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September 26, 1989 Buckhorn samples

TO: Hal Bonham and Larry Garside

FROM: Li Hsu

RE: Mineral ID for the Triassic-Jurassic project

The results of x-ray analysis of various rocks samples are shown below:

WS Second Bench up	The whitish sample wrapped in tissue is pure alunite.
WS Lower Bench	The white gritty material locally enclosing silty fragments is cristobalite with trace quartz.
WS Upper Bench	The brownish white material is a mixture of quartz, alunite, and much less cristobalite.
Lower TS Jun Kyard Pit	The clay bed consists almost entirely of quartz with much less amounts of illite and kaolinite.
Jun Kyard Pit	The white coatings (also vug and fracture fillings) on an altered rock are kaolinite with minor amount of pyrite.
S. Aspen Pit	The dark gray clayey rock consists essentially of montmorillonite. White spots on the rock surface does not provide enough materail for ID.
N. Buckhorn Pit	The whit vug- filling material on gray silicified rock disseminated with pyrite is kaolinite. In the same bag, the whitish tuffaceous rock enclosing gray rock fragments is composed of quartz, feldspar, kaolinite, and sepiolite
N. Buckhorn Pit	The yellowish brown material as fracture filling in dark gray cherty rock consists of jarosite, quartz, adularia, and much less kaolinite.
N. BuckhornMain Pit	The white material as vug and fracture fillings in a dark rock is a mixture of kaolinite and quartz.

Samples from the Peavine Peak area do contain typical piemontite which intergrows with quartz in massive form. Mn-rich epidote occurs as alteration product from feldspars in some volcanic rocks.

Please transfer $250.00 from the Mining Coop Fund to the Mineral Analysis Account (9-1-265-5655-004) for this work.

cc: Jon Price