

LOCATING CAVE RESOURCES

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WHY ?

- ▶ To Protect Resources from Theft, Vandalism, and Careless Damage.
- ▶ To Eliminate or Reduce Threats from Human Surface Activities.
- ▶ Reduce Potential Hazards Caves May Present to Visitors and Surface Users.
- ▶ Gain a Better Understanding of the Natural Environment We are Responsible for Managing.

SEARCH YOUR FILES AND RECORDS

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- ▶ Cultural Records
 - ▶ Range and Timber Files
 - ▶ Recreation Files
 - ▶ Wildlife Records
 - ▶ Minerals Records
 - ▶ Engineering Files
 - ▶ Law Enforcement Files

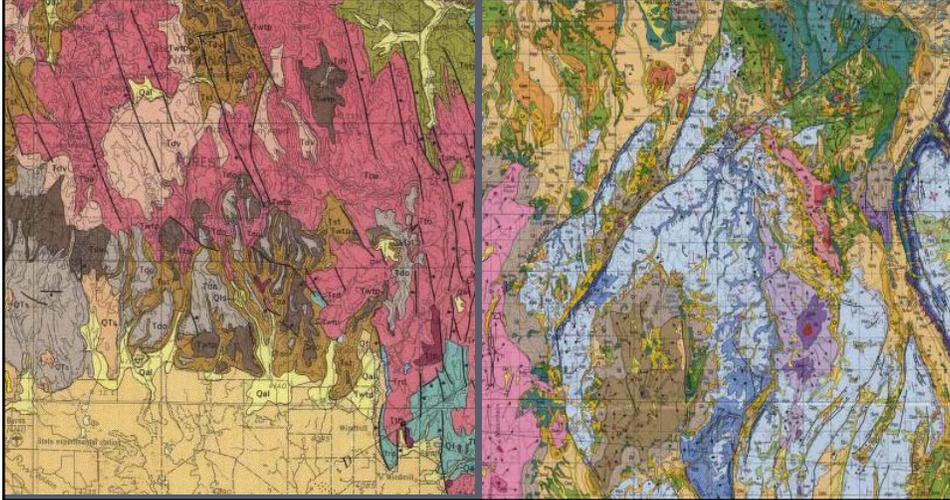
LOCAL RESEARCH

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- ▶ Ask Ranchers, Loggers, Well Drillers, Hunters, Local Cavers, Hikers, and Riders.
 - ▶ Local SAR, Law Enforcement, Fire Department
 - ▶ Geological, Newspapers, Local History Books, and Articles.
 - ▶ Library
 - ▶ Old Timers

GEOLOGIC MAPS

VOLCANIC

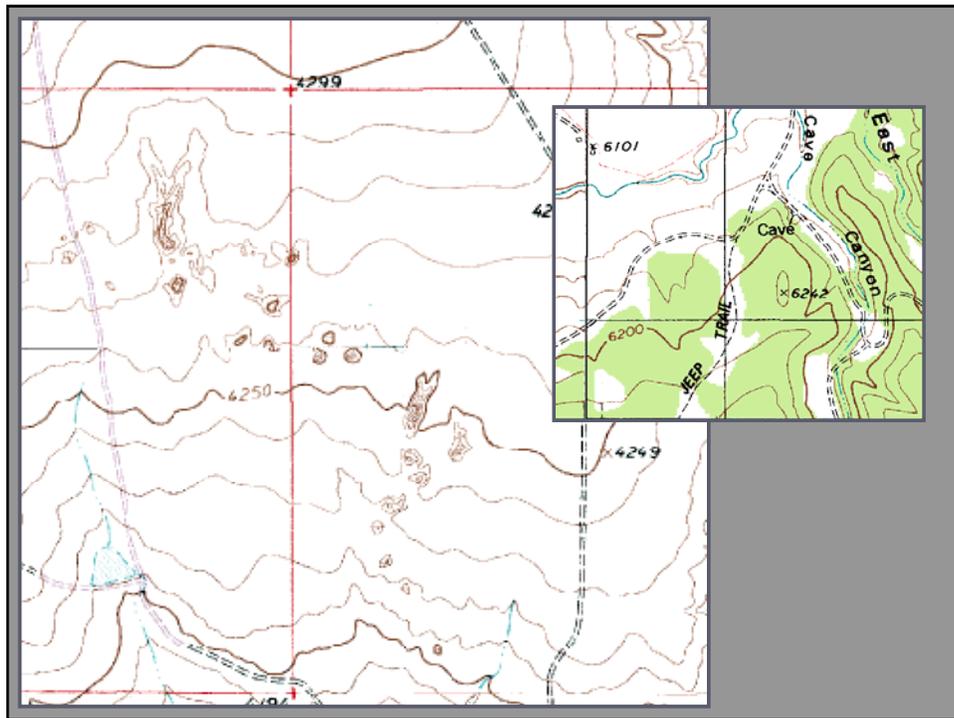
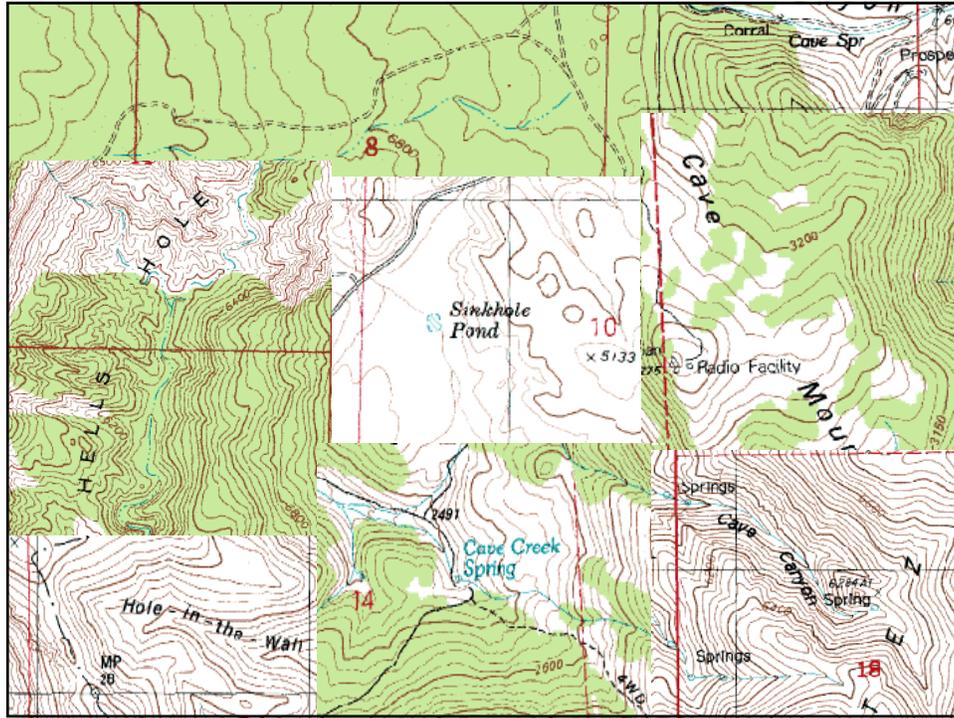
LIMESTONE

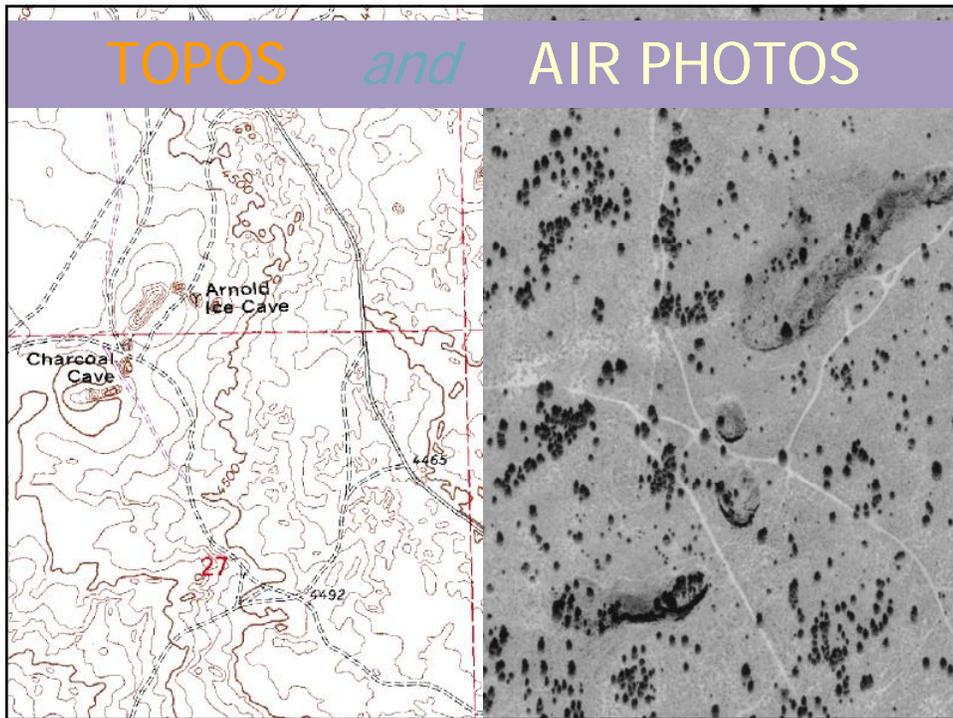
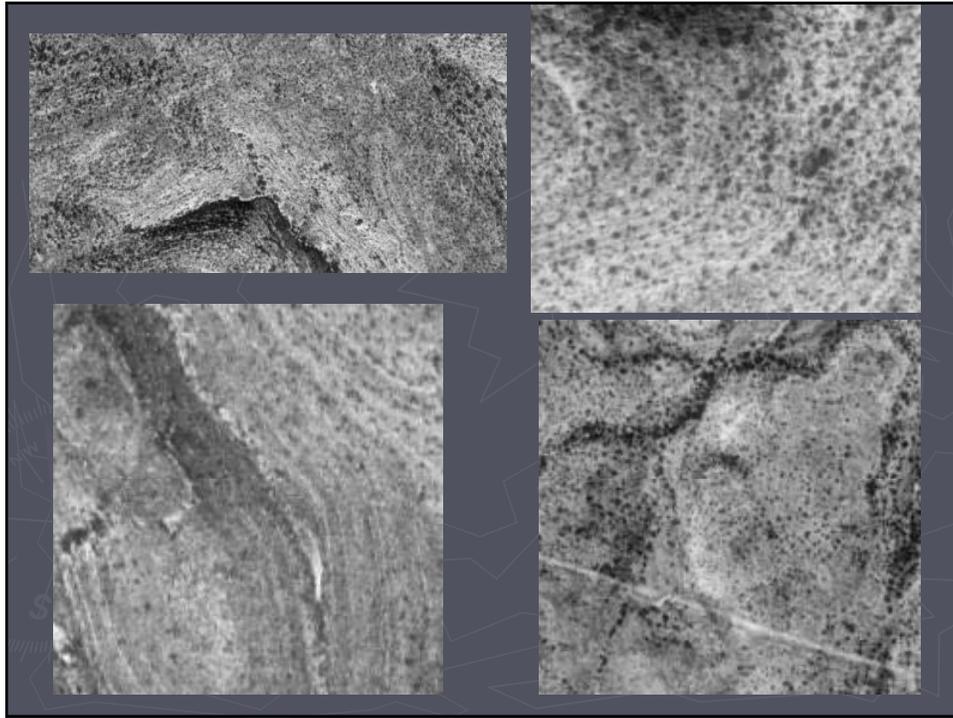


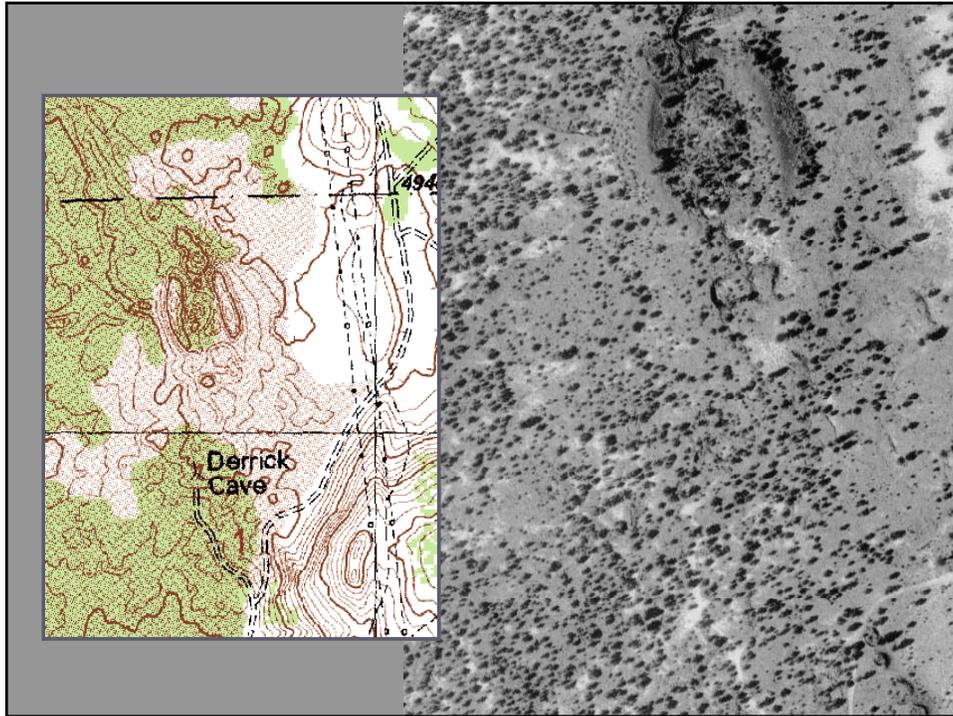
TOPOGRAPHIC MAPS

- ▶ Search for Features with Cave Names
- ▶ Sinkholes
- ▶ Losing/Ephemeral Streams
- ▶ Springs
- ▶ Road Anomalies
- ▶ Vegetation Anomalies









GEOLOGIC SENSING

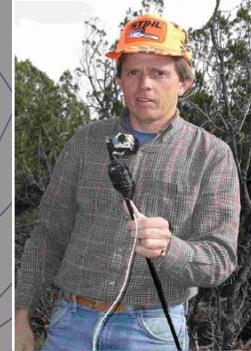
- ▶ Ground Penetrating Radar
- ▶ Seismic Detection
- ▶ Acoustic Resonance Detection
- ▶ Resistivity – Electric Current Flow
- ▶ Magnetometer



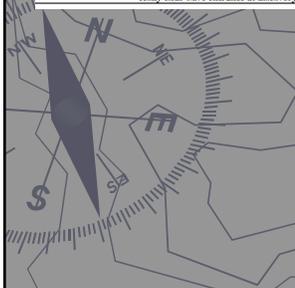
FIELD SURVEYS



Holly Leaf Cave entrance at discovery



John Lyles measuring airflow at the entrance to Holly Leaf Cave



RESISTIVITY



John McLean setting up the switching system for the resistivity measurements on Line #1 near L.B.3 and Holly Leaf Cave.



Steve Freeman putting in an electrode (copper-plated aluminum stake). This system uses 8 electrodes on each side of the center station at 15 meter spacing for this particular setup.

