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U.S. GEOLOGICAL SURVEY

A digital dataset of the linear features of the
Preliminary Geologic Map of Yucca Mountain,
Nye County, Nevada

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Open-File Report
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1992

1. Denver, Colorado.

This dataset consists of linear features (geologic contacts and faults) from the preliminary geologic map (1:12000 scale) of Yucca Mountain Nye county, Nevada (figure 1) (Scott and Bonk, 1984). The KORK digital mapping system (KDMS) (KORK, 1988), running on a MicroVAX under the VMS operating system, was used to digitize these features. Continuous points were collected to digitize each linear feature. These points were gathered from a digitizing tablet using software filters that stored a point for a movement of the digitizing puck that was moved 12 ground feet (0.012 map inches) or greater than a five degree deviance from a straight line connecting any previous two digitized points.

Linear features have not been edited to create polygons. Points were collected with values from the Nevada state plane coordinate system. Control points are included in the file and their values are shown in figure 1. Separate digitizing codes for dotted, dashed and solid faults, bedrock-alluvium contacts, and geologic contacts are maintained as layers in the translation.

KDMS produces four files with extensions .MAP, .CHR, .STR, and .CEN. These files have been converted to an ASCII file with the extension .DXF and finally archived with LHA (Yoshizaki, 1991) data compression software on PC-compatible 3.5 inch, 1.44 Mb floppy diskettes.

To use the compressed file (scotbonk.exe), copy the file from the floppy disk onto a hard disk with 4.8 Mb of free disk space and type the name of the file. The file will decompress and may be imported to the platform of choice.

794738
548710

794826
585244



773589
585309

746198
548795

746286
585392

Figure 1.--Printout of data file for preliminary geologic map of Yucca Mountain.

REFERENCES CITED

- KORK Systems, Inc., 1988, KORK Geographic Information System User's Manual: KORK Systems, Inc., Bangor, Maine.
- Scott, Robert B. and Bonk, Jerry, 1984, Preliminary Geologic Map of Yucca Mountain Nye County, Nevada with geologic sections: U.S. Geological Survey Open-File Report 84-494.
- Yoshizaki, Haruyasu, 1991, LHA public domain software, version 2.13.