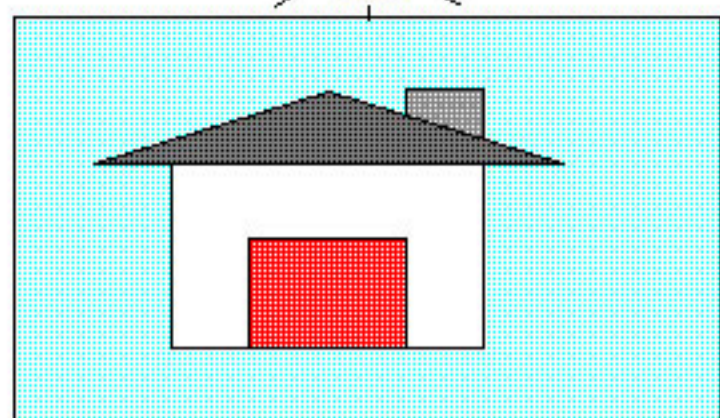
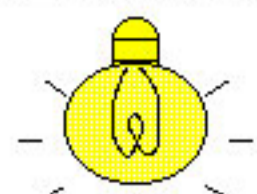


SOME TECHNIQUES OF SCIENTIFIC ANALYSIS

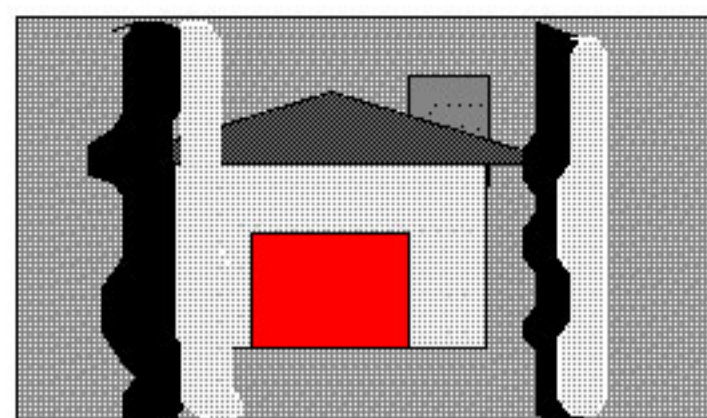
(DVR, SCMR)

VISUAL ILLUMINATION:



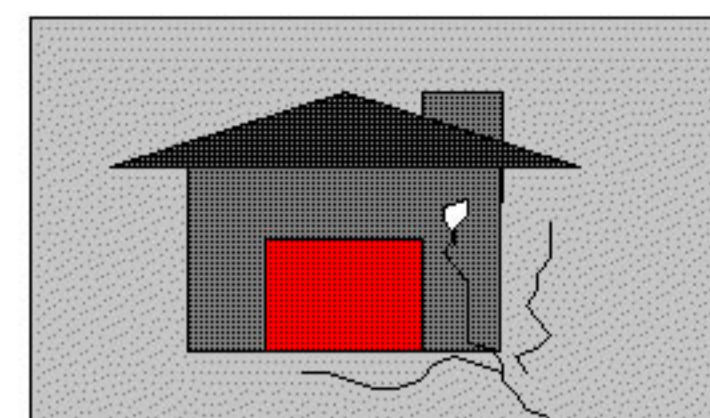
SPECTRAL ILLUMINATION
(LIGHT SHINES ON FRONT)

(SHOWS COLOR, SHAPE, COMPOSITION)



RAKING LIGHT
(LIGHT FROM THE SIDE)

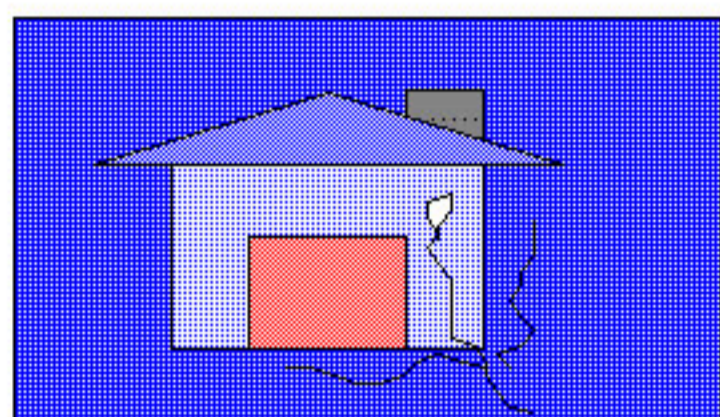
(SHOWS PLANAR DISTORTION, TEXTURE)



TRANSMITTED LIGHT
(LIGHT FROM BACK)

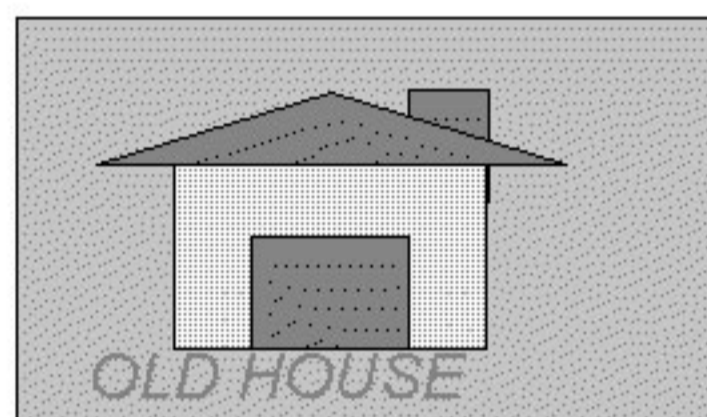
(SHOWS TEARS, LOSSES, MENDS, WATERMARKS, MOLD PATTERN)

SPECIAL ILLUMINATION:



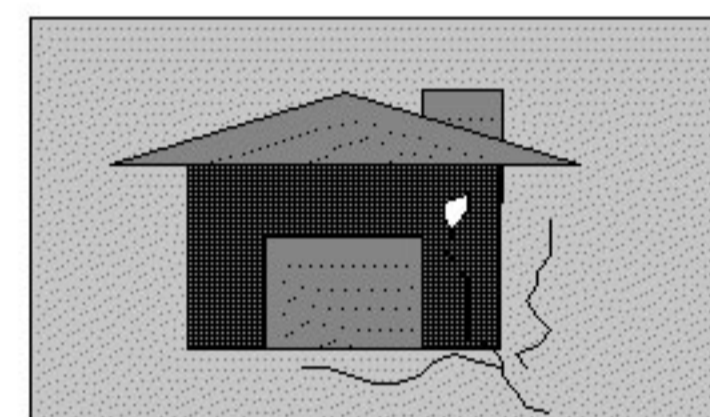
ULTRALIOLET LIGHT

(SHOWS FLUORESCENCE, STAINS, VARNISH)



INFRARED LIGHT

(SHOWS CARBON BASED UNDERDRAWINGS)



**X-RAYS, BETA RAYS, OR
XERO RADIOGRAPHY**

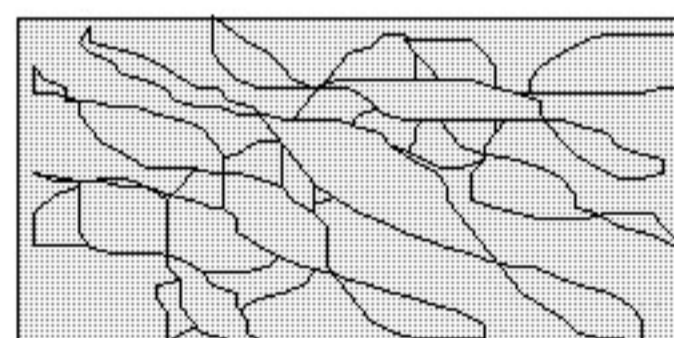
(SHOWS MOLD PATTERNS, WATERMARKS, DENSITIES)

MAGNIFICATION:



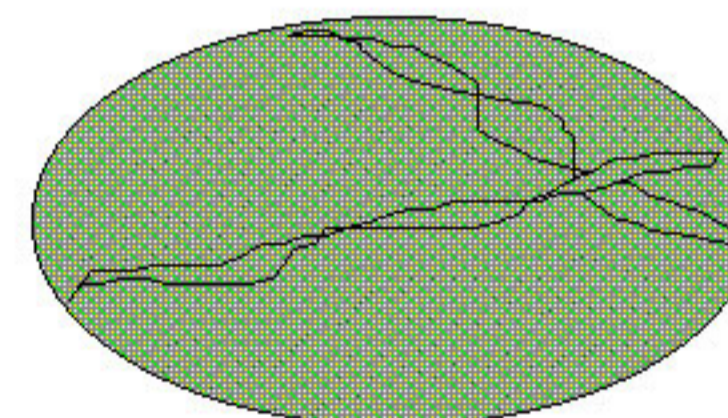
STEREOSCOPIC MICROSCOPY

(SHOWS COMPOSITION, TEXTURE)



SCANNING ELECTRON MICROSCOPY

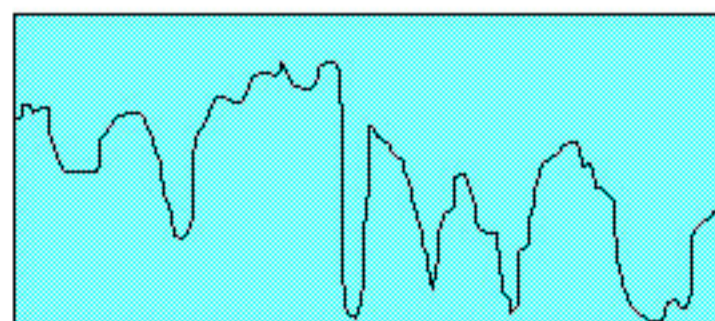
(SHOWS MORPHOLOGY)



POLARIZED LIGHT MICROSCOPY

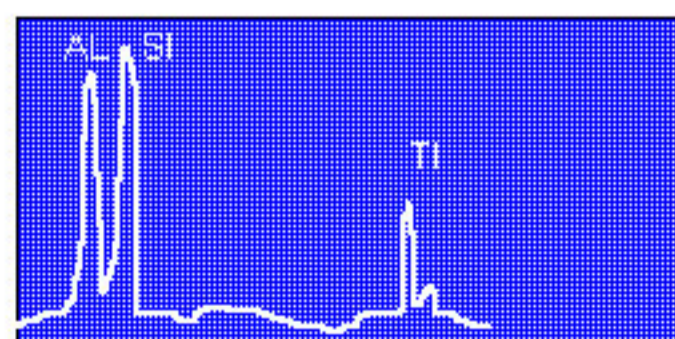
(SHOWS MORPHOLOGY, LIGHT PROPERTIES)

ELEMENTAL ANALYSIS:



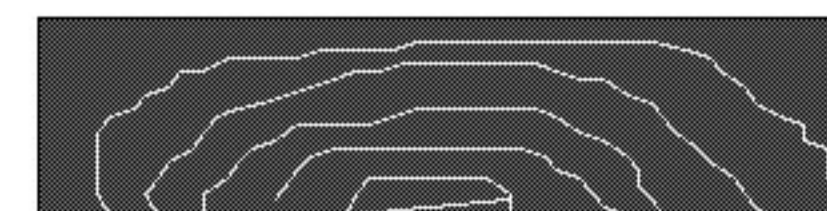
FTIR SPECTROSCOPY

(IDENTIFIES ORGANIC MATERIALS)



**SEM ELEMENTAL DISPERSION
SPECTROSCOPY**

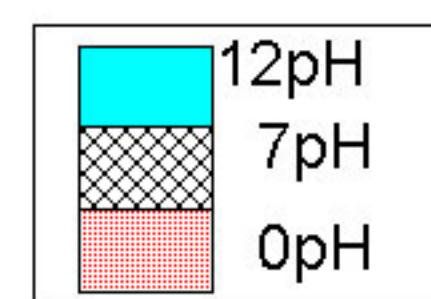
(IDENTIFIES INORGANIC MATERIALS)



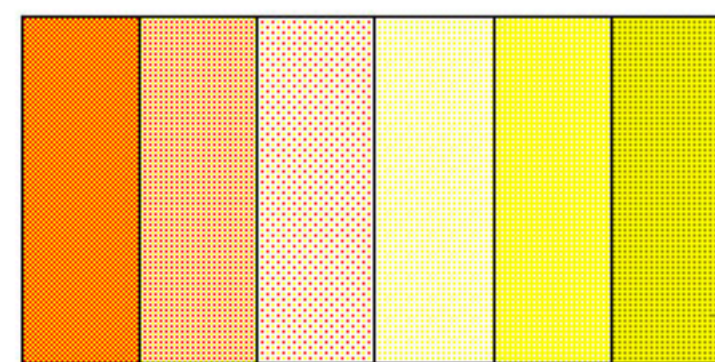
X-RAY DIFFRACTION

(IDENTIFIES INORGANIC MATERIALS)

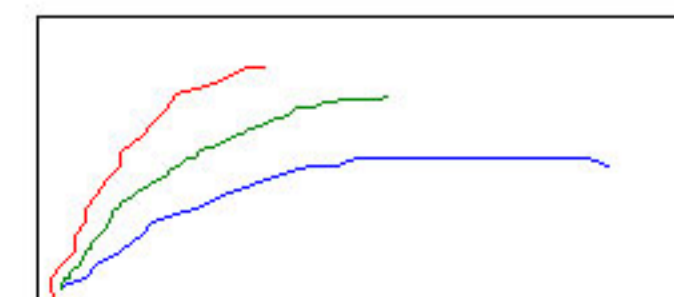
PROPERTIES:



pH



COLOR, OPACITY, GLOSS



**TENSILE STRENGTH
BURST STRENGTH, ETC.**