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September 21, 1976

Memorandum for: Mr. Charles L. Fair
Tucson, Arizona

Subject: Teran Basin
Uranium, Cochise County,
Arizona.

At your request, I made a reconnaissance in the subject area to determine the lateral extent of the Tertiary "Teran Basin" beds, and to observe possible competitor activity. This work was done in late August, with the assistance of Ed Robb.

CONCLUSIONS

No prospecting activity by others was found. Despite the fact that the County geologic map (Ariz. Bur. Mines) shows an extensive northerly continuation of Tertiary sediments, from the area of Teran Basin, this is misleading. The Tertiary section to the north is made principally of acid to intermediate volcanics or welded tuffs, interbedded with minor sediments. The red beds of Teran Basin appear to be restricted to that area. Radioactivity was in a moderate "background" range of .03-.04 Mr/Hr.

A topographic sheet with inked field notes has been furnished to you separately.

DESCRIPTIVE DATA

The prospects shown on the quadrangle maps, south of Kelsey Canyon, are in Paleozoic quartzite.

I noted, as you did also, that the stream bed gravels give a higher radiometric reading--about .04 Mr/Hr--than the Teran red beds, which register about .03 Mr/Hr.

North of Teran Wash, I located the "Teran beds" in sections 6 and 21. In Sierra Blanca Canyon, they are faulted against

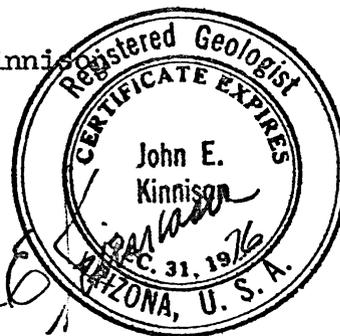
tilted Gila Conglomerate on the west, and bounded on the east (overlain?) by andesitic to rhyolitic volcanics. The "Turkey Track" andesite was not reached by reconnaissance up-stream, although float of it is present. This zone of red beds is a little more than a mile in width (of exposure), but is structurally complex; the stratigraphic thickness is not nearly so great.

In Pool Wash, still farther north, only volcanics were found (some of which may be air-fall tuffs), along with a single interbed of limestone. A thick andesite porphyry dike (not "Turkey Track," however) registered .08 Mr/Hr, but background was otherwise normal.

The rocks in Hot Springs Canyon, north of Pool Wash, are volcanics. They apparently are faulted along a possibly major low-angle shear, over diorite. The shear zone is occupied by a fault sliver of red shale.

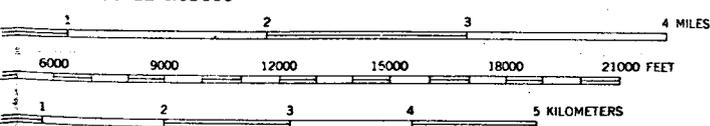
The most northerly traverse, on Soza Mesa, was through volcanics which merge with the thick section that makes up the Galiuro Range. A window in these rocks reveals Bolsa Quartzite, an andesite breccia similar to the Silver Bell, and Cretaceous(?) conglomerates. The scintillometer acted erratically at the end of the day, near the Silver Bell (?) outcrops. Readings of .07 Mr/Hr as background are probably incorrect.

John E. Kinnison





SCALE 1:62500



QUADRANGLE LOCATION

INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D. C. 1961
1:101,000 FEET (CENTRAL)
MR 1037

Light-duty ——— Unimproved dirt ———

Layers of Caliche on
ROAD CLASSIFICATION - D3M

Weakly alt
gtz monzon
it.

Prospects
in Pal cont
.03M/lt

REDINGTON, ARIZ.
N 3215 - W 11015

145-R 20 21 E

Terhan Baren
Vancouver

See 1 and 6

South of Kelsey Wash

Sierra Blanca Canyon or Ridge to South

Hot Springs

Prospects See 22 125 20 E

Conn Tom Walter Reactivity
212-953-5025 N.Y.

President
St. Joe American Corp.
250 Park Ave.
New York NY 10017

Mark Melton

303 747-2460 Silverpark Colo
303 781-2050 Englewood Colo

In Hot Springs Canyon — at spring in upper canyon, Sec 5
looks like a shear zone with some badly deformed (sheared) red shale,
ls, and ls cgl. TIK-3 is a diorite in stream, etc beneath shear zone.