

**TABLE DESCRIPTIONS  
FROM THE "TABLE\_DESC" TABLE  
IN THE SOUTHWESTERN NEVADA VOLCANIC FIELD DATABASE**

<b>TABLE NAME</b>	<b># of RECORDS</b>	<b>SHORT DESC</b>	<b>LONG DESC</b>
age_measure	386	Age date	This table provides age dates and their uncertainties, the minerals dated, and methods employed.
alt_int	6340	Alteration intervals	This table provides the alteration and minor alteration for each successive interval within a drill hole. Important physical, relational, and other characteristics for successive intervals within drill holes are termed geologic intervals. Intervals are defined both by depths and elevations. Physical characteristics are lithology, alteration, minor alteration, fracture intensity, and lithophysal zones. Relational characteristics are stratigraphic assignment and stratigraphic assignments for bounding units.
alt_list	42	Alteration	This table defines symbols that describe alteration, alteration types and groups, and qualitatively indicate a progression of alteration intensity and temperature.
ans_list	3	Answers	This table provides answers to questions regarding analyses, procedures, or definitions.
avail_list	2	Availability	This table provides symbols that describe the availability of samples, descriptions, or definitions.
ca_compute_method	28991	Computational method	This table defines the computational method used to reduce chemical analytical data into concentrations.
ca_compute_method_list	7	Computational method	This table defines symbols that describe computational methods used for specific types of chemical analysis to reduce the chemical analytical data into concentrations.
ca_measure	83139	Chemical data	This table provides chemical data for each sample split. Chemical data included are analyte values or lower detection limits, and analytical uncertainties. Citations for these data are provided in this table, as well as the number of replicates analyzed for each element.
ca_prep_list	17	Sample preparation	This table defines symbols that represent the method used to prepare a sample for chemical analysis.
ca_rep_oxide	91369	Replicate ID	For each replicate, this table identifies analytes and assigns a unique ID.
ca_rep_prep	5571	Sample preparation	This table represents the method used to prepare the sample for chemical analysis.
ca_rep_worker	7117	Chemical analyst	This table defines the chemical analysts.
ca_spl_rep	5399	Replicate ID	This table provides a unique laboratory ID for each replicate of a split.
ca_split	6218	Chemical analysis type	This table provides the general type of chemical analysis for each split.
ca_subtype_list	11	Subtype of chemical analysis	This table defines symbols that identify subtypes of chemical analysis for each split.
casement_list	4	General nature of casement	This table defines symbols that describe the general nature of casement within each drill hole.
comp_alt_list	7	Component alteration	This table defines symbols that describe the general alteration of a mineral component. Alterations for individual grain components of the subject mineral are provided in table ma_gr_comp_texture.
comp_list	174	Component list	This table defines symbols for components and component groups analyzed by petrography, age dating, and X-ray diffraction
coord_source_list	3	Original source of coordinates	This table defines symbols that describe the original source of coordinates for each drill hole.
dens_source_list	3	Sources for average rock densities	This table defines symbols that describe the sources used for average rock densities within each drill hole.
drill_fluid	504	Drilling fluid	This table describes the fluid used to drill each hole.
drill_hole_data_source_list	5	Sources for drill hole IDs	This table defines the list of sources used to define drill hole names and coordinates.

<b>TABLE NAME</b>	<b># of RECORDS</b>	<b>SHORT DESC</b>	<b>LONG DESC</b>
drill_hole_info	3804	Drill hole information	This table provides miscellaneous information for each drill hole or shaft, including hole history and construction, fluid levels, and suitability for testing.
drill_hole_location	4750	Drill holes and coordinates	This table provides the master list of drill hole names as used in the database and their coordinates.
drill_hole_map	9822	Names and coordinates for drill holes in original sources.	This table relates the names and coordinates for drill holes as provided within the original sources to those used in this database.
drill_meth_list	2	Method used to drill hole	This table defines symbols that describe the method used to drill each hole.
end_member_list	8	Mineral end members	This table defines symbols for end members of selected minerals. Values for these end members have been calculated from analyte concentrations determined by microprobe analysis.
error_meth_list	3	List of methods for analyte uncertainty	This table defines symbols that identify the method used to define analyte uncertainty.
format_list	7	Original Format of data geophysical logs	This table defines symbols that describe the original format of geophysical logs.
frac_physae_int	685	Fracture and lithophysal intervals	This table defines fractures and lithophysae within each successive interval within a drill hole. Important physical, relational, and other characteristics for successive intervals within drill holes are termed geologic intervals. Intervals are defined both by depths and elevations. Physical characteristics are lithology, alteration, minor alteration, fracture intensity, and lithophysal zones. Relational characteristics are stratigraphic assignment and stratigraphic assignments for bounding units.
frac_physae_list	6	Fracture/lithophysae intensity	This table defines symbols that describe the general intensity of fracturing and development of lithophysal zones within rock.
geol_int_ref	5890	Citations for geologic interval characteristics	This table provides citations for sources of information that describe the physical and relational character of each geologic interval.
geophys_int	20971220	Geophysical logs	This table provides geophysical logs.
hole_fluid_list	7	Fluid used to drill hole	This table defines symbols that describe the fluid used to drill each hole.
hole_gen_info	118	Miscellaneous information for drill holes	This table describes miscellaneous information for each drill hole.
hole_gen_info_list	8	Miscellaneous information for drill holes	This table defines symbols that describe miscellaneous information for each drill hole.
hole_log_info	5510	Description of each geophysical log	This table describes conditions that governed the generation of each geophysical log.
hole_status_list	1	Certainty of status for drill hole	This table identifies drill holes with uncertain operational status.
hole_type_list	6	Purpose for drill hole	This table defines symbols that describe the purpose for each drill hole.
hue_list	20	Component hue	This table provides the hue of the component described. Hues are those defined by the widely used rock color chart published by the Geological Society of America.
light_type_list	3	Point count light source	This table defines symbols that provide the least effective light source used for any petrographic analyses by point count. The most effective use of light source is a point count performed in reflected light but with transmitted light available to aid identifications.
lith_group_map	54	Lithologic group	This table defines general lithologic groups.
lith_int	6494	Lithologic intervals	This table provides the lithology for each successive interval within a drill hole. Important physical, relational, and other characteristics for successive intervals within drill holes are termed geologic intervals. Intervals are defined both by depths and elevations. Physical characteristics are lithology, alteration, minor alteration, fracture intensity, and lithophysal zones. Relational characteristics are stratigraphic assignment and stratigraphic assignments for bounding units.
lith_list	50	Lithology	This table defines symbols for lithologies of the southwestern Nevada volcanic field. Groups of lithologies are defined by table lith_group_map.

<b>TABLE NAME</b>	<b># of RECORDS</b>	<b>SHORT DESC</b>	<b>LONG DESC</b>
loc_qa_list	9	Method to define coordinates	This table defines symbols that describe the method used to determine X, Y coordinates for a sample location. The table also includes measures of the quality of these coordinates.
loc_sam_split	13359	Split type	This table provides the type of analysis for each split, and its location and sample ID's.
location	8182	Describes sample locations	This table provides coordinates and elevations, and their uncertainties. Table also identifies the topographic quadrangle from which the sample was collected and the symbol for the map unit on a geologic map. Sources of information are identified in table location_ref.
location_ref	3795	Sources of information for location	This table identifies sources of information for sample coordinates and elevations, and their uncertainties, and for the unit mapped at the sample location.
log_calib_constants	3301	Constants used to compute geophysical log	This table provides the constants used to calibrate the geophysical log.
log_constant_list	50	Constants used to compute geophysical logs	This table defines symbols for constants used to compute geophysical logs.
log_constants	3964	Constants used to compute geophysical log	This table provides the constants used to transform raw data into the geophysical log.
log_fluid	3650	Fluids within hole during geophysical logging	This table describes the fluids present within each drill hole during geophysical logging.
log_type_list	88	Geophysical logs represented	This table describes geophysical logs represented within the database.
log_worker	5182	Geophysical logger	This table indicates the workers responsible for fielding the geophysical log and their tasks.
ma_clast_alt	1172	Clast alteration	This table describes a mineral or mineral assemblage and process that are dominant contributors to the observed mineralogy of the subject clast. The content of each mineral required to be considered dominant depends on the mineral; for example, zeolites and clays are considered dominant in concentrations of 20% or greater, calcite is considered dominant at 5% or greater, and kaolinite at 2% or greater. A mineral or mineral assemblage and process that are minor contributors to the observed mineralogy of the subject clast are described in table ma_clast_malt.
ma_clast_malt	122	Clast minor alteration	This table describes a mineral or mineral assemblage and process that are minor contributors to the observed mineralogy of the subject clast. The content of each mineral required to be considered dominant depends on the mineral; for example, zeolites and clays are considered dominant in concentrations of 20% or greater, calcite is considered dominant at 5% or greater, and kaolinite at 2% or greater. A mineral or mineral assemblage and process that are dominant contributors to the observed mineralogy of the subject clast are described in table ma_clast_alt.
ma_clast_measure	3637	Individual clast analyses	This table provides a variety of information for each clast that includes its stratigraphic assignment, lithology, and alteration, its type, and area in thin section. This table includes only data with the best precision. Table xx_ma_clast_measure contains less precise, superceded, and erroneous data.
ma_gr_comp_texture	15770	Grain component textures	This table describes textural features observed for each grain component.
ma_gr_measure	78048	Grain component petrographic analyses	This table provides a variety of information for each grain component that includes its grain ID, unique grain component ID, area in thin section, mineral identity, and identifies any host clasts or minerals. This table also provides the number of points counted for the grain component, whether it is suitable for microprobe analysis, and the number of several different types of microprobe analyses that were performed. The table also identifies the petrographic analyst and date for analysis of the grain component, and the quality level of the analysis. This table includes only data with the best precision. Table xx_gr_measure contains less precise, superceded, and erroneous data.
meas_type_list	5	Measurement type	This table defines symbols for measurement types, such as chemical, petrographic, and mineralogic.
oxide_list	81	Analytes	This table defines the list of chemical analytes as forms that dominate their occurrence within terrestrial rocks, mostly oxides. This table also provides gravimetric factors to convert all oxide values to equivalent elemental values.
pa_count	0	Points counted for petrographic analysis	This table provides the number of counts for one or more point counts for petrographic analysis, as well as the quality level for each count. This table includes only data with the best precision. Table xx_pa_count contains less precise, superceded, and erroneous data.
pa_meas_type_list	15	Miscellaneous petrographic information	This table defines symbols that provide information occasionally obtained for petrographic analyses, mostly from analysis of grain mounts or mineral separates.

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pa_measure	86010	Petrographic analyses	This table provides a petrographic analysis for each component, describes its alteration if the component is a mineral, the method used for its analysis, a citation for the source of the analysis, and the quality level of the analysis. This table includes only data with the best precision. Table xx_pa_measure contains less precise, superceded, and erroneous data.
pa_meth_list	19	Petrographic method	This table defines symbols that represent methods used for petrographic analysis.
pa_misc	3494	Miscellaneous petrographic information	This table provides information occasionally obtained for petrographic analyses, mostly from analysis of grain mounts or mineral separates. Information allowed in this table is defined in table pa_meas_type_list. This table includes only data with the best precision. Table xx_pa_misc contains less precise, superceded, and erroneous data.
pa_split	5423	General petrographic information	This table provides general information usually obtained for most petrographic analyses, including the type and area of the thin section and method used to determine the area, the magnification and light sources used in the point count, and quality level for the analysis. If the thin section split represents a mineral separate, this table provides the type of mineral separated and method used for the separation. This table includes only data with the best precision. Table xx_pa_split contains less precise, superceded, and erroneous data.
xx_pa_worker	15247	Petrographic analyst	This table identifies the analyst, analysis date, and quality level for each component. Table pa_worker includes only references for data with the best precision. This table contains references for less precise, superceded, and erroneous data.
xx_probe_end_members	6996	Mineral end members	This table provides end member contents for selected minerals. These values have been calculated from analyte concentrations determined by microprobe analysis. Table probe_end_members includes only data with the best precision. This table contains less precise, superceded, and erroneous data.
xx_probe_measure	31787	Microprobe analyses	This table provides microprobe analyses in weight percent. Table probe_measure includes only data with the best precision. This table contains less precise, superceded, and erroneous data.
pa_TS_narrative	0	Narrative descriptions from thin section	This table provides narrative petrographic descriptions for each thin section.
pa_worker	86746	Petrographic analyst	This table identifies the analyst, analysis date, and quality level for each component. This table includes only references for data with the best precision. Table xx_pa_worker contains references for less precise, superceded, and erroneous data.
prev_strat_code_ref	249	References for previously used stratigraphic symbols	This table provides reference codes for previously used symbols of stratigraphic units.
prev_strat_name_ref	298	Reference codes for previously used stratigraphic names	This table provides reference codes for previously used names of stratigraphic units.
probe_end_members	104109	Mineral end members	This table provides end member contents for selected minerals. These values have been calculated from analyte concentrations determined by microprobe analysis. This table includes only data with the best precision. Table xx_probe_end_members contains less precise, superceded, and erroneous data.
probe_loc_list	6	Microprobe analysis location	This table defines symbols that describe the general location for each microprobe analytical point within a particular grain component.
probe_measure	372714	Microprobe analyses	This table provides microprobe analyses in weight percent. This table includes only data with the best precision. Table xx_probe_measure contains less precise, superceded, and erroneous data.
probe_rep	53084	Microprobe analysis description	This table provides quality measures for each analysis by electron microprobe and also describes the location of the analytical point relative to the boundaries of the grain component analyzed. This table includes only data with the best precision. Table xx_probe_rep contains less precise, superceded, and erroneous data.
probe_spec_list	6	Analyte spectrometer	This table defines symbols that describe the spectrometer used for microprobe analysis of a particular analyte.
probe_standard_list	65	Microprobe standard descriptions	This table relates probe standard IDs used internally by each microprobe laboratory to more widely used names, and provides descriptions and citations for the source of reference analyte values for each standard.
probe_standard_set_list	858	Microprobe standard set	This table defines symbols that identify the set of microprobe standards used to provide reference intensities for each analyte in the analysis, as well as the spectrometer used for that analyte.
probe_standard_value_list	513	Microprobe standard analyses	This table provides analyses for microprobe standards used in this database, listed in table probe_standard_set_list.

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qa_list	13	QA level for petrographic analysis	This table defines values that represent the quality of multiple petrographic analyses for the same component, irrespective of method used in the analysis. The lowest values for QA level indicate the highest quality analyses. Only petrographic analyses with a QA level of 1 should be used except to compare petrographic data obtained by different methods.
quad_list	126	USGS quad	This table defines symbols for U.S. Geological Survey topographic quadrangles for locations in the database.
ref_list	519	Citations	This table defines symbols for full citations of data and methods reported in the database.
sam_desc_type_list	2	Type of sample description	This table defines symbols that identify a sample description as either field or binocular microscope description.
sam_type_list	39	Sample type	This table defines symbols for the types of samples collected from the southwestern Nevada volcanic field, and defines groups of sample types.
sample	8619	Sample characteristics	This table provides important physical, relational, and other characteristics of the sample. Physical characteristics are sample type and lithology. Relational characteristics are stratigraphic assignment, stratigraphic assignments for bounding units, and depths (if appropriate) and elevations for the sample and its bounding unit. This table also provides the date of sample collection.
sample_alt	10197	Alteration of sample	This table describes the alteration of each sample. Alteration reflects both the bulk mineralogy of a sample and the dominant process that yielded the observed mineral assemblage.
sample_avail	4550	Sample availability	This table provides storage locations and amounts available for original samples, prepared specialized splits of these samples, and availability of original, unabridged field notes within files of the senior author.
sample_color	11833	Sample colors	This table describes colors for components recognized in the binocular microscope description of each sample.
sample_desc	1255	Sample descriptions	This table provides original field and later binocular microscope descriptions for each sample.
sample_malt	3659	Minor alteration of sample	This table describes the minor alteration of each sample. Alteration is considered minor for a mineral in any concentration less than that which is considered to be part of a dominant assemblage.
sample_ref	13939	Citations for sample characteristics	This table provides citations for sources of information that describe the physical and relational character of each sample.
sample_worker	16857	Sample workers	This table identifies those who have described the physical and relational characteristics of samples or collected the sample.
sep_meth_list	2	Method for mineral separation	This table defines symbols that describe the method used to prepare a split of a mineral separate.
split_ref	0	Citations for analytical methods and procedures	This table provides citations for analytical methods and procedures.
split_type_list	23	Analysis type for sample split	This table defines symbols that identify the specific analytical type for each split.
split_worker	1869	Analysts	This table provides analysts and dates of analysis.
strat	368	Stratigraphic units	This table defines symbols for stratigraphic units of the southwestern Nevada volcanic field., their model ages, and names and symbols for previous definitions of stratigraphic units. The table also contains columns useful for listing stratigraphic units in several orders.
strat_int	4737	Stratigraphic intervals	This table provides the stratigraphic assignment for each successive interval within a drill hole. Important physical, relational, and other characteristics for successive intervals within drill holes are termed geologic intervals. Intervals are defined both by depths and elevations. Physical characteristics are lithology, alteration, minor alteration, fracture intensity, and lithophysal zones. Relational characteristics are stratigraphic assignment and stratigraphic assignments for bounding units.
strat_list	370	Stratigraphic units	This table defines symbols for stratigraphic units of the southwestern Nevada volcanic field, and also includes terms to represent stratigraphic constraints, such as unknown and unconstrained. Table strat provides model ages, and names and symbols for previous definitions of stratigraphic units, as well as columns useful for listing stratigraphic units in several orders.
table_desc	859	Descriptions of table and column names	This table provides descriptions of table and column names in the database.

<b>TABLE NAME</b>	<b># of RECORDS</b>	<b>SHORT DESC</b>	<b>LONG DESC</b>
texture_list	21	Grain component texture	This table defines symbols that describe textural features observed for each grain component.
topic_list	29	Topic for citation	This table defines symbols used to identify topics for citations of data, descriptions, or definitions.
units_list	4	Concentration units	This table defines symbols and descriptions for concentration units associated with analytical values. Concentration units are always provided on a weight basis except for petrographic analyses, which are provided on a volume basis. The same concentration units are consistently used for each chemical analyte or petrographic component.
vel_source_list	6	Sources for average p-wave velocities	This table defines symbols that describe the sources used for average p-wave velocities of rocks within each drill hole.
water_source_list	4	Sources for average water content of rocks	This table defines symbols that describe the sources used for average water content of rocks within each drill hole.
worker_list	298	Workers	This table defines symbols for workers who have contributed analyses, descriptions, or definitions to the database, and also provides their organization and its location.
xrd_measure	16098	XRD analyses	This table provides mineralogic analyses and their uncertainties for each XRD split.
xrd_meth_list	5	Method for XRD analysis	This table defines symbols that describe the method used for X-ray diffraction (XRD) analysis.
xrd_split	1077	Method for XRD analysis	This table provides the method used for X-ray diffraction (XRD) analysis, the analyst, and the date of analysis. This table also provides other information such as reflection intensities when only these qualitative data are reported. Citations for these data are provided in this table.
xx_geophys_int	232677	Geophysical logs of unacceptable quality	This table provides geophysical logs of unacceptable quality.
xx_ma_clast_measure	3	Individual clast analyses	This table provides a variety of information for each clast that includes its stratigraphic assignment, lithology, and alteration, its type, and area in thin section. Table ma_clast_measure includes only data with the best precision. This table contains less precise, superceded, and erroneous data.
xx_ma_gr_measure	897	Grain component petrographic analyses	This table provides a variety of information for each grain component that includes its grain ID, unique grain component ID, area in thin section, mineral identity, and identifies any host clasts or minerals. This table also provides the number of points counted for the grain component, whether it is suitable for microprobe analysis, and the number of several different types of microprobe analyses that were performed. The table also identifies the petrographic analyst and date for analysis of the grain component, and the quality level of the analysis. Table ma_gr_measure includes only data with the best precision. This table contains less precise, superceded, and erroneous data.
xx_pa_count	0	Points counted for petrographic analysis	This table provides the number of counts for one or more point counts for petrographic analysis, as well as the quality level for each count. Table pa_count includes only data with the best precision. This table contains less precise, superceded, and erroneous data.
xx_pa_measure	15177	Petrographic analyses	This table provides a petrographic analysis for each component, describes its alteration if the component is a mineral, the method used for its analysis, a citation for the source of the analysis, and the quality level of the analysis. Table pa_measure includes only data with the best precision. This table contains less precise, superceded, and erroneous data.
xx_pa_misc	0	Miscellaneous petrographic information	This table provides information occasionally obtained for petrographic analyses, mostly from analysis of grain mounts or mineral separates. Information allowed in this table is defined in table pa_meas_type_list. Table pa_misc includes only data with the best precision. This table contains less precise, superceded, and erroneous data.
xx_pa_split	1101	General petrographic information	This table provides general information usually obtained for most petrographic analyses, including the type and area of the thin section and method used to determine the area, the magnification and light sources used in the point count, and quality level for the analysis. If the thin section split represents a mineral separate, this table provides the type of mineral separated and method used for the separation. Table pa_split includes only data with the best precision. This table contains less precise, superceded, and erroneous data.
xx_probe_rep	3037	Microprobe analysis description	This table provides quality measures for each analysis by electron microprobe and also describes the location of the analytical point relative to the boundaries of the grain component analyzed. Table probe_rep includes only data with the best precision. This table contains less precise, superceded, and erroneous data.