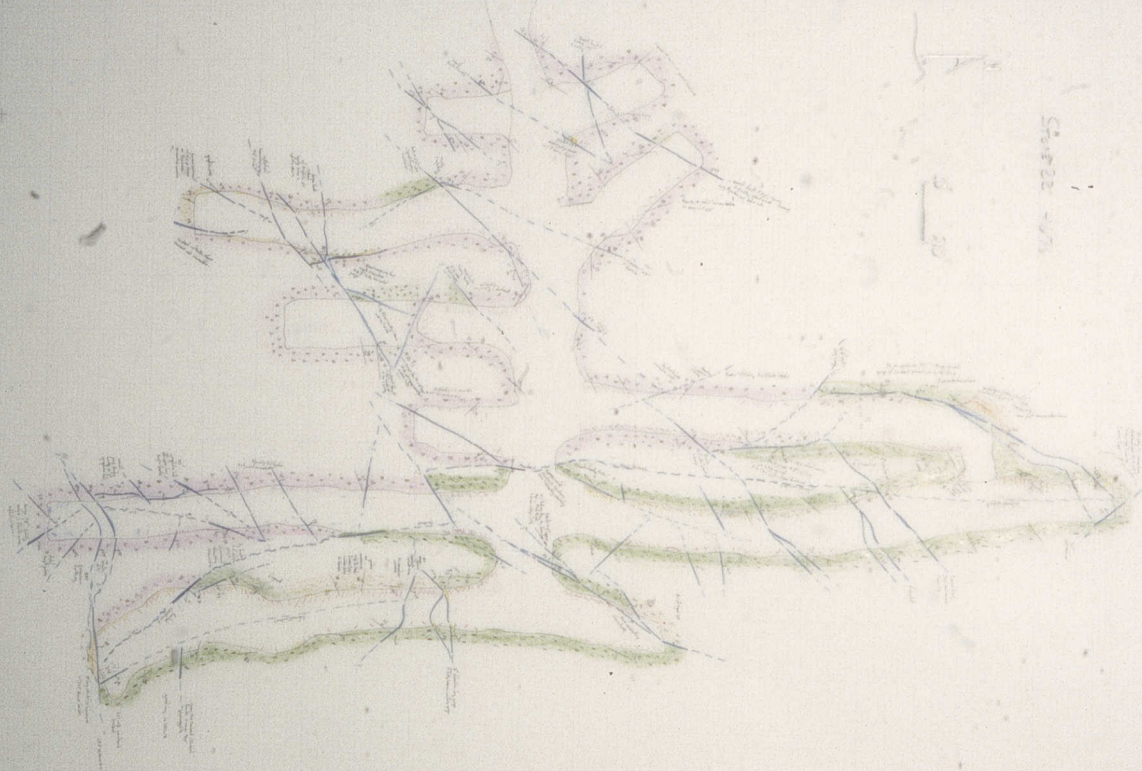


DISTRICT	ROSEBUD
DIST_NO	4010
COUNTY	PERSHING
<small>If different from written on document</small>	
TITLE	ROSEBUD MINE SLIDES
<small>If not obvious</small>	
AUTHOR	
DATE OF DOC(S)	1998-2000
MULTI_DIST Y / N?	
Additional Dist. Nos:	
QUAD_NAME	SULPHUR 7.5
P_M_C_NAME	ROSEBUD MINE
<small>(mine, claim & company names)</small>	
COMMODITY	GOLD, SILVER
<small>If not obvious</small>	
NOTES	BINDER CONTAINING SLIDES OF MINE, DISPLAYS, AND THIN SECTIONS

Keep docs at about 250 pages if no oversized maps attached
(for every 1 oversized page (>11x17) with text reduce
the amount of pages by ~25)

SS:	BP	18FEB09
	Initials	Date
DB:		
	Initials	Date
SCANNED:		
	Initials	Date

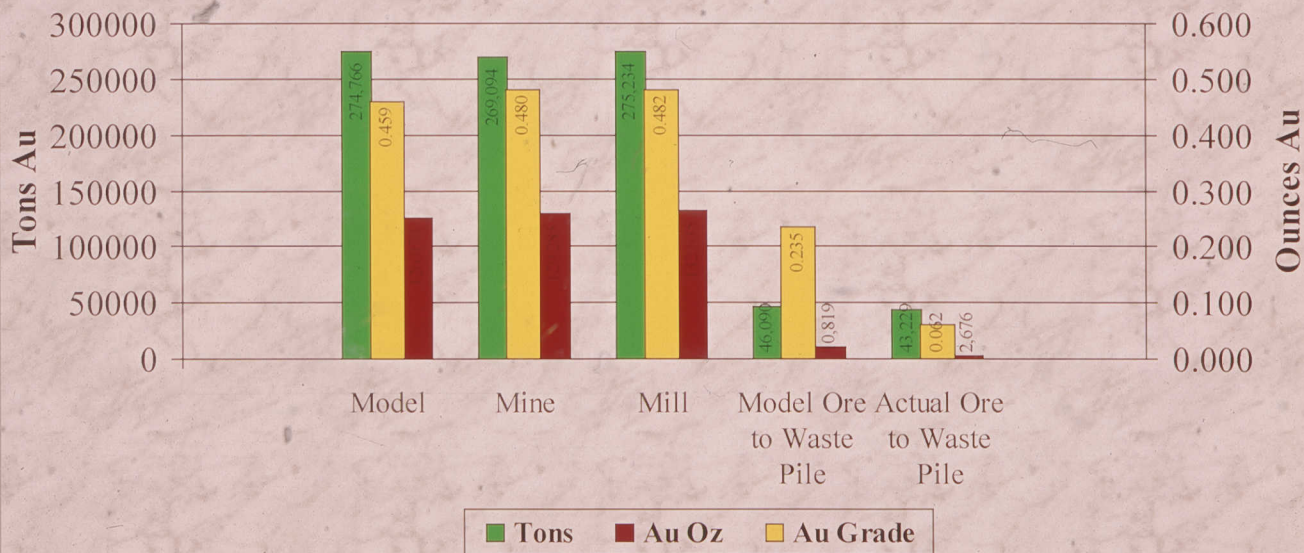


Scale 1:100,000

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Rosebud Production to Date

Model, Mine, Mill Comparison



81:5 6

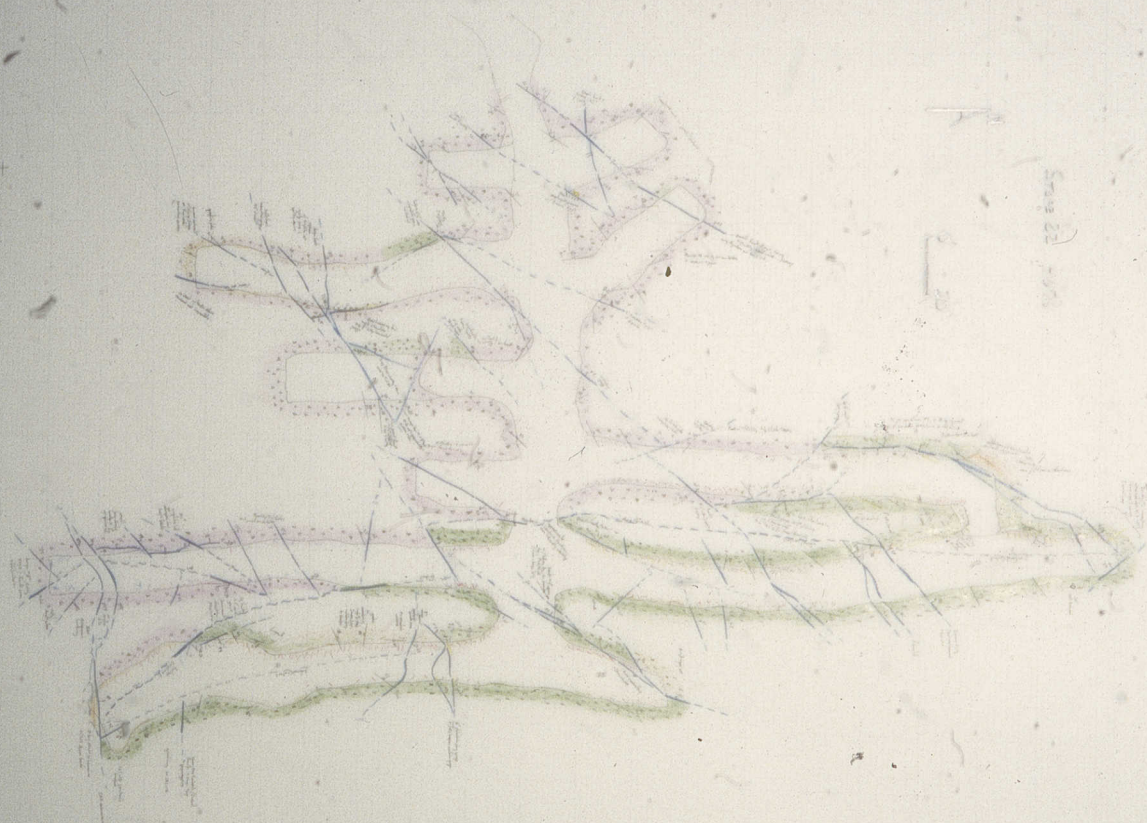








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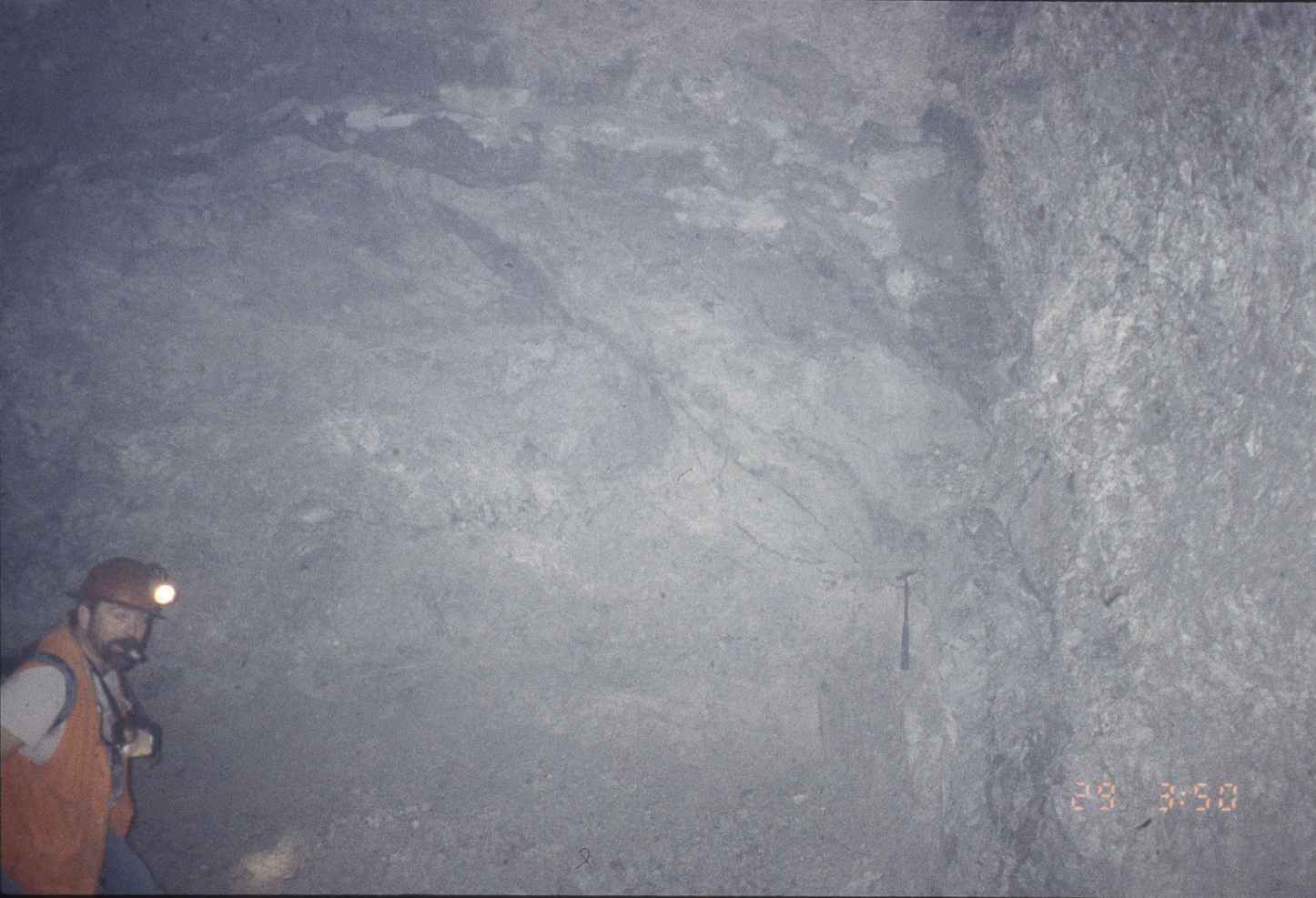


East Zone Mineralization and Ore Controls

- The Rosebud East Zone, hosted within the Dozer Formation and BMB-type porphyry, is situated within the footwall of the South Ridge fault. It is characterized by pervasive silica replacement and/or silica stockwork. The majority of the high gold grades (>0.500 opt) occur on the 10 to 40 foot thick footwall of the fault.

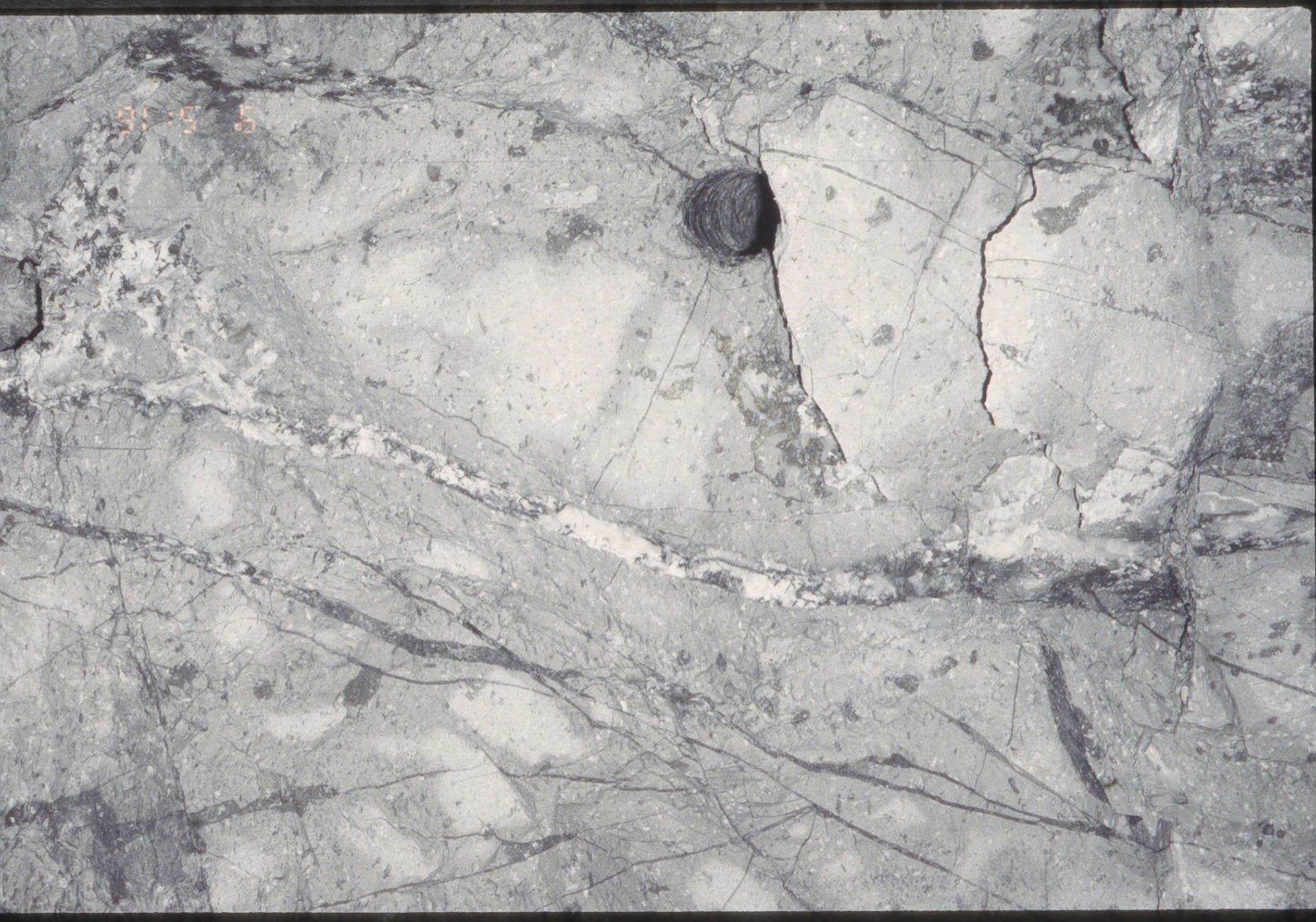
Two Major Episodes of Mineralization

- Stockwork and dissemination of quartz + pyrite + marcasite ± chalcopyrite ± electrum ± Ag sulfosalts ± arsenopyrite ± sphaelerite ± galena ± pyrrhotite ± anatase ± tetrahydrite-tennantite.
- Stockwork and dissemination of Mg-rich calcite + pyrite + marcasite + Ag sulfosalts + Ag selenides + Ag sulfides + native silver + auriferous Ag + electrum.



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8







East Zone Mineralization Events

- The main mineralization event appears to be quartz veining and silica flooding. Gold is present as gold-rich electrum either in silica or with marcasite + pyrite \pm illite \pm nacrite. Associated sulfides include pyrite, marcasite \pm arsenopyrite \pm chalcopyrite \pm sphalerite \pm pyrrhotite \pm galena. Barite and stibnite are common above the gold ore zone as are nacrite/dickite veinlets containing pyrargyrite.

Stope 33 - Bolter/Jumbo

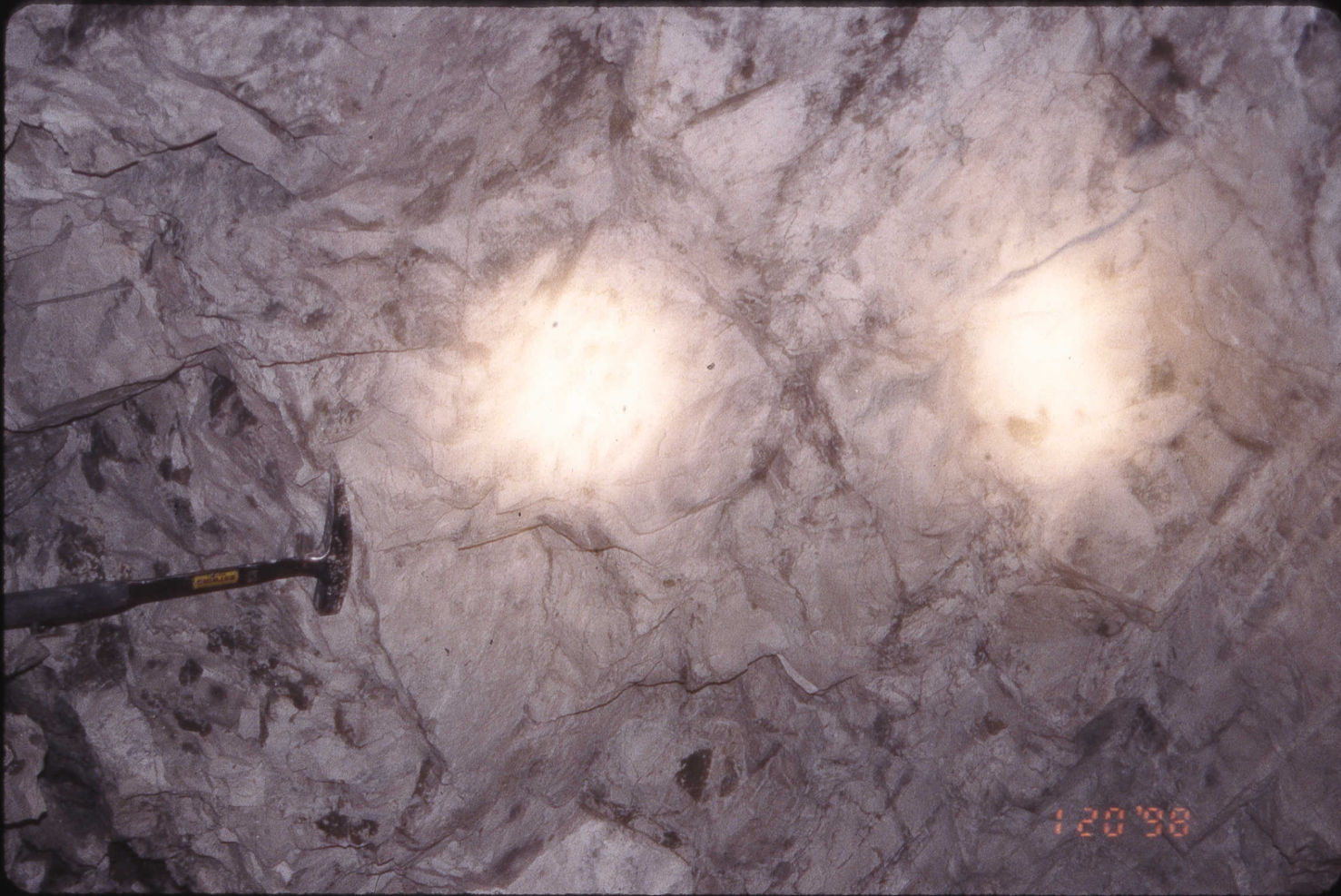








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Stope 33 - Bolter/Jumbo



Mineralization and Alteration

- Rosebud deposit is a low-temperature, epithermal, quartz-sericite, low-sulfidation, precious metal deposit. It is hosted primarily by Miocene volcanic rocks.
- Gold occurs in two dominant grain-size populations of ± 10 microns and ± 350 microns, with some grains exceeding 700 microns in diameter.
- Overall silver-to-gold ratio of the deposit is 9.5:1; Ore grade silver-to-gold ratio is 6.2:1.
- Rosebud deposit has been divided into three separate zones (South, East, and North) based upon spatial location and differing styles of mineralization.
- The approximate age of the mineralization is ± 16 MY.

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South Zone Mineralization and Ore Controls

- Within the Rosebud South Zone, there is a core of moderate to intense argillic alteration within the ore body. This core extends upward (proximal to structure) and outwards (along stratigraphy) into an intermediate zone of propylitic alteration (CaCO_3 - Chlorite dominant). This is overprinted by a halo of quartz-chalcedony-clay alteration assemblage. The external distal alteration package of the mineral deposit is a calcite assemblage. These zones overlap, which is suggestive of alteration overprinting due to a fluctuating hydrothermal cell.



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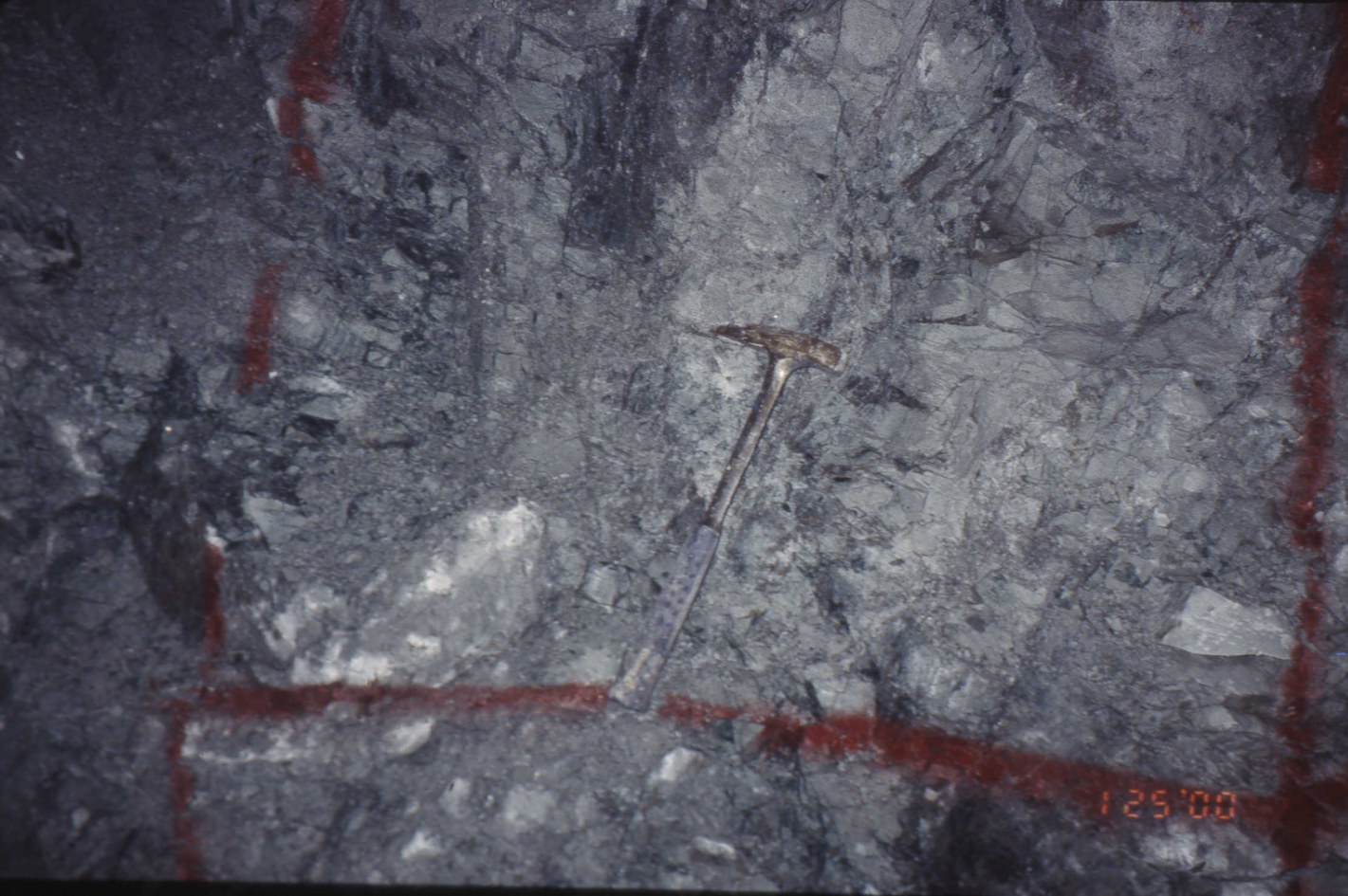


Stope 42 - Jackleg Driller





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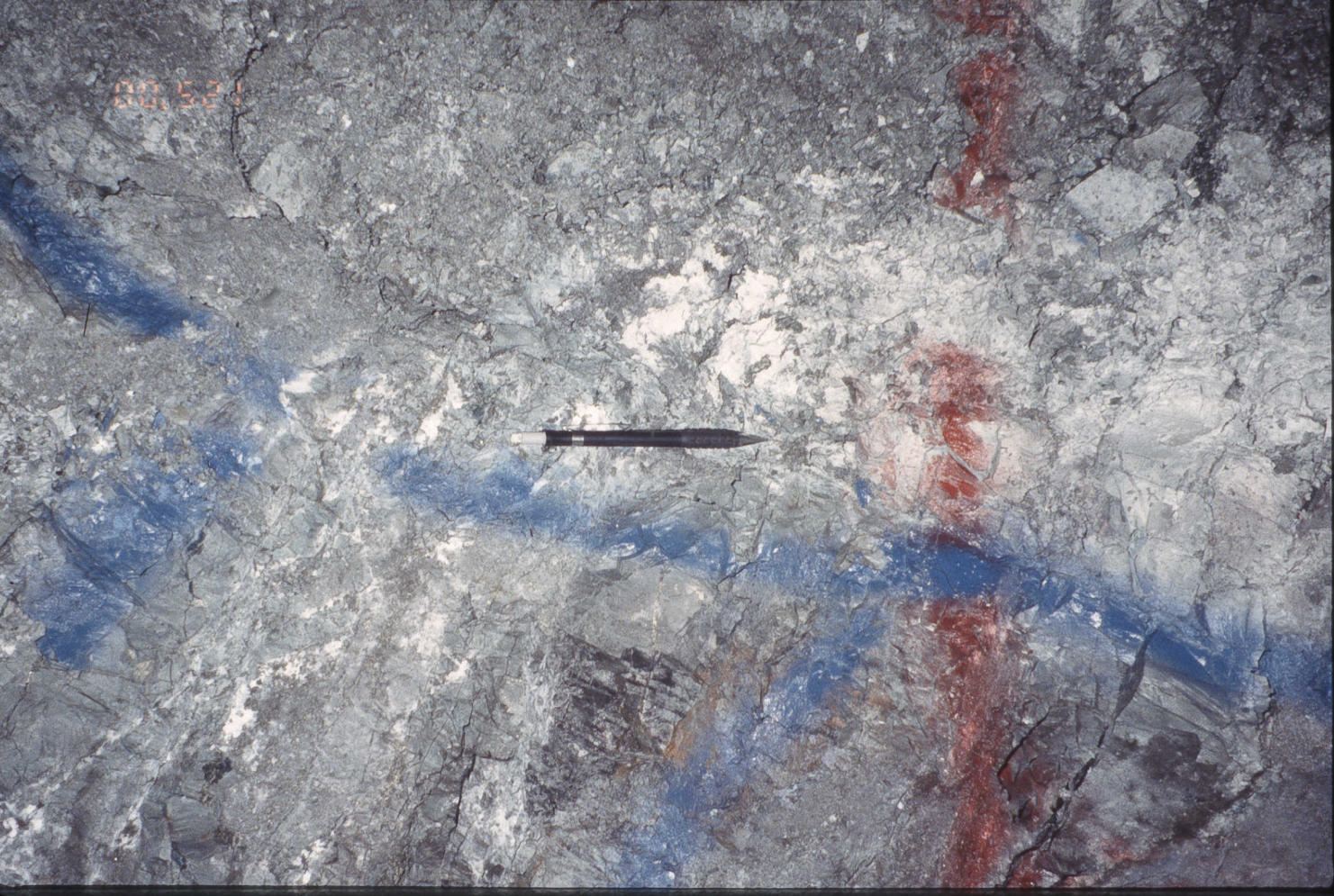


South Zone Ore Controls

- South Ridge Fault
 - Listric normal with sinistral component
 -
- Northeast High Angle (Extension Faultures)
- East-West Extensional Fault/Fracture System
- Stratigraphy



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Rosebud Reserves & Resources

	Proven & Probable Reserve					Inferred Resource				
Zone	Tonnage	Au Grade (oz/t)	Ag Grade (oz/t)	Au Ounces	Ag Ounces	Tonnage	Au Grade (oz/t)	Ag Grade (oz/t)	Au Ounces	Ag Ounces
South	720,262	0.443	3.36	318,897	2,423,617	17,185	1.171	6.68	20,125	114,400
North	176,371	0.323	1.16	56,959	204,667	103,102	0.347	1.39	35,739	143,200
East	380,000	0.326	2.10	124,028	799,606	23,155	0.564	2.56	13,048	59,300
Total	1,276,634	0.392	2.69	499,884	3,427,890	143,442	0.480	2.21	68,912	317,400





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Rosebud Deposit Stratigraphy

- Rosebud deposit is situated in Northwest Nevada, within the Basin and Range physiographic province.
- The deposit is hosted by Miocene-age Kamma Mountain igneous rocks consisting of rhyolitic to andesitic volcanics, volcaniclastics, and epiclastics.



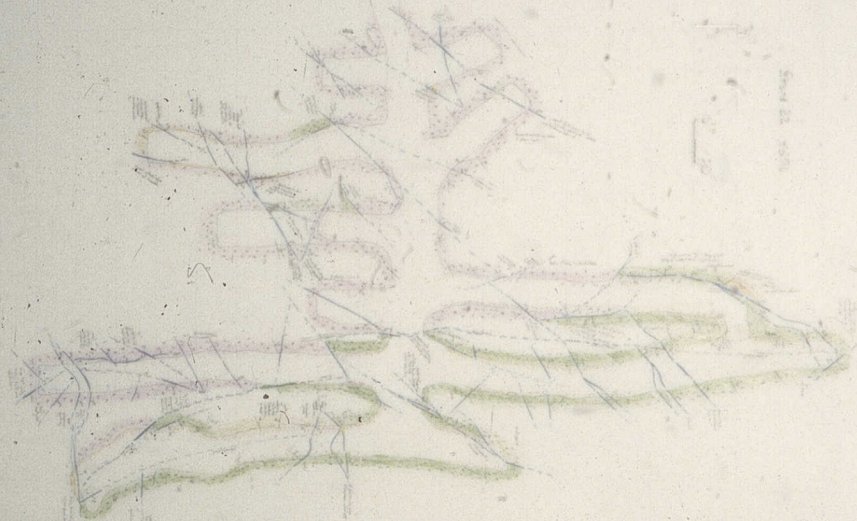




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