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To:

Randy Moore & Dale Armstrong

Cambior U.S.A

From:

Thornwell Rogers

Geological Consultant

Subject:

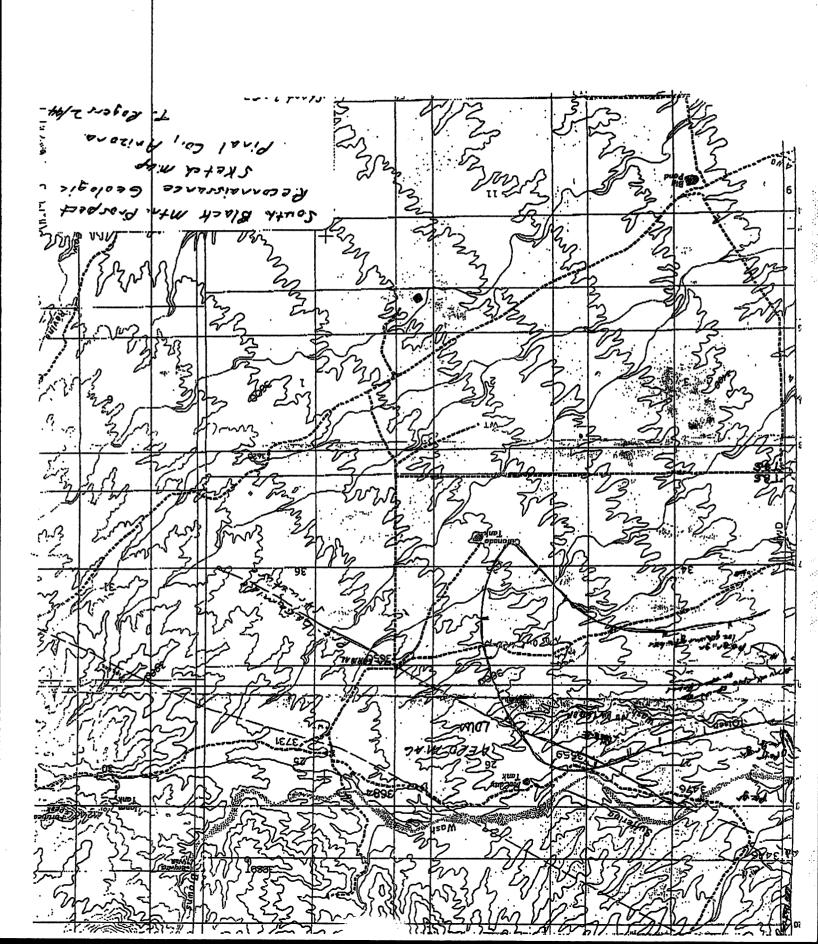
Geologic Observations and Thoughts on the South

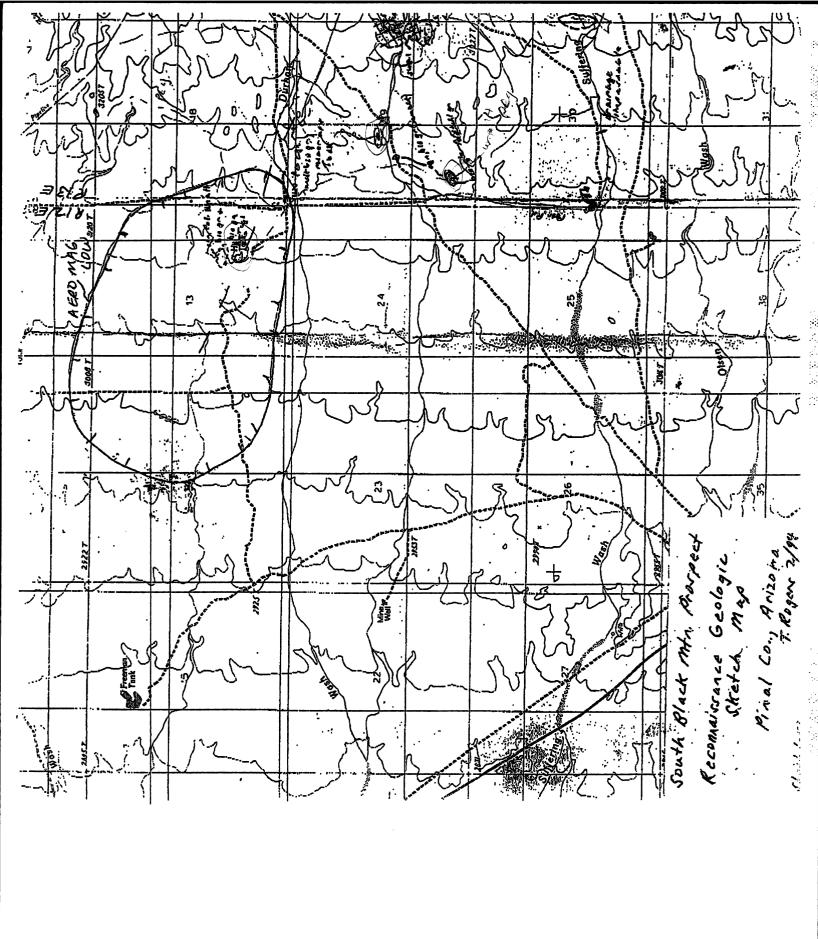
Black Mountain Porphyry-Copper Target.

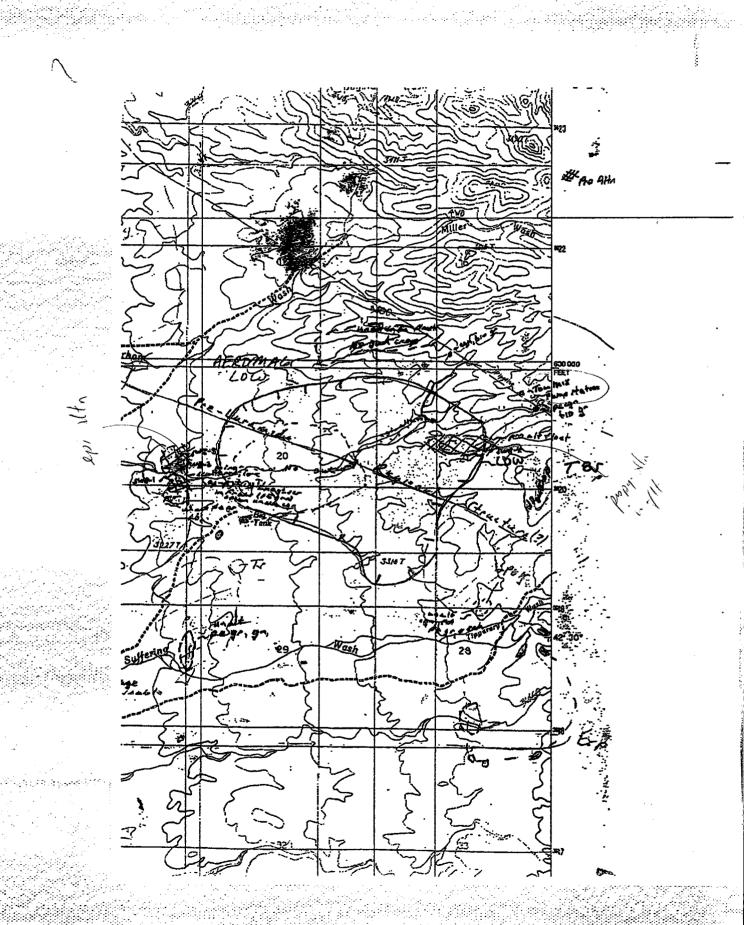
I thought it important to make some personal observations on the porphyry-copper targets to accompany the previous faxed geologic sketch map since it is likely that our schedules will not allow a joint property visit.

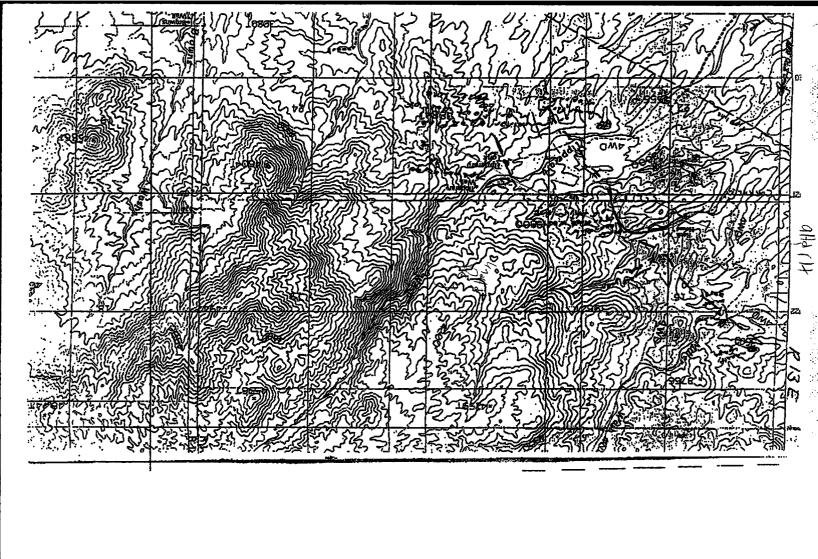
- alteration: Propylitic alteration PE granite (ep-qtz+ ser) was observed in outcrop only in the area of the main drainage on the eastern edge of section 19 and sparsely in the NW 1/4 of section 34. However, no outcrop was observed in the pedimont-covered area of the aeromagnetic low, east of the propylitic altered outcrops in section 19. A significant observation was the continued presence of propylitic-altered (epidote in fractures) granitic float on the east side of the aeromagnetic low in sections 21 and 22 but not in the unaltered PE granite outcrops in the range front between Tipperary Tank and Miller Wash. Probably a N-S basin and range fault truncated the range front and could this propylitic altered granite be from a shallow-buried porphyry system with large areal extent?
- 2) Structure: We would all probably agree that this terrain is structurally rotated during the mid-Tertiary and later cut by late Tertiary Basin and Range faulting. The northwest allignment of these three aeromagnetic anomalies is roughly parallel to the speculative (?) northwest Dragoon to Florence lineament.
- 3) <u>Geophysics</u>: The presence of the aeromagnetic lows within the high-magnetic susceptable, PE Ruin Granite (magnetite placer throughout the area) is strongly suggestive of alteration. Furthermore, analysis of gravity data by a another interested company, suggests favorable bedrock depths with gravel thicknesses of 100-200'.
- 4) Source for copper-oxides to the west As we discussed, Randy, could this be the possible Laramide porphyry-copper source for copper remoblized, transported, and deposited in Tertiary detachment faults such as Cambior's Last Chance property?
- 5) Land: Recent land checks show that most of the target area is within state land that is open for leasing and has <u>not</u> been previously leased. Hence, we can be assured that these aeromagnetic anomalies have never been drilled!

If your interested in this property, it would be to your advantage to contact me soon since one company expressed acquisition interest and another is soon to visit this property. I look forward to hearing from your soon.









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FAX NUMBER: 702-856-4549 PAGES INCI	LUDIN
DATE: 3/29/94 TIME: (MST) FROM: T. Roger REFERENCE: S. Blk Mfn. Jarget	
comments: Included geologic stetic maps for your interest + a loo project area. Please THX me a signed conf. agreement followed by original in mail. Give me a call it you have any questions or want to talk further	٠
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IF YOU ARE NOT RECEIVING OUR TRANSMISSION, PLEASE TELEPHONE (602) 995-4400. OUR FAX NUMBER IS (602) 995-4444.

LOPIES FAX

Dale Arandon

