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ORIGINATOR NAME: George Guthrie ORGANIZATION: LANL
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SUBJECT/TITLE: Field Trip Down Pajarito Canyon

RECORD TYPE (Circle relevant type for primary record; type of attachments should be selected on *Keywords List*):

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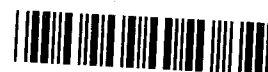
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Los Alamos National Laboratory
Los Alamos, New Mexico 87545

memorandum

TO: DISTRIBUTION

DATE: January 21, 1993

FROM: George Guthrie

MAIL STOP/TELEPHONE: D462/7-7590

SYMBOL: EES-1

SUBJECT: **FIELD TRIP DOWN PAJARITO CANYON**

On 9/22/92 Terry Foxx led a group on a field trip down Pajarito Canyon from TA-22 to TA-18. Attending the trip were Terry Foxx (EM-8), Kathryn Bennett (EM-8), Cheryl Rofer (EES-1), Brad Wilcox (EES-15), George Guthrie (EES-1), and Merlin Wheeler (ICF Kaiser). Several observations pertinent to OU 1111 were made, and some of these are detailed below. Some of these are also noted in Guthrie's field notebook (#012; pp. 12-14).

The trip began at the spring just southwest of TA-22. This spring was flowing, albeit less intensely than it had been earlier in the summer when it was monitored by Andy Adams (Adams, 1992, ???). The stream on the south side of the alluvial fan feeding this spring was also flowing further downstream at the confluence of these two streams. Pajarito Canyon had a steady flow of water in the stream over the entire length of OU 1111 (up to the confluence with the stream in Two Mile Canyon). No changes in flow could be observed along OU 1111. Furthermore, the stream bottom was bedrock in many places, and the canyon sides were shear and close to the stream. There were no large, open, flat areas within the canyon alongside of OU 1111. These observations suggest that there is no alluvial aquifer adjacent to OU 1111. However, further down Pajarito canyon (~1/2 mi. west of the TA-18 boundary), the canyon widens into large, open, flat areas that coincide with a significant drop in flow within the stream. In fact, the stream flow eventually stopped entirely. This suggests that there may be an alluvial aquifer further down Pajarito Canyon.

The stream in Two Mile Canyon was also flowing strongly at the confluence with the Pajarito Canyon stream. Vegetation (grasses and small shrubs) adjacent to the stream channel were bent-down, suggesting that flow in the stream had recently been high enough to leave the stream channel.

At approximately the point where the powerline crosses Pajarito Canyon (south of TA-22), the stream in Pajarito Canyon makes an abrupt deviation to the north. The offset is extremely linear and about 10-20 m in length. The linearity of the offset may suggest that it follows a structural feature in the subsurface (e.g., a fault or fracture). No outcrops sufficient to determine if any structural feature is present were observed in the vicinity.

cy: Files, EES-1, MS D462

DISTRIBUTION:

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JUN 09 1993

YCG