.

DESCRIPTION OF MRDS-VIRGINIA MINERAL RESOURCE DATA

MRDS-VIRGINIA currently consists of 1,120 records (as of May 1, 1983) similar in format to the example shown in Appendix I. The information in each record relates to a specific mineral deposit, mining operation, prospect, or mineral occurrence having a specific geodetic coordinate location. The data for each record (deposit) fall into several different categories covering its name, location, type, reported commodities, exploration and development status, mineralogy and geology, production history, resources, and bibliographic references. Entries are in natural-language text wherever possible, however certain data fields are rigidly formated or coded.

The average Virginia record in MRDS consists of about three pages of computer text. The records meet existing MRDS minimum data quality control standards. That is, the records must include information on the deposit's name, location, size, type, workings (if present), commodities, reporting geol-

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[2]U.S. Geological Survey, Reston, VA; presently at Southern Methodist University, Dallas, TX.

Table 1. Selected MRDS-VIRGINIA record index.

RECORD NO.	MINE	COMMODITIES						COUNTY	LAT.	LONG.
W031302	FABER MINE	PB	ZN	AG	CU	PYR	PYRI	ALBEMARLE	37-50-14N	078-42-22W
W031303	KIMBERLING AND NOBUSINESS CREE	ZN	PB					BLAND	37-11- N	080-58- W
W031305	TROUTVILLE PROSPECT	ZN	PB					BOTETOURT	37-26- N	079-52- W
W030844	BEN WHITE PROSPECT	CU	ZN	PB	PYR1	FE		CARROLL	36-49-20N	080-46-35W
W030851	DAVIS PROSPECT	CU	ZN	PB	PYR1	FE	PYR	CARROLL	36-48- N	080-46- W
W030866	STONE PROSPECT	CU	ZN	PB	PYR1	FE	PYR	CARROLL	36-48- N	080-46- W
W031318	MARTIN AND WERTZ MINE	ZN	PB	PYR				CITY OF ROANOKE	37-14- N	079-59- W
W000476	ALLAH COOPER MINE	AU	AG	PB	ZN	PYR		LOUISA	38-04-26N	077-51-34W
W000459	ARMINIUS MINE	ZN	PB	CU	PYR	FE	AS	LOUISA	38-02-11N	077-53-54W
W000458	BOYD-SMITH MINE	ZN	PB	CU	PYR	FE		LOUISA	38-02-42N	077-53-30W
W031306	COFER PROSPECT	ZN	PB	CU	AU	AG	PYR	LOUISA	38-03-00N	077-52-31W
W000466	HEMMER MINE	ZN	PB	CU	AU	AG	PYR	LOUISA	38-01-11N	077-54-32W
W000467	HUNTER PROSPECT	ZN	PB	CU	AU	AG	PYR	LOUISA	38-00-51N	077-54-46W
W000472	JULIA MINE	ZN	PB	CU	PYR	FE		LOUISA	38-00-34N	077-55-29W
W000457	SULPHUR MINE	ZN	PB	CU	PYR	FE		LOUISA	38-03-41N	077-52-55W
W031307	ALLEGHANY SPRINGS PROSPECT	ZN	PB	AG				MONTGOMERY	37-06- N	080-15- W
W031309	LANGHORN AND WILLS PROSPECTS	ZN	PB					MONTGOMERY	37-09-20N	080-14-30W
W031310	PEPPERS FERRY MINE	ZN	PB					MONTGOMERY	37-10- N	080-33- W
W031311	PILOT KNOB PROSPECT	PB	ZN	CU				MONTGOMERY	37-02- N	080-29- W
W031316	FORNEY PROSPECT	ZN	PB					PULASKI	36-57- N	080-44- W
W031317	GRAHAM AND ROBINSON MINE	ZN	PB					PULASKI	36-56-16N	080-43-46W
W031325	SHOWALTER PROSPECT	PB	PYR					ROCKINGHAM	38-31-13N	078-55-55W
W031330	PAT KEITH PROSPECT	ZN	PB					RUSSELL	36-49- N	082-21- W
W031336	MARTIN MINE	PB	ZN	PYR				SHENANDOAH	38-42-15N	078-45-14W
W031337	RUNION PROSPECT	ZN	PB	CU	PYR			SHENANDOAH	38-45- N	078-48- W
W031342	HENDERSON PROPERTY PROSPECT	ZN	PB					SMYTH	36-44- N	081-33- W
W031343	LIVESAY PROSPECT	ZN	PB					SMYTH	36-45-41N	081-29-37W
W031346	MARTIN PROSPECT	ZN	PB					SMYTH	36-45-60N	081-33-30W
W031347	RYE VALLEY MINING COMPANY MINE	PB	ZN	PYR	AU			SMYTH	36-46-44N	081-25-20W
W031349	WARD, R.N., PROSPECT	PB						SMYTH	36-46- N	081-25- W
W000450	MARVA PROSPECT	ZN	PB	CU	AU	AG	PYR	SPOTSYLVANIA	38-09-36N	077-48-03W
W031350	CEDAR BLUFF PROSPECT	ZN	PB					TAZEWELL	37-05- N	081-45- W
W019007	AUSTINVILLE - IVANHOE MINES	ZN	PB	DOL	STN1			WYTHE	36-50-50N	080-55-11W
W031360	JACKSON FERRY PROSPECT	ZN	PB					WYTHE	36-52-14N	080-52-03W
W031364	LASWELL PROSPECTS	PB	ZN					WYTHE	36-54- N	080-54- W
W031369	RIGGLES PROSPECT	ZN	PB	CU				WYTHE	36-52-54N	081-09-04W

ogist, and literature reference. To assure quality control, data contributors have reviewed and edited the computerized data and submitted all corrections to bring the information up-to-date. New deposit descriptions have been added to complete the data coverage on commodities of broad state and national interest, and duplicate or superfluous records have been deleted. Mineral deposit locations have been verified for accuracy to within one minute or, in most cases, a few seconds of arc. Records vary in completeness and consistency because of variations in the original data and the differences in specialization of the individual contributors.

SOURCES OF MRDS-VIRGINIA INFORMATION

The major source of MRDS-VIRGINIA information has been literature and field collection of data by the Virginia Division of Mineral Resources (VDMR) during 1981-82. The VDMR has researched the literature and field checked the majority of the entries of precious and massive sulfide deposits in Virginia, as well as, additional metal, and industrial mineral occurrences in the State through a cooperative arrangement between VDMR and the USGS. In addition, MRDS-VIRGINIA brings together data from several other, sometimes overlapping, sources. For example, some data were compiled in the early 1970's by Bureau of Mines personnel and other data by USGS personnel. Most entries have been verified as to location and literature reference, and the geologic information has been expanded where possible.

SYSTEM OVERVIEW AND ACCESS

MRDS uses the program GIPSY (General Information Processing System), a sophisticated information-handling tool developed by the University of Oklahoma, as the vehicle for creating, storing, and processing the resource information in the computer. GIPSY, designed with natural-language format, provides unlimited access to the data by means of interactive or batch processing. Information about a deposit (or group of deposits of a specific mineral commodity), such as the location by district, county, latitude and longitude, and the geologic environment, and production history, can be rapidly retrieved using GIPSY. The output can be produced in the form of full computer text (Appendix I), as indices of selected data items (Table 1), or in the form of indexed map plots.

There are presently two systems available to access MRDS-VIRGINIA data. The General Electric Information Services Company (GEISCO) makes MRDS available to public users through its worldwide MARK 3000 Service. More detailed information and user accounts may be obtained from the GEISCO system by contacting: University of Oklahoma, Information Systems Programs, P.O. Box 3030, Norman, OK 73070. Government agencies may access the data directly through the USGS AMDAHL computer. Retrievals of any or all Virginia information can also be made from any of the USGS Regional Centers. Both "online" interactive and batch processing modes are available. User identification and account numbers may be acquired by contacting one of the aforementioned MRDS regional representatives.

Table 2. Distribution of MRDS-VIRGINIA data by mineral commodity.

Mineral Commodity	Number of Selected Records Plotted on maps Column A	Total Number of Records Column B
Au	226	247
Ag	17	42
Cu	119	177
Pb	36	108
Zn	87	146
Ba	98	98
Fe	85	144
Mn	62	81
Al	2	5
Kyanite	4	5
Emery	2	2
Ni	16	16
Co	16	16
As	1	29
Pyrite	24	196
Pyrrhotite	8	45
Ta/Nb	13	13
Sn	4	4
Ti	23	23
W	6	6

MINERAL-COMMODITY DATA

Brief summaries describing 20 individual commodities are shown on a series of maps (Figures 1-8). These maps provide visual display of the selected metallic and nonmetallic mineral-commodity localities documented in MRDS-VIRGINIA. The commodities are, in order: gold-silver, copper, lead-zinc, barite, iron-manganese, aluminum-kyanite-emery, nickel-cobalt-arsenic-pyrite-pyrrhotite, and tantalum-tin-tungsten-titanium. Each map shows the geographical distribution of the identified resource and occurrence. Plotted localities include raw and developed prospects, sites where small scale production has taken place, mines that are producing or have produced, and mines experiencing intermittent periods of activity. Column A of Table 2 shows the number of mineral sites plotted for each commodity on the computer-generated maps which follow. Column B of Table 2 gives a summary of the total number of records available in MRDS-VIRGINIA for each commodity including those occurrences

that are not plotted on these maps. An index of all the 705 plotted localities, sorted by county and mine name is found in Appendix II. Minor occurrences, such as isolated drill holes, shallow pits, and outcrops showing ore mineralization, have not been plotted or indexed.

Each commodity map consists of a State base map showing county boundaries with appropriate symbols plotted. Overlapping symbols represent polymetallic sites. Descriptive information on the reported mineral sites is stored in MRDS and can be retrieved in conjunction with the maps upon request.

Gold and Silver

Gold was reportedly first discovered in Virginia in 1806 at the Whitehall mine in Spotsylvania County. References for 247 gold mines and prospects are stored in the MRDS system of which 226 significant localities have been plotted in Figure 1. It is reported that about 98,600 troy ounces of gold were produced in Virginia from the early 1800's through 1947 (Sweet, 1980 and 1983). There has been no commercial gold production since 1947.

Silver was discovered in the 1700's or early 1800's in Mecklenburg County, but there is no reported production until 1885. May, 1983 assays by the State verifies silver in Mecklenburg County and also indicates silver in Amherst County (VDMR, Economic Section files). Reported production from 1889 through 1945 was more than 93,000 troy ounces (Sweet, 1976a); there is no reported production since 1945. Native silver reportedly occurs in copper sulfide ores in southern Virginia and was also mined as a by-product from lead-zinc, copper, and massive sulfide ores. Production from the Virgilina district in Halifax County during the early 1900's and as a by-product from lead-zinc mines in 1943-1944 represents about one-half the total production of silver in Virginia. Forty-two mines with silver mineralization are included in the MRDS system but only 17 mines (silver with gold), those occurring with gold, have been plotted in Figure 1.

Copper

Copper mineralization is present in massive sulfide bodies in the Gossan Lead of Carroll and Grayson counties and in Floyd County. Copper mineralization is also present in quartz veins in Charlotte and Halifax counties (Virgilina district), in the Catoctin Greenstone in the Blue Ridge province, and in Triassic sedimentary rocks and as disseminations in marble of Paleozoic (?) age in the Piedmont province. Estimated total production of copper metal in Virginia from 1859-1947 was about 1796.6 tons (3,593,296 lbs.) with values ranging from $0.08 - $0.25/lb. (Sweet, 1976b). In comparison, copper metal production in Arizona for 1980 was 757,314 metric tons (Burgin, L. B., 1982, p. 51).

Copper ore was processed on site and also shipped for processing from the Anaconda mine in Buckingham County, from 1905-1910. Chalcopyrite (a copper-iron sulfide) was handpicked at the Cabin Branch mine in Prince William County to make a matte which was then refined. Copper metal (10,000 pounds) was last produced in Virginia at the Toncrae mine in Floyd County in 1947 (Sweet, 1976b). One hundred and nineteen entries from MRDS have been plotted in Figure 2.

Lead and Zinc

Lead ore was first mined at Austinville in Wythe County in 1756. Recovery of zinc at this mine began shortly after the Civil War. Two principal mining districts, the Pulaski-Wythe-Smyth county area and the Shenandoah-Rockingham county area, are both in carbonate rocks of early Paleozoic age in the Ridge and Valley Province, and produced most of the lead and zinc in Virginia. The New Jersey Zinc Company, the last operator of the Austinville mine, closed the mine in December 1981 because of the depressed metal market. It is estimated that 30 million short tons of lead-zinc ore have been extracted over the years, and an estimated 900,000 short tons of reserves remain in the mine (Virginia Minerals, 1981). In the Shenandoah-Rockingham county area, unverified reports indicate galena was first mined during the Civil War. Intermittent prospecting and mining later occurred in 1894, 1913, 1929-1930, 1948-1950, and most recently at the Bowers-Campbell property in Rockingham County by Tri-State Zinc, Inc. from May 1956 thru July 1963. Thirty-six entries for lead and 87 entries for zinc have been plotted in Figure 3.

Barite

In 1845, barite was first mined in northern Virginia in Prince William County at the Cedar Run mine, about 200 yards from the Fauquier County line. The barite was mined from fractures along a fault zone in red shale and sandstone of Triassic age. The mine was last operated in 1903, when 1500 short tons of ore were produced. Virginia was the main barite-producing state until 1893, when Missouri became the most important producer. Mining for barite has also occurred in the southern Piedmont province. Tailings from these operations were reworked at the Hewitt mine, Campbell County in 1964. Mining also occurred in Smyth, Botetourt, and other counties in replacement deposits in Paleozoic limestone. Total production of barite in Virginia as noted by J. K. Roberts's annotated bibliography (Roberts, 1942) exceeded 130,000 short tons; more than 46,000 short tons of barite were produced in the years 1901-1905. Pricing of ground barite has varied from $9/ton in 1880, $3/ton in 1901, $5/ton in 1935 to approximately $9/ton in late 1982. For comparison, production of barite in Nevada in 1980 was 1.92 million short tons (Lockard and Schilling, 1982). Ninety-eight

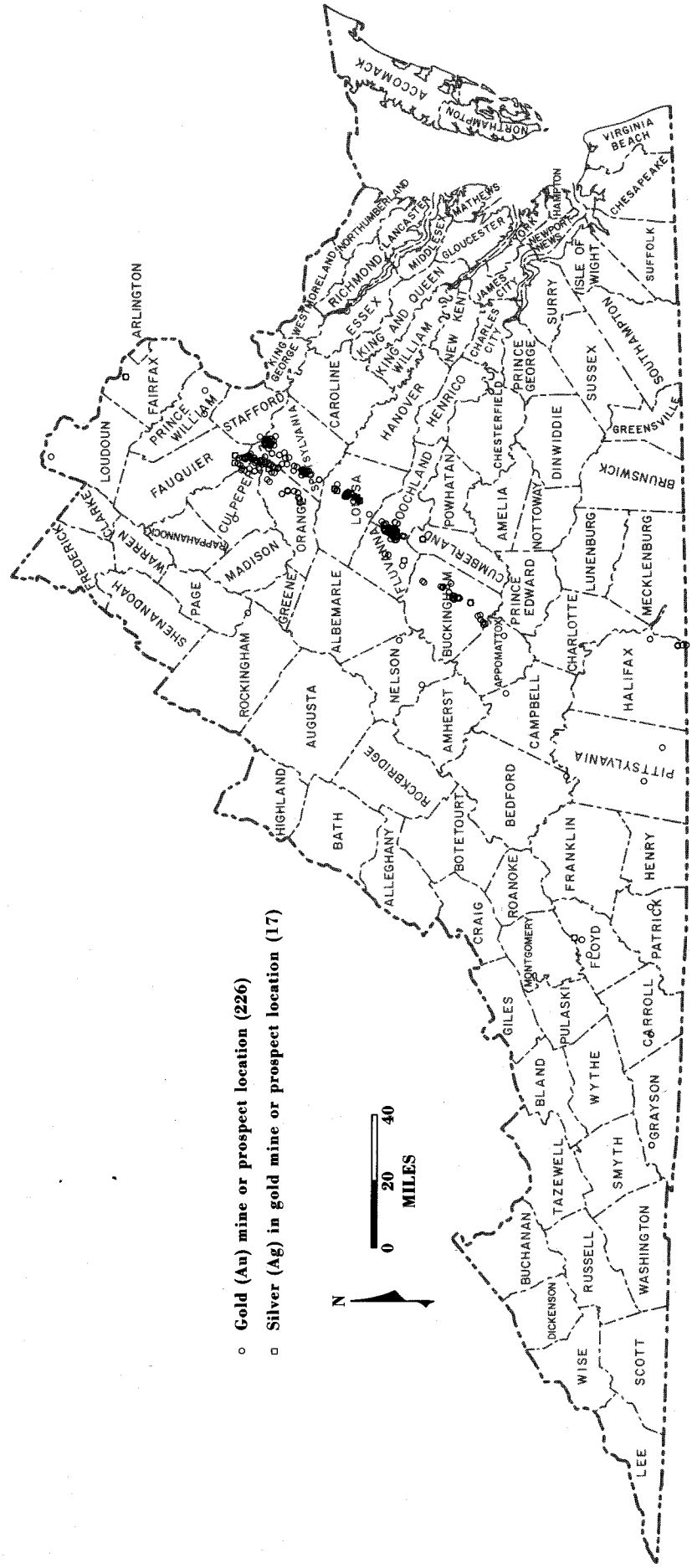

Figure 1. Deposits and occurrences stored in MRDS for gold and silver.

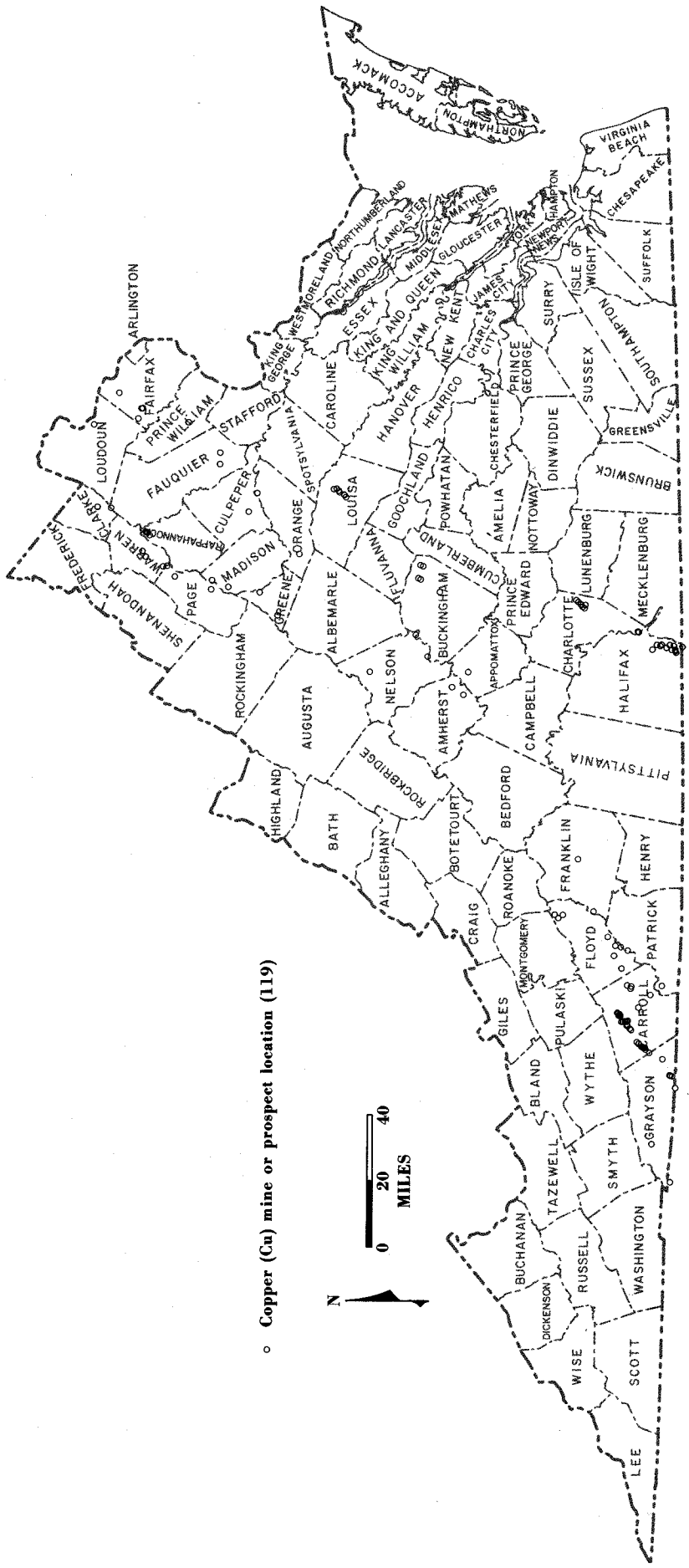

Figure 2. Deposits and occurrences stored in MRDS for copper.

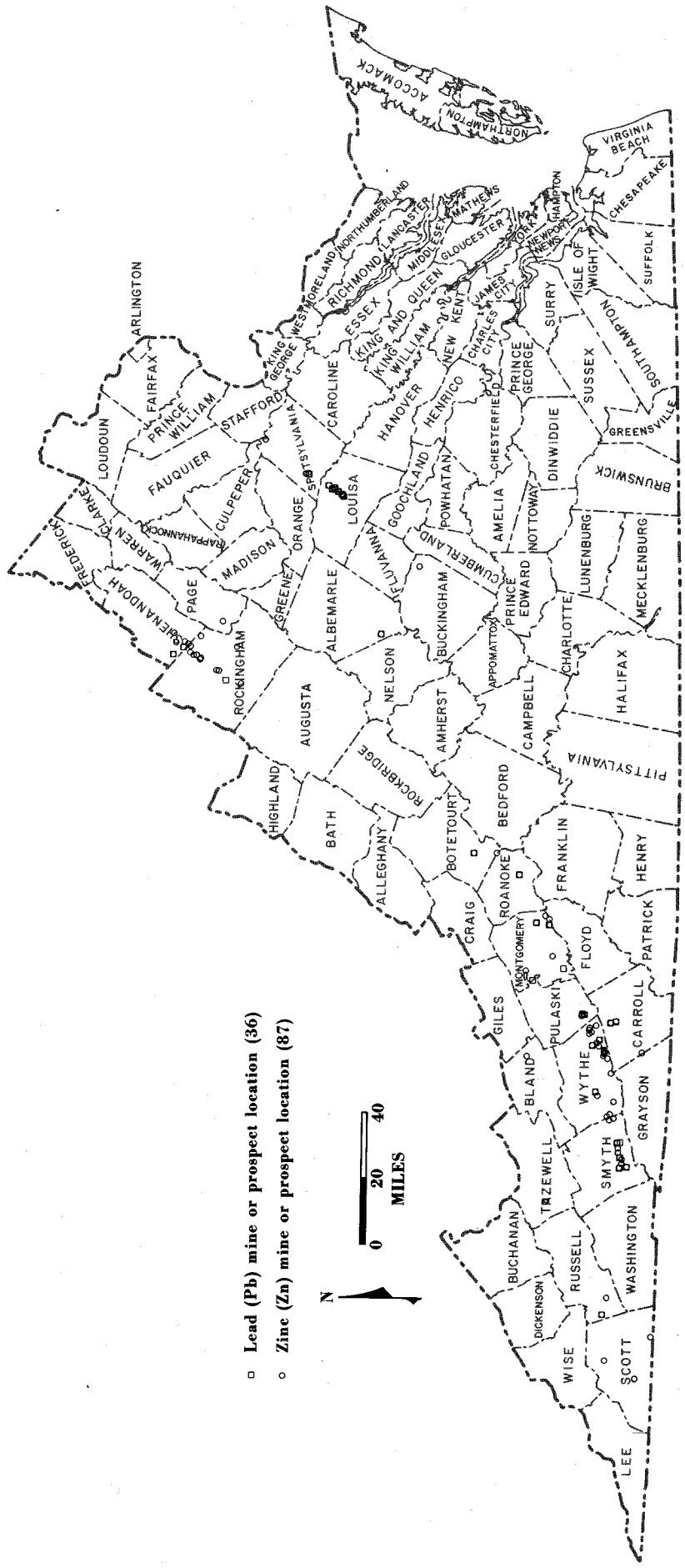

Figure 3. Deposits and occurrences stored in MRDS for lead and zinc.

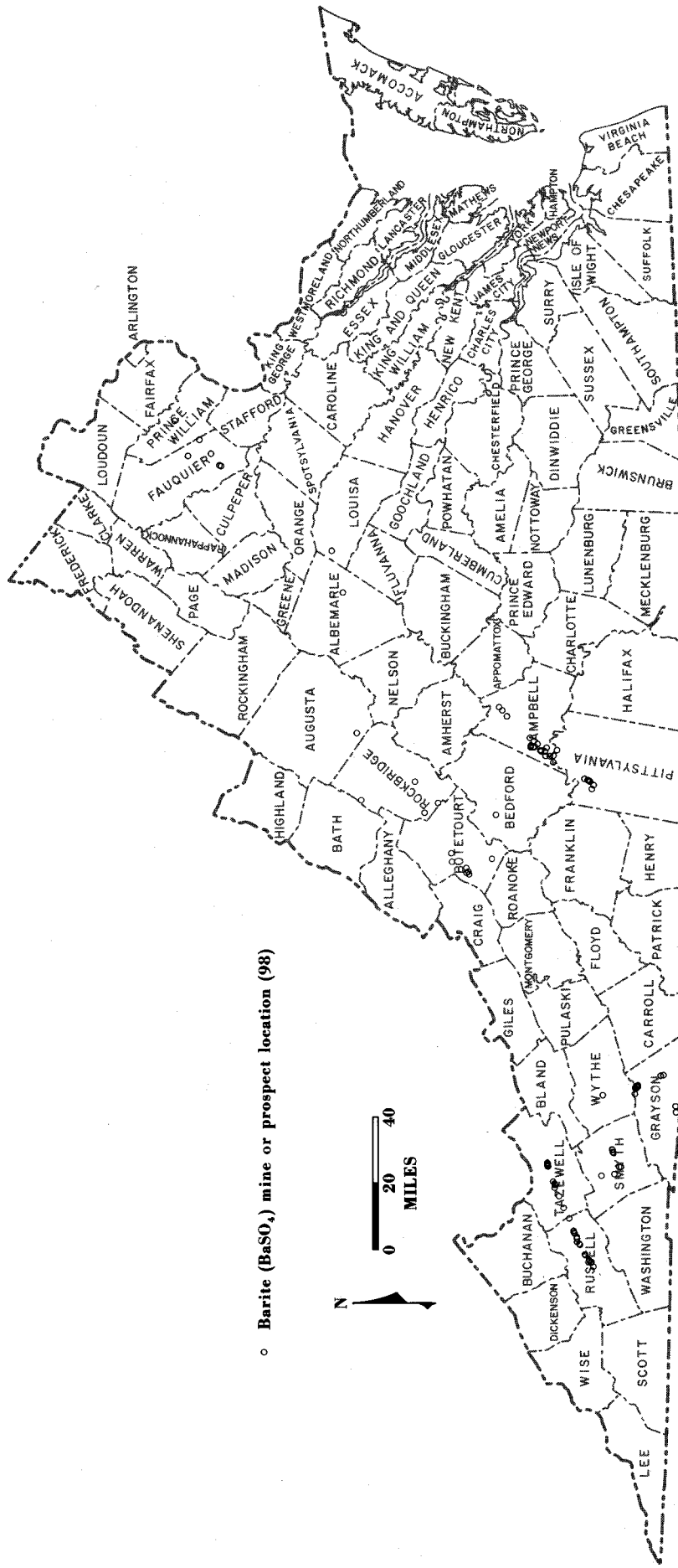

Figure 4. Deposits and occurrences stored in MRDS for barite.

entries from MRDS have been plotted in Figure 4.

Iron

Mining of iron in Virginia began in 1609 by the Jamestown settlers. Cumulative production in the State through 1942 totaled 11 million tons of iron ore (Gooch, 1954). The year of largest production was 1903 with 544,034 long tons of iron. Production was from twelve principal districts, the largest producer being the Alleghany-Bath Limonite district in the Valley and Ridge province. Other iron-bearing districts in Virginia were Shenandoah, Pulaski-Smyth, Louisa-Spotsylvania, Carroll-Grayson (considered two separate districts), Iron Gate-Low Moor, Roanoke, Lee-Wise, Pittsylvania, Franklin-Patrick, and Lynchburg. Eighty-five entries from MRDS have been plotted in Figure 5.

Manganese

Production from many localities in Virginia accounted for more than half the annual production of the United States during many of the years from 1867 to 1914. From 1867 through 1950, more than 540,000 long tons of high-grade manganese and manganiferous ores were mined in Virginia. Production has been from the Valley and Ridge, the Blue Ridge, and the Piedmont districts. In 1952 the government began stockpiling and subsidizing manganese. As a result, mining resumed in Virginia until 1959. In 1955, the General Services Administration began stockpiling foreign and domestic manganese ore at Riverville in Amherst County and in July 1982 there were more than 315,000 short tons of material present. Sixty-two entries from MRDS have been plotted in Figure 5.

Aluminum

Bauxite (aluminum oxide) was discovered and first mined in 1915 near Roanoke, Virginia. Later production was from the Spottswood district in Augusta County where, from 1940-1944, more than 25,000 long tons of bauxite, valued at almost $164,000 at that time, were produced. Some intermittent production occurred in 1945 and early 1946. All the mines were shut down in December 1946 because of the increase in imports combined with the sharp decline in demand for domestic bauxite. Several resource areas have been noted in the Augusta-Rockbridge county area in the Valley and Ridge province (Warren, 1965) but are not economical because of their high silica content. Two important entries from MRDS have been plotted in Figure 6.

Kyanite

The first recorded production of kyanite, an aluminum silicate, worldwide, was in Prince Edward County, Virginia, in the 1920's. Currently, the State produces approximately 45 percent of the world's kyanite. Calcined kyanite, or mullite, is formed when kyanite is heated between 1,320 to 1,380 C and remains dimensionally and chemically stable during subsequent firings not exceeding 1,810 C. The material is a good refractory with a pyrometric cone equivalent of 36 to 37. Products, which are sold in 35-, 48-, 100-, 200-, and 325-mesh sizes, resist cracking, warping, slagging, and deformation from high temperature. Kyanite is used by the refractory, ceramic, glass, metallurgical, and foundry industries. The material is valued at more than $100/ton.

Kyanite Mining Corporation operates two surface mines and processing plants at Willis Mountain and East Ridge in Buckingham County in central Virginia. Approximately 40 percent of the output is shipped through the port of Hampton Roads to worldwide customers. The company produces approximately 90,000 short tons per year (Dixon, 1980). Four entries from MRDS are plotted in Figure 6.

Emery

Emery is an intergrowth of spinel, corundum, and magnetite that has an important use as an abrasive. The material has a specific gravity of 4.2 and contains more than 56 percent alumina. Two occurrences have been recently noted in Henry County in the southern Piedmont province of Virginia. These two occurrences are in MRDS and are plotted in Figure 6. An emery prospect is present west of Whittles Station in Pittsylvania County where two openings about 300 feet apart and 20 feet deep were made.

Nickel and Cobalt

Nickel and cobalt have been indicated in assays of some pyrrhotite-bearing rocks in Floyd County; violarite and pentlandite which are nickel-bearing minerals have been noted. The primary host for the mineralization is a pyroxene-rich, grabbroic dike. Samples from manganese mines and prospects in the Valley and Ridge province (Augusta, Bath, Bland, Giles, Rockbridge, Smyth, Tazewell, and Wythe counties) indicate the presence of cobalt up to approximately 2.5 percent. In 1982-1983, several cobalt- and nickel-bearing minerals were noted near occurrences of soapstone in Albemarle and Nelson counties as well as Orange County. Sixteen entries from MRDS for nickel-cobalt are plotted in Figure 7.

Arsenic

Arsenopyrite (iron-arsenic sulfide) was mined at the old Brinton mine in Floyd County for production of white arsenic. Mining at the site was intermittent between 1902 and 1917; total production

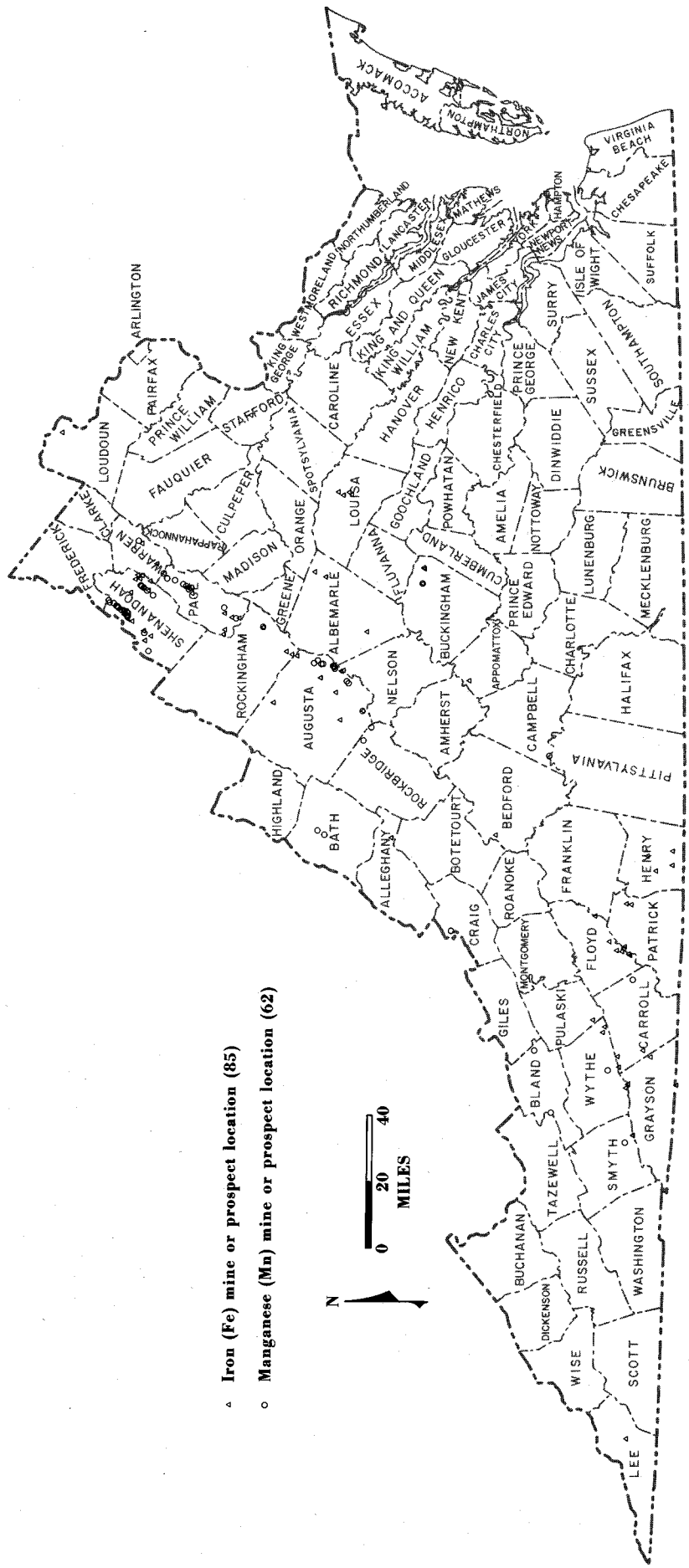

Figure 5. Deposits and occurrences stored in MRDS for iron and manganese.

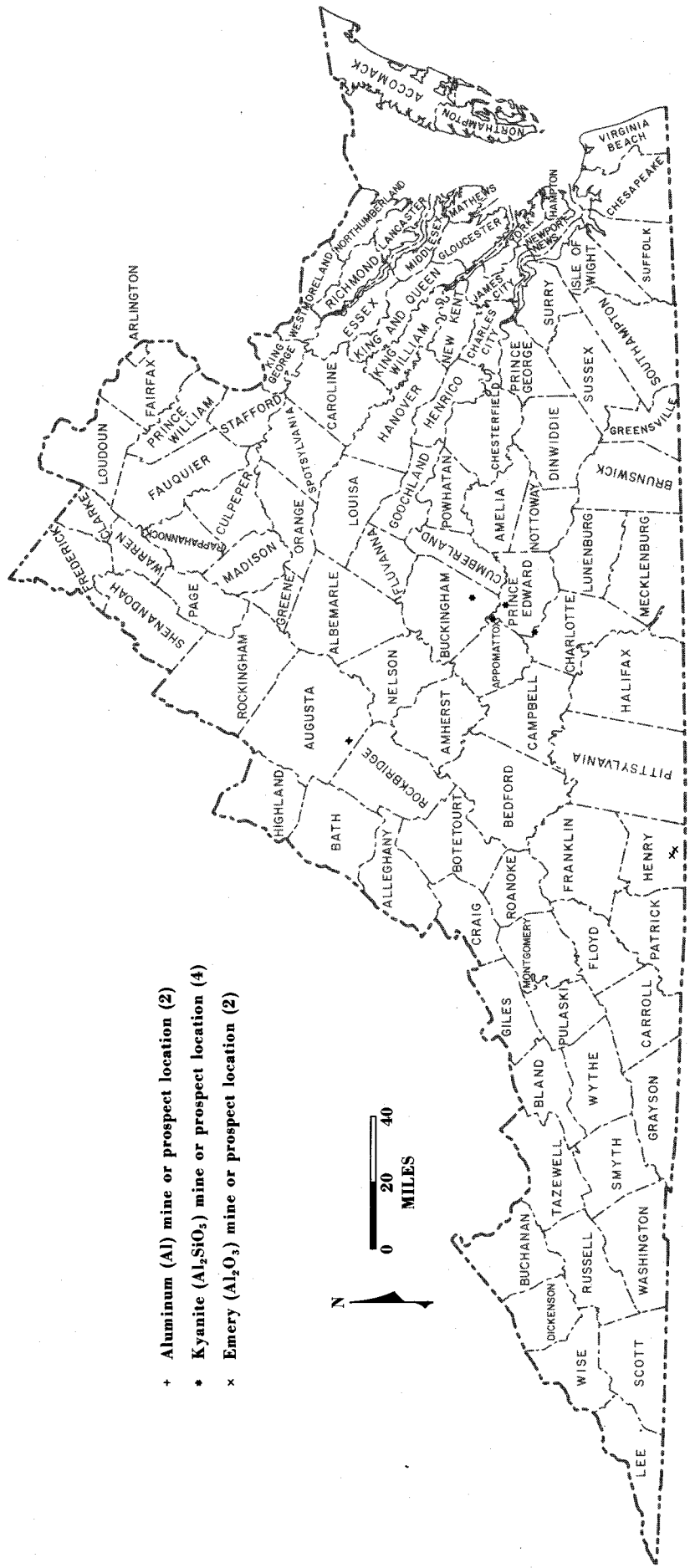

Figure 6. Deposits and occurrences stored in MRDS for aluminum, kyanite, and emery.

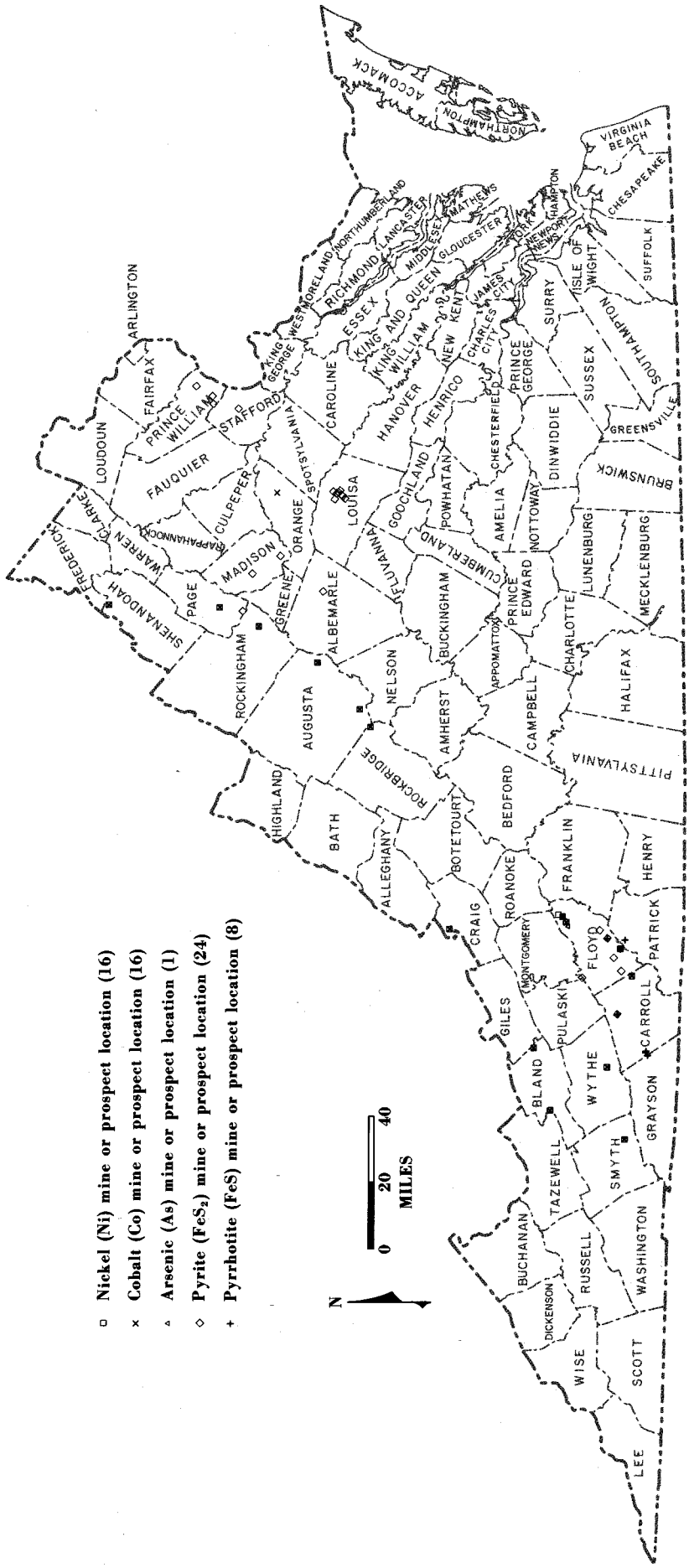

Figure 7. Deposits and occurrences stored in MRDS for nickel, cobalt, arsenic, and pyrite-pyrrhotite.

was 75-100 short tons. An exploration shaft was sunk in 1918, and it is reported that a quantity and quality of ore was noted to encourage more extensive mining (Dietrich, 1959). Dietrich also noted that if there were a shortage of arsenic, this deposit would warrant further exploration. Twenty-nine occurrences of arsenic are stored in MRDS for Virginia; only the Brinton mine is plotted in Figure 7.

Pyrite-pyrrhotite

Iron-sulfide minerals, pyrite and pyrrhotite, were mined from 1865 through the early 1920's in Carroll, Louisa, Prince William, and Stafford counties. The major mines that produced pyrite/pyrrhotite in Virginia are the Arminius, Austin Run, Betty Baker, Boyd-Smith, Cabin Branch, Iron Ridge, and Sulfur mines. Production of pyrrhotite continued until the early 1970's on a small scale from a surface pit in Carroll County. Poole (1973) notes that in over one half a century, 5,807,000 short tons of pyrrhotite have been mined from this area. Reserves of sulfides, mainly pyrite, in the Mineral district of Louisa County total 10 million short tons (Gair, 1978). Reserves of sulfides, in pyrrhotite in Carroll and Grayson counties, have been estimated to be as much as 180-200 million short tons (Gair, 1978). Twenty-four pyrite entries and eight pyrrhotite entries from MRDS are plotted in Figure 7.

Tantalum

Several pegmatite deposits in Powhatan County have been investigated in 1979 and 1980 because of the price changes in tantalite (tantalum oxide) from approximately $65/lb. in 1979 to $100/lb. in 1980, to $85/lb. in July 1981, to an average of $40/lb. in 1982.

In the past, minerals of the columbite-tantalite series have been noted in Amelia, Bedford (400-500 pounds of ore were produced), Charlotte, Powhatan, Prince Edward, and Spotsylvania counties. The discovery of wodginite (Virginia Minerals, 1983), a tin-rich, tantalum oxide mineral, in the Herbb No. 2 mine in Powhatan County in late 1982 and the projected use of tantalum in the electrical industry has spurred company interest in this commodity. Thirteen occurrences are noted in MRDS and are plotted in Figure 8.

Tin

Cassiterite (tin oxide) occurs in several locations in Virginia and was mined at the Irish Creek mine in Rockbridge County. Less than 1000 short tons of ore were taken from the mine. The ore grade is reported as 0.11 to 3.78 percent tin. Recent exploration work has taken place at the site. The discovery of wodginite at the Herbb No. 2 mine in Powhatan County indicates the possible occurrence of additional tin resources in Virginia. MRDS contains four entries on tin and they are plotted in Figure 8.

Titanium

The titanium minerals, rutile and ilmenite, are found in pegmatites, and were mined in Hanover County by Metal and Thermit Corporation in 1957 and in the 1960's by the renamed Metal and Thermit Chemicals, Inc. Heavy mineral production was discontinued in 1968 because the titanium mineralization was not sufficient for the product to be produced economically.

The most significant titanium deposit in Virginia is the Roseland district which occurs east of the Blue Ridge mountains in the northwestern portion of the Piedmont province, in Amherst County and Nelson County (Herz, 1970). Titanium was produced from the deposit since the 1930's until 1971. Indications are that there remain reserves in excess of 20 million short tons of ore averaging 7 percent titanium dioxide.

Ilmenite and rutile have also been recovered from numerous saprolite zones across the State, and have been found to occur with pegmatites in Goochland, Roanoke, Rockbridge, and other counties. MRDS contains 23 entries on titanium and they are plotted in Figure 8.

Tungsten

The U. S. Bureau of Mines, during exploratory work in June 1943, discovered an extension of the Hamme (North Carolina) tungsten district into Mecklenburg County, Virginia. Quartz veins on the Kimball tract which joins the Gladys N. Taylor property to the north were trenched and drilled by the R. C. Lassiter interests of Raleigh, North Carolina, in late 1943 with disappointing results. From August 1944 through March 1945, the quartz veins, which pinch, swell, split, and have an en echelon arrangement, were examined by the U. S. Bureau of Mines. The Taylor tract showed the only promise. The vein, with an average width of 18 inches, is in a granite gneiss and was subsequently intermittently uncovered by trenching for 560 feet. Two test pits were dug to the east. Ten diamond drill holes were put down from points east of the vein which itself has a dip of 42°E (Argyle, 1946). Drilling indicated an inclined vein depth of 44 feet, but did not intersect any ore. Samples, along the vein and from the test pits, indicate that mineralization is spotty, and ranges from 0.07 to 10.21 percent tungsten trioxide (WO_3). Six occurrences are noted in MRDS and are plotted in Figure 8.

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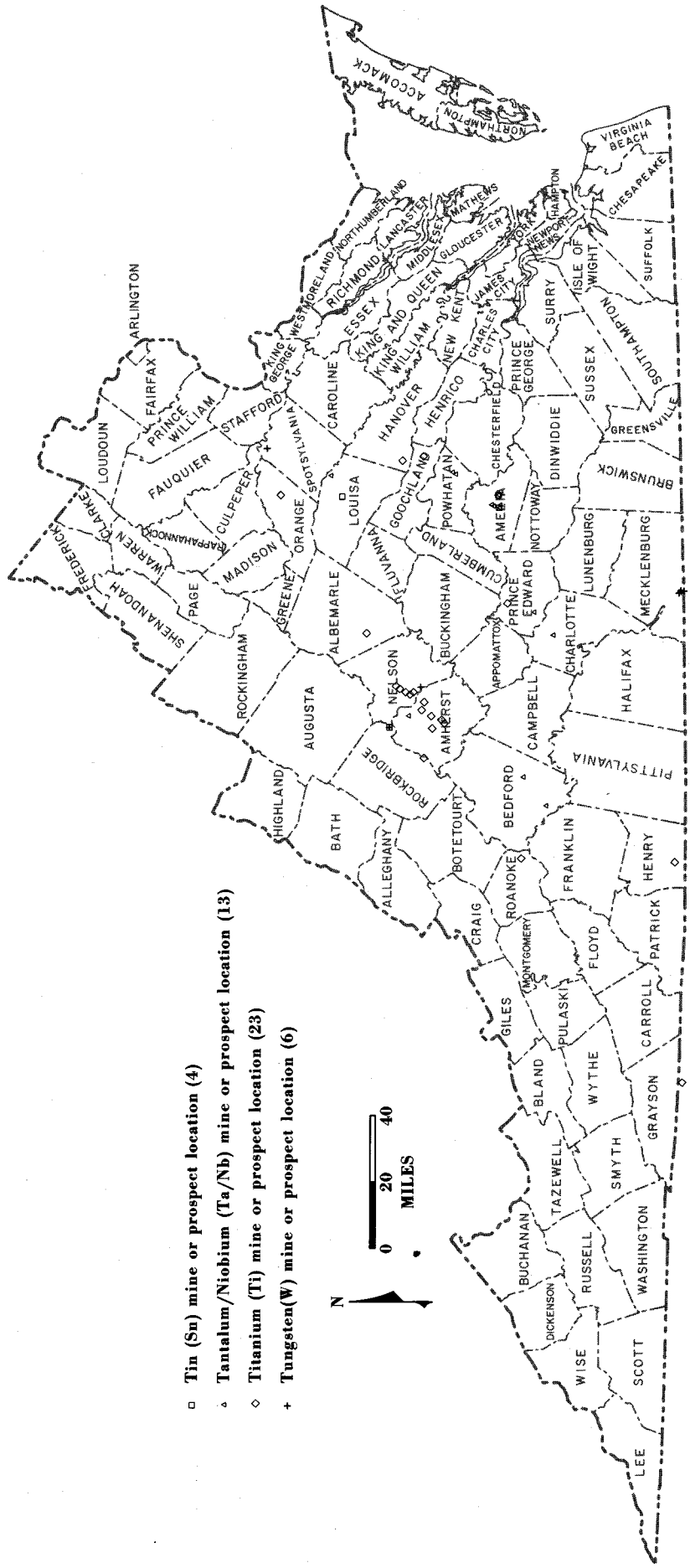

Figure 8. Deposits and occurrences stored in MRDS for tantalum, tin, tungsten, and titanium.

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APPENDIXES

Appendix I. Typical MRDS-VIRGINIA record output.

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CRIB MINERAL RESOURCES FILE 12

                                        RECORD IDENTIFICATION
                                          RECORD NO............  W000421
                                          RECORD TYPE..........  X1M
                                          COUNTRY/ORGANIZATION.  USGS
                                          INFORMATION SOURCE...  13
                                          FILE LINK ID.........  VDMR
                                          DEPOSIT NO...........  GK-019
                                          MAP CODE NO. OF REC..

                                        REPORTER
                                          NAME..........................  WRIGH
                                            T, NANCY A.
                                          DATE..........................  72
                                            05
                                          UPDATED.......................  79
                                            07
                                          BY............................  MEINT
                                            ZER, ROBT. E.; (LE VAN, D. C.)

 NAME AND LOCATION
   DEPOSIT NAME................  VAUCLUSE MINE
   SYNONYM NAME................  GRIMES MINE, GRYMES MINE

   MINING DISTRICT/AREA/SUBDIST.  GOLD-PYRITE BELT

   COUNTRY CODE................  US
   COUNTRY NAME:  UNITED STATES

   STATE CODE..............  VA
   STATE NAME:  VIRGINIA

   COUNTY..................  ORANGE
   DRAINAGE AREA...........  02 RAPPAHANNOCK RIVER
   PHYSIOGRAPHIC PROV.......  02 PIEDMONT
   LAND CLASSIFICATION......  01

   QUAD SCALE          QUAD NO OR NAME
    1: 24000             CHANCELLORSVILLE, VA

   LATITUDE            LONGITUDE
    38-21-14N            077-43-44W

   UTM NORTHING        UTM EASTING         UTM ZONE NO
    4248390.             261560.              +18

   ALTITUDE.. 300  FT (91 M)

   POSITION FROM NEAREST PROMINENT LOCALITY:  3.8 KM (2.4 MI) NW OF WILDERNESS
     CORNER.

   LOCATION COMMENTS: 0.24 KM (0.15 MI) ALONG A WOODS ROAD OFF WEST SIDE OF
      STATE ROAD 667 EXTENDED, 2.7 KM (1.7 MI) BY STATE ROAD 667 NNE OF
      JUNCTION WITH STATE HWY 3.


  COMMODITY INFORMATION
    COMMODITIES PRESENT..........  AU   PYR  CU   PB

      PRODUCER(PAST OR PRESENT):
                 MAJOR PRODUCTS.. AU

      OCCURRENCE(S) OR POTENTIAL PRODUCT(S):
                 POTENTIAL.......
                 OCCURRENCE...... PYR  CU   PB

    ORE MATERIALS (MINERALS,ROCKS,ETC.):
      NATIVE GOLD, AURIFEROUS PYRITE, MARCASITE, CHALCOPYRITE, GALENA
```

MINERAL ECONOMICS FACTORS

ECONOMIC COMMENTS:
IN 1930'S TOTAL DIRECT MINING, MILLING, AND MARKETING EXPENSE PER TON WAS $4.56

EXPLORATION AND DEVELOPMENT

STATUS OF EXPLOR. OR DEV.	6
YEAR OF DISCOVERY.....	1832
NATURE OF DISCOVERY.....	A
YEAR OF FIRST PRODUCTION.	1832
PRESENT/LAST OWNER.....	A P GAYLE AND GOODWIN BROS LUMBER CO
PRESENT/LAST OPERATOR....	VIRGINIA MINING CORP

WORK DONE BY OTHER ORGANIZATIONS

	YEAR	WORK TYPE	ORGANIZATION AND RESULTS
1)	1832	DIREXPL	UNKNOWN ORGANIZATION (LIBERTY MINING CO BEGINNING 1844): DEVELOPED PLACER AND UPPER WORKINGS
2)	1935	DIREXPL	VIRGINIA MINING CORP: DEVELOPED LOWER WORKINGS AND CONDUCTED EXPLORATORY DRILLING.
3)	1974	RECON	VA DIV MIN RES: INSPECTED SITE.

EXPLOR. AND DEVELOP. COMMENTS:
WHEN FIRST WORKED, MINE OPERATED ON PLACERS AND DECOMPOSED SURFACE PARTS OF THE MINERALIZED ZONES. IN 1844, LIBERTY MINING CO. OF LONDON PURCHASED MINE AND BEGAN UNDERGROUND DEVELOPMENT. 6 SHAFTS AND 50-TON MILL OPERATED FROM 1854 TO CIVIL WAR. HENRY FORD PURCHASED PROPERTY IN 1933-34 AND MOVED MACHINERY TO HIS MUSEUM IN DEARBORN, MICH. MINE PURCHASED BY RAPIDAN GOLD CORP. IN 1934 AND SOLD TO V-M CORP. IN 1935. V-M CORP. DEEPENED WORKINGS AND CARRIED OUT DIAMOND DRILLING BELOW 90 M. V-M CORP. CLOSED AND SOLD MINE AT AUCTION IN DEC. 1938. TOTAL DIAMOND DRILLING AMOUNTED TO ABOUT 1370 M. IN 1865 CREDNER REPORTED A ROASTING HOUSE, WITH 4 STILL UNUSED REVERBERATORY FURNACES, A CRUSHING HOUSE WITH 6 PAIRS OF ROLLERS, AND 2 ENGINES (ONE OF WHICH WAS 180 HORSEPOWER), A STAMP-MILL WITH 30 STAMPS, AND A WHOLE ROW OF SHAKING TABLES IN EXCELLENT SHAPE ON SITE.

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:
VEIN/SHEAR ZONE, PLACER
FORM/SHAPE OF DEPOSIT: POD/LENS

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT.....	SMALL	
DEPTH TO TOP	0	M
MAX LENGTH.....	61.0	M
MAX THICKNESS.....	15.2	M
STRIKE OF OREBODY....	N40-60 DEG. E	
DIP OF OREBODY.....	80 DEG. NW - 80 DEG. SE	
PLUNGE OF OREBODY....	NE	
DIRECTION OF PLUNGE..	30-70 DEG.	

COMMENTS(DESCRIPTION OF DEPOSIT):
AVG THICKNESS: 1.2 M, AVG LENGTH: 15 2 M SOME PODS CUT ACROSS SCHISTOSITY. LENSES CONFORM TO FLUTING IN SHEAR ZONE

DESCRIPTION OF WORKINGS
SURFACE AND UNDERGROUND

DEPTH OF WORKINGS BELOW SURFACE.	92.9	M
LENGTH OF WORKINGS.....	662	M **

COMMENTS(DESCRIP. OF WORKINGS):
** THIS FIGURE INCLUDES BOTH DRIFTS AND CROSSCUTS.IN 1974, TWO LARGE OPEN PITS, NUMEROUS SMALL CAVED PITS, CONCRETE FOUNDATIONS, AND COVERED DUMPS WERE SEEN. ADDITIONAL WORKINGS AT 15.2 M, 33.5 M, AND 61.6 M. IN 1865 CREDNER REPORTED SEVERAL SHAFTS HAD BEEN SUNK AND TWO OPEN CUTS, EACH 24 M (80 FT) DEEP, 91.5 M (300 FT) LONG, AND 7.6 M (25 FT) WIDE, HAD BEEN OPENED. THE VAUCLUSE SHAFT WAS 67 M (220 FT) DEEP WITH LEVELS AT 15.2, 33.5, AND 61.3 M (50, 110, AND 201 FT). THE 33.5 M LEVEL CONTAINED AT LEAST 84 M (275 FT) OF WORKINGS AND THE 61.3 M LEVEL CONTAINED 267 M (876 FT) OF DRIFTS AND CROSS CUTS IN JANUARY OF 1936.

PRODUCTION
YES
SMALL PRODUCTION

ANNUAL PRODUCTION (ORE,COMMOD.,CONC.,OVERBURD.)

ITEM	ACC	AMOUNT	THOUS.UNITS	YEAR	GRADE,REMARKS
1 ORE AU	ACC	0000.556	TOZ	1853	AMOUNT IS FOR ONLY AN 80 DAY PERIOD IN 1853

CUMULATIVE PRODUCTION (ORE,COMMOD.,CONC.,OVERBUR.)

ITEM	ACC	AMOUNT	THOUS.UNITS	YEAR	GRADE,REMARKS
15 AU	ACC	004.3053	TOZ	1935-1938	
16 ORE	ACC	0026.452	TONS	1935 - 1938	ORE GROSS VALUE OF
17 ORE AU	SML			1832-1860	AU 0.4 TOZ/TON

SOURCE OF INFORMATION (PRODUCTION).. BASS (1940)

PRODUCTION COMMENTS.... DIRECT MINING, MILLING, AND SHIPPING COST PER TON FROM 1935 TO 1938 WAS $4.56. IN DECEMBER, 1853, THE MILL WAS CRUSHING 50 TONS A DAY AND THE AVERAGE VALUE OF THE ORE WAS ESTIMATED TO BE $8 PER TON.

RESERVES AND POTENTIAL RESOURCES

ITEM	ACC	AMOUNT	THOUS.UNITS	YEAR	GRADE OR USE
1 ORE	SML			1972	

SOURCE OF INFORMATION (RESERVES/POT RESOURCES).. BASS (1940)

COMMENTS (RESERVES/POT RESOURCES).. THERE IS PROBABLY A SMALL AMOUNT OF ORE AT THE SITE. ALL KNOWN COMMERCIAL BODIES ABOVE 91 M LEVEL ARE EXHAUSTED, HOWEVER CORE DRILLING BELOW THIS LEVEL INDICATE SAME GEOLOGICAL/MINERALOGICAL CONDITIONS BELOW

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... EPAL
HOST ROCK TYPES..... QUARTZ-SERICITE-CHLORITE SCHIST

AGE OF ASSOC. IGNEOUS ROCKS.. TRI
IGNEOUS ROCK TYPES..... DIABASE

PERTINENT MINERALOGY..... QUARTZ, CALCITE, ANKERITE, SERICITE, RIOTITE, CHLORITE

IMPORTANT ORE CONTROL/LOCUS.. SHEAR ZONE

GEOLOGICAL DESCRIPTIVE NOTES. THIS MINE IS ON THE SAME SHEAR ZONE AS THE MELVILLE MINE.

GEOLOGY (SUPPLEMENTARY INFORMATION)

REGIONAL GEOLOGY
MAJOR REGIONAL STRUCTURES.. NORTHEAST-SOUTHWEST TREND, COLUMBIA SYNCLINE
TECTONIC SETTING..... PIEDMONT

LOCAL GEOLOGY
NAMES/AGE OF FORMATIONS,UNITS,OR ROCK TYPES
1) NAME: CHOPAWAMSIC FORMATION
AGE: EPAL
2) NAME: DIKE
AGE: TRI

NAMES/AGE OF IGNEOUS UNITS OR IGNEOUS ROCK TYPES
1) NAME: DIKE
AGE: TRI

SIGNIFICANT LOCAL STRUCTURES:
SHEAR ZONE UP TO 12 M WIDE. STRIKE AND DIP OF SHEAR ZONE IS ABOUT SAME AS SCHISTOSITY, N40-60DEGE, 80 DEG NW THRU VERTICAL TO 80 DEG SE.

GEOLOGICAL PROCESSES OF CONCENTRATION OR ENRICHMENT:
MINERAL SOLUTIONS AS REPLACEMENT AND IN UPPER PART OF DEPOSIT, SECONDARY ENRICHMENT.

COMMENTS (GEOLOGY AND MINERALOGY):
THE QUARTZ BODIES LIE ALONG THE WALLS OF THE SHEAR ZONE; SHEAR ZONE CONTINUOUS, BUT INDIVIDUAL ORE BODIES ARE NOT. SOME POST-ORE MOVEMENT INDICATED. DIABASE DIKE LOCATED ABOUT 0.4 KM TO THE SOUTH.

GENERAL COMMENTS
A LARGE PART OF VIRGINIA'S GOLD PRODUCTION BETWEEN 1833 AND 1860 PROBABLY CAME FROM THE VAUCLUSE MINE. THE MINE WAS FIRST OPERATED AS A PLACER MINE. THIS SAME SHEAR ZONE AS AT MELVILLE MINE ABOUT 1.5 KM TO NE.

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Appendix II. Listing of select mineral locations in MRDS-VIRGINIA.

RECORD NO.	MINE	COMMODITIES							COUNTY	LAT.	LONG.
W032000	COUNTY LINE BRANCH PROSPECT	FE							ALBEMARLE	38-10-01N	078-19-08W
W031238	CULPEPER BRANCH PROSPECT	BA							ALBEMARLE	38-01-09N	078-25-51W
W031302	FABER MINE	PB	ZN	AG	CU	PYR	PYRI		ALBEMARLE	37-50-14N	078-42-22W
W031219	NORTH GARDEN MINE	FE	TI						ALBEMARLE	37-56-33N	078-38-52W
W031200	PROFFIT MINE	PYR	PYR1						ALBEMARLE	38-06-42N	078-25-39W
W031220	STONY POINT MINE	FE	CU	PYR					ALBEMARLE	38-07-08N	078-20-40W
W031170	IVY CREEK PROSPECT	AU							ALBEMARLE-NELSO	37-48-21N	078-41-43W
W031175	BERRY MINE	MIC1	MIC2	FLD	TA	NB			AMELIA	37-21-18N	077-58-14W
W031176	CHAMPION MINE	MIC2	MIC1	BE	TA	NB	AS		AMELIA	37-22-56N	077-57-57W
W031177	MOREFIELD MINE	FLD	MIC2	MIC1	BE	TA	NB		AMELIA	37-21-38N	077-54-51W
W031178	PINCHBECK NO. 1 MINE	MIC1	MIC2	FLD	CLY3	TA	NB		AMELIA	37-23-26N	077-57-48W
W031179	RUTHERFORD MINES	FLD	MIC1	MIC2	GEM	CU	PYR		AMELIA	37-21-28N	077-58-55W
W031188	AMERICAN CYANIMID WOOD PIT	TI	P	MPG					AMHERST	37-42-31N	079-04-14W
W031189	BUFFALO RIVER PROSPECT	TI	P	MPG					AMHERST	37-39-52N	079-10-22W
W031190	BURLEY PROSPECT	TI	P	MPG	CE	RAE	TH		AMHERST	37-37-20N	079-07-33W
W030842	CHRISTIAN TRACT MINE	CU							AMHERST	37-30-43N	079-00-36W
W030838	FOLLY MINE	CU							AMHERST	37-33-41N	078-58-07W
W031191	GILLESPY PROSPECT	TI	P	MPG					AMHERST	37-36-39N	079-08-40W
W031180	LITTLE FRIAR MOUNTAIN MINE	RAE	TA	NB	FLD				AMHERST	37-46- N	079-06- W
W031192	SMITH PROSPECT	TI	P	MPG					AMHERST	37-40-09N	079-06-20W
W031193	U.S. TITANIUM CO. MINE	TI	P	MPG					AMHERST	37-42-00N	079-01-30W
W017365	LYNCHBURG	FE							AMHERST-APPOMAT	37-30-00N	078-55-00W
W031169	APPOMATTOX RIVER PROSPECT	AU	PYR						APPOMATTOX	37-21-04N	078-40-39W
W030839	MOORE MINE	CU							APPOMATTOX	37-29-29N	078-53-12W
W032009	ALLEN MINE	AL1							AUGUSTA	38-00-52N	079-13-38W
W032013	AUGUSTA MINE	MN							AUGUSTA	38-09-05N	078-48-01W
W000671	CRIMORA MINE	MN	CO	NI					AUGUSTA	38-08-23N	078-49-03W
W032017	CROZIER MINE	FE							AUGUSTA	38-03-21N	079-07-34W
W031253	EARHART PROSPECT	BA							AUGUSTA	37-58- N	079-12- W
W032002	FISHERSVILLE MINE	FE	MN						AUGUSTA	38-04-42N	078-58-32W
W032010	HARRIS MINE	AL1							AUGUSTA	38-00-46N	079-13-31W
W032015	HERMITAGE PROSPECT	FE							AUGUSTA	38-08-32N	078-53-52W
W032001	INCH BRANCH PROSPECT	MN	FE						AUGUSTA	38-01-18N	078-55-34W
W001478	LOFTON BAUXITE & KAOLIN	AL1	MN						AUGUSTA	37-57-11N	079-14-36W
W032014	MEADOW RUN PROSPECT	MN							AUGUSTA	38-10-14N	078-48-56W
W032004	MIKES KNOB MINE	MN							AUGUSTA	38-04-56N	078-50-36W
W032016	MILLER KNOB PROSPECT	MN	FE						AUGUSTA	38-01-47N	078-54-57W
W032012	OLD DOMINION MINE	MN	FE						AUGUSTA	38-07-59N	078-49-07W
W032003	RAMSEY MOUNTAIN PROSPECTS	MN							AUGUSTA	38-05-16N	078-49-48W
W032005	RAMSEY MOUNTAIN SOUTH PROSPECT	MN	FE						AUGUSTA	38-04-52N	078-49-45W
W032006	STEELE RUN PROSPECT	FE							AUGUSTA	38-03-20N	078-51-40W
W032007	U.S. HIGHWAY 250 PROSPECT	FE							AUGUSTA	38-02-46N	078-51-35W
W031210	VESUVIUS MINE	MN	FE	CO	NI				AUGUSTA	37-54-43N	079-10-18W
W000670	LYNDHURST-VESUVIUS	MN	CO	NI	FE				AUGUSTA AND ROC	37-57-30N	079-04-30W
W032008	BUFFALO GAP MINES	FE							AUGUSTA CO.	38-10-35N	079-14-39W
W032023	ORE BANK MINE	FE							AUGUSTA CO.	38-20-48N	079-01-55W
W032018	GILLETT PROSPECT	MN							BATH	38-09-08N	079-43-60W
W032019	STEPHENSON MINE	MN							BATH	38-07-26N	079-45-12W
W017364	BLUE RIDGE	FE							BEDFORD	37-23-00N	079-45-00W
W031174	HOLLIDAY PROSPECT	AU							BEDFORD	37-05-18N	079-26-37W
W031181	MITCHELL MINE	FLD	TA	NB	PYR				BEDFORD	37-16-18N	079-26-20W
W031239	SAXTON-MCMILLAN MINES	BA	PB	ZN	PYR				BEDFORD	37-22- N	079-39- W
W031182	WHEATLEY MINE	FLD	TA	NB	MIC				BEDFORD	37-10-30N	079-35-52W
W031303	KIMBERLING AND NOBUSINESS CREE	ZN	PB						BLAND	37-11- N	080-58- W
W000668	STANGE, ARMS, DISMAL CREEK	MN	CO	NI					BLAND	37-12-01N	080-55- W
W001177	SUITOR(EAST AND WEST)	CO	NI	MN					BLAND	37-07-30N	081-15-00W
W031304	BONSACK PROSPECT	ZN	CU	PYR					BOTETOURT	37-20- N	079-52- W
W031242	CALDWELL PROSPECT	BA	ZN						BOTETOURT	37-29-44N	079-56-12W
W031243	CRUSH MINE AND PROSPECT	BA							BOTETOURT	37-33-37N	079-51-26W
W031244	GUSLER-AUSTIN MINE	BA	PYR	FE	CU				BOTETOURT	37-29-16N	079-57-30W
W031245	HUFFMAN PROSPECT	BA							BOTETOURT	37-29-42N	079-57-59W
W031246	REYNOLD MINE	BA							BOTETOURT	37-29-02N	079-58-22W
W031247	RUCKER MINE	BA	FE						BOTETOURT	37-23-07N	079-53-16W
W031305	TROUTVILLE PROSPECT	ZN	PB						BOTETOURT	37-26- N	079-52- W
W031248	WILLIAMSON MINE	BA							BOTETOURT	37-33-27N	079-54-21W
W028992	ANACONDA MINE	CU	PYR						BUCKINGHAM	37-36-37N	078-26-57W
W028989	ANACONDA MINE	AU	PYR						BUCKINGHAM	37-36-50N	078-24-20W
W028988	ANDERSON MINE	AU							BUCKINGHAM	37-27-55N	078-34-06W
W028987	APPERSON MINE	AU							BUCKINGHAM	37-34-02N	078-27-16W
W028968	BONDURANT MINE	AU	PYR						BUCKINGHAM	37-27-10N	078-35-24W
W028967	BUCKINGHAM MINE	AU	PYR						BUCKINGHAM	37-33-01N	078-27-59W
W029534	BUMPUS PROPERTY PROSPECT	FE	MN						BUCKINGHAM	37-42- N	078-23- W
W028966	BURNETT MINE	AU	PYR						BUCKINGHAM	37-33-42N	078-27-34W
W028986	COPAL PROSPECT	AU							BUCKINGHAM	37-27-07N	078-33-50W
W028965	DUNCAN PROSPECT	AU							BUCKINGHAM	37-35-19N	078-26-19W
W028964	FLOOD MINE	AU							BUCKINGHAM	37-26-29N	078-36-05W
W028970	FORD MINE	AU	CU						BUCKINGHAM	37-41-37N	078-22-56W
W028990	GILLIAM MINE	AU	PYR						BUCKINGHAM	37-25-59N	078-36-38W
W028991	GREELEY MINE	AU							BUCKINGHAM	37-34-45N	078-23-23W
W028993	HUDGINS PROSPECT	ZN	CU	PB	AU	AG	PYR		BUCKINGHAM	37-40-48N	078-18-30W
W028969	JOHNSON MINE	CU	FE	PYR	ZN	PB	AU		BUCKINGHAM	37-41-36N	078-18-05W
W028994	LIGHTFOOT MINE	AU	CU						BUCKINGHAM	37-42-10N	078-22-32W
W028971	LONDON AND VIRGINIA MINE	AU	AG	CU	ZN	PB	PYR		BUCKINGHAM	37-33-05N	078-27-52W
W028972	MARGARET MINE	FE	PYR	CU	ZN	PB	AU		BUCKINGHAM	37-41-46N	078-17-53W
W028973	MCKENNA MINE	FE	CU	PYR	ZN	PB	AU		BUCKINGHAM	37-41-45N	078-17-55W
W028974	MORROW MINE	AU	CU	AG	PYR	TE			BUCKINGHAM	37-29-44N	078-29-37W
W028975	MORTON MINE	AU							BUCKINGHAM	37-37-22N	078-24-27W
W029535	PHILADELPHIA MINE	AU							BUCKINGHAM	37-33- N	078-28- W
W028995	ROUGH AND READY MINE	AU	PYR						BUCKINGHAM	37-37-01N	078-24-41W
W028983	SEAY MINE	AU	PYR						BUCKINGHAM	37-29-50N	078-29-46W
W031167	TURPIN CREEK MINE	AU	PYR	FE					BUCKINGHAM	37-34-07N	078-28-41W
W028984	WILLIAMS MINE	AU	PYR						BUCKINGHAM	37-32-40N	078-28-28W
W028985	WILLIS CREEK MINE	AU							BUCKINGHAM	37-26-27N	078-37-14W
W007514	WILLIS MOUNTAIN MINE	KYN	SDG						BUCKINGHAM	37-28-26N	078-27-53W
W007515	WOODS MOUNTAIN KYN OCCURRENCE	KYN							BUCKINGHAM	37-23-08N	078-34-36W
W031275	ANTHONY MINE	BA							CAMPBELL	37-11- N	079-16- W
W031211	BISHOP MINE	MN	CU	PYR	FE	AU			CAMPBELL	37-09-02N	079-19-09W
W031276	BRAGG MINE	BA							CAMPBELL	37-08- N	079-20- W

W031277	BURTON MINE	BA	MN					CAMPBELL	37-12-53N	079-16-31W
W031278	CARSON MINE	BA	PYR	FE				CAMPBELL	37-20-13N	079-05-01W
W031168	CONCORD MINE	AU	PYR					CAMPBELL	37-20-48N	078-59-23W
W031279	CUNDIFF PROSPECT	BA	PYR	CU	FE			CAMPBELL	37-09- N	079-20- W
W031280	GRASTY MINE	BA						CAMPBELL	37-09- N	079-18- W
W031281	HADEN MINE	BA						CAMPBELL	37-13- N	079-17- W
W031282	HEWITT MINE	BA						CAMPBELL	37-12-15N	079-16-54W
W031283	LINDSAY MINE	BA						CAMPBELL	37-21- N	079-04- W
W031284	MATTOX MINE	BA						CAMPBELL	37-10-15N	079-18-12W
W031285	MERRITT MINE	BA						CAMPBELL	37-10-06N	079-18-35W
W031286	NEIGHBOURS PROSPECT	BA						CAMPBELL	37-19- N	079-07- W
W031287	PHILLIPS MINE AND PROSPECT	BA						CAMPBELL	37-12- N	079-15- W
W031288	SAUNDERS MINE	BA	PYR					CAMPBELL	37-13- N	079-14- W
W031289	WOOD PROSPECT	BA						CAMPBELL	37-08-42N	079-17-09W
W030840	ANN ELIZA MINE	CU	ZN	PB	PYR1	FE	AS	CARROLL	36-49-45N	080-44-41W
W030841	ANN PHIPPS MINE	CU	ZN	PB	PYR1	FE	AS	CARROLL	36-47-45N	080-47-60W
W030843	ANNA MARY MINE	CU	ZN	PB	PYR1	FE	AS	CARROLL	36-49-55N	080-44-27W
W030844	BEN WHITE PROSPECT	CU	ZN	PB	PYR1	FE		CARROLL	36-49-20N	080-46-35W
W031212	BERGEN KEMP PROSPECT	MN	CU	NI	CO			CARROLL	36-46-45N	080-31-22W
W030845	BETTY BAKER MINE	CU	PYR1	PYR	FE	MGP	ZN	CARROLL	36-50-28N	080-43-45W
W030846	BLAIR, T., MINE	CU	ZN	PB	PYR1	FE	AS	CARROLL	36-44-52N	080-53-24W
W030847	BROWN AND STEPHENSON MINE	CU	ZN	PB	FE	PYR1	AS	CARROLL	36-48-26N	080-46-33W
W030848	COPPERAS HILL MINE	CU	ZN	PB	PYR1	FE	AS	CARROLL	36-45-19N	080-52-58W
W030849	CRANBERRY COPPER MINE	CU	ZN	PB	FE	PYR1	AS	CARROLL	36-48-17N	080-46-50W
W030850	DALTON HILL MINE	CU	ZN	PB	FE	PYR1	PYR	CARROLL	36-47-38N	080-46-09W
W030851	DAVIS PROSPECT	CU	ZN	PB	PYR1	FE	PYR	CARROLL	36-48- N	080-46- W
W030852	EARLY PROSPECT	CU						CARROLL	36-45- N	080-42- W
W030853	FAIRMONT COPPER MINE	CU	ZN	PB	PYR1	FE	AS	CARROLL	36-48-20N	080-46-40W
W030854	GALUP MINE	CU	ZN	PB	PYR1	FE	PYR	CARROLL	36-50-14N	080-44-03W
W030855	GARDNER MINE	CU	PYR					CARROLL	36-47- N	080-36- W
W030856	GOAD MINE	CU	PYR					CARROLL	36-47- N	080-36- W
W031206	GOSSAN HOWARD MINE	ZN	CU	PB	PYR1	FE	AS	CARROLL	36-42-31N	080-55-54W
W023155	GOSSAN MINE	PYR1	ZN	CU	PB	FE		CARROLL	36-42-55N	080-55-20W
W030857	IRON RIDGE MINE	PYR1	CU	FE	ZN	PB	AS	CARROLL	36-42-55N	080-55-29W
W030858	KINCANNON PROPERTY MINE	CU	ZN	PB	PYR1	FE	AS	CARROLL	36-48-49N	080-46-07W
W030859	KIRKBRIDE MINE	CU	ZN	PB	PYR1	FE	AS	CARROLL	36-47-11N	080-48-42W
W030861	LEONARD MINE	CU	FE	ZN	PB	PYR1	AS	CARROLL	36-41-52N	080-56-27W
W030863	LINEBERRY, J., MINE	CU	ZN	PB	PYR1	FE	AS	CARROLL	36-43-38N	080-54-26W
W030862	LINEBERRY, F., MINE	CU	FE	ZN	PB	PYR1	AS	CARROLL	36-43-59N	080-54-21W
W030864	MCGRADY, J.J., PROSPECT	CU						CARROLL	36-47- N	080-35- W
W030865	SARAH ELLEN MINE	CU	ZN	PB	PYR1	FE	AS	CARROLL	36-46-50N	080-49-12W
W030866	STONE PROSPECT	CU	ZN	PB	PYR1	FE	PYR	CARROLL	36-48- N	080-46- W
W030867	SUTPHAN MINE	CU	PYR					CARROLL	36-48- N	080-35- W
W030868	WHITMORE MINE	CU	PYR	FE				CARROLL	36-42- N	080-38- W
W030869	WILDCAT MINE	CU	ZN	PB	PYR1	FE	AS	CARROLL	36-47-59N	080-47-25W
W030870	WILKERSON TRACT MINE	CU	ZN	PB	PYR1	FE	AS	CARROLL	36-43-34N	080-54-40W
W030871	WOLFPIT MINE	CU	ZN	PB	PYR1	FE	AS	CARROLL	36-47-54N	080-47-38W
W030544	WOODLAWN PROSPECT	AU	PYR					CARROLL	36-43-09N	080-49-55W
W030872	YARNELL MINE	CU	ZN	PB	PYR1	FE	AS	CARROLL	36-43-20N	080-54-54W
K002908	GOSSAN LEAD DISTRICT	ZN	CU					CARROLL AND GRA	36-41- N	080-56- W
W030873	BARNES PROSPECT	CU	AG	AU				CHARLOTTE	36-44-52N	078-40-57W
W030874	CRENSHAW PROSPECT	CU						CHARLOTTE	36-58-51N	078-31-37W
W031183	CREWS PROSPECT	FLD	MIC1	MIC2	BE	TA	NB	CHARLOTTE	37-08-19N	078-40-34W
W030875	DANIEL'S PROSPECT	CU						CHARLOTTE	36-59-39N	078-32-37W
W030876	GILLIAM PROSPECT	CU						CHARLOTTE	37-00-03N	078-31-39W
W030877	GROVE MINE	CU						CHARLOTTE	37-01-08N	078-30-03W
W030878	MACLEAN SHAFT PROSPECT	CU						CHARLOTTE	36-45- N	078-41- W
W030879	MCNENY PROSPECT	CU						CHARLOTTE	36-59-03N	078-32-59W
W030880	WILSON PROSPECT	CU						CHARLOTTE	37-00-47N	078-30-49W
W031318	MARTIN AND WERTZ MINE	ZN	PB	PYR				CITY OF ROANOKE	37-14- N	079-59- W
W030881	FROGTOWN PROSPECT	CU	PB					CLARKE	39-05-29N	077-57-40W
W030882	PARIS PROSPECT	CU						CLARKE	39-01-52N	077-58-07W
W000669	PAINT BANK(PLUS SEVERAL PROSPE	MN	CO	NI				CRAIG	37-34-15N	080-16-20W
W000408	BATNA MINE	CU						CULPEPER	38-23-39N	077-53-40W
W030545	CHILDSBURG PROSPECT	AU						CULPEPER	38-24-59N	077-42-16W
W030546	CROMARTY MINE	AU						CULPEPER	38-24-02N	077-41-36W
W000412	CULPEPER MINE	AU						CULPEPER	38-22-30N	077-42-55W
W000407	CULPEPER PROSPECT	CU	FE					CULPEPER	38-26-02N	077-59-49W
W000415	DRY BOTTOM PROSPECT	AU						CULPEPER	38-23-12N	077-41-25W
W030547	EAGLE PROSPECT	AU						CULPEPER	38-22-58N	077-42-18W
W000414	ELLIS MINE	AU						CULPEPER	38-24-46N	077-41-32W
W000418	EMBREY MINE	AU						CULPEPER	38-22-15N	077-42-41W
W030548	FIELD'S MINE	AU						CULPEPER	38-25-11N	077-45-05W
W030549	GREELEY, HORACE, MINE	AU						CULPEPER	38-22-51N	077-42-26W
W030550	HILL MINE	AU						CULPEPER	38-30-19N	078-00-53W
W000413	LOVE MINE	AU						CULPEPER	38-22-58N	077-42-45W
W030551	MILBANK MINE	AU						CULPEPER	38-24- N	077-42- W
W000416	MORGANA MINE	AU						CULPEPER	38-25-08N	077-40-37W
W000411	RICHARDSVILLE MINE	AU						CULPEPER	38-24- N	077-44- W
W030552	ROSSIN'S MINE	AU						CULPEPER	38-23-20N	077-43-05W
W030553	SMITH TRACT MINE	AU						CULPEPER	38-22-15N	077-40-29W
W030554	URQUHART PROSPECT	AU						CULPEPER	38-24-34N	077-41-52W
W030555	DICKEY, G.S., PROSPECT	AU	AG	ZN	PB	PYR	CU	CUMBERLAND	37-41-44N	078-08-40W
W000348	BULL NECK MINE	AU	AG					FAIRFAX	38-57-55N	077-12-58W
W000342	CHANTILLY PROSPECT "A"	CU						FAIRFAX	38-53-19N	077-25-08W
W000343	CHANTILLY PROSPECT "B"	CU	AG					FAIRFAX	38-53-01N	077-24-56W
W000344	GREENBRIAR PROSPECT	FE	CU					FAIRFAX	38-52-12N	077-24-16W
W000340	JENKINS FARM PROSPECT	CU						FAIRFAX	38-59-03N	077-19-39W
W000341	SPENCER FARM PROSPECT	CU						FAIRFAX	38-54-14N	077-28-25W
W030883	AMBLER MINE	CU						FAUQUIER	38-52-25N	078-06-40W
W000334	BANCROFT MINE	AU						FAUQUIER	38-28-47N	077-43-14W
W000329	BEALETON PROSPECT	CU	PYR					FAUQUIER	38-33-17N	077-43-58W
W000331	BOTTS PROSPECT	BA						FAUQUIER	38-34-38N	077-39-21W
W030556	COOL SPRING PROSPECT	AU						FAUQUIER	38-27-41N	077-40-17W
W000332	ELK RUN PROSPECT	CU						FAUQUIER	38-33-14N	077-40-16W
W030557	EMBREY MINE	AU	AG					FAUQUIER	38-30-11N	077-42-15W
W030558	EMIGOLD MINE	AU						FAUQUIER	38-27- N	077-40- W
W000345	FRANKLIN MINE	AU	AG	CU	SE			FAUQUIER	38-30-09N	077-39-39W
W030559	GAMEWOOD PROSPECT	AU						FAUQUIER	38-28-30N	077-44-52W

W000347	GEAR MINE	BA							FAUQUIER	38-32-28N 077-43-16W
W030560	JOHNSTON PROSPECT	AU							FAUQUIER	38-25-52N 077-39-22W
W000336	KELLY MINE	AU							FAUQUIER	38-27-40N 077-44-58W
W000330	KEMPER MINE	BA							FAUQUIER	38-32-06N 077-43-29W
W000338	KIDWELL MINE	AU							FAUQUIER	38-26-29N 077-44-25W
W000339	LIBERTY MINE	AU							FAUQUIER	38-27-12N 077-40-38W
W030561	LIEPOLD MINE	AU							FAUQUIER	38-29-40N 077-42-23W
W000337	LITTLE ELLIOT MINE	AU							FAUQUIER	38-27-50N 077-40-17W
W030884	MANASSAS GAP MINE	CU							FAUQUIER	38-51-47N 078-07-24W
W030885	MOSBY PROSPECT	CU							FAUQUIER	38-52-43N 078-06-03W
W030562	PINE VIEW PROSPECT	AU							FAUQUIER	38-27-22N 077-41-19W
W030563	POLLARD PROSPECT	AU							FAUQUIER	38-28-19N 077-44-07W
W000335	RANDOLPH MINE	AU							FAUQUIER	38-28-14N 077-40-32W
W000346	ST. STEPHENS MINE	BA							FAUQUIER	38-40-36N 077-40-01W
W030564	UNION MINE	AU							FAUQUIER	38-26-30N 077-41-03W
W000333	WATERMAN MINE	AU							FAUQUIER	38-30-01N 077-39-55W
W030565	WYKOFF MINE	AU	PYR						FAUQUIER	38-29-13N 077-40-32W
W000455	CEDAR RUN MINE	BA	PYR						FAUQUIER-PRINCE	38-37-30N 077-34-44W
W030886	BEAR BED PROSPECT	FE	CU	PYR	PYR1				FLOYD	36-49-34N 080-21-37W
W030887	BELCHER PROSPECT	FE	CU	PYR1	PYR				FLOYD	36-47-54N 080-23-41W
W030566	BLACK RUN PROSPECT	AU	PYRI	PB	MO				FLOYD	36-58- N 080-22- W
W031215	BRINTON MINE	AS	AU	AG	CU	PYR			FLOYD	37-03-25N 080-15-21W
W030888	HILTON PROSPECT	CU	PYR						FLOYD	36-51-28N 080-25-26W
W030889	HOGAN PROSPECT	CU	FE	PYR	PYR1				FLOYD	36-53-09N 080-19-13W
W030567	LAUREL CREEK MINE	AU							FLOYD	37-01-17N 080-19-22W
W030568	LESTER MCALEXANDER MINE	AU	PB						FLOYD	36-59-24N 080-24-17W
W001172	LICK FORK PROSPECT	NI	CO	CU	PYR1				FLOYD	37-04-55N 080-12-15W
W030890	POWHATAN WILLIAMS PROSPECT	PYR	CU	PB					FLOYD	36-55-16N 080-16-30W
W031221	ROCKY KNOB PROSPECT	FE	PYR1						FLOYD	36-49-11N 080-20-35W
W031213	SUGAR RUN PROSPECT	NI							FLOYD	37-06-01N 080-11-37W
W031222	SUTHERLAND PROSPECT	FE	CU	PYR	ZN	PYR1			FLOYD	36-48-09N 080-23-03W
W030891	TAZ WEEKS PROSPECT	CU	PYR						FLOYD	36-49-36N 080-29-43W
W001171	TONCRAE MINE	CU	FE	CO	NI	PYR1	PYR		FLOYD	36-49-48N 080-22-33W
W031214	VEST PROSPECT	NI	PYR	AU	CO	AS			FLOYD	37-03-58N 080-14-01W
W031223	WEDDLE PROSPECT	FE	CU	PYR					FLOYD	36-51-09N 080-22-14W
W030569	BRUSH CREEK PROSPECT	AU	AG						FLOYD-MONTGOMER	37-03-12N 080-18-42W
W030570	BARTLETT PLACE MINE	AU							FLUVANNA	37-49-18N 078-08-46W
W030571	BOWLES MINE (GOLD HILL VEIN SY	AU	PYR						FLUVANNA	37-51-51N 078-05-28W
W030572	CASSELL'S MINE	AU	PYR						FLUVANNA	37-50-17N 078-08-36W
W030573	COCKE PROPERTY PROSPECT	AU							FLUVANNA	37-48-44N 078-08-53W
W030574	FOUNTAIN MINE	AU							FLUVANNA	37-49-16N 078-08-14W
W030575	HUGHES MINE	AU							FLUVANNA	37-47-15N 078-17-14W
W030576	JENNINGS PROPERTY MINE	AU							FLUVANNA	37-50-09N 078-07-01W
W030577	MARKS, LEMUEL, PROPERTY PROSPE	AU							FLUVANNA	37-49-45N 078-07-33W
W030578	MCGLOAM MINE	AU	PYR						FLUVANNA	37-51-13N 078-06-13W
W030579	MOSBY MINE	AU	PYR						FLUVANNA	37-49-31N 078-07-49W
W030580	PAGE MINE	AU	PB	PYR					FLUVANNA	37-50-53N 078-13-39W
W030581	PROSPECT (A) (FLUVANNA CO.)	AU							FLUVANNA	37-49-56N 078-06-59W
W030582	PROSPECT (B) (FLUVANNA CO.)	AU							FLUVANNA	37-49-40N 078-07-04W
W030584	SCOTIA MINE (TELLURIUM VEIN)	AU	PYR						FLUVANNA	37-50-28N 078-06-32W
W030583	SCOTIA MINE (HODGES VEIN)	AU	PYR						FLUVANNA	37-49-50N 078-06-47W
W030585	SHAW MINE	AU	PYR						FLUVANNA	37-51-43N 078-05-60W
W030586	SNEAD MINE	AU	AG	ZN	PB	CU	PYR		FLUVANNA	37-46-48N 078-15-25W
W030587	STOCKTON TUNNEL MINE	AU							FLUVANNA	37-51-40N 078-13-17W
W030588	TELLURIUM MINE	AU	ZN	PYR	TE	BI			FLUVANNA-GOOCHL	37-50-37N 078-06-22W
W030892	GRASSY HILL PROSPECT	CU							FRANKLIN	37-01- N 079-54- W
W030893	HOWELL MINE	ZN	CU	PYR1	PYR	FE	AS?		FRANKLIN	36-57- N 080-11- W
W032074	LIMESTONE RIDGE PROSPECT	MN							FREDERICK	39-03-20N 078-29-02W
W000675	MINERAL RIDGE	MN	CO	NI					FREDERICK AND	39-02-20N 078-29-13W
W032073	NELSON NO.2 PROSPECT	MN							FREDERICK	39-03-36N 078-28-04W
W032075	NELSON NO. 1 PROSPECT	MN							FREDERICK	39-02-58N 078-28-33W
W032076	ORNDORFF, MOSES, PROSPECT	MN							FREDERICK	39-02-45N 078-28-49W
W030589	ATMORE MINE	AU							GOOCHLAND	37-48-26N 078-06-43W
W030590	BELZORO MINE	AU	PYR						GOOCHLAND	37-48-47N 078-05-24W
W030591	BENTON MINE	AU							GOOCHLAND	37-51-57N 078-03-33W
W030592	BERTHA AND EDITH MINE	AU	PYR						GOOCHLAND	37-47-08N 078-07-30W
W030593	BIG BIRD MINE	AU							GOOCHLAND	37-48-41N 078-05-26W
W030594	BOWLES MINE (TELLURIUM VEIN SY	AU	PYR						GOOCHLAND	37-50-48N 078-05-52W
W030595	BUSBY MINE	AU							GOOCHLAND	37-51-04N 078-04-46W
W030596	CHATLIER PROSPECT	AU							GOOCHLAND	37-50-21N 078-06-12W
W030597	COLLINS MINE	AU							GOOCHLAND	37-48-55N 078-04-43W
W030598	DILLARD MINE	AU							GOOCHLAND	37-46-41N 078-07-39W
W030599	DUKE PROPERTY MINE	AU							GOOCHLAND	37-48-41N 078-05-48W
W030600	EADES MINE	AU							GOOCHLAND	37-48-41N 078-05-26W
W030601	FISHER MINE	AU							GOOCHLAND	37-50-05N 078-05-38W
W030602	FLEMING MINE	AU							GOOCHLAND	37-51-54N 078-03-21W
W030603	GOOCHLAND PROSPECT	AU							GOOCHLAND	37-49- N 078-03- W
W030604	GRANNISON MINE	AU							GOOCHLAND	37-48-56N 078-06-51W
W030605	JOHNSON, DAVID, PROSPECT	AU							GOOCHLAND	37-49-24N 078-05-10W
W030606	KENT MINE	AU							GOOCHLAND	37-48-21N 078-07-04W
W030607	LAURY MINE	AU							GOOCHLAND	37-48-41N 078-05-26W
W030608	MARKS, LANCELOT, MINE	AU							GOOCHLAND	37-48-41N 078-05-26W
W030609	MASSACHUSETTS MINE	AU							GOOCHLAND (?)	37-51- N 078-06- W
W030610	MORGAN MINE	AU	PYR						GOOCHLAND	37-49-04N 078-05-34W
W030611	MOSS MINE	AU	ZN	PB	V	CU	PYR		GOOCHLAND	37-50- N 078-05- W
W031194	NUCKOLS PROSPECT	TI	MPG						GOOCHLAND	37-40-51N 077-41-34W
W030612	OMOHUNDRO PROSPECT	AU							GOOCHLAND	37-49-34N 078-05-19W
W030613	PAYNE TRACT MINE	AU							GOOCHLAND	37-51-22N 078-04-19W
W030616	PROSPECT (C) (GOOCHLAND CO.)	AU							GOOCHLAND	37-50-38N 078-05-48W
W030614	PROSPECT (A) (GOOCHLAND CO.)	AU							GOOCHLAND	37-51-10N 078-05-01W
W030615	PROSPECT (B) (GOOCHLAND CO.)	AU							GOOCHLAND	37-51-04N 078-05-14W
W030617	PRYOR TRACT MINE	AU							GOOCHLAND	37-50-35N 078-04-36W
W030618	RUTH MINE	AU							GOOCHLAND	37-46-45N 078-07-38W
W030619	SHANNON HILL PROPERTY MINE	AU							GOOCHLAND	37-52-24N 078-02-35W
W030620	THOMPSON, JOHN, MINE	AU	PYR						GOOCHLAND	37-49-09N 078-05-16W
W030621	TOLER PROPERTY MINE	AU							GOOCHLAND	37-48-43N 078-05-35W
W030622	WALLER MINE	AU	CU	PYR					GOOCHLAND	37-51-28N 078-03-18W
W030623	YOUNG AMERICAN MINE	AU	CU	AG	PYR	TE	BI		GOOCHLAND	37-49-24N 078-05-20W
W030894	AUSTIN PROSPECT	CU	PYR1						GRAYSON	36-35- N 081-08- W

W031224	BLEVIN MINE	FE	PYR1	TI				GRAYSON	36-34-57N	081-05-37W
W031254	COX PROSPECT	BA						GRAYSON	36-35-06N	081-13-17W
W031255	COX, C., PROSPECT	BA						GRAYSON	36-34-31N	081-15-13W
W030895	COX, H., PROSPECT	CU	PYR1					GRAYSON	36-36-10N	081-03-37W
W030896	DOUGLAS LAND COMPANY PROPERTY	CU						GRAYSON	36-36- N	081-38- W
W030897	FULTON PROSPECT	CU	PYR1					GRAYSON	36-36-02N	081-03-52W
W030898	GREER PLACE PROSPECT	CU						GRAYSON	36-41- N	081-26- W
W030899	HAMPTON MINE	CU	PYR1	FE				GRAYSON	36-36-34N	081-03-47W
W031256	MARTIN PROSPECT	BA						GRAYSON	36-45-37N	081-09-29W
W030900	MEADOW CREEK PROSPECT	CU	PYR					GRAYSON	36-38-36N	080-58-29W
W031257	MOORE PROSPECT	BA						GRAYSON	36-38-15N	081-03-12W
W031258	POOLE PROSPECT	BA						GRAYSON	36-39-04N	081-03-29W
W031259	PORTER PROSPECT	BA						GRAYSON	36-45-16N	081-06-51W
W031260	RHUDY PROSPECT	BA						GRAYSON	36-44-59N	081-06-36W
W031261	VAUGHT, F., MINE	BA						GRAYSON	36-45-15N	081-07-52W
W031262	VAUGHT, F., PROSPECT NO. 2	BA						GRAYSON	36-44-44N	081-07-03W
W031263	VAUGHT, S., PROSPECT	BA						GRAYSON	36-45-08N	081-07-11W
W030510	WALT WILLIAMS MINE	AU						GRAYSON	36-42-36N	081-25-27W
W030901	HIGHTOP MINE	CU						GREENE	38-18-53N	078-34-04W
W030902	SIMS MINE	CU	PYR					GREENE	38-23-26N	078-26-31W
W030903	ABBOTT PROSPECT	CU						HALIFAX	36-35-53N	078-46-52W
W030904	ANACONDA MINE	CU						HALIFAX	36-33-32N	078-46-05W
W030905	BAYNHAM PROSPECT	CU						HALIFAX	36-39-02N	078-45-11W
W030906	CHAPPELL PROSPECT	CU						HALIFAX	36-40-17N	078-44-60W
W030907	DOROTHY MINE	CU						HALIFAX	36-35-24N	078-47-42W
W031835	DRYBURG PROSPECT	AU						HALIFAX	36-43-15N	078-42-30W
W030908	ESTHER MAY PROSPECT	CU						HALIFAX	36-35-56N	078-46-53W
W031832	GILL'S MOUNTAIN PROSPECT	AU						HALIFAX	36-33-45N	078-44-50W
W030909	HIGH HILL MINE	CU	AG	AU				HALIFAX	36-39-36N	078-45-34W
W030910	KAY PROSPECT	CU	AG	AU				HALIFAX	36-41-33N	078-46-37W
W030911	LITTLEJOHN PROSPECT	CU						HALIFAX	36-35-30N	078-47-14W
W030511	LUCE AND HOWARD MINE	AU						HALIFAX	36-36-06N	078-44-41W
W030912	MORONG PROSPECT	CU						HALIFAX	36-35-55N	078-45-46W
W030913	PANDORA PROSPECT	CU						HALIFAX	36-37-06N	078-45-08W
W030914	PONTIAC PROSPECT	CU						HALIFAX	36-37-53N	078-46-06W
W030512	POOLE AND HARRIS PROSPECT	AU						HALIFAX	36-34-37N	078-44-42W
W030513	RED BANK MINE	AU						HALIFAX	36-35-58N	078-44-42W
W030915	SEABOARD MINE	CU	AG	AU				HALIFAX	36-35-29N	078-46-38W
W030916	WALL PROSPECT	CU						HALIFAX	36-36-34N	078-46-39W
W001336	MONTPELIER MINE	FLD	TI	MRG	ZR	CLY3		HANOVER	37-46-18N	077-42-43W
W031225	CHESTNUT KNOB PROSPECT	FE	TH	RAE	ZR	TI	MON	HENRY	36-37-05N	079-54-28W
W031226	HAIRSTON BRANCH PROSPECT	FE						HENRY	36-43-28N	079-51-22W
W031227	JORDAN CREEK PROSPECT	FE						HENRY	36-41-17N	079-56-07W
W031217	LITTLE MARROW BONE CREEK PROSP	EMY						HENRY	36-37-32N	079-52-42W
W031228	REDS CREEK PROSPECT	FE						HENRY	36-36-57N	079-49-45W
W031218	SHEFFIELD HILL PROSPECT	EMY						HENRY	36-36-27N	079-50-44W
W017366	LEE-WISE	FE						LEE-WISE	36-45-00N	083-00-00W
W031229	FURNACE MOUNTAIN MINE	FE						LOUDOUN	39-15-08N	077-32-15W
W030917	GOOSE CREEK MINE	CU	AG					LOUDOUN	39-05-50N	077-30-01W
W030514	LOUDOUN PROSPECT	AU						LOUDOUN	39-18- N	077-39- W
W000476	ALLAH COOPER MINE	AU	AG	PB	ZN	PYR		LOUISA	38-04-26N	077-51-34W
W000459	ARMINIUS MINE	ZN	PB	CU	PYR	FE	AS	LOUISA	38-02-11N	077-53-54W
W000478	BELDEN PROSPECT	AU						LOUISA	38-01-06N	077-52-42W
W000474	BIBB PROSPECT	AU						LOUISA	38-00-19N	077-53-16W
W030515	BOXLEY'S MINE	AU						LOUISA	38-03-44N	077-50-05W
W000458	BOYD-SMITH MINE	ZN	PB	CU	PYR	FE		LOUISA	38-02-42N	077-53-30W
W000470	CHICK MINE	AU						LOUISA	38-00-44N	077-52-59W
W000469	CHILDS MINE	FE						LOUISA	38-00-47N	077-53-09W
W031306	COFER PROSPECT	ZN	PB	CU	AU	AG	PYR	LOUISA	38-03-00N	077-52-31W
W000461	COOPER MINE	AU	PYR	CU				LOUISA	38-01-55N	077-54-01W
W000456	GUNTER PROSPECT	PYR						LOUISA	38-03-22N	077-55-29W
W000473	HARRIS MINE	AU						LOUISA	38-00-25N	077-53-12W
W000466	HEMMER MINE	ZN	PB	CU	AU	AG	PYR	LOUISA	38-01-11N	077-54-32W
W000467	HUNTER PROSPECT	ZN	PB	CU	AU	AG	PYR	LOUISA	38-00-51N	077-54-46W
W030516	JENKINS MINE	AU						LOUISA	38-03-49N	077-51-41W
W000475	JONES MINE	FE						LOUISA	38-00-12N	077-53-44W
W031172	JOSH GOLD MINE	AU	PYR					LOUISA	37-55-36N	078-00-06W
W000472	JULIA MINE	ZN	PB	CU	PYR	FE		LOUISA	38-00-34N	077-55-29W
W000468	KENT PROSPECT	PYR	FE					LOUISA	38-00-56N	077-54-43W
W000465	LETT MINE	AU	PYR					LOUISA	38-01-21N	077-54-23W
W030517	LOUISA MINE	AU						LOUISA	37-58-51N	077-54-41W
W030518	LUCE MINE	AU						LOUISA	37-59-22N	077-54-02W
W030519	MACDONALD MINE	AU	PYR					LOUISA	37-59-44N	077-55-54W
W000463	MORRISTON MINE	AU						LOUISA	38-01-36N	077-53-17W
W030520	NEW LUCE PROSPECT	AU						LOUISA	37-59-42N	077-53-46W
W000460	OLD DOMINION PYRITE MINE	PYR						LOUISA	38-02-12N	077-52-45W
W030521	PROFFIT MINE	AU						LOUISA	37-58-33N	077-55-06W
W030522	RICSWAN MINE	AU						LOUISA	37-58-58N	077-54-33W
W000464	SIMMS PROSPECT	PYR						LOUISA	38-01-51N	077-52-27W
W030523	SLATE HILL MINE	AU						LOUISA	37-59-06N	077-54-23W
W000471	STOCKTON MINE	AU	PYR	CU	ZN	PB		LOUISA	38-00-40N	077-53-03W
W000457	SULPHUR MINE	ZN	PB	CU	PYR	FE		LOUISA	38-03-41N	077-52-55W
W030524	THOMASSON'S MINE	AU						LOUISA	37-57-56N	077-55-46W
W000477	TINDER MINE	AU	AG	PB	ZN	SB		LOUISA	38-03-52N	077-52-20W
W030525	TRIPLE FORK PROSPECT	AU						LOUISA	38-01-37N	077-54-32W
W030526	TWIN VEIN MINE	AU	AG					LOUISA	37-58- N	077-56- W
W031249	WALKER MINE	BA						LOUISA	38-03-47N	078-11-58W
W030527	WALNUT GROVE MINE	AU						LOUISA	37-57-49N	077-55-53W
W000462	WALTON MINE	AU	PB	ZN	PYR	SB		LOUISA	38-01-45N	077-54-11W
W031201	ALGER PROSPECT	PYR						MADISON	38-24-59N	078-19-33W
W030918	DARK HOLLOW MINE	CU						MADISON	38-31-38N	078-24-34W
W031202	PIEDMONT PYRITES AND MINERAL C	PYR						MADISON	38-17-37N	078-13-53W
W030919	STONEY MAN MINE	CU						MADISON	38-35-50N	078-22-22W
W031209	BURWELL PROSPECT	W	PB	ZN	CU	AG	BI	MECKLENBURG, VA	36-32-47N	078-27-16W
W031207	KIMBALL PROSPECT	W	PB	ZN	CU	PYR		MECKLENBURG	36-33-16N	078-27-00W
W031208	TAYLOR PROSPECT	W	PB	ZN	CU	PYR		MECKLENBURG	36-33-43N	078-27-24W
W031312	(UNNAMED PROSPECT)	ZN						MONTGOMERY	37-05- N	080-25- W
W031307	ALLEGHANY SPRINGS PROSPECT	ZN	PB	AG				MONTGOMERY	37-06- N	080-15- W
W031203	CAMP KIWANIANNA PROSPECT	ZN	CU	AS	AU	PYR		MONTGOMERY	37-07-00N	080-12-06W

W031308	CLOYD PROSPECT	ZN						MONTGOMERY	37-12- N 080-30- W
W031309	LANGHORN AND WILLS PROSPECTS	ZN	PB					MONTGOMERY	37-09-20N 080-14-30W
W031204	LITTLE RIVER PROSPECT	PYR	CU	FE				MONTGOMERY	36-59-37N 080-31-55W
W031310	PEPPERS FERRY MINE	ZN	PB					MONTGOMERY	37-10- N 080-33- W
W031311	PILOT KNOB PROSPECT	PB	ZN	CU				MONTGOMERY	37-02- N 080-29- W
W031205	TICES MILL PROSPECT	CU	ZN	AU	PYR	AS		MONTGOMERY	37-05-60N 080-13-15W
W030920	ALLEN MINES	CU						NELSON	37-55-04N 078-52-58W
W031195	AMERICAN RUTILE MINE	TI	P	MPG				NELSON	37-44-38N 078-58-27W
W031196	BLUE ROCK FARM PROSPECT	TI	P	MPG				NELSON	37-46-41N 078-58-24W
W031197	BOYD PROSPECT	TI	P	MPG				NELSON	37-48-08N 078-57-12W
W031173	COLLEEN PROSPECT	AU	U	PT	W	MN		NELSON	37-42-44N 078-56-17W
W030921	DOLAN PROPERTY PROSPECT	CU						NELSON	37-43- N 078-41- W
W031198	GILES-HITE PROSPECT	TI	P	MPG				NELSON	37-45-27N 078-59-07W
W030923	JOE CREEK MINE	CU	PYR					NELSON	37-40- N 078-48- W
W031199	JOHNSON PROSPECT	TI	P	MPG				NELSON	37-49-02N 078-56-21W
W001333	ROSELAND DISTRICT	TI						NELSON AND AMHE	37-45- N 079-00- W
W002116	VIRGINIA PLACER	TI	MPG	KYN	ZR			NORTHHAMPTON AN	37-25- N 075-20- W
W000425	AMBLER MINE	AU						ORANGE	38-19-07N 077-44-36W
W030528	DICKEY TRACT MINE	AU	CU	PYR				ORANGE	38-16-48N 077-51-43W
W030529	GORDON'S, H., PROSPECT	AU						ORANGE	38-20-54N 077-45-43W
W000410	GRASTY TRACT MINE	AU						ORANGE	38-16-45N 077-51-43W
W000423	GREENWOOD PROSPECT	AU	PB	CU				ORANGE	38-20-35N 077-43-26W
W031166	INDIAN TOWN PROSPECT	AU						ORANGE	38-21-54N 077-48-03W
W000409	JONES PROSPECT	AU						ORANGE	38-21-10N 077-48-49W
W000419	MELVILLE MINE	AU	ZN	PB	CU	PYR	PYR1	ORANGE	38-21-38N 077-43-29W
W030530	OLD TINDER MINE	AU	CU	PYR				ORANGE	38-16-41N 077-51-55W
W030531	ORANGE GROVE PROSPECT	AU						ORANGE	38-20-06N 077-46-04W
W000420	PARTRIDGE MINE	AU	AG					ORANGE	38-21-26N 077-44-54W
W030532	PROSPECT (A) (ORANGE CO.)	AU						ORANGE	38-19-16N 077-44-27W
W000441	SAUNDERS PROSPECT	AU						ORANGE	38-13-53N 077-54-28W
W000443	SELDON PROSPECT	AU						ORANGE	38-13-57N 077-52-33W
W030533	SOMERVILLE PROSPECT	AU						ORANGE	38-19- N 077-44- W
W000440	STUART PROSPECT	AU						ORANGE	38-13-37N 077-56-12W
W030922	TAYLORS PROSPECT	CU	PYR					ORANGE	38-13- N 078-14- W
W000421	VAUCLUSE MINE	AU	PYR	CU	PB			ORANGE	38-21-14N 077-43-44W
W031831	WALNUT CREEK MINE	AU	PYR	CO	TI			ORANGE	38-18-10N 077-53-00W
W000424	WILDERNESS MINE	AU						ORANGE	38-20-10N 077-43-54W
W030534	WOODMAN PROSPECT	AU						ORANGE	38-15- N 077-52- W
W030535	WOODVILLE MINE	AU						ORANGE	38-20-00N 077-44-04W
W000442	YOUNG PROSPECT	AU						ORANGE	38-13-33N 077-54-46W
W032031	AUDENRIED (?) MINE	FE						PAGE	38-41-53N 078-25-45W
W032028	BIG SPRING BRANCH MINE	MN						PAGE	38-42-43N 078-24-46W
W032046	CATHERINE FURNACE MINES	FE						PAGE	38-33-29N 078-38-11W
W032054	COMPTON MINE	MN						PAGE	38-46-09N 078-21-29W
W032026	FRONK PROSPECT	MN						PAGE	38-41-59N 078-23-53W
W031313	GROVE HILL PROSPECT	ZN						PAGE	38-32-10N 078-36-42W
W032034	HONEY RUN MINES	FE	MN					PAGE	38-33-29N 078-32-35W
W030860	IDA MINE	CU						PAGE	38-36-12N 078-25-35W
W032035	INGHAM MINE	FE	MN					PAGE	38-31-21N 078-33-55W
W032025	JARMANS RUN PROSPECT	MN	FE					PAGE	38-43-18N 078-22-57W
W032036	LITTLE ORE BANK MINE	MN	FE					PAGE	38-30-29N 078-34-04W
W030924	MINE RUN PROSPECT	CU						PAGE	38-45-35N 078-21-04W
W031230	PITT SPRING MINE	FE						PAGE	38-33-50N 078-39-29W
W032027	RUST PROPERTY MINE	FE						PAGE	38-42-48N 078-24-07W
W032032	SHANK (?) MINE	FE						PAGE	38-43-10N 078-23-55W
W032020	SMITH BANK MINE	FE	CLY3	MN				PAGE	38-29-47N 078-34-13W
W000673	STANLEY MINE	MN	CO	NI				PAGE	38-33-36N 078-30-39W
W032029	VAUGHN MINE	MN						PAGE	38-43-13N 078-23-40W
W032024	VAUGHN PROSPECT	MN						PAGE	38-44-03N 078-22-50W
W032030	VAUGHN SOUTH MINE	MN						PAGE	38-42-24N 078-23-57W
W031171	YOUNG, J.W. PROSPECT	AU	PYR					PAGE	38-27-34N 078-31-55W
W031231	GREEN BRANCH PROSPECT	FE						PATRICK	36-48-45N 080-07-02W
W031232	HAIRSTON MINE	FE						PATRICK	36-47-32N 080-07-13W
W030925	JEFFERSON PEAK PROSPECT	CU						PATRICK	36-39- N 080-35- W
W030536	POLEBRIDGE CREEK PROSPECT	AU	PYR					PATRICK	36-43-32N 080-08-42W
W031290	ARTHUR MINE	BA						PITTSYLVANIA	37-07- N 079-20- W
W031291	BENNETT MINE	BA	PYR					PITTSYLVANIA	36-57-37N 079-28-28W
W031292	BERGER MINE	BA						PITTSYLVANIA	36-58-05N 079-27-47W
W031293	HAMNER MINE	BA	PYR	CU				PITTSYLVANIA	37-07- N 079-22- W
W031834	HOPEWELL PROSPECT	AU						PITTSYLVANIA	36-45-10N 079-28-20W
W031294	HURT PROSPECTS	BA						PITTSYLVANIA	37-06- N 079-18- W
W031833	KENTUCK PROSPECT	AU						PITTSYLVANIA	36-40-15N 079-17-40W
W031295	MEASE MINE	BA						PITTSYLVANIA	37-57- N 079-34- W
W031296	PARKER MINE	BA						PITTSYLVANIA	36-56-37N 079-29-23W
W031297	RAMSAY MINE	BA	PYR					PITTSYLVANIA	36-58- N 079-28- W
W031298	THOMPSON MINE	BA						PITTSYLVANIA	36-56-33N 079-29-31W
W031299	TOM WRIGHT MINE	BA						PITTSYLVANIA	36-57- N 079-31- W
W031300	TUCK MINE	BA						PITTSYLVANIA	36-58-58N 079-27-27W
W031301	WITCHER MINE	BA						PITTSYLVANIA	37-57- N 079-34- W
W031184	HERBB NO. 2 MINE	MIC2	BE	MIC1	FLD	TA	NB	POWHATAN	37-33-21N 077-46-56W
W031185	WHITE PEAK NO. 1 MINE	MIC1	MIC2	TA	NB			POWHATAN	37-32-39N 077-47-32W
W007516	BAKER MOUNTAIN MINE	KYN	SDG					PRINCE EDWARD	37-12-13N 078-39-03W
W031186	SPRING CREEK OCCURRENCE	TA	NB					PRINCE EDWARD	37-13- N 078-33- W
W000325	AGNEWVILLE PROSPECT	PYR	AS	AU				PRINCE WILLIAM	38-38-37N 077-17-22W
W000324	BRENTSVILLE PROSPECT	CU						PRINCE WILLIAM	38-41-18N 077-29-52W
W000349	CABIN BRANCH MINE	PYR	ZN	PB	CU	AU	AG	PRINCE WILLIAM	38-34-29N 077-20-54W
W000328	CRAWFORD PLACERS PROSPECT	AU						PRINCE WILLIAM	38-37-26N 077-18-06W
W000326	GREENWOOD PROSPECT	AU						PRINCE WILLIAM	38-37-49N 077-25-57W
W000327	JOPLIN PROSPECT	PYR						PRINCE WILLIAM	38-34-13N 077-23-31W
W000323	MANASSAS OCCURRENCE	BA						PRINCE WILLIAM	38-43-48N 077-28-24W
W031314	DELTON MINES	ZN	PB	FE				PULASKI	36-57-02N 080-44-40W
W031315	FLANNIGAN MINE	ZN	PB					PULASKI	36-56-43N 080-43-48W
W031316	FORNEY PROSPECT	ZN	PB					PULASKI	36-57- N 080-44- W
W031317	GRAHAM AND ROBINSON MINE	ZN	PB					PULASKI	36-56-16N 080-43-46W
W031241	REED MINE	BA						ROANOKE	37-18-34N 079-55-30W
W017373	ROANOKE	TI						ROANOKE	37-17-00N 079-53-00W
W031250	BECKTEL PROSPECT	BA						ROCKBRIDGE	37-43- N 079-28- W
W001335	BUENA VISTA PLACER	TI						ROCKBRIDGE	37-42- N 079-20- W

W017363	CLIFTON FORGE	FE					ROCKBRIDGE	37-50-00N	079-46-00W
D001371	IRISH CREEK MINE	SN	W	BE			ROCKBRIDGE	37-50-59N	079-09-49W
W031251	JOHNSON PROSPECT	BA					ROCKBRIDGE	37-37- N	079-35- W
W031252	SHORTER PROSPECT	BA					ROCKBRIDGE	37-40-30N	079-38-21W
W031319	ARMENTROUT PROSPECT	ZN	PYR				ROCKINGHAM	38-33-08N	078-52-46W
W031320	ARMSTRONG-KISER PROSPECT	ZN	PYR				ROCKINGHAM	38-33-49N	078-52-50W
W031321	BOWERS-CAMPBELL MINE	ZN	DOL	LST	PB	PYR	ROCKINGHAM	38-39-39N	078-47-42W
W000672	ELKTON MINES AND PROSPECTS	MN	CO	NI	FE		ROCKINGHAM	38-23-25N	078-37-00W
W031322	HOWARD SHOWALTER PROSPECT	ZN	PYR				ROCKINGHAM	38-38-05N	078-49-17W
W032011	MILLER RUN MINE	FE	MN				ROCKINGHAM	38-14-38N	078-46-36W
W031323	MINNICK PROSPECT	ZN	CU	PYR			ROCKINGHAM	38-37-52N	078-41-40W
W031324	MOLE HILL PROSPECTS-INCLUDES T	ZN	PB?				ROCKINGHAM	38-27-19N	078-57-23W
W032022	MT. VERNON MINE	FE	MN				ROCKINGHAM	38-15-60N	078-46-05W
W031325	SHOWALTER PROSPECT	PB	PYR				ROCKINGHAM	38-31-13N	078-55-55W
W031326	SMITH PROPERTY PROSPECT	ZN					ROCKINGHAM	38-40-31N	078-45-03W
W031327	TURNER PROSPECT	ZN					ROCKINGHAM	38-39- N	078-48- W
W032021	UPPER LEWIS RUN MINE	FE	MN				ROCKINGHAM	38-17-25N	078-45-03W
W031328	VETTER PROSPECT	ZN	PYR				ROCKINGHAM	38-37-53N	078-49-01W
W031374	WISELAND PROSPECT	ZN					ROCKINGHAM	38-28-32N	078-45-04W
W031329	ZIGLER PROSPECT	ZN	PYR				ROCKINGHAM	38-40-34N	078-46-56W
K001618	BLUMER MINE	BA	FE	PYR			RUSSELL	36-57-57N	082-01-32W
K001634	BUCKLES MINE	BA					RUSSELL	36-56-55N	082-03-14W
K001647	CLIFTON MINES	BA					RUSSELL	37-02-17N	081-49-59W
K001651	COUNTS MINE	BA					RUSSELL	37-00-02N	081-56-50W
K001635	COWAN MINE	BA					RUSSELL	36-55-31N	082-05-25W
K001648	FLETCHER MINE	BA					RUSSELL	37-01-01N	081-53-55W
K001649	HARMAN MINE	BA					RUSSELL	37-00-36N	081-54-49W
K001645	HONAKER MINE	BA					RUSSELL	36-59-38N	081-58-04W
K001644	HUBBARD MINE	BA	FE				RUSSELL	36-59-19N	081-58-39W
K001636	HUGHES MINE	BA					RUSSELL	36-56-14N	082-04-19W
K001633	LEONARD MINE	BA					RUSSELL	36-56-41N	082-03-24W
K001646	MCGRAW MINE	BA	FE	CU	PYR		RUSSELL	37-00-08N	081-56-19W
K001598	MEADE MINE	BA					RUSSELL	36-57-59N	082-01-16W
W031331	OSBORN MINE	ZN	PB				RUSSELL	36-47-57N	082-15-51W
W031330	PAT KEITH PROSPECT	ZN	PB				RUSSELL	36-49- N	082-21- W
K001652	STUMP MINE	BA					RUSSELL	36-59-56N	081-57-30W
K001650	THOMAS MINE	BA					RUSSELL	37-00-47N	081-54-18W
K001637	WARD PROSPECT	BA					RUSSELL	36-57-47N	082-01-55W
W031332	BOWMAN MINE	ZN	CU	PYR			SCOTT	36-35-51N	082-27-31W
W031333	BRICKEY PROSPECT	ZN					SCOTT	36-47-50N	082-36-02W
K001599	LANE PROSPECT	ZN					SCOTT	36-39-43N	082-41-34W
W002111	FARMVILLE DISTRICT	KYN	TI				SEVERAL	37-20- N	078-30- W
W032072	BONNET HILL MINE	MN					SHENANDOAH	39-01-02N	078-30-19W
W031334	BOWMAN PROSPECT	ZN	PYR				SHENANDOAH	38-44-55N	078-40-40W
W032070	BRILL PROSPECT	MN	FE				SHENANDOAH	39-01-25N	078-30-19W
W031335	BUSHONG PROPERTY PROSPECT	ZN					SHENANDOAH	38-41-07N	078-44-11W
W032053	CAMERON PROSPECT	MN	FE				SHENANDOAH	38-52-01N	078-26-37W
W032058	CAPOLA MOUNTAIN MINE	MN	FE				SHENANDOAH	38-58-31N	078-33-45W
W032065	COVE RUN PROSPECT (A)	MN	FE				SHENANDOAH	38-58-45N	078-31-18W
W032052	DUNCAN GAP PROSPECT	FE	MN				SHENANDOAH	38-54-22N	078-23-57W
W032041	ELIZABETH FURNACE MINES	FE					SHENANDOAH	38-55-53N	078-19-52W
W032080	GAP MOUNTAIN PROSPECT	MN					SHENANDOAH	38-53-10N	078-44-52W
W032071	GODLOVE MINE	MN					SHENANDOAH	39-01-15N	078-30-22W
W032042	GREEN MOUNTAIN MINE	FE					SHENANDOAH	38-55-29N	078-20-56W
W032082	HIGH HEAD PROSPECT	MN					SHENANDOAH	38-54-25N	078-38-49W
W032043	HIGH PEAK PROSPECT	FE					SHENANDOAH	38-54-47N	078-20-03W
W032079	LIBERTY FURNACE IRON MINES	FE	MN				SHENANDOAH	38-54-12N	078-41-46W
W032044	LITTLE CREASE MOUNTAIN PROSPEC	FE					SHENANDOAH	38-52-45N	078-21-46W
W031336	MARTIN MINE	PB	ZN	PYR			SHENANDOAH	38-42-15N	078-45-14W
W032069	MCCUNE PROSPECT	MN					SHENANDOAH	39-01-32N	078-30-06W
W032048	MINE RUN PROSPECT	FE	MN				SHENANDOAH	38-53-14N	078-24-58W
W032051	MUDHOLE GAP PROSPECT	MN	FE				SHENANDOAH	38-54-58N	078-23-22W
W032040	OREGON MINE	FE	MN				SHENANDOAH	38-56-25N	078-21-25W
W032064	ORNDORFF (RHESA A.) PROSPECT	MN	FE				SHENANDOAH	38-59-58N	078-31-19W
W032063	ORNDORFF, R.L., PROSPECT	MN					SHENANDOAH	38-59-13N	078-31-29W
W032068	ORNDORFF, JASPER, PROSPECT	MN					SHENANDOAH	39-01-10N	078-30-35W
W032059	ORNDORFF, JAMES, PROSPECT	MN					SHENANDOAH	38-58-60N	078-32-21W
W032062	ORNDORFF, MARY, PROSPECT	MN					SHENANDOAH	38-59-17N	078-32-04W
W032066	ORNDORFF, RALPH, PROSPECT	MN					SHENANDOAH	38-58-25N	078-31-59W
W032061	PEER, CLEVE, PROSPECT	MN	FE				SHENANDOAH	38-58-42N	078-33-01W
W032060	PEER, FRANK PROSPECT	MN					SHENANDOAH	38-59-07N	078-32-26W
W032049	PHILADELPHIA MINE	MN					SHENANDOAH	38-54-58N	078-23-07W
W032050	POWELLS FORT CAMP MINE	MN					SHENANDOAH	38-55-11N	078-23-07W
W032047	POWELLS FORT MINE	MN					SHENANDOAH	38-53-35N	078-25-01W
W031337	RUNION PROSPECT	ZN	PB	CU	PYR		SHENANDOAH	38-45- N	078-48- W
W032045	SCOTT MINE	FE	MN	PYR			SHENANDOAH	38-57-51N	078-25-49W
W032083	SUGAR HILL PROSPECT	FE					SHENANDOAH	38-59-29N	078-32-53W
W032077	THREEMILE MOUNTAIN MINES	FE					SHENANDOAH	38-52-41N	078-40-08W
W017362	TIMBERVILLE	ZN					SHENANDOAH	38-41-18N	078-44-12W
W031338	TUSING PROSPECT	ZN	PYR				SHENANDOAH	38-44-11N	078-43-49W
W032084	UPPER CEDAR CREEK MINE	FE					SHENANDOAH	38-57-33N	078-35-08W
W032067	WEST BANK MINE	FE	MN				SHENANDOAH	38-58-41N	078-34-16W
W032081	YELLOW SPRINGS PROSPECTS	FE	MN				SHENANDOAH	38-54-30N	078-38-27W
W031339	ZIRKLE PROSPECT	ZN	PYR				SHENANDOAH	38-42-00N	078-43-40W
W031340	BENNINGTON PROSPECT	ZN					SMYTH	36-49- N	081-18- W
W031341	CALHOUN PROSPECT	ZN	MN				SMYTH	36-46-35N	081-27-09W
W031265	CORNETT-HULL MINES	BA					SMYTH	36-49- N	081-33- W
W031266	ELLER MINE	BA					SMYTH	36-51-00N	081-28-38W
W031267	FARIS MINE	BA					SMYTH	36-50-47N	081-35-28W
W031268	GROSECLOSE PROSPECT	BA					SMYTH	36-51-20N	081-27-34W
W031269	HENDERLITE MINE	BA	CU	PYR			SMYTH	36-51-18N	081-27-37W
W031342	HENDERSON PROPERTY PROSPECT	ZN	PB				SMYTH	36-44- N	081-33- W
W031343	LIVESAY PROSPECT	ZN	PB				SMYTH	36-45-41N	081-29-37W
W031346	MARTIN PROSPECT	ZN	PB				SMYTH	36-45-60N	081-33-30W
W031344	MCCARTER PROSPECT	ZN	PYR				SMYTH	36-45-23N	081-30-20W
W031345	MCCARTER WEST PROSPECT	ZN					SMYTH	36-45-35N	081-32-00W
W031270	MCDONALD MINE	BA					SMYTH	36-51-09N	081-28-14W
W031271	MILES-GARDNER MINES	BA					SMYTH	36-49-17N	081-34-11W
W031272	MYERS - L. COPENHAVER MINE	BA	ZN				SMYTH	36-50-25N	081-35-37W

W031273	ORR MINE	BA	CU	PYR	FE			SMYTH	36-54- N	081-36- W
W031233	PORTER BANK MINE	FE	MN	ZN	PB			SMYTH	36-45-60N	081-21-53W
W031347	RYE VALLEY MINING COMPANY MINE	PB	ZN	PYR	AU			SMYTH	36-46-44N	081-25-20W
W031348	SCOTT PROSPECT	ZN						SMYTH	36-46-19N	081-28-18W
W001176	SEVERAL UNNAMED OLD OPEN CUT M	MN	CO	NI				SMYTH	36-48- N	081-24- W
W031274	SHANKLIN MINE	BA						SMYTH	36-49-33N	081-32-58W
W031349	WARD, R.N., PROSPECT	PB						SMYTH	36-46- N	081-25- W
W031264	COPENHAVER, H.P., MINE	BA						SMYTH COUNTY	36-49- N	081-33- W
W017367	PULASKI-SMYTH	FE						SMYTH-WYTHE-PUL	36-50-00N	081-00-00W
W029536	ANDERSON'S PROSPECT	AU						SPOTSYLVANIA	38-13- N	077-47- W
W000444	BEAZLEY PROSPECT	AU						SPOTSYLVANIA	38-14-57N	077-45-28W
W000436	BELL MINE	AU						SPOTSYLVANIA	38-20-13N	077-34-55W
W000422	BRINTON PROSPECT	AU						SPOTSYLVANIA	38-21-20N	077-37-59W
W031187	EDENTON MINE	MIC1	MIC2	FLD	TA	NB		SPOTSYLVANIA	38-05- N	077-47- W
W029537	FAWS TRACT PROSPECT	AU						SPOTSYLVANIA	38-18- N	077-43- W
W028981	FURNACE PROSPECT	AU						SPOTSYLVANIA	38-17-19N	077-39-11W
W000433	GARDINER MINE	AU						SPOTSYLVANIA	38-19-57N	077-36-36W
W000451	GOODWYN MINE	AU						SPOTSYLVANIA	38-08-23N	077-48-24W
W000447	GRINDSTONE MINE	AU	AG	PYR	PB	ZN		SPOTSYLVANIA	38-11-40N	077-45-57W
W029538	HIGGINS MINE	AU						SPOTSYLVANIA	38-14- N	077-44- W
W029539	HORDE PROSPECT	AU						SPOTSYLVANIA	38-21- N	077-37- W
W028979	HUNTING RUN PROSPECT	AU						SPOTSYLVANIA	38-20-23N	077-39-25W
W028980	JOHNSTON'S PROSPECT	AU						SPOTSYLVANIA	38-11-06N	077-45-29W
W029540	JULIAN PROSPECT	AU						SPOTSYLVANIA	38-21- N	077-37- W
W000453	KNAPP MINE	AU						SPOTSYLVANIA	38-08-22N	077-48-14W
W000426	MARSDEN PROSPECT	AU						SPOTSYLVANIA	38-16-47N	077-43-09W
W000450	MARVA PROSPECT	ZN	PB	CU	AU	AG	PYR	SPOTSYLVANIA	38-09-36N	077-48-03W
W000449	MITCHELL PROSPECT	AU						SPOTSYLVANIA	38-10-31N	077-46-54W
W000437	MOTT MINE	AU	PYR					SPOTSYLVANIA	38-19-25N	077-33-56W
W029533	NEW GRINDSTONE MINE	AU	AG	ZN	PB	PYR		SPOTSYLVANIA	38-11-52N	077-46-39W
W028976	POWELL'S PROSPECT	AU						SPOTSYLVANIA	38-12-29N	077-44-51W
W028978	PROSPECT (A) (SPOTSYLVANIA CO.	AU						SPOTSYLVANIA	38-18-35N	077-40-02W
W028982	PROSPECT (B) (SPOTSYLVANIA CO.	AU						SPOTSYLVANIA	38-11-37N	077-46-48W
W000432	PRUITT NO. 4 PROSPECT	ZN	CU	PB	PYR	GRF		SPOTSYLVANIA	38-20-47N	077-36-38W
W000427	QUAKER PROSPECT	AU						SPOTSYLVANIA	38-15-60N	077-40-52W
W000435	RAMSEY MINE	AU						SPOTSYLVANIA	38-20-36N	077-34-34W
W000428	RANDOLPH PROSPECT	AU						SPOTSYLVANIA	38-14-50N	077-43-39W
W000445	RAWLINGS PROSPECT	AU						SPOTSYLVANIA	38-12-00N	077-46-29W
W000446	RONEY PROSPECT	AU	AG	ZN	PB	CU	PYR	SPOTSYLVANIA	38-12-40N	077-45-45W
W000434	SMITH MINE	AU						SPOTSYLVANIA	38-19-47N	077-35-21W
W028977	STARRS MINE	AU						SPOTSYLVANIA	38-08-32N	077-48-23W
W029541	TRIGG PROSPECT	AU						SPOTSYLVANIA	38-17- N	077-41- W
W000430	UNITED STATES MINE	AU	ZN	PB	CU	W	V	SPOTSYLVANIA	38-21-25N	077-37-17W
W000448	VALZINCO MINE	ZN	PB	CU	PYR			SPOTSYLVANIA AN	38-10-34N	077-47-51W
W000452	WHITEHALL MINE	AU	TE	PB				SPOTSYLVANIA	38-14-21N	077-44-19W
W000438	AUSTIN RUN MINE	PYR	CU					STAFFORD	38-27-45N	077-25-20W
W000429	EAGLE MINE	AU	AG	ZN	PB	PYR		STAFFORD	38-21-30N	077-35-15W
W030537	ELLIOT FARM MINE	AU						STAFFORD	38-22-29N	077-36-24W
W000431	HORSE PEN MINE	AU						STAFFORD	38-21-41N	077-35-05W
W030538	LEE PROSPECT	AU						STAFFORD	38-21-56N	077-34-26W
W030539	MACDONALD PROSPECT	AU						STAFFORD	38-22-09N	077-35-01W
W000417	MONROE MINE	AU	PYR					STAFFORD	38-22-28N	077-36-37W
W030540	NEW HOPE MINE	AU						STAFFORD	38-23-32N	077-33-51W
W030541	PRIS-KING MINE	AU						STAFFORD	38-22-21N	077-35-48W
W030542	PROSPECT (A) (STAFFORD CO.)	AU						STAFFORD	38-22-11N	077-35-57W
W031569	RATTLESNAKE MINE	AU	PYR					STAFFORD	38-22-10N	077-36-15W
W000439	WASHINGTON MINE	FE	PYR					STAFFORD	38-26-02N	077-27-22W
W030543	WISE FARM MINE	AU						STAFFORD	38-21-09N	077-35-42W
K001665	ALTIZER PROSPECTS	BA						TAZEWELL	37-06-05N	081-39-55W
K001668	BEAVER MINE	BA						TAZEWELL	37-06-12N	081-38-48W
W031350	CEDAR BLUFF PROSPECT	ZN	PB					TAZEWELL	37-05- N	081-45- W
K001666	EARL MINE	BA						TAZEWELL	37-06-05N	081-39-30W
K001653	FUDGE MINE AND PROSPECT	BA						TAZEWELL	37-08-11N	081-31-57W
K001669	HOPKINS MINE	BA						TAZEWELL	37-07-57N	081-33-12W
K001670	HUBBLE MINE	BA						TAZEWELL	37-07-57N	081-33-07W
K001617	NIPPER PROSPECT	BA						TAZEWELL	37-03-41N	081-46-30W
K001672	PEERY, K. MINE	BA						TAZEWELL	37-08-04N	081-32-43W
K001671	PEERY, M L. MINE	BA						TAZEWELL	37-08-02N	081-32-53W
K001663	RINGSTAFF MINE	BA						TAZEWELL	37-04-53N	081-42-55W
K001664	STEELE MINE	BA						TAZEWELL	37-04-55N	081-42-50W
K001667	TAYLOR MINE	BA						TAZEWELL	37-06-35N	081-38-08W
W032057	BRUSH MOUNTAIN PROSPECTS	MN	FE					WARREN	38-49-10N	078-19-12W
W030926	EMPIRE MINE	CU						WARREN	38-47-24N	078-17-33W
W030927	GOONEY-MANOR MINE	CU	AU	AG				WARREN	38-52-59N	078-14-27W
W032038	HAPPY CREEK MINES	FE	MN					WARREN	38-54-47N	078-09-17W
W030929	MARTIN MINE	CU						WARREN	38-48-31N	078-17-45W
W030930	MILLS PROSPECT	CU						WARREN	38-51-15N	078-12-26W
W032055	MURPHY MINE	FE						WARREN	38-50-56N	078-16-13W
W032056	OVERALL MINE	MN						WARREN	38-48-21N	078-20-52W
W030931	RUDACILL PROSPECT	CU						WARREN	38-50-55N	078-12-19W
W030932	SEALOCH MINE	CU						WARREN	38-52-55N	078-06-26W
W032037	SEIBLE MINE	MN	FE					WARREN	38-55-37N	078-08-28W
W032039	VIRGINIA AND PITTSBURGH COPPER	CU						WARREN	38-53-47N	078-12-28W
W019007	AUSTINVILLE - IVANHOE MINES	ZN	PB	DOL	STN1			WYTHE	36-50-50N	080-55-11W
K002907	AUSTINVILLE-IVANHOE DISTRICT	ZN	PB	AG				WYTHE	36-51- N	080-57- W
W031351	BARNDOLLAR PROSPECT	ZN	PYR					WYTHE	36-50-43N	080-56-10W
W031352	BERTHA AND BARREN SPRINGS MINE	ZN	FE	PYR				WYTHE	36-54-27N	080-48-38W
W031353	CARTER FERRY PROSPECT	ZN						WYTHE	36-54-57N	080-50-05W
W031354	CEDAR SPRINGS MINES	ZN	PB	PYR				WYTHE	36-49-40N	081-17-02W
W031355	COVE BRANCH PROSPECT	ZN						WYTHE	36-48-54N	081-02-45W
W031356	DAVIS PROSPECT	ZN						WYTHE	36-48- N	081-17- W
W031357	FALLING CLIFF MINE	ZN	PB	AG				WYTHE	36-54-06N	080-49-10W
W031358	GALENA PROSPECT	ZN						WYTHE	36-52-19N	080-54-12W
W031359	GRAHAM AND ROBINSON PITS PROSP	ZN	FE	PYR				WYTHE	36-54-40N	080-48-07W
W031240	GROSECLOSE, J.C., PROSPECT	BA						WYTHE	36-54- N	081-10- W
W031360	JACKSON FERRY PROSPECT	ZN	PB					WYTHE	36-52-14N	080-52-03W
W031361	JACKSON FERRY WEST PROSPECT	ZN	PYR					WYTHE	36-52-41N	080-53-22W
W031362	JACKSON PROSPECT	ZN						WYTHE	36-50-55N	080-56-30W
W031363	JAMES PROSPECT	ZN						WYTHE	36-49- N	081-16- W
W031364	LASWELL PROSPECTS	PB	ZN					WYTHE	36-54- N	080-54- W

W031365	LITTLE WYTHE MINE	FE	ZN	PYR		WYTHE	36-47-44N	081-05-41W
W031366	MANNING AND SQUIERS PITS PROSP	ZN	PYR?			WYTHE	36-55- N	080-49- W
W031367	MOUNT EPHRAIM CHURCH PROSPECT	ZN	PYR			WYTHE	36-52-19N	081-10-14W
W031234	NORMA MINE	FE	ZN	PYR		WYTHE	36-47-34N	081-05-36W
W031235	PORTER IRON PITS MINE	FE	ZN			WYTHE	36-48-17N	081-06-53W
W031368	PRICE PROPERTY PROSPECT	ZN	PB			WYTHE	36-50- N	080-58- W
W031369	RIGGLES PROSPECT	ZN	PB	CU		WYTHE	36-52-54N	081-09-04W
W031236	SAYERS PROPERTY MINE	FE	ZN	PB		WYTHE	36-54- N	080-47- W
W001175	SEVERAL UNNAMED OLD MINES AND	MN	NI	CO		WYTHE	36-53- N	081-01- W
W031370	SIMMERMAN PROSPECTS	ZN	PB	FE	PYR	WYTHE	36-50-19N	080-56-28W
W031371	SQUIERS PROPERTY PROSPECT	ZN	FE	PYR		WYTHE	36-53- N	080-47- W
W031237	STEPHENS PROPERTY PROSPECT	FE	ZN	PB	PYR	WYTHE	36-54- N	080-47- W
W031372	TAYLOR PROSPECT	ZN	PB			WYTHE	36-48- N	081-12- W