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AMERICAN SMELTING & REFINING COMPANY
Tucson Arizona

*Gen
Expl.*

March 12, 1971

MEMORANDUM

TO: W. E. Saegart

FROM: John C. Balla

Possible Research on
Gravity Sliding of
Porphyry Copper Deposits

Exploration by Asarco over the years, which has developed the Mission-San Xavier and Santa Cruz-Sacaton deposits, has pointed up the significance of low angle, post-mineral displacements of segments of porphyry copper deposits. Recent discoveries at Cactus-Carlota, San Manuel-Kalamazoo, in addition to the Asarco deposits, have shown that low angle, post-mineral displacements are a rather common feature of many porphyry copper deposits, as was mentioned on the recent Asarco porphyry copper tour.

In light of the obvious exploration significance of such faulting, I suggest that Asarco, if they have not done so already, consider doing a exploration-oriented research program on low angle, post-mineral faulting of porphyry copper deposits.

The research might be carried out in the following manner: A detailed study of the low angle faults underlying Mission-San Xavier, Sacaton, and Cactus-Carlota. Then considerations of "how" and "why" the deposits slid, and why they stopped where they did. Finally, exploration attempts in other districts that are known to be underlain by flat faults - - - such as Courtland-Gleason, Kelvin (Riverside), and Price (Red Hills), to determine if the displaced segment can be found.

Because of the large amount of company data that would be involved, it might be better to have a company geologist work on this problem rather than a graduate student doing a dissertation on it.

Asarco is in the unique position of probably having more information on this problem than any other company. Because of this, exploration oriented research on this topic might be quite productive.

John C. Balla

JCB:van

KEEP THIS ON TOP

Subject: GRAVITY SLIDE PHENOMENA
~~At 2000~~

Terry SHACKLEFORD

U.S.C. PhD
Dissertation

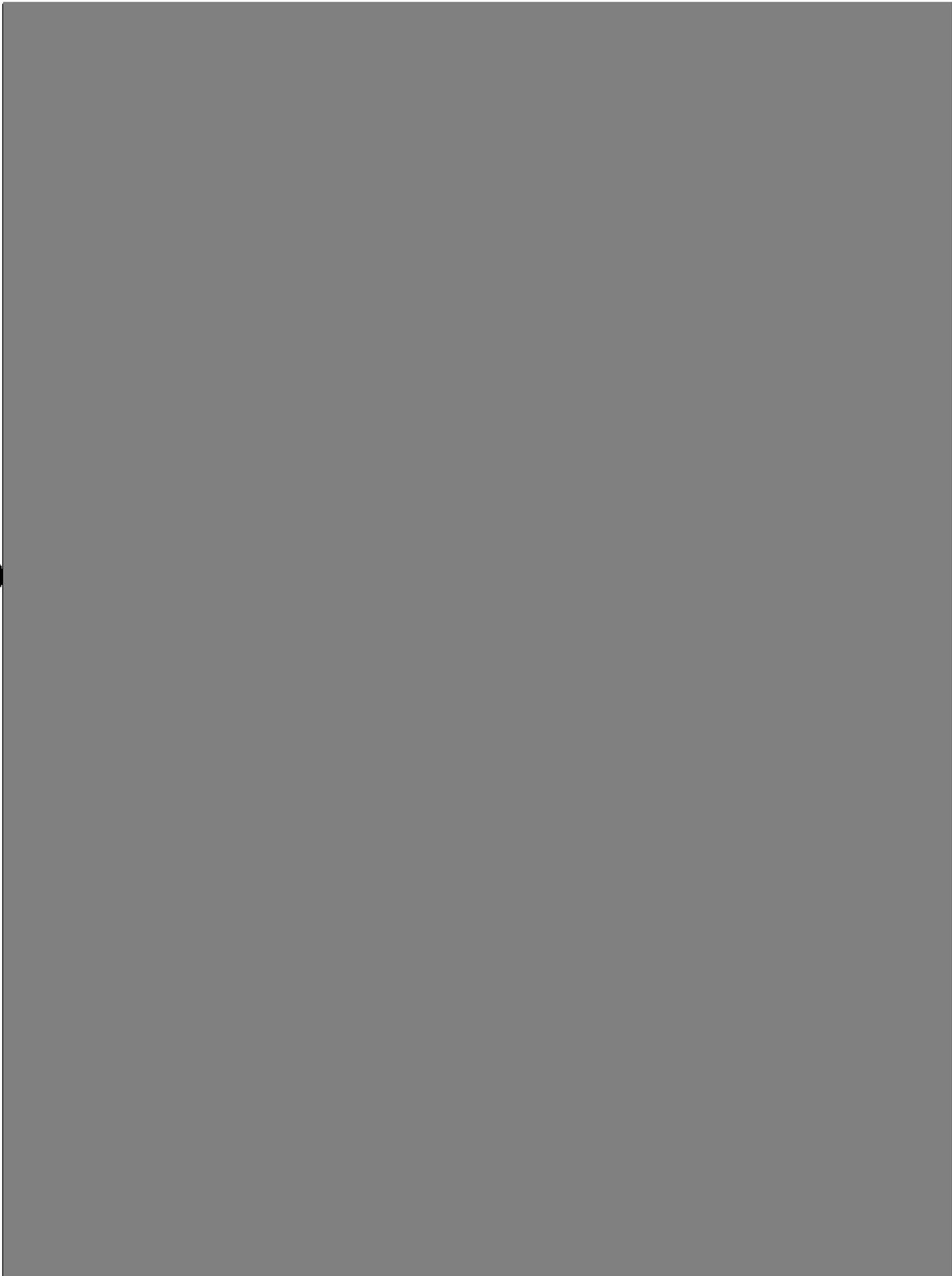
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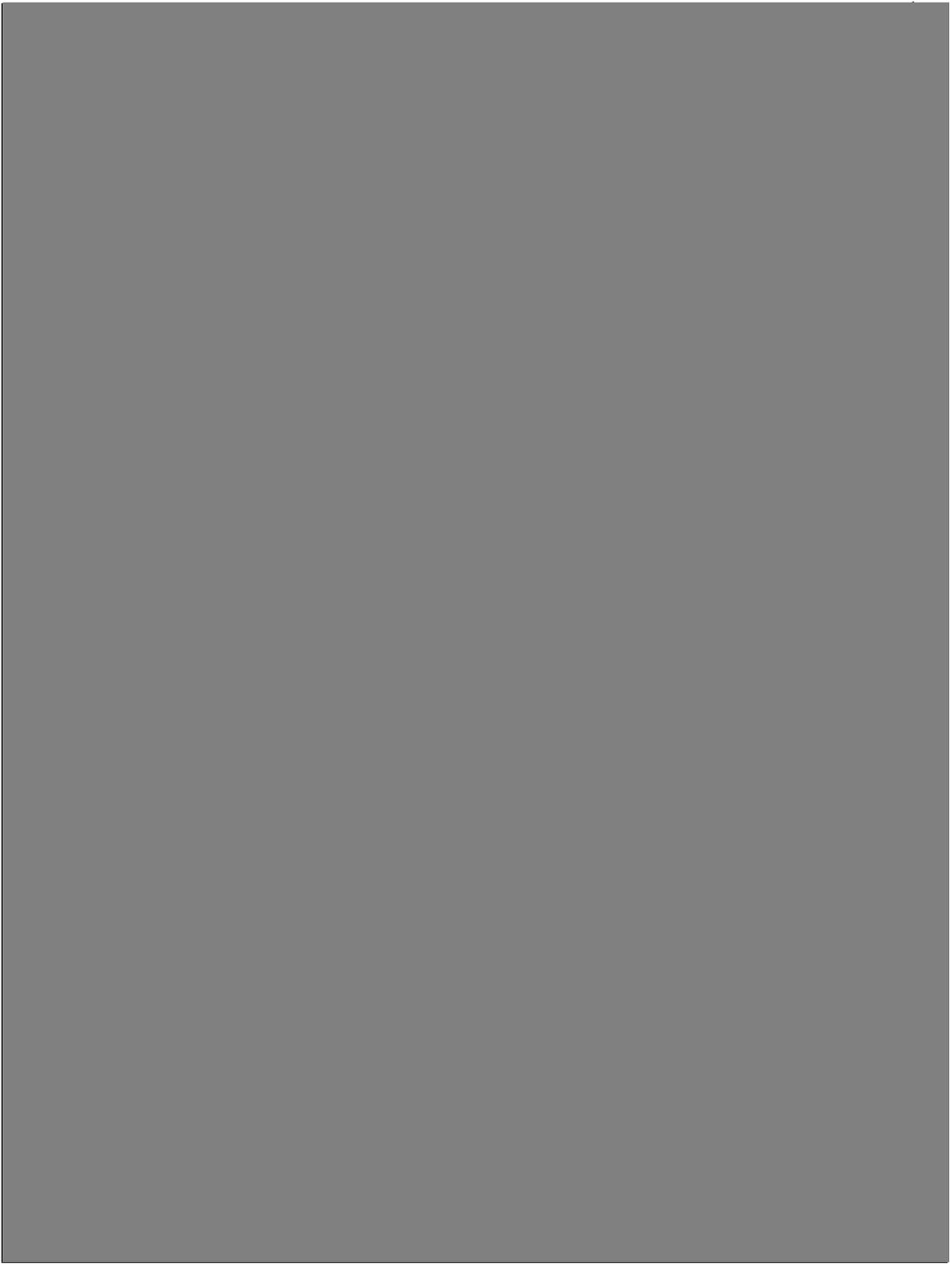
ABSTRACT ON ...



JUDITH GASTON

A RECONNAISSANCE STUDY OF CENOZOIC GEOLOGY IN W. CENTRAL ARIZ.
SPRING 1977 MS SAN DIEGO STATE





CATACLASTIC ROCKS OF THE VERMILION MTS

P.L. SHEARER

Spring 1976

SAN DIEGO STATE

(WEAK PAPER)

ABSTRACT



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De

Ann Terry
Whipple Min. Club

M.S. Thesis
San Diego State
1972

rm 4 p.

ABSTRACT

