DOE/NV/10891--T44

COUNTY DIGITAL GEOLOGIC MAPPING

FINAL REPORT

1995

Principal Investigators

Ronald H. Hess, Geographic Information System Supervisor
Gary L. Johnson, Geographic Information System Processor

Co-Principal Investigator

Craig M. dePolo, Research Geologist

Nevada Bureau of Mines and Geology
Mackay School of Mines
University of Nevada, Reno
M.S. 178
Reno, Nevada 89557-0088

Project Funding Provided by:
United States Department of Energy
Yucca Mountain Office

MASTER

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED¹⁵

DISCLAIMER

**Portions of this document may be illegible
in electronic image products. Images are
produced from the best available original
document.**

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

COUNTY DIGITAL GEOLOGIC MAPPING

FINAL REPORT

Principal Investigators

Ronald H. Hess, Geographic Information System Supervisor
Gary L. Johnson, Geographic Information System Processor

Co-Principal Investigator

Craig M. dePolo, Research Geologist

Nevada Bureau of Mines and Geology
Mackay School of Mines
University of Nevada, Reno
M.S. 178
Reno, Nevada 89557-0088

Project Funding Provided by:
United States Department of Energy
Yucca Mountain Office

The purpose of this project is to create quality-county wide digital 1:250,000-scale geologic maps from existing published 1:250,000-scale Geologic and Mineral Resource Bulletins published by the Nevada Bureau of Mines and Geology (NBMG). An additional data set, based on current NBMG research, Major and Significant Quaternary and Suspected Quaternary Faults of Nevada, at 1:250,000 scale has also been included.

LAYERS OF DATA DIGITIZED

- 1) bedrock geologic coverage from 1:250,000-scale county geologic maps
- 2) fault coverage from 1:250,000-scale county geologic maps
- 3) Major and Significant Quaternary and Suspected Quaternary Faults of Nevada at 1:250,000-scale from ongoing research

The geologic/fault maps from NBMG Geologic and Mineral Resource Bulletins are provided by individual county as two coverages (geologic polygon coverage and fault line coverage). Exceptions to this are Nye and Washoe Counties. They were published in two sections with Storey County as part of the southern Washoe County map. Lyon, Douglas, and Ormsby (Carson City) Counties were published as one report and are provided as a single coverage. The Clark County geologic map was converted to a digital format under an earlier contract and is not part of this project. However, it is included in the same export file format as above but in UTM zone 11 projection only.

The Major and Significant Quaternary and Suspected Quaternary Faults of Nevada Map is provided as a single statewide coverage. A report containing specific information on the design and development of the Statewide Active Fault Map is provided as appendix A. This data set was compiled by Craig dePolo, Nevada Bureau of Mines and Geology. It is still under active development and is subject to modification. Only one export file in UTM zone 11 projection is provided.

The county map coverages listed above are provided as digital files in ARC/INFO Version 6.1.1 export file format. Two sets of digital files are provided, one in digitizer inches and one in UTM zone 11 projection. The active fault map is provided as a single state wide coverage, UTM zone 11 projection, in the same export file format. All files are provided in ARC/INFO version 6.1.1 export file format, written to a tar file on a 2.3 gigabyte 8mm tape cartridge. In appendix B standard NBMG metadata forms, including bibliographic references for source material, are provided for each projected coverage. Appendix C is a directory listing of the files contained, as a UNIX tar file, on the exabyte tape included with this report. Appendix D contains NBMG coverage transform work sheets indicating procedure followed and number of arcs and polygons before and after the transformation to UTM zone 11 projection. Transformation RMS error is also included.

Equipment and Software

The NBMG Geographic Information Systems (GIS) lab uses work station based ARC/INFO, TINS, and NETWORK on a SUN SPARC II server, several UNIX work stations and PC ARC/INFO running on three PC DOS compatible micro computers. The server and work stations operate under SUN OS 4.1.3 and have 12 gigabytes of dedicated disk space, 2.3 gigabyte and 150 megabyte tape drives, and a CD ROM reader. Digitizing is accomplished via two Calcomp 9500 and two Calcomp Drawing Board III series digitizing tablets. Hard copy map plots were produced using an HP-7585B or HP-7550A pen plotter and a Novajet II inkjet plotter. All manual input, data transformations, projections, data analysis, and map compositions were produced using the above listed equipment and software. All digital data coverages were created in single precision. All coverages digitized for this project were checked for accuracy by staff members that have not been involved in the original digitizing process, then edited by a GIS processor and a final check was made to insure accuracy. Line work was completed and edited prior to attributing. Attributing was completed, then checked by a different person, edited, and then ran through a final check.

Attribute File Descriptions

Item description of the .pat file format used for county geologic maps. Field "FMATN" contains the geologic map symbol from the published map which represents a combination of the unit age and rock description with the data being between two and five characters in length. Field "L_NAME" is a short description of the rock type but does not include age information.

Arc: items county_geology.pat

COLUMN	ITEM NAME	WIDTH	OUTPUT	TYPE	N.DEC	ALTERNATE NAME
1	AREA	4	12	F	3	
5	PERIMETER	4	12	F	3	
9	MIN_G_UTM#	4	5	B	-	
13	MIN_G_UTM-ID	4	5	B	-	
17	FMATN	6	6	C	-	
23	L_NAME	50	50	C	-	

Item description of the .aat file format used for county geologic maps. Field "C_CODE" contains the type of geologic contact symbol from the published map. Field "C_TYPE" is a short description of the above listed C_CODE. Below is a list that identifies the codes followed by the items description of the geology .aat file.

Attributes for County FAULTS (Arcs)

C_CODE	2	2	I
--------	---	---	---

1	= Known contact
2	= Inferred contact
3	= Concealed contact
4	= Queried contact
5	= Other
6	= Fault contact
99	= Boundary

C_TYPE	20	20	C
--------	----	----	---

Known contact	= 1
Inferred contact	= 2
Concealed contact	= 3
Queried contact	= 4
Other	= 5
Fault contact	= 6

Arc: items county_geology.aat

COLUMN	ITEM NAME	WIDTH	OUTPUT	TYPE	N.DEC	ALTERNATE NAME
1	FNODE#	4	5	B	-	
5	TNODE#	4	5	B	-	
9	LPOLY#	4	5	B	-	
13	RPOLY#	4	5	B	-	
17	LENGTH	4	12	F	3	
21	MIN_G_UTM#	4	5	B	-	
25	MIN_G_UTM-ID	4	5	B	-	
29	C_CODE	2	2	I	-	
31	C_TYPE	20	20	C	-	

Item description of the .aat file format used for county fault maps. Field "F_CODE" contains the type of fault symbol shown on the published map. Field "F_TYPE" is a short description of the above listed F_CODE. Field "F_MOVE" identifies type of movement if shown on the published map. Field "F_DIP" shows dip angle when indicated on published map. Below is a list that identifies the codes used followed by the items description of the county faults .aat file.

Attributes for FAULTS (Arcs)

F_Code 2 2 I

Examples:

1	= Known fault
2	= Inferred fault
3	= Concealed fault
4	= Known queried fault
12	= Inferred queried fault
14	= Concealed queried fault
5	= Known thrust fault
6	= Inferred thrust fault
7	= Concealed thrust fault
8	= Known queried thrust fault
13	= Inferred queried thrust fault
15	= Concealed queried thrust fault
9	= Vein
10	= Dike
16	= Fault scarp
99	= Boundary

F_Type 30 30 C

Examples:

Known fault	= 1
Inferred fault	= 2
Concealed fault	= 3
Known queried fault	= 4
Inferred queried fault	= 12
Concealed queried fault	= 14
Known thrust fault	= 5
Inferred thrust fault	= 6
Concealed thrust fault	= 7
Known queried thrust fault	= 8
Inferred queried thrust fault	= 13
Concealed queried thrust fault	= 15
Vein	= 9
Dike	= 10
Other	= 16
Boundary	= 99

F_move 2 2 C

D	= Down Side
R	= Right Lateral
L	= Left Lateral
U	= Unknown movement

F_dip 2 2 I

20	= Angle of Dip
99	= No angle shown

The following page is an example of a symbol legend illustrating the symbols used to designate the various types of contacts and faults shown on the hard copy plots that accompany this report.

Geologic contact type

—————	1 - Known contact
-----	2 - Inferred contact
.....	3 - Concealed contact
?-?-?	4 - Queried contact
—————	5 - Other
—————	6 - Fault contact
-----	99 - Boundary

Fault contact type

—————	1 - Known fault
-----	2 - Inferred fault
.....	3 - Concealed fault
?-?-?	4 - Known queried fault
?--?-?--	12 - Inferred queried fault
?.....?.....?	14 - Concealed queried fault
~~~~~	5 - Known thrust fault
~~~~~	6 - Inferred thrust fault
~~~~~	7 - Concealed thrust fault
~~~~~	8 - Known queried thrust fault
~~~~~	13 - Inferred queried thrust fault
~~~~~	15 - Concealed queried thrust fault
—————	9 - Vein
—————	16 - Fault scarp
-----	99 - Boundary

Arc: items county_faults.aat

COLUMN INDEXED?	ITEM NAME	WIDTH	OUTPUT	TYPE	N.DEC	ALTERNATE NAME
1	FNODE#	4	5	B	-	-
5	TNODE#	4	5	B	-	-
9	LPOLY#	4	5	B	-	-
13	RPOLY#	4	5	B	-	-
17	LENGTH	4	12	F	3	-
21	MIN_F_UTM#	4	5	B	-	-
25	MIN_F_UTM-ID	4	5	B	-	-
29	F_CODE	2	2	I	-	-
31	F_TYPE	30	30	C	-	-
61	F_MOVE	2	2	C	-	-
63	F_DIP	2	2	I	-	-

Item description of the .aat file format used for Major and Significant Quaternary and Suspected Quaternary Faults of Nevada Map. Field "F_CODE" contains a fault ID code that is assigned by Craig de Polo, compiler of this data set. Field "F_NAME" is the fault or fault system name as assigned by the author. For further information see appendix B. Below is the items description of the State Wide Active Faults Map .aat file.

Arc: items nv_flt95.aat

COLUMN INDEXED?	ITEM NAME	WIDTH	OUTPUT	TYPE	N.DEC	ALTERNATE NAME
1	FNODE#	4	5	B	-	-
5	TNODE#	4	5	B	-	-
9	LPOLY#	4	5	B	-	-
13	RPOLY#	4	5	B	-	-
17	LENGTH	4	12	F	3	-
21	NV_FLT95#	4	5	B	-	-
25	NV_FLT95-ID	4	5	B	-	-
29	F_CODE	5	5	C	-	-
34	F_NAME	50	50	C	-	-

Summary

The Nevada Bureau of Mines and Geology, with funding assistance from the U.S. Department of Energy, has created digital versions of 1:250,000-scale county geologic and fault maps statewide. These digital geologic maps can now be used as tools for land use planning, resource management, identifying potential geologic hazards, and geologic/mineral resource analysis.

These digital coverages are included with this report on an exabyte tape cartridge. Also included are hard copy plots of each county showing geologic units, contacts, and faults. One statewide hard copy plot of Quaternary faults is also included.

The authors of this report thank the U.S. Department of Energy for the funding assistance that made this project possible. We would also like to thank the diligent and hard working student digitizing staff that assisted us during this project.

APPENDIX A

Major and Significant Quaternary and Suspected Quaternary Faults of Nevada.

Craig M. dePolo

Nevada lies in the heart of the Basin and Range tectonic province, a large region of the western United States where the Earth's crust is being actively extended and translated. This deformation is highly pervasive and is expressed as normal-slip and strike-slip faults throughout Nevada. Literally thousands of Quaternary faults exist in Nevada. Thus, it is necessary to limit the scope of our study to the largest or most significant faults, about 400 in number. With seismic hazard analysis in mind, the study was further limited single trace, continuous fault representations. These can be easily used by computer programs to analyze seismic shaking. "Major" Quaternary faults are the largest or longest faults, and are generally 20 to 30 km or longer in length. "Significant" faults are those near urban areas in Nevada, irrespective of their length, or those in regions where major faults are lacking and the smaller faults represent the local tectonic deformation. "Suspected" Quaternary faults are faults that do not show distinct or classic evidence of Quaternary activity (e.g., fault scarps in alluvium), but exhibit indirect evidence of Quaternary tectonism or only weak, equivocal direct evidence. Types of indirect evidence used include: closed depressions and basins adjacent or related to a fault, fault facets and abrupt mountain fronts related to a fault, and deposition adjacent to, and apparently related to, a fault. In all, only about a dozen or so faults, would fall into the suspected category. Most faults with slip rates of 0.1 mm/yr or greater have identifiable geomorphic expression in the semiarid environment of Nevada.

The fault map was compiled from published and unpublished research and supplemented with research by the Nevada Bureau of Mines and Geology involving photogeologic studies and field work. Three principal studies of faults in all or a large part of Nevada that were used were Slemmons (1966), ERTECH (1981), and the maps of Dohrenwend and others (1993). Maps from these studies and geologic maps were examined for Quaternary faults. Faults were confirmed and delineated when needed through photogeologic interpretation using the photograph collection housed at the Nevada Bureau of Mines and Geology. Scales of the photographs used for faulting range from 1:6000 to 1:60,000.

Faults were labeled in several different ways. First a hierarchy of faults was used that describes whether a fault is a singular feature or a higher order collection of faults. A fault is generally a singular feature, although it may be made up of several traces. When multiple faults become involved in a zone of deformation, it becomes a fault zone. Individual faults or fault zones that together make up a large zone of deformation are called fault systems. In some cases, smaller faults are widely distributed across an area, collectively indicating a significant zone of deformation. These are designated as fault swarms or faults. Some zones of deformation are rather cryptic in nature, although historical earthquakes indicate they may be significant seismic sources, with limits on their seismic potential that are based on the lack of expression. These are designated as seismogenic lineaments or lineaments. A second type of categorization breaks the forementioned faults into deformational segments. These are different portions of a fault that are deforming distinctly differently, even though they are continuous with each other or part of the same fault.

**Major Quaternary
and suspected Quaternary faults**

**Craig M. dePolo
1995**

Deformational segments can be distinguished by differences in the slip vector of the fault, differences in the rate of faulting, or significant differences in the style of faulting. Differences in slip vectors can be caused by fault orientation changes and/or the addition or change in a secondary slip component. The style of faulting also can be related to secondary slip components, as well as differences in fault expression (e.g., a shallower fault dip commonly leads to a more widely distributed surface expression). Deformational segments are indicated by a letter suffix on the fault identification number.

Faults are represented by single traces on the maps. This is for seismic hazard analysis purposes, but there is a practical aspect to this representation as well. It is very time consuming to assure that every fault trace is represented accurately over an area as large and as pervasively faulted as Nevada. Further, not all fault traces represent the hazard posed by the main fault traces. Thus, at the scales considered, 1:250,000 and smaller, single, continuous trace representation was deemed the most useful. An artificial aspect that is introduced by this is the connection between steps in faults, where there is not one mapped. The more major fault steps were represented as boundaries between deformational segments, however. In the selection of which fault trace to represent, the main expression of the fault was the target. This was commonly the most prominently expressed trace of the fault, the range front trace, or the traces along the base of what appears to be hanging wall deformation. In many cases, the decision is easy, for only one trace is available. For fault swarms, where it is common for no major fault traces to be obvious, the axial position of the swarm is used as a representation. The entire lengths of Quaternary or suspected Quaternary activity along faults are represented.

Faults were compiled on mylars overlying mylar AMS 1:250,000 scale topographic maps for registration. Fault names were assigned using the most pronounced topographic feature produced by the fault, or the most notable nearby feature.

This fault map is intended to be used for representing the major faults in Nevada for scientific and emergency management communication purposes, making moderate and small-scale seismic hazard maps (e.g., statewide or regional planning basis), and for deformational analysis of the earth's crust. This map is not intended for site-specific seismic hazard studies or to be used at scales of greater than 1:250,000. Because of the single line method of fault representation, these maps cannot be used for surface faulting hazard; there are not always fault traces directly under the representation line. For general representations of fault traces, Dohrenwend and others maps can be used.

REFERENCES

Bell, J.W., 1984, Quaternary fault map of Nevada, Reno 1 by 2 degree sheet: Nevada Bureau of Mines and Geology, Nevada Bureau of Mines and Geology Map 79, map 1:250,000

Dohrenwend, J.C., 1982, Late Cenozoic faults, Walker Lake Quadrangle, Nevada and California: U. S. Geological Survey, Miscellaneous Field Studies Map MF-1382D, map 1:250,000

Dohrenwend, J.C. and Moring, B.C., 1991, Reconnaissance photogeologic map of young faults in the Vya 1 by 2 degree Quadrangle, Nevada, Oregon, and California: U. S. Geological Survey, Miscellaneous Field Studies Map MF-2174, map 1:250,000

Dohrenwend, J.C. and Moring, B.C., 1991, Reconnaissance photogeologic map of young faults in the Winnemucca 1 by 2 degree Quadrangle, Nevada: U.S. Geological Survey, Miscellaneous Field Studies Map MF-2175, map 1:250,000

Dohrenwend, J.C. and Moring, B.C., 1991, Reconnaissance photogeologic map of young faults in the McDermitt 1 by 2 degree Quadrangle, Nevada, Oregon, and Idaho: U.S. Geological Survey, Miscellaneous Field Studies Map MF-2177, map 1:250,000

Dohrenwend, J.C., McKittrick, M.A., and Moring, B.C., 1991, Reconnaissance photogeologic map of young faults in the Lovelock 1 by 2 degree Quadrangle, Nevada and California: U. S. Geological Survey, Miscellaneous Field Studies Map MF-2178, map 1:250,000

Dohrenwend, J.C., McKittrick, M.A., and Moring, B.C., 1991, Reconnaissance photogeologic map of young faults in the Wells 1 by 2 degree Quadrangle, Nevada, Utah, and Idaho: U.S. Geological Survey, Miscellaneous Field Studies Map MF-2184, map 1:250,000

Dohrenwend, J.C., Menges, C.M., Schell, B.A., and Moring, B.C., 1991, Reconnaissance photogeologic map of young faults in the Las Vegas 1 by 2 degree Quadrangle, Nevada, California, and Arizona: U.S. Geological Survey, Miscellaneous Field Studies Map MF-2182, map 1:250,000

Dohrenwend, J.C., Schell, B.A., and Moring, B.C., 1991, Reconnaissance photogeologic map of young faults in the Lund 1 by 2 degree Quadrangle, Nevada and Utah: U.S. Geological Survey, Miscellaneous Field Studies Map MF-2180, map 1:250,000

Dohrenwend, J.C., Schell, B.A., and Moring, B.C., 1991, Reconnaissance photogeologic map of young faults in the Ely 1 by 2 degree Quadrangle, Nevada and Utah: U.S. Geological Survey, Miscellaneous Field Studies Map MF-2181, map 1:250,000

Dohrenwend, J.C., Schell, B.A., and Moring, B.C., 1991, Reconnaissance photogeologic map of young faults in the Elko 1 by 2 degree Quadrangle, Nevada and Utah: U.S. Geological Survey, Miscellaneous Field Studies Map MF-2179, map 1:250,000

Dohrenwend, J.C., Schell, B.A., McKittrick, M.A., and Moring, B.C., 1992, Reconnaissance photogeologic map of young faults in the Goldfield 1 by 2 degree Quadrangle, Nevada and California: U.S. Geological Survey, Miscellaneous Field Studies Map MF-2183, map 1:250,000

Dohrenwend, J.C., Schell, B.A., and Moring, B.C., 1992, Reconnaissance photogeologic map of young faults in the Millett 1 by 2 degree Quadrangle, Nevada: U.S. Geological Survey, Miscellaneous Field Studies Map MF-2176, map 1:250,000

Ertec Western, Inc., 1981, Faults and lineaments in the MX siting region, Nevada and Utah, 77 p., maps 1:250,000

Scott, R.B., and Bonk, J., 1984, Preliminary geologic map of Yucca Mountain, Nye County, Nevada, with cross sections: U.S. Geological Survey, Open-File Report 84-494, 9 p. and 3 plates (1:12,000)

Slemmons, D.B., 1967, Pliocene and Quarternary crustal movements of the Basin and Range province, U.S.A.: Osaka City University, Journal of Science, v.10, p.91 - 103

APPENDIX B

Standard Nevada Bureau of Mines and Geology metadata forms. One completed form is provided for each projected coverage. These forms can also be found on the exabyte tape, as part of the tar file, in "county/docs/metadata.dbf" as a dbase III+ file and "county/docs/metadata.prn" as a printer text file.

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: chu_f_utm

SHORT_LOCATION: Churchill County, Nevada

LONG_LOCATION: 39°N to 40°N ; 117°30'W to 119°10'W

DESCRIPTION: Fault Map of Churchill County, Nevada, with fault type short code and long type name attributes in the AAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: faults

TOPOLOGY: ARC

PRECISION: single

NUMBER_RECORDS: 1502 in aat

NUMBER_FIELDS: 11 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Willden, R. and Speed, R.C., 1974 Geology and Mineral Deposits of Churchill County, Nevada; Nevada Bureau of Mines and Geology Bulletin 83, Plate 1, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Reno & Millett 1by2° quads

SOURCE_DATE: 1974

COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada 89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbgm.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: chu_g_utm

SHORT_LOCATION: Churchill County, Nevada

LONG_LOCATION: 39°N to 40°N ; 117°30'W to 119°10'W

DESCRIPTION: Geologic Map of Churchill County, Nevada, with geologic unit short code and name attributes in the PAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: geology

TOPOLOGY: polygon

PRECISION: single

NUMBER_RECORDS: 1217 in pat, 3740 in aat

NUMBER_FIELDS: 6 in pat, 9 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Willden, R. and Speed, R.C., 1974 Geology and Mineral Deposits of Churchill County, Nevada; Nevada Bureau of Mines and Geology Bulletin 83, Plate 1, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Reno & Millett 1by2° quads

SOURCE_DATE: 1974

COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada 89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbmg.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: cla_f_utm

SHORT_LOCATION: Clark County, Nevada

LONG_LOCATION: 35°N to 36°50'N ; 114°W to 115°55'W

DESCRIPTION: Fault Map of Clark County, Nevada, with fault type short code and long type name attributes in the AAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: faults

TOPOLOGY: ARC

PRECISION: single

NUMBER_RECORDS: 1552 in aat

NUMBER_FIELDS: 11 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Longwell, C.R., Pampeyan, E.H., Bowyer, B., and Roberts, R.J., 1979, Geology and Mineral Deposits of Clark County, Nevada; Nevada Bureau of Mines and Geology Bulletin 62, Plate 1, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Las Vegas & Kingman 1by2° quads

SOURCE_DATE: 1979

COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada 89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbmg.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: cla_g_utm

SHORT_LOCATION: Clark County, Nevada

LONG_LOCATION: 35°N to 36°50'N ; 114°W to 115°55'W

DESCRIPTION: Geologic map of Clark County, Nevada, with geologic unit short code and name attributes in the PAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: geology

TOPOLOGY: polygons

PRECISION: single

NUMBER_RECORDS: 1292 in pat, 3941 in aat

NUMBER_FIELDS: 7 in pat, 9 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Longwell, C.R., Pampeyan, E.H., Bowyer, B., and Roberts, R.J., 1979, Geology and Mineral Deposits of Clark County, Nevada; Nevada Bureau of Mines and Geology Bulletin 62, Plate 1, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Las Vegas & Kingman 1by2° quads

SOURCE_DATE: 1979

COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada 89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbgm.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

● COVERAGE_NAME: elk_f_utm

SHORT_LOCATION: Elko County, Nevada

LONG_LOCATION: 40°5'N to 42°N ; 114°W to 117°W

DESCRIPTION: Fault Map of Elko County, Nevada, with fault type short code and long type name attributes in the AAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: faults

TOPOLOGY: ARC

PRECISION: single

NUMBER_RECORDS: 11671 in aat

NUMBER_FIELDS: 11 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

● GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Coats, R.R., 1987 Geology of Elko County, Nevada;
Nevada Bureau of Mines and Geology Bulletin 101,
Plate 1, 1:250,000 scale

● SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Wells, Elko, & McDermitt 1by2° quads

SOURCE_DATE: 1987

COMMENTS: Original published report used several USGS 1 by
2 degree quadrangles pasted together, edge to
edge, and then published as one map.

● PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University
of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

● EMAIL: rhess@nbmg.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: elk_g_utm

SHORT_LOCATION: Elko County, Nevada

LONG_LOCATION: 40°5'N to 42°N ; 114°W to 117°W

DESCRIPTION: Geologic Map of Elko County, Nevada, with geologic unit short code and name attributes in the PAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: geology

TOPOLOGY: polygons

PRECISION: single

NUMBER_RECORDS: 5906 in pat, 18678 in aat

NUMBER_FIELDS: 6 in pat, 9 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Coats, R.R., 1987 Geology of Elko County, Nevada;
Nevada Bureau of Mines and Geology Bulletin 101,
Plate 1, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Wells, Elko, & McDermitt 1by2° quads

SOURCE_DATE: 1987

COMMENTS: Original published report used several USGS 1 by
2 degree quadrangles pasted together, edge to
edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University
of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbmg.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

● COVERAGE_NAME: esm_f_utm

SHORT_LOCATION: Esmeralda County, Nevada

LONG_LOCATION: 37°N to 38°30'N ; 117°10'W to 118°30'W

DESCRIPTION: Geologic Map of Esmeralda County, Nevada, with fault type short code and long type name attributes in the AAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: faults

TOPOLOGY: ARC

PRECISION: single

NUMBER_RECORDS: 2613 in aat

NUMBER_FIELDS: 11 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Albers, J.P. and Stewart, J.H., 1972, Geology and Mineral Deposits of Esmeralda County, Nevada; Nevada Bureau of Mines and Geology Bulletin 78, Plate 1, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Goldfield, Tonopah, & Mariposa 1by2° qua

SOURCE_DATE: 1972

COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada 89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

● CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbgm.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: esm_g_utm

SHORT_LOCATION: Esmeralda County, Nevada

LONG_LOCATION: 37°N to 38°30'N ; 117°10'W to 118°30'W

DESCRIPTION: Geologic Map of Esmeralda County, Nevada, with geologic short code and name attributes in the PAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: geology

TOPOLOGY: polygons

PRECISION: single

NUMBER_RECORDS: 2727 in pat, 7534 in aat

NUMBER_FIELDS: 6 in pat, 9 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Albers, J.P. and Stewart, J.H., 1972, Geology and Mineral Deposits of Esmeralda County, Nevada; Nevada Bureau of Mines and Geology Bulletin 78, Plate 1, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Goldfield, Tonopah, & Mariposa 1by2° qua

SOURCE_DATE: 1972

COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada 89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbgm.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: eu_f_utm

SHORT_LOCATION: Eureka County, Nevada

LONG_LOCATION: 39°10'N to 41°N ; 115°45'W to 116°35'W

DESCRIPTION: Fault map of Eureka County, Nevada, with fault type short code and long name type attributes in the AAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: faults

TOPOLOGY: ARC

PRECISION: single

NUMBER_RECORDS: 2004 in aat

NUMBER_FIELDS: 11 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Roberts, R.J., Montgomery, K.M., and Lehner, R.E., 1967, Geology and Mineral Resources of Eureka County, Nevada; Nevada Bureau of Mines and Geology Bulletin 64, Plate 2, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Millett, Winnemucca, & Ely 1by2° quad

SOURCE_DATE: 1967

COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada 89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbgm.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: eu_g_utm

SHORT_LOCATION: Eureka County, Nevada

LONG_LOCATION: 39°10'N to 41°N ; 115°45'W to 116°35'W

DESCRIPTION: Geologic map of Eureka County, Nevada, with geologic unit short code and name attributes in the PAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: geology

TOPOLOGY: polygons

PRECISION: single

NUMBER_RECORDS: 809 in pat, 3219 in aat

NUMBER_FIELDS: 6 in pat, 9 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Roberts, R.J., Montgomery, K.M., and Lehner, R.E.,
1967, Geology and Mineral Resources of Eureka
County, Nevada; Nevada Bureau of Mines and Geology
Bulletin 64, Plate 2, 1:250,000 scale

SOURCE_MATERIAL: mylar SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Millett, Winnemucca, & Ely 1by2° quad

SOURCE_DATE: 1967

COMMENTS: Original published report used several USGS 1 by
2 degree quadrangles pasted together, edge to
edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University
of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbgm.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

● COVERAGE_NAME: hum_f_utm

SHORT_LOCATION: Humboldt County, Nevada

LONG_LOCATION: 40°40'N to 42°N ; 117°W to 119°17'W

DESCRIPTION: Fault map of Humboldt County, Nevada, with fault type short code and long name type attributes in the AAT.

● DATE_DIGITIZED: 1995

FEATURE_TYPES: faults

TOPOLOGY: ARC

PRECISION: single

NUMBER_RECORDS: 589 in aat

NUMBER_FIELDS: 11 in aat

● SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Willden, R., 1964, Geology and Mineral Deposits of Humboldt County, Nevada; Nevada Bureau of Mines and Geology Bulletin 59, Plate 1, 1:250,000 scale

● SOURCE_MATERIAL: mylar SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Vya, Lovelock, & McDermitt 1by2° quad

SOURCE_DATE: 1964

COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map.

● PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada 89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

● TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbmg.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: hum_g_utm

SHORT_LOCATION: Humboldt County, Nevada

LONG_LOCATION: 40°40'N to 42°N ; 117°W to 119°17'W

DESCRIPTION: Geologic map of Humboldt County, Nevada, with Geologic short code and name attributes in the PAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: geology

TOPOLOGY: ARC

PRECISION: single

NUMBER_RECORDS: 1057 in pat

NUMBER_FIELDS: 6 in pat, 9 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Willden, R., 1964, Geology and Mineral Deposits of Humboldt County, Nevada; Nevada Bureau of Mines and Geology Bulletin 59, Plate 1, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Vya, Lovelock, & McDermitt 1by2° quad

SOURCE_DATE: 1964

COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbgm.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

● COVERAGE_NAME: lan_f_utm

SHORT_LOCATION: Lander County, Nevada

LONG_LOCATION: 10'N to 41 degrees North 38'W to 117 degrees 45'W;
Latitude 39 degrees Longitude 116 degrees

● DESCRIPTION: Fault map of Lander County with fault type short code
and long type name attributes in the AAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: faults

TOPOLOGY: ARC

PRECISION: single

NUMBER_RECORDS: 3334 in aat

● NUMBER_FIELDS: 11 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

● DATA_REFERENCE: Stewart, J.H. and McKee, E.H., 1977, Geology and
Mineral Deposits of Lander County, Nevada; Nevada
Bureau of Mines and Geology Bulletin 88, Plate 1,
1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Winnemucca & Millett 1by2 degree quad

SOURCE_DATE: 1977

● COMMENTS: Original published report used several USGS 1 by
2 degree quadrangles pasted together, edge to
edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University
of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

● CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbgm.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: lan_g_utm

SHORT_LOCATION: Lander County, Nevada

LONG_LOCATION: 10'N to 41 degrees North 38'W to 117 degrees 45'W;
Latitude 39 degrees Longitude 116 degrees

DESCRIPTION: Geology map of Lander County with geologic unit short code and name attributes in the PAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: geology

TOPOLOGY: polygons

PRECISION: single

NUMBER_RECORDS: 1786 in pat

NUMBER_FIELDS: 6 in pat, 9 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Stewart, J.H. and McKee, E.H., 1977, Geology and Mineral Deposits of Lander County, Nevada; Nevada Bureau of Mines and Geology Bulletin 88, Plate 1, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Winnemucca & Millett 1by2 degree quad

SOURCE_DATE: 1977

COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbgm.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

● COVERAGE_NAME: ldc_f_utm

SHORT_LOCATION: Lyon, Douglas, and Ormsby (Carson City) Counties, Nevada

LONG_LOCATION: 38°27'N to 39°35'N ; 118°45'W to 120°W

DESCRIPTION: Fault map of Lyon, Douglas, and Ormsby Counties, Nevada, with fault type short code and long name type attributes in the AAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: faults

TOPOLOGY: ARC

PRECISION: single

NUMBER_RECORDS: 2304 in aat

NUMBER_FIELDS: 11 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas, and Ormsby Counties, Nevada; Nevada Bureau of Mines and Geology Bulletin 75, Plate 1, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Walker Lake & Reno 1by2° quads

SOURCE_DATE: 1969

COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada 89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbgm.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: ldc_g_utm

SHORT_LOCATION: Lyon, Douglas, and Ormsby (Carson City) Counties, Nevada
LONG_LOCATION: 38°27'N to 39°35'N ; 118°45'W to 120°W

DESCRIPTION: Geologic map of Lyon, Douglas, and Ormsby Counties, Nevada, with geologic short code and name attributes in the PAT.

DATE_DIGITIZED: 1995
FEATURE_TYPES: geology
TOPOLOGY: polygons
PRECISION: single

NUMBER_RECORDS: 798 in pat, 2912 in aat
NUMBER_FIELDS: 6 in pat, 9 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines
GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2
PROJECTION: UTM
DATUM: NAD27
PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north
DATA_REFERENCE: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas, and Ormsby Counties, Nevada; Nevada Bureau of Mines and Geology Bulletin 75, Plate 1, 1:250,000 scale

SOURCE_MATERIAL: mylar
SOURCE_SCALE: 250000
SOURCE_PROJECTION: Transverse Mercator, Walker Lake & Reno 1by2° quads
SOURCE_DATE: 1969
COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada 89557-0088
PROJECT_NAME: County Digital Geologic Mapping Project
CONTACT: Ron Hess, Gary Johnson
TELEPHONE: 702-784-6691
FAX: 702-784-1709
EMAIL: rhess@nbmg.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

● COVERAGE_NAME: lin_f_utm

SHORT_LOCATION: Lincoln County, Nevada

LONG_LOCATION: 36°45'N to 38°40'N ; 114°W to 115°50'W

DESCRIPTION: Fault Map of Lincoln County, Nevada, with fault type code and type attribute in the AAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: faults

TOPOLOGY: ARC

PRECISION: single

NUMBER_RECORDS: 2837 in aat

NUMBER_FIELDS: 11 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Tschanz, C.M. and Pampeyan, E.H., 1970, Geology and Mineral Deposits of Lincoln County, Nevada; Nevada Bureau of Mines and Geology Bulletin 73, Plate 2, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Lund, Caliente, & Las Vegas 1by2 quad

SOURCE_DATE: 1970

COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada 89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbmg.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

● COVERAGE_NAME: lin_g_utm

SHORT_LOCATION: Lincoln County, Nevada

LONG_LOCATION: 36°45'N to 38°40'N ; 114°W to 115°50'W

DESCRIPTION: Geologic Map of Lincoln County, Nevada, with geologic short code and name attributes in the PAT.

● DATE_DIGITIZED: 1995

FEATURE_TYPES: geology

TOPOLOGY: polygons

PRECISION: single

NUMBER_RECORDS: 3599 in pat, 10415 in aat

NUMBER_FIELDS: 6 in pat, 9 in aat

● SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Tschanz, C.M. and Pampeyan, E.H., 1970, Geology and Mineral Deposits of Lincoln County, Nevada; Nevada Bureau of Mines and Geology Bulletin 73, Plate 2, 1:250,000 scale

● SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Lund, Caliente, & Las Vegas 1by2 quad

SOURCE_DATE: 1970

● COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada 89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

● TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbmg.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

● COVERAGE_NAME: min_f_utm

SHORT_LOCATION: Mineral County, Nevada

LONG_LOCATION: 37°50'N to 39°05'N ; 117°50'W to 119°10'W

DESCRIPTION: Fault Map of Mineral County, Nevada, with fault type
short code and long type name attributes in the AAT.

● DATE_DIGITIZED: 1995

FEATURE_TYPES: faults

TOPOLOGY: ARC

PRECISION: single

NUMBER_RECORDS: 502 in aat

NUMBER_FIELDS: 11 in aat

● SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Ross, D.C., 1961, Geology and Mineral Deposits of
Mineral County, Nevada; Nevada Bureau of Mines and
Geology Bulletin 58, Plate 2, 1:250,000 scale

● SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Walker Lake & Tonopah, 1by2° quads

SOURCE_DATE: 1961

COMMENTS: Original published report used several USGS 1 by
2 degree quadrangles pasted together, edge to
edge, and then published as one map.

● PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University
of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

● EMAIL: rhess@nbmg.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: min_g_utm

SHORT_LOCATION: Mineral County, Nevada

LONG_LOCATION: 37°50'N to 39°05'N ; 117°50'W to 119°10'W

DESCRIPTION: Geologic Map of Mineral County, Nevada, with geologic short code and name attributes in the PAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: geology

TOPOLOGY: polygons

PRECISION: single

NUMBER_RECORDS: 872 in pat, 2353 in aat

NUMBER_FIELDS: 6 in pat, 9 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Ross, D.C., 1961, Geology and Mineral Deposits of Mineral County, Nevada; Nevada Bureau of Mines and Geology Bulletin 58, Plate 2, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Walker Lake & Tonopah, 1by2° quads

SOURCE_DATE: 1961

COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbmg.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: nnye_f_utm

SHORT_LOCATION: Northern Nye County, Nevada

LONG_LOCATION: 38°N to 39°10'N ; 115°W to 118°15'W

DESCRIPTION: Fault Map of Northern Nye County, Nevada, with fault type short code and long type name attributes in the AAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: faults

TOPOLOGY: ARC

PRECISION: single

NUMBER_RECORDS: 11292 in aat

NUMBER_FIELDS: 11 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Kleinhampl, F.J. and Ziony, J.I., 1985, Geology of Northern Nye County, Nevada; Nevada Bureau of Mines and Geology Bulletin 99A, Plate A1A, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Tonopah, Walker Lake, & Lund 1by2° qua

SOURCE_DATE: 1985

COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbgm.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: nv_flt95

SHORT_LOCATION: Nevada active fault map.

LONG_LOCATION: Nevada

DESCRIPTION: Major active faults in Nevada from 1:250,000 scale compilation and ongoing research.

DATE_DIGITIZED: 1995

FEATURE_TYPES: faults

TOPOLOGY: ARCS

PRECISION: single

NUMBER_RECORDS: 560 in aat

NUMBER_FIELDS: 9 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Craig de Polo, 1995, ongoing research effort: Nevada Bureau of Mines and Geology.

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, 1 by 2° quads

SOURCE_DATE: 1995

COMMENTS: Compilation supplied by Craig de Polo. Compiled from 1:250,000 scale mylars from research in progress.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada 89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbgm.unr.edu

REMARKS: Data base designed for regional and small scale analysis.

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: nyen_g_utm

SHORT_LOCATION: Northern Nye County, Nevada

LONG_LOCATION: 38°N to 39°10'N ; 115°W to 118°15'W

DESCRIPTION: Geologic Map of Northern Nye County, Nevada, with
geologic unit short code and name attributes in the
PAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: geology

TOPOLOGY: polygon

PRECISION: single

NUMBER_RECORDS: 5041 in pat, 16011 in aat

NUMBER_FIELDS: 6 in pat, 9 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Kleinhampl, F.J. and Ziony, J.I., 1985, Geology of
Northern Nye County, Nevada; Nevada Bureau of Mines
and Geology Bulletin 99A, Plate A1A, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Tonopah, Walker Lake, & Lund 1by2° qua

SOURCE_DATE: 1985

COMMENTS: Original published report used several USGS 1 by
2 degree quadrangles pasted together, edge to
edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University
of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbmg.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

● COVERAGE_NAME: nyes_f_utm

SHORT_LOCATION: Southern Nye County, Nevada

LONG_LOCATION: 36°N to 38°N ; 115°55'W to 117°10'W

DESCRIPTION: Fault Map of Southern Nye County, Nevada, with fault type short code and long type name attributes in the AAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: faults

TOPOLOGY: ARC

PRECISION: single

NUMBER_RECORDS: 2189 in aat

NUMBER_FIELDS: 12 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Cornwall, H.R., 1972, Geology and Mineral Deposits of Southern Nye County, Nevada; Nevada Bureau of Mines and Geology Bulletin 77, Plate 1, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Goldfield & Death Valley 1by2° quads

SOURCE_DATE: 1972

COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada 89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

● CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbgm.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

● COVERAGE_NAME: nyes_g_utm

SHORT_LOCATION: Southern Nye County, Nevada

LONG_LOCATION: 36°N to 38°N ; 115°55'W to 117°10'W

DESCRIPTION: Geologic Map of Southern Nye County, Nevada, with
geologic short code and name attributes in the PAT.

● DATE_DIGITIZED: 1995

FEATURE_TYPES: geology

TOPOLOGY: polygons

PRECISION: single

NUMBER_RECORDS: 1861 in pat, 5632 in aat

NUMBER_FIELDS: 8 in pat, 10 in aat

● SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Cornwall, H.R., 1972, Geology and Mineral Deposits
of Southern Nye County, Nevada; Nevada Bureau of
Mines and Geology Bulletin 77, Plate 1, 1:250,000
scale

● SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Goldfield & Death Valley 1by2° quads

SOURCE_DATE: 1972

● COMMENTS: Original published report used several USGS 1 by
2 degree quadrangles pasted together, edge to
edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University
of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

● TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbmg.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: per_f_utm

SHORT_LOCATION: Pershing County, Nevada

LONG_LOCATION: 30' W, 41 degrees N. 20' W, 40 degrees N; 119 degrees
117 degrees,

DESCRIPTION: Fault map of Pershing County with fault type code and
type attribute in the AAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: faults

TOPOLOGY: ARC

PRECISION: single

NUMBER_RECORDS: 994 in aat

NUMBER_FIELDS: 11 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Johnson, M.G., 1977, Geology and Mineral Deposits of
Pershing County, Nevada; Nevada Bureau of Mines and
Geology Bulletin 89, Plate 1, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Lovelock & Winnemucca 1by2 degree qua

SOURCE_DATE: 1977

COMMENTS: Original published report used several USGS 1 by
2 degree quadrangles pasted together, edge to
edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University
of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbmg.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

● COVERAGE_NAME: per_g_utm

SHORT_LOCATION: Pershing County, Nevada
LONG_LOCATION: 30' W, 41 degrees N. 20' W, 40 degrees N; 119 degrees
117 degrees,

DESCRIPTION: Geologic map of Pershing County with geologic unit
short code and name attributes in the PAT.

DATE_DIGITIZED: 1995
FEATURE_TYPES: geology
TOPOLOGY: polygons PRECISION: single
NUMBER_RECORDS: 1879 in pat, 5444 in aat
NUMBER_FIELDS: 6 in pat, 9 in aat
SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines
GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2
PROJECTION: UTM
DATUM: NAD27 PROJECTION_UNITS: meters
PROJECTION_SPECIFICATIONS: Zone 11, north
DATA_REFERENCE: Johnson, M.G., 1977, Geology and Mineral Deposits of
Pershing County, Nevada; Nevada Bureau of Mines and
Geology Bulletin 89, Plate 1, 1:250,000 scale
SOURCE_MATERIAL: mylar SOURCE_SCALE: 250000
SOURCE_PROJECTION: Transverse Mercator, Lovelock & Winnemucca 1by2 degree qua
SOURCE_DATE: 1977
COMMENTS: Original published report used several USGS 1 by
2 degree quadrangles pasted together, edge to
edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University
of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088
PROJECT_NAME: County Digital Geologic Mapping Project
CONTACT: Ron Hess, Gary Johnson
● TELEPHONE: 702-784-6691 FAX: 702-784-1709
EMAIL: rhess@nbmg.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: washn_f_utm

SHORT_LOCATION: Northern Washoe County, Nevada

LONG_LOCATION: 39° 07.5'N, 120°W; 42°N, 119° 20'W

DESCRIPTION: Fault Map of Northern Washoe County with fault type
code attribute.

DATE_DIGITIZED: 1995

FEATURE_TYPES: faults

TOPOLOGY: ARC

PRECISION: single

NUMBER_RECORDS: 792 in aat

NUMBER_FIELDS: 11 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, North

DATA_REFERENCE: Bonham, H.F., 1969, Geology and Mineral Deposits of
Washoe and Storey Counties, Nevada; Nevada Bureau of
Mines and Geology Bulletin 70, Plate 1, 1:250,000
scale.

SOURCE_MATERIAL: mylar SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Vya & Lovelock 1by2 degree Quads

SOURCE_DATE: 1969

COMMENTS: Original published report used several USGS 1 by
2 degree quadrangles pasted together, edge to
edge, and then published as one map sheet.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University
of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbmg.unr.edu

REMARKS: Map digitized in two sections as found on published
plate.

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: washn_g_utm

SHORT_LOCATION: Northern Washoe County, Nevada

LONG_LOCATION: 39° 07.5'N, 120°W; 42°N, 119° 20'W

DESCRIPTION: Geologic Map of Northern Washoe County with geologic unit short code and name attributes in the PAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: geology

TOPOLOGY: polygons

PRECISION: single

NUMBER_RECORDS: 326 in pat, 1136 in aat

NUMBER_FIELDS: 6 in pat, 9 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, North

DATA_REFERENCE: Bonham, H.F., 1969, Geology and Mineral Deposits of Washoe and Storey Counties, Nevada; Nevada Bureau of Mines and Geology Bulletin 70, Plate 1, 1:250,000 scale.

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Vya & Lovelock 1by2 degree Quads

SOURCE_DATE: 1969

COMMENTS: Original published report used several USGS 1 by 2 degree quadrangles pasted together, edge to edge, and then published as one map sheet.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbmg.unr.edu

REMARKS: Map digitized in two sections as found on published plate.

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: washs_f_utm

SHORT_LOCATION: Southern Washoe and Storey Counties, Nevada

LONG_LOCATION: 39° 07.5'N, 120°W; 42°N, 119° 20'W

DESCRIPTION: Fault Map of Southern Washoe and Storey Counties with
fault type code attribute.

DATE_DIGITIZED: 1995

FEATURE_TYPES: faults

TOPOLOGY: ARC

PRECISION: single

NUMBER_RECORDS: 2262 in aat

NUMBER_FIELDS: 11 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, North

DATA_REFERENCE: Bonham, H.F., 1969, Geology and Mineral Deposits of
Washoe and Storey Counties, Nevada; Nevada Bureau of
Mines and Geology Bulletin 70, Plate 1, 1:250,000
scale.

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Reno & Lovelock 1by2 degree Quads

SOURCE_DATE: 1969

COMMENTS: Original published report used several USGS 1 by
2 degree quadrangles pasted together, edge to
edge, and then published as one map sheet.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University
of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbgm.unr.edu

REMARKS: Map digitized in two sections as found on published
plate.

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: washs_g_utm

SHORT_LOCATION: Southern Washoe and Storey Counties, Nevada

LONG_LOCATION: 39° 07.5'N, 120°W; 42°N, 119° 20'W

DESCRIPTION: Geologic Map of Washoe and Storey Counties with
geologic unit short code and name attributes in the
PAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: geology

TOPOLOGY: polygons

PRECISION: single

NUMBER_RECORDS: 886 in pat, 3241 in aat

NUMBER_FIELDS: 6 in pat, 9 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, North

DATA_REFERENCE: Bonham, H.F., 1969, Geology and Mineral Deposits of
Washoe and Storey Counties, Nevada; Nevada Bureau of
Mines and Geology Bulletin 70, Plate 1, 1:250,000
scale.

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Reno & Lovelock 1by2 degree Quads

SOURCE_DATE: 1969

COMMENTS: Original published report used several USGS 1 by
2 degree quadrangles pasted together, edge to
edge, and then published as one map sheet.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University
of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbmg.unr.edu

REMARKS: Map digitized in two sections as found on published
plate.

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: wp_f_utm

SHORT_LOCATION: White Pine County, Nevada

LONG_LOCATION: 40 degrees North 45' North to 116 degrees West,
Latitude 38 degrees Longitude 114 degrees West to

DESCRIPTION: Fault map of White Pine County with fault type short
code and long type name attributes in the AAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: faults

TOPOLOGY: ARC

PRECISION: single

NUMBER_RECORDS: 9050 in aat

NUMBER_FIELDS: 11 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Hose, R.K. and Blake, M.C., 1976, Geology and
Mineral Resources of White Pine County, Nevada;
Nevada Bureau of Mines and Geology Bulletin 85,
Plate 1, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Elko, Ely, & Lund 1by2 degree quads

SOURCE_DATE: 1976

COMMENTS: Original published report used several USGS 1 by
2 degree quadrangles pasted together, edge to
edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University
of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbgm.unr.edu

REMARKS:

DIGITAL MAP COVERAGE METADATA REPORT - NBMG

COVERAGE_NAME: wp_g_utm

SHORT_LOCATION: White Pine County, Nevada

LONG_LOCATION: 40 degrees North 45' North to 116 degrees West,
Latitude 38 degrees Longitude 114 degrees West to

DESCRIPTION: Geologic map of White Pine County with geologic unit
short code and name attributes in the PAT.

DATE_DIGITIZED: 1995

FEATURE_TYPES: geology

TOPOLOGY: polygons

PRECISION: single

NUMBER_RECORDS: 4080 in pat, 12659 in aat

NUMBER_FIELDS: 6 in pat, 9 in aat

SYSTEM_TYPE: SUN SPARC II, SUN IPCs, and PC-DOS machines

GIS_SOFTWARE: ARC/INFO 6.1.1 and PC ARC/INFO 3.4.2

PROJECTION: UTM

DATUM: NAD27

PROJECTION_UNITS: meters

PROJECTION_SPECIFICATIONS: Zone 11, north

DATA_REFERENCE: Hose, R.K. and Blake, M.C., 1976, Geology and
Mineral Resources of White Pine County, Nevada;
Nevada Bureau of Mines and Geology Bulletin 85,
Plate 1, 1:250,000 scale

SOURCE_MATERIAL: mylar

SOURCE_SCALE: 250000

SOURCE_PROJECTION: Transverse Mercator, Elko, Ely, & Lund 1by2 degree quads

SOURCE_DATE: 1976

COMMENTS: Original published report used several USGS 1 by
2 degree quadrangles pasted together, edge to
edge, and then published as one map.

PRIMARY_AGENCY: Nevada Bureau of Mines and Geology, University
of Nevada, Reno, M.S. 178, Reno, Nevada
89557-0088

PROJECT_NAME: County Digital Geologic Mapping Project

CONTACT: Ron Hess, Gary Johnson

TELEPHONE: 702-784-6691

FAX: 702-784-1709

EMAIL: rhess@nbmg.unr.edu

REMARKS:

APPENDIX C

Appendix C is a directory listing of the files and file structure contained, as a UNIX tar file, on the exabyte tape included with this report. This list is also contained as a text file called "list" and located in the "county/docs/" directory on the exabyte tape. Naming convention format is "short county name_faults or geology(f or g)_inch or UTM coverage.

```
county/county_f/nye_s/nyes_f_inch.e00
county/county_f/nye_s/nyes_f_utm.e00
county/county_f/nye_s
county/county_f/nye_n/nnye_f_inch.e00
county/county_f/nye_n/nnye_f_utm.e00
county/county_f/nye_n
county/county_f/washoe_n/washn_f_inch.e00
county/county_f/washoe_n/washn_f_utm.e00
county/county_f/washoe_n
county/county_f/washoe_s/washs_f_inch.e00
county/county_f/washoe_s/washs_f_utm.e00
county/county_f/washoe_s
county/county_f/lyon_d_o/ldc_f_inch.e00
county/county_f/lyon_d_o/ldc_f_utm.e00
county/county_f/lyon_d_o
county/county_f/mineral/min_f_inch.e00
county/county_f/mineral/min_f_utm.e00
county/county_f/mineral
county/county_f/pershing/per_f_inch.e00
county/county_f/pershing/per_f_utm.e00
county/county_f/pershing
county/county_f/humboldt/hum_f_utm.e00
county/county_f/humboldt/hum_f_inch.e00
county/county_f/humboldt
county/county_f/elko/elk_f_utm.e00
county/county_f/elko/elk_f_inch.e00
county/county_f/elko
county/county_f/w_pine/wp_f_inch.e00
county/county_f/w_pine/wp_f_utm.e00
county/county_f/w_pine
county/county_f/esmeralda/esm_f_inch.e00
county/county_f/esmeralda/esm_f_utm.e00
county/county_f/esmeralda
county/county_f/lincoln/lin_f_inch.e00
county/county_f/lincoln/lin_f_utm.e00
county/county_f/lincoln
county/county_f/clark/cla_f_utm.e00
county/county_f/clark
county/county_f/eureka/eu_f_inch.e00
county/county_f/eureka/eu_f_utm.e00
county/county_f/eureka
county/county_f/lander/lan_f_inch.e00
county/county_f/lander/lan_f_utm.e00
county/county_f/lander
county/county_f/churchill/chu_f_inch.e00
county/county_f/churchill/chu_f_utm.e00
county/county_f/churchill
county/county_f
```

county/county_g/nye_s/nyes_g_inch.e00
county/county_g/nye_s/nyes_g_utm.e00
county/county_g/nye_s
county/county_g/nye_n/nyen_g_inch.e00
county/county_g/nye_n/nyen_g_utm.e00
county/county_g/nye_n
county/county_g/washoe_n/washn_g_utm.e00
county/county_g/washoe_n/washn_g_inch.e00
county/county_g/washoe_n
county/county_g/washoe_s/washs_g_inch.e00
county/county_g/washoe_s/washs_g_utm.e00
county/county_g/washoe_s
county/county_g/lyon_d_o/ldc_g_inch.e00
county/county_g/lyon_d_o/ldc_g_utm.e00
county/county_g/lyon_d_o
county/county_g/mineral/min_g_inch.e00
county/county_g/mineral/min_g_utm.e00
county/county_g/mineral
county/county_g/pershing/per_g_inch.e00
county/county_g/pershing/per_g_utm.e00
county/county_g/pershing
county/county_g/humboldt/hum_g_utm.e00
county/county_g/humboldt/hum_g_inch.e00
county/county_g/humboldt
county/county_g/elko/elk_g_inch.e00
county/county_g/elko/elk_g_utm.e00
county/county_g/elko
county/county_g/w_pine/wp_g_inch.e00
county/county_g/w_pine/wp_g_utm.e00
county/county_g/w_pine
county/county_g/esmeralda/esm_g_inch.e00
county/county_g/esmeralda/esm_g_utm.e00
county/county_g/esmeralda
county/county_g/lincoln/lin_g_inch.e00
county/county_g/lincoln/lin_g_utm.e00
county/county_g/lincoln
county/county_g/clark/cla_g_utm.e00
county/county_g/clark
county/county_g/eureka/eu_g_utm.e00
county/county_g/eureka/eu_g_inch.e00
county/county_g/eureka
county/county_g/lander/lan_g_inch.e00
county/county_g/lander/lan_g_utm.e00
county/county_g/lander
county/county_g/churchill/chu_g_inch.e00
county/county_g/churchill/chu_g_utm.e00
county/county_g/churchill
county/county_g
county/state_f/nv_flt95.e00
county/state_f
county/docs/list
county/docs/metadata.dbf
county/docs/metadata.prn
county/docs
county

APPENDIX D

Nevada Bureau of Mines and Geology coverage transform work sheets indicating procedure followed and number of arcs and polygons before and after the transformation to UTM zone 11 projection. Transformation RMS error is also included.

Date: 12/6/95

Name: Ron Hess

County or Quadrangle Location: Churchill County South

Describe chu-f-inch
<Digitizer inch cover>

Arcs: 1502
Segments: 8770

Polygons: 0
Labels: 0

Tics: 42

Transform chu-f-inch chu-f-utm
<inch cover> <utm cover>

Transformation RMS: .016, 102.353

Describe: chu-f-utm
<UTM cover>

Arcs: 1502
Segments: 8770

Polygons: 0
Labels: 0

Tics: 2262

Notes: import /data12/county-export/churchill/ch09stin.epp to
~~data12~~ data12/trans/chu-f-inch
create chu-f-utm new-ticu
transform chu-f-inch to chu-f-utm
export chu-f-inch to /data11/county/county-f/churchill/chu-f-inch.epp
export chu-f-^{utm} to /data11/county/county-f/churchill/chu-f-utm.epp
no compression used on export.

Date: 12/5/95

Name: Ron Hess

County or Quadrangle Location: data2/country-export/churchill/ch129

Describe chu-g-inch
<Digitizer inch cover>

Arcs: 3740
Segments: 84354

Polygons: 1217
Labels: 1216

Tics: 42

Transform chu-g-inch chu-g-utm
<inch cover> <utm cover>

Transformation RMS: .016 , 102.4

Describe: chu-g-utm
<UTM cover>

Arcs: 3740
Segments: 84354

Polygons: 1217
Labels: 1216

Tics: 2262

Final Location: /data11/Country/Country-g/~~churchill~~/*.e00 files.

Notes: import /data2/country-export/churchill/ch129.in - to -
/data2/trans/chu-g-inch

create ~~new~~ chu-g-utm new-tick

transform chu-g-inch to chu-g-utm

exported /data2/trans/chu-g-inch to /data11/Country/Country-g/
churchill/chu-g-inch.e00 no compression

exported /data2/trans/chu-g-utm to /data11/Country/Country-g/
churchill/chu-g-utm.e00 no compression

Date: 12/19/95

Name: Ron Hess

County or Quadrangle Location: Clark County Faults

Describe 1
<Digitizer inch cover>

Arcs: _____
Segments: _____

Polygons: _____
Labels: _____

Tics: _____

Transform _____
<inch cover> <utm cover>

Transformation RMS: _____, _____

Describe: cla-f-utm
<UTM cover>

Arcs: 1552
Segments: 18422

Polygons: 0
Labels: 0

Tics: 2262

Notes: Work done on previous contract, digitizer inch
coverage not available. UTM projection.
AAT - 11 Fields.

Date: 12/19/95

Name: Ron Hess

County or Quadrangle Location: Clark County Geology

Describe _____
<Digitizer inch cover>

Arcs: _____
Segments: _____

Polygons: _____
Labels: _____

Tics: _____

Transform _____
<inch cover> <utm cover>

Transformation RMS: _____, _____

Describe: cla-9-utm
<UTM cover>

Arcs: 3941
Segments: 85135

Polygons: 1292
Labels: 1291

Tics: 2262

Notes: Work done on previous contract, digitizer inch

coverage not available. UTM projection.

PAT - 7 Fields, AAT 9 Fields

Date: 12-20-95

Name: MTA

County or Quadrangle Location: /DATA12/COUNTY-EXPORT/ELKO/EL10FCLN.E00

Describe ELC-F-INCH
<Digitizer inch cover>

Arcs: 11671
Segments: 56964

Polygons: 0
Labels: 0

Tics: 114

Transform ELC-F-INCH ELC-F-UTM
<inch cover> <utm cover>

Transformation RMS: .014, 87.862

Describe: ELC-F-UTM
<UTM cover>

Arcs: 11671
Segments: 56964

Polygons: 0
Labels: 0

Tics: 2262

Final Location: /DATA11/COUNTY/COUNTY-F/ELKO/ELC-F-UTM.E00

Notes: PROJECTION UTM
ZONE 11

UNITS METERS
IMPORT COVER EL10FCLN /DATA12/ TRANS/ELC-F-INCH

DESCRIBE ELC-F-INCH

CREATE ELC-F-UTM NEW-TICK

TRANSFORM ELC-F-INCH ELC-F-UTM

DESCRIBE ELC-F-UTM

EXPORT COVER ELC-F-UTM /DATA11/COUNTY/COUNTY-F/ELKO/ELC-F-UTM.N

EXPORT COVER ELC-F-INCH /DATA11/COUNTY/COUNTY-F/ELKO/ELC-F-INCH.N

Date: 12-20-95

Name: H 12

County or Quadrangle Location: 1/DATA12/COUNTY-EXPORT/ELKO/EL 24 G-FIN.CDD

Describe ELC-G-INCH
<Digitizer inch cover>

Arcs: 18678
Segments: 359441

Polygons: 5906
Labels: 5905

Tics: 114

Transform ELC-G-INCH ELC-G-UTM
<inch cover> <utm cover>

Transformation RMS: .014, 87.862

Describe: ELC-G-UTM
<UTM cover>

Arcs: 18678
Segments: 359441

Polygons: 5906
Labels: 5905

Tics: 2262

Final Location: 1/DATA11/COUNTY/COUNTY-G/ELKO/ELC-G-UTM.EFF

Notes: PROJECTION: UTM

ZONE 11

UNITS METERS

IMPORT COVER EL 24 G-FIN TO 1/DATA12/TRANS/ELC-G-INCH

CREAT ELC-G-UTM NEW-TICU

TRANSFORM ELC-G-INCH ELC-G-UTM AFFINE

DESCRIBE ELC-G-UTM

EXPORT COVER ELC-G-UTM 1/DATA11/COUNTY/COUNTY-G/ELKO/ELC-G-UTM N

EXPORT COVER ELC-G-INCH 1/DATA11/COUNTY/COUNTY-G/ELKO/ELC-G-INCH N

Date: 12/6/95

Name: Ron Hess

County or Quadrangle Location: Esmeralda County Faults

Describe esm-f-1uc4
<Digitizer inch cover>

Arcs: 2613
Segments: 14987

Polygons: 0
Labels: 0

Tics: 43

Transform esm-f-1uc4 esm-f-utm
<inch cover> <utm cover>

Transformation RMS: .015, 93.534

Describe: esm-f-utm
<UTM cover>

Arcs: 2613
Segments: 14987

Polygons: 0
Labels: 0

Tics: 2262

Notes: import /data12/county-export/esmeralda/es138fin.epp to
/data12/trans/~~esm~~.esm-f-1uc4

create esm-f-utm nev-ticu

transform esm-f-1uc4 to esm-f-utm

export esm-f-1uc4 to /data12/county/county-f/esmeralda/esm-f-1uc4

export esm-f-utm to /data12/county/county-f/esmeralda/esm-f-utm.epp

export used with no compression

Date: 12/5/95

Name: Ron Hess

County or Quadrangle Location: data2/country-export/esmeralda/es209fin

Describe esm-g-inch
<Digitizer inch cover>

Arcs: 7534
Segments: 109845

Polygons: 2727
Labels: 2726

Tics: 43

Transform esm-g-inch esm-g-utm
<inch cover> <utm cover>

Transformation RMS: .015, 92.355

Describe: esm-g-utm
<UTM cover>

Arcs: 7534
Segments: 109845

Polygons: 2727
Labels: 2726

Tics: 2262

Final Location: /data11/country/country-g/^{esmeralda}~~country-g~~/e.epp

Notes: import /data2/country-export/esmeralda/es209fin - to -
/data2/trans/esm-g-inch

create esm-g-utm new-tick

transform esm-g-inch to esm-g-utm

exported /data2/trans/esm-g-inch to /data11/country/country-g/

esmeralda~~trans~~/esm-g-inch.epp no compression

exported /data2/trans/esm-g-utm to /data11/country/country-g/

esmeralda~~trans~~/esm-g-utm.epp no compression

Date: 11-30-95

Name: HJG

County or Quadrangle Location: 'DATA12/COUNTY-EXPORT/EUREKA/:

Describe EU-F-INCH
<Digitizer inch cover>

Arcs: 2004
Segments: 16283

Polygons: Ø
Labels: Ø

Tics: 46

Transform EU-F-INCH EU-F-UTM
<inch cover> <utm cover>

Transformation RMS: 0.022, 136.946

Describe: EU-F-UTM
<UTM cover>

Arcs: 2004
Segments: 16283

Polygons: Ø
Labels: Ø

Tics: 2262

Final Location: 1DATA11/COUNTY/COUNTY-F/EUREKA/:

Notes: ^{IMPORTED} ~~EXPORTED FROM~~ 1DATA12/COUNTY-EXPORT/EUREKA: ^{EV18FFIN.ED0} ~~EV28LCF120-FC2~~

1DATA12/TRANS EU-F-INCH
EU-F-INCH

CREATE EU-F-UTM NEV-TIRU

TRANSFORM EU-F-INCH EU-F-UTM AFFINE

EXPORTED TO 1DATA11/COUNTY/COUNTY-F/EUREKA/:

EU-F-UTM.ED0

EU-F-INCH.ED0

Date: 1-30-95

Name: N10

County or Quadrangle Location: 1 DATA12/COUNTY-EXPORT/EUREKA

Describe EU-G-INCH
<Digitizer inch cover>

Arcs: 3219
Segments: 79780

Polygons: 809
Labels: 808

Tics: 46

Transform EU-G-INCH EU-G-UTM
<inch cover> <utm cover>

Transformation RMS: 0.022, 136.946

Describe: EU-G-UTM
<UTM cover>

Arcs: 3219
Segments: 79780

Polygons: 809
Labels: 808

Tics: 2262

Final Location: 1 DATA11/COUNTY/COUNTY-G/EUREKA

Notes: IMPORT 1 DATA12/COUNTY-EXPORT/EUREKA/EU286.FIN TO

→ 1 DATA12/TRANS/EU-G-INCH

CREATE EU-G-UTM NEW-TICK

TRANSFORM EU-G-INCH EU-G-UTM AFFINE

EXPORTED TO 1 DATA11/COUNTY/~~EXP~~^{COUNTY-G}/EUREKA/:

EU-G-UTM.ED0

EU-G-INCH.ED0

Line	File Name	Size	Compression	Notes
1	Created hum-g-actm			
2	Created hum-f-actm			
3	Imported /data12/country-export/hum-f-actm			
4	Imported /data12/country-export/hum-f-actm			
5	Transformed hum-g-actm into hum-f-actm			
6	Transformed hum-f-actm into hum-f-actm			
7	Exported hum-f-actm to hum-f-actm			
8	Exported hum-f-actm to hum-f-actm			
9	Exported hum-f-actm to hum-f-actm			
10	Exported hum-f-actm to hum-f-actm			
11	Moved both to /data12/country-export/hum-f-actm			
12	White Pine County			
13	11/14/95			
14	LTN Zone II			
15	Created hum-f-actm			
16	Created hum-f-actm			
17	Imported /data12/country-export/hum-f-actm			
18	Imported /data12/country-export/hum-f-actm			
19	Imported /data12/country-export/hum-f-actm			
20	Transformed hum-f-actm into hum-f-actm			
21	Transformed hum-f-actm into hum-f-actm			
22	Exported hum-f-actm to hum-f-actm			
23	Exported hum-f-actm to hum-f-actm			
24	Exported hum-f-actm to hum-f-actm			
25	Exported hum-f-actm to hum-f-actm			
26	Exported hum-f-actm to hum-f-actm			
27	Exported hum-f-actm to hum-f-actm			
28	Exported hum-f-actm to hum-f-actm			
29	Exported hum-f-actm to hum-f-actm			
30	Exported hum-f-actm to hum-f-actm			
31	Exported hum-f-actm to hum-f-actm			
32	Exported hum-f-actm to hum-f-actm			
33	Exported hum-f-actm to hum-f-actm			
34	Exported hum-f-actm to hum-f-actm			
35	Exported hum-f-actm to hum-f-actm			
36	Exported hum-f-actm to hum-f-actm			
37	Exported hum-f-actm to hum-f-actm			
38	Exported hum-f-actm to hum-f-actm			
39	Exported hum-f-actm to hum-f-actm			
40	Exported hum-f-actm to hum-f-actm			

Hum 62/88 County

	Initials	Date
Approved by		
Prepared by		

Date: 12/6/95

Name: Ron Hess

County or Quadrangle Location: Lyon/Carson/Douglas Counties

Describe ldc-f-inch
<Digitizer inch cover>

Arcs: 2304
Segments: 20728

Polygons: 0
Labels: 0

Tics: 37

Transform ldc-f-inch ldc-f-utm
<inch cover> <utm cover>

Transformation RMS: 0.015, 92.434

Describe: ldc-f-utm
<UTM cover>

Arcs: 2304
Segments: 20728

Polygons: 0
Labels: 0

Tics: 2262

Notes: import /data12/county-export/ca-do-ly/ld07 ffin.epp to
/data12/trans/ldc-f-inch

create ldc-f-utm new tics

transform ldc-f-inch to ldc-f-utm

export ldc-f-inch to /data11/county/county-f/lyon-d-o/ldc-f-inch.epp

export ldc-f-utm to /data11/county/county-f/lyon-d-o/ldc-f-utm.epp

export with no compression

Date: 12/5/95

Name: Ron Hess

County or Quadrangle Location: /data2/county-export/cd-do-ly/18209.in

Describe 1dc-g-inch
<Digitizer inch cover>

Arcs: 2912

Segments: 117,536

Polygons: 798

Labels: 797

Tics: 37

Transform 1dc-g-inch 1dc-g-utm
<inch cover> <utm cover>

Transformation RMS: 0.015, 92.434

Describe: 1dc-g-utm
<UTM cover>

Arcs: 2912

Segments: 117536

Polygons: 798

Labels: 797

Tics: 2262

Final Location: /data11/county/county-g/lyon-d-o/x.epp

Notes: import /data2/county-export/cd-do-ly/18209.in to-
/data2/trans/1dc-g-inch

create 1dc-g-utm new-tic

transform 1dc-g-inch to 1dc-g-utm

exported /data2/trans/1dc-g-inch to /data11/county/
county-g/lyon-d-o/1dc-g-inch.epp no compression

exported /data2/trans/1dc-g-utm to /data11/county
county-g/lyon-d-o/1dc-g-utm.epp no compression

Date: 12/5/95

Name: Ron Hess

County or Quadrangle Location: /data12/county-export/lincoln/li11f-in.epp

Describe lin-f-inch
<Digitizer inch cover>

Arcs: 2837
Segments: 22591

Polygons: 0
Labels: 0

Tics: 73

Transform lin-f-inch lin-f-utm
<inch cover> <utm cover>

Transformation RMS: .013, 84.952

Describe: lin-f-utm
<UTM cover>

Arcs: 2837
Segments: 22591

Polygons: 0
Labels: 0

Tics: 2262

Notes: import /data12/county-export/lincoln/li11f-in.epp to
/data12/trans/lin-f-inch

create lin-f-utm new-tick

transform lin-f-inch to lin-f-utm

exported /data12/trans/lin-f-inch to /data11/county/county-f/
lincoln/lin-f-inch.epp no compression

exported /data12/trans/lin-f-utm to /data11/county/county-f/
lincoln/lin-f-utm.epp no compression.

Date: 12-4-95

Name: HJ

County or Quadrangle Location: 1DATA12/COUNTY-EXPORT/LINCOLN/L1226FIN.ED0

Describe LIN-G-INCH
<Digitizer inch cover>

Arcs: 10415
Segments: 297918

Polygons: 3599
Labels: 3598

Tics: 73

Transform LIN-G-INCH LIN-G-UTM
<inch cover> <utm cover>

Transformation RMS: 0.013, 84.952

Describe: LIN-G-UTM
<UTM cover>

Arcs: 10415
Segments: 297918

Polygons: 3599
Labels: 3598

Tics: 2262

Final Location: 1DATA11/COUNTY/COUNTY-G/LINCOLN/~~L1226FIN~~

Notes: IMPORT 1DATA12/COUNTY-EXPORT/LINCOLN/L1226FIN

1DATA12/TRANS/LIN-G-INCH

CREATE LIN-G-UTM NEW-TRU

TRANSFORM LIN-G-INCH LIN-G-UTM AFFINE

~~EXPORTED TO~~

EXPORTED TO 1DATA11/COUNTY/COUNTY-G/LINCOLN/LIN-G-UTM.ED0
LIN-G-INCH.ED0

Date: 12/6/95

Name: Ron Hess

County or Quadrangle Location: Mineral - SawNs

Describe min-f-inch
<Digitizer inch cover>

Arcs: 502
Segments: 2497

Polygons: 0
Labels: 0

Tics: 54

Transform min-f-inch min-f-utm
<inch cover> <utm cover>

Transformation RMS: .010, 60.983

Describe: min-f-utm
<UTM cover>

Arcs: 502
Segments: 2497

Polygons: 0
Labels: 0

Tics: 2262

Notes: imported /data12/county-export/mineral/mi08ffin.epp to
/data12/trans/min-f-inch

create min-f-utm new-tick

transform min-f-inch to min-f-utm

export min-f-inch to /data11/county/county-f/mineral/min-f-inch.epp

export min-f-utm to /data11/county/county-f/mineral/min-f-utm.epp

no compression on export.

Date: 12/5/95

Name: Ron Hess

County or Quadrangle Location: data12/county-export/mineral/mi09gfin

Describe min-g-inch
<Digitizer inch cover>

Arcs: 2353
Segments: 39100

Polygons: 872
Labels: 871

Tics: 54

Transform min-g-inch min-g-utm
<inch cover> <utm cover>

Transformation RMS: .010 , 60.9

Describe: min-g-utm
<UTM cover>

Arcs: 2353
Segments: 39100

Polygons: 872
Labels: 871

Tics: 2262

Notes: import /data12/county-export/mineral/mi09gfin to /data12/trans/

min-g-inch

create min-g-utm new-tick

transform min-g-inch into min-g-utm

exported /data12/trans/min-g-utm to /data11/county/county-g/

mineral/min-g-utm.e00 no compression

exported /data12/trans/min-g-inch to /data11/county/county-g/

mineral/min-g-inch.e00 no compression

Date: 12-4-95

Name: HTJ

County or Quadrangle Location: 1/DATA12/COUNTY-EXPORT/NYE/NN¹⁵126-FIN.EDD

Describe NYEN-G-INCH
<Digitizer inch cover>

Arcs: 11
16008
Segments: 258383

Polygons: 41
503
Labels: 5040

Tics: 77

Transform NYEN-G-INCH NYEN-G-UTM
<inch cover> <utm cover>

Transformation RMS: 0.04 ¹⁶, 99.419
87.862

Describe: NYEN-G-UTM
<UTM cover>

Arcs: 16011
Segments: 258383

Polygons: 5041
Labels: 5040

Tics: 2262

Final Location: 1/DATA11/COUNTY/COUNTY-G/NYE-N

Notes: #IMPORT 1/DATA12/COUNTY-EXPORT/NYE/NN¹⁵126-FIN TO

→ 1/DATA12/TRANS/NYEN-G-INCH

CREATE NYEN-G-UTM DEV-TICU

TRANSFORM NYEN-G-^{INCH} NYEN-G-UTM

EXPORTED TO 1/DATA11/COUNTY/COUNTY-G/NYE-N/NYEN-G-UTM.EDD
NYEN-G-INCH.EDD

	Initials	Date
Approved by		
Prepared by		

Northern Nye County 11/14/95 R. Lien

Created nnye-g-utm from Nev-tic UTM Zone 11
 Created nnye-f-utm from Nev-tic
 Imported /data12/county-export/nyen/nn08fsh.epp as nnye-f-inch 11,292 Acres
~~Imported /data12/county-export/nyen/nn09gsh.epp as nnye-g-inch 5036 polygons~~
 Transformed nnye-f-inch into nnye-f-utm RMS = 0.016 11,292 Acres
~~Transformed nnye-g-inch into nnye-g-utm RMS = 0.016 5036 polygons~~
 Exported nnye-f-inch to nnye-f-inch.epp No compression
 Exported nnye-f-utm to nnye-f-utm.epp "
~~Exported~~
 Copied nnye-f-utm.epp & nnye-f-inch.epp to /data11/county/county-f/nyen-

Lander County 11/14/95 R. Hess

Created lan-g-utm from nev-tic UTM Zone 11
 Created lan-f-utm from nev-tic
 Imported /data12/county-export/lander/la15gsh.epp to lan-g-inch 1786 Polygons
 Imported /data12/county-export/lander/la05fsh.epp to lan-f-inch 3334 Acres
 Transformed lan-f-inch into lan-f-utm RMS = 0.016 3334 Acres
 Transformed lan-g-inch into lan-g-utm RMS = 0.016 1786 Polygons
 Exported lan-f-inch to lan-f-inch.epp No compression
 Exported lan-g-inch to lan-g-inch.epp "
 Exported lan-f-utm to lan-f-utm.epp "
 Exported lan-g-utm to lan-g-utm.epp "
 Copied lan-f-utm.epp & lan-f-inch.epp to /data11/county/county-f/lander
 " lan-g-utm.epp & lan-g-inch.epp to /data11/county/county-g/lander

Date: 11/15/95

Name: Ron Hess

County or Quadrangle Location: South Nye Faults

Describe nyes-f-1uc4
<Digitizer inch cover>

Arcs: 2189
Segments: 19761

Polygons: 0
Labels: 0

Tics: 56

Transform nyes-f-1uc4 nyes-f-utm
<inch cover> <utm cover>

Transformation RMS: 0.022, _____

Describe: nyes-f-utm
<UTM cover>

Arcs: 2189
Segments: 19761

Polygons: 0
Labels: 0

Tics: 2262

Notes: Import snobffin.e00 as nyes-f-1uc4

created nyes-f-utm new-tick

transformed nyes-f-1uc4 to nyes-f-utm

exported nyes-f-utm to nyes-f-utm.e00 no compression

exported nyes-f-1uc4 to nyes-f-utm.e00 no compression

Date: 12/5/95

Name: Ron Hess

County or Quadrangle Location: /data12/~~county-exp~~^{county-export}/pershing/perf85fin.e00

Describe per-f-1inch
<Digitizer inch cover>

Arcs: 994
Segments: 8544

Polygons: 0
Labels: 0

Tics: 49

Transform per-f-1inch per-f-utm
<inch cover> <utm cover>

Transformation RMS: .007 , 42.682

Describe: per-f-utm
<UTM cover>

Arcs: 994
Segments: 8544

Polygons: 0
Labels: 0

Tics: 2262

Notes: import /data12/county-export/pershing/perf85fin.e00 to
/data12/trans/per-f-1inch

create per-f-utm new-tick

transform per-f-1inch to per-f-utm

exported /data12/trans/per-f-1inch to /data11/county/county-f/
pershing/per-f-1inch.e00 no compression

exported /data12/trans/per-f-utm to /data11/county/county-f/
pershing/per-f-utm.e00 no compression.

Date: 12/5/95

Name: Ron Hess

County or Quadrangle Location: /data12/county-export/pershing/pe25gfin.epp

Describe per-g-inch
<Digitizer inch cover>

Arcs: 5444
Segments: 127672

Polygons: 1879
Labels: 1878

Tics: 49

Transform per-g-inch per-g-utm
<inch cover> <utm cover>

Transformation RMS: .007, 42.682

Describe: per-g-utm
<UTM cover>

Arcs: 5444
Segments: 127672

Polygons: 1879
Labels: 1878

Tics: 2262

Notes: import /data12/county-export/pershing/pe25gfin.epp to
/data12/trans/per-g-inch

create per-g-utm nev-ticu

transform per-g-inch to per-g-utm

exported /data12/trans/per-g-inch to /data11/county/county-g/
pershing/per-g-inch.epp no compression

exported /data12/trans/per-g-utm to /data11/county/
county-g/pershing/per-g-utm.epp no compression

Date: 11/15/95

Name: Ron Hess

County or Quadrangle Location: North Washoe County

Describe wash-f-inch
<Digitizer inch cover>

Arcs: 792
Segments: _____

Polygons: 0
Labels: 0

Tics: _____

Transform wash-f-inch wash-f-utm
<inch cover> <utm cover>

Transformation RMS: 0.009, _____

Describe: wash-f-utm
<UTM cover>

Arcs: 792
Segments: _____

Polygons: 0
Labels: 0

Tics: 2262

Notes: Imported nwp4ffin.epp as wash-f-inch

Created wash-f-utm new-tick

transformed wash-f-inch to wash-f-utm

exported wash-f-inch as wash-f-inch.epp no compression

exported wash-f-utm as wash-f-utm.epp no compression

Date: 11/15/95

Name: Ron Hess

County or Quadrangle Location: North Washoe Geology

Describe washn-g-inch
<Digitizer inch cover>

Arcs: 1136
Segments: _____

Polygons: 326
Labels: 325

Tics: _____

Transform washn-g-inch washn-g-utm
<inch cover> <utm cover>

Transformation RMS: .009, _____

Describe: washn-g-utm
<UTM cover>

Arcs: 1136
Segments: _____

Polygons: 326
Labels: 325

Tics: 2262

Notes: imported nw13gfin.epp as washn-g-inch

created washn-g-utm new-tick

transformed washn-g-inch to washn-g-utm

exported washn-g-inch as washn-g-inch.epp no compression

exported washn-g-utm as washn-g-utm.epp no compression

Date: 12/6/95

Name: Ron Hess

County or Quadrangle Location: Washoe faults South

Describe washs-f-inch
<Digitizer inch cover>

Arcs: 2262
Segments: 10786

Polygons: 0
Labels: 0

Tics: 35

Transform washs-f-inch washs-f-utm
<inch cover> <utm cover>

Transformation RMS: .012 , 79.352

Describe: washs-f-utm
<UTM cover>

Arcs: 2262
Segments: 10786

Polygons: 0
Labels: 0

Tics: 2262

Notes: Import /data12/county-export/washoe/sw09ffin.epp to
/data12/trans/washs-f-inch

Create washs-f-utm projection

transform washs-f-inch to ~~washs-f-utm~~ wash-f-utm

export washs-f-inch to /data11/county/county-f/washoe/washs-f-inch

export washs-f-utm to /data11/county/county-f/washoe-s/washs-f-utm.epp

no compression on exports

Date: 12/5/95

Name: Ron Hess

County or Quadrangle Location: data2/county-export/washoe/sw199fin

Describe washs-g-inch
<Digitizer inch cover>

Arcs: 3241
Segments: 52111

Polygons: 886
Labels: 885

Tics: 35

Transform washs-g-inch washs-g-utm
<inch cover> <utm cover>

Transformation RMS: .012, 79.352

Describe: washs-g-utm
<UTM cover>

Arcs: 3241
Segments: 52111

Polygons: 886
Labels: 885

Tics: 2262

Final Location: /data11/county/county-g/~~data~~ Washoe-s/*.epp

Notes: import data2/county-export/washoe/sw199fin -to-
/data2/trans/washs-g-inch

create washs-g-utm New-trick

transform washs-g-inch to washs-g-utm

exported /data2/trans/washs-g-inch to /data11/county/county-g/

washoe-s/washs-g-inch.epp no compression

exported /data2/trans/washs-g-utm to /data11/county/
county-g/washoe-s/washs-g-utm.epp no compression

Date: 11/14/95

Name: Ron Hess

County or Quadrangle Location: White Pine Faults

Describe wp-f-1inch
<Digitizer inch cover>

Arcs: 9050
Segments: _____

Polygons: Ø
Labels: Ø

Tics: _____

Transform wp-f-1inch wp-f-utm
<inch cover> <utm cover>

Transformation RMS: 0.012, _____

Describe: wp-f-utm
<UTM cover>

Arcs: 9050
Segments: _____

Polygons: Ø
Labels: Ø

Tics: 2262

Notes: imported wp05f\$in.e00 as wp-f-1inch

Created wp-f-utm from new-tick

Transformed wp-f-1inch to wp-f-utm

exported wp-f-1inch as wp-f-1inch.e00 no compression

exported wp-f-utm as wp-f-utm.e00 no compression

Date: 11/14/95

Name: Ron Hess

County or Quadrangle Location: White Pine Geology

Describe wp-g-inch
<Digitizer inch cover>

Arcs: 12659
Segments: 204100

Polygons: 4080
Labels: 4078

Tics: _____

Transform wp-g-inch wp-g-utm
<inch cover> <utm cover>

Transformation RMS: 0.012, _____

Describe: wp-g-utm
<UTM cover>

Arcs: 12659
Segments: 204100

Polygons: 4080
Labels: 4078

Tics: 2262

Notes: imported wp19gfin.eff as wp-g-inch

created wp-g-utm from nev-ticu

transformed wp-g-inch to wp-g-utm

exported wp-g-inch as wp-g-inch.eff no compression

exported wp-g-utm as wp-g-utm.eff no compression