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AMERICAN SMELTING AND REFINING COMPANY
TUCSON ARIZONA

June 26, 1975

JHC
J. H. C.
JUN 30 1975

Mr. T. C. Osborne
Assistant Director of Exploration
New York Office

Supplemental Exploration
Authorization Request
Northwest Silver Bell Project
Pima County, Arizona

Dear Sir:

Enclosed is Mr. Davis' Summary Report on subject property. The Northwest Silver Bell claims were originally staked by Asarco to cover the possible extension of the Silver Bell altered and mineralized zone beneath post-mineral basalts. Project drill holes NWS-1 and 2 proved that the post-mineral cover was much deeper (1402 feet and 1710 feet, respectively) than anticipated and thus only two holes were completed. Drill hole NWS-2, which intersected weakly altered, iron stained volcanics, has been cased for eventual deepening. Drill hole NWS-1 did not intersect any significant alteration or mineralization.

An interesting feature of the Silver Bell alteration zone is its known ten mile length but less than one mile average width. In at least two places — one at Cocio Wash between the Oxide Pit and Silver Bell East and the other between the Oxide and El Tiro pits — the zone pinches to less than seven hundred and fifty feet in width. This pinching, beads on a string pattern conceivably could exist in the Northwest Silver Bell area and may account for the lack of significant alteration in NWS-1.

To retain our 254 NWS claims it is necessary to spend \$25,400 in assessment work for the period ending 31 August 75. I recommend we do this assessment work by drilling two 1500-foot holes north of the Ragged Top Fault, a major premineral structure. The estimated costs are:

3,000 feet rotary drill @ \$8	\$24,000
Site Preparation	1,400
Supervision	<u>4,600</u>
Total	\$30,000

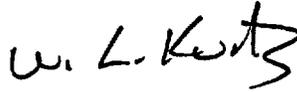
Mr. T. C. Osborne

- 2 -

June 26, 1975

If you approve, please request a Supplemental Exploration Authorization in this amount. Forms 302-EA and 302-EB are attached.

Respectfully submitted,



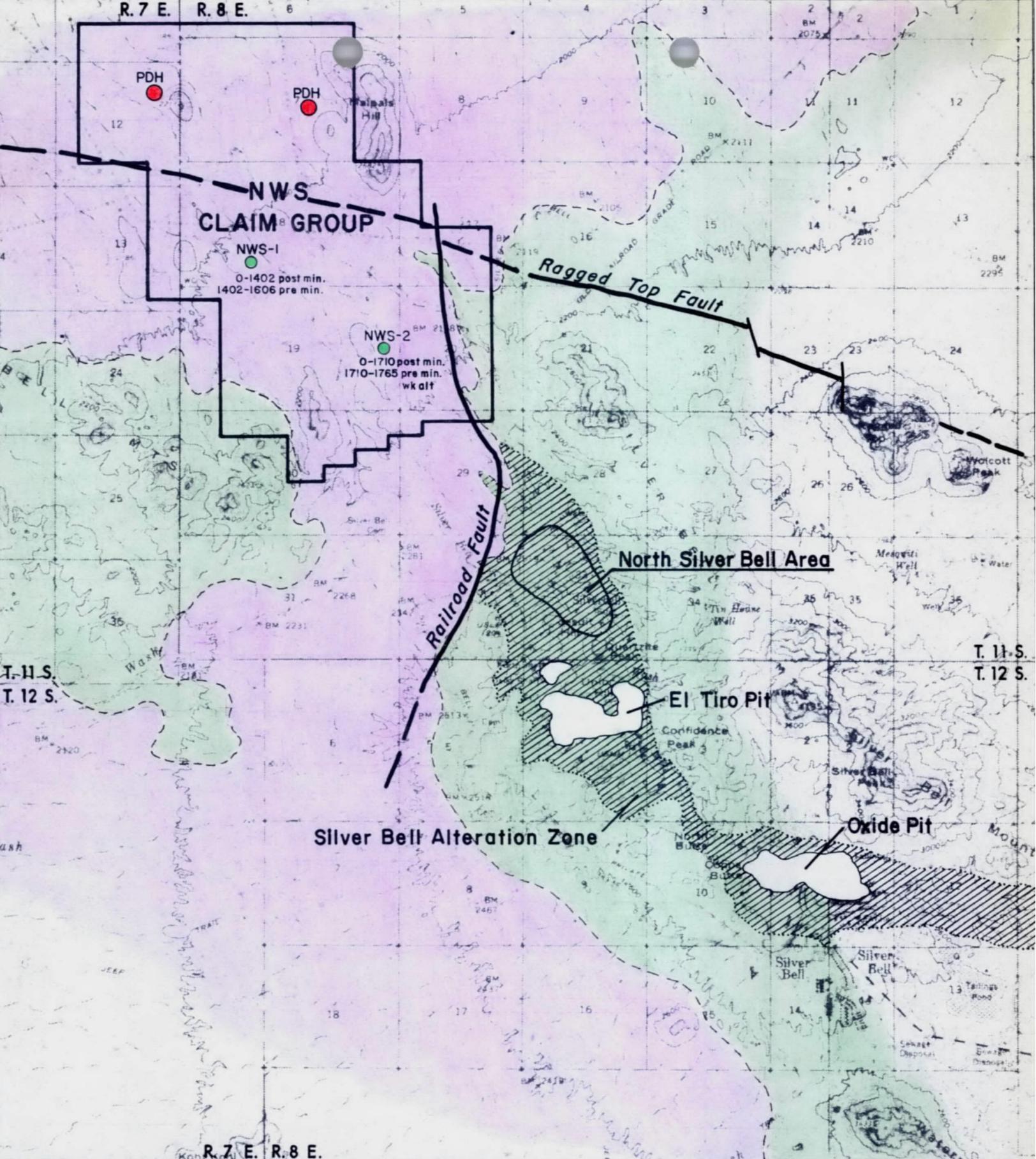
W. L. Kurtz

WLK:lb

Atts: Forms & Map

Enc: Report as noted

cc: JHCourtright - w/atts. only ✓
RBCrist - w/o atts. or enc.
NPWhaley - " " "
FTGraybeal - " " "
SRDavis - " " "
WGKellogg - w/forms only



EXPLANATION

- Post-Mineral Rocks
- Pre-Mineral Rocks
- Proposed Hole

TO ACCOMPANY *Supplemental*
Exploration Authorization Request
 DATED *June 23, 1975*
 BY *W.L.K. KURTZ*

NWS PROJECT
Silver Bell District
 Pima County, Arizona
SCALE: 1"=1 mile

APPLICATION FOR SUPPLEMENTAL EXPLORATION AUTHORIZATION

..... June 26, 19.75.

Originating Office ... SWED - Tucson

Application is hereby made for supplemental Authorization to cover cost, in excess of original estimate, of work authorized by New York.

NORTHWEST SILVER BELL PROJECT
No. 0063-00 Pima County, Arizona

Present total Estimated Cost (Form 302-EA attached)	\$80,000....
Amount previously authorized (date... 2/13/74.....)	\$50,000....
Balance for which Authorization is now requested	\$30,000....

ADDITIONAL WORK CONTEMPLATED:

Drill two 1500-foot rotary holes.

EXPLANATION OF INCREASED COST:

To continue a test of the northwest extension of the Silver Bell alteration-mineralization zone beneath cover and to fulfill 1975 Assessment work obligation.

Reviewed by <i>[Signature]</i>	Approved by
Acct. Mgr. or Chief Acct.	Vice President
Recommended by <i>[Signature]</i>	Approved by
Supervisor	Comptroller

Account Chargeable to
To be designated by Comptroller

Approved by Advisory Committee	Approved by Board of Directors
.....19.....19.....

.....
Secretary

PROSPECT NORTHWEST SILVER BELL
 LOCATION Pima County, Arizona

COST ESTIMATE, MINERAL EXPLORATION

OFFICE SWED - Tucson
W. L. Kurtz

No.	Type of Work	Salaries/Wages		Material	Fee. Rent. Services	Traveling	Taxes	Other	Total Estimate Cost
		Days	Amount						
501	Outright Purchase								
502	Option Payments								
503	Bonus Payments								
504	Minimum Royalties- Deductible from Future Production								
505	Minimum Royalties-Not Deductible from Future Production								
506	Rental Payments								
507	Staking Claims		1,500		26,000	500			28,000
511	Surface Excavating								
512	Underground "								
521	Surface Drilling		2,000		43,000	500			45,500
522	Underground "								
530	Geologic								
540	Sampling, Assaying, Lab.				1,100				1,100
550	Geophysics								
560	Geochem								
570	Engineering								
580	Construction (temp.)				1,400				1,400
590	Construction (perm.)								
610	Administration, Field Offices and Camps		2,000			1,000			3,000
620	Administration, General		1,000						1,000
641	Autos and Vehicles								
642	Aircraft and Boats								
650	Partner's Share ASARCO'S SHARE		6,500		71,500	2,000			80,000
661	Commission or Fees								
663	Exchange								
	TOTAL		6,500		71,500	2,000			80,000

AMERICAN SMELTING AND REFINING COMPANY
TUCSON ARIZONA

May 1, 1974

J.H.C.

MAY 2 1974

TO: W. L. Kurtz

FROM: S. R. Davis

NW Silver Bell Project
Pima County, Arizona
Geologic Progress Report
April 1974

Location drilling was completed on 248 of the 254 NWS claims in March; during April, percussion drilling was performed on the six remaining claims. No change has occurred in the deep drill hole status during the current month; therefore, no geologic progress map is attached. For drill hole locations and rock types, see the March drilling progress map.

Additional geochemical and assay data was received during April. The previously reported anomalous (0.86%) zinc zone encountered in NWS-1 was confirmed by a second assay; however, no other significantly anomalous zones of copper, molybdenum, lead, or zinc were encountered. Drill hole NWS-2 penetrated approximately 60' of pre-mineral rock and, although only weakly anomalous zinc and lead values were encountered, the intersection is still favorable for a deeper test as it is pervasively altered and leached and is moderately to strongly fractured.

Reconnaissance mapping was completed during April and will be incorporated into the summary report and the greater Silver Bell District maps. No further monthly reports will be forthcoming as no drilling or exploration expenses are planned for the near future.

Estimated balance of the authorization is \$1,000.

S. R. Davis
S. R. Davis

SRD:1b

JHC

AMERICAN SMELTING AND REFINING COMPANY
TUCSON ARIZONA

March 27, 1974

TO: W. L. Kurtz

FROM: S. R. Davis

NW Silver Bell Project
Pima County, Arizona
Geologic Progress Report
March 1974

Rotary drill hole NWS-1, started February 19th, was completed to a depth of 1,606' during March. The hole intersected alluvium from 0-60' and post-mineral, Tertiary volcanic flows and tuffs from 60' to 1,402'. The first pre-mineral rock, encountered at 1,402', is a fine-grained, chloritized, clastic-volcanoclastic of probable Laramide age. From \pm 1,440' to 1,606' conglomeratic and agglomeratic rocks of probable Silver Bell and Claflin Ranch equivalent were encountered. Alteration, mainly chloritization and local bleaching, decreases in the lower unit and is less pervasive with depth.

Pyrite is present as very fine-grained fracture coatings and vein flooding, but normally constitutes less than one percent by volume. Possible molybdenite was identified in a spot core specimen from 1,425'; however, a geochemical analysis of the rotary cuttings from 1,420' to 1,430' shows only zinc to be anomalous (0.86%). Additional geochemical analyses are presently in progress for the remainder of the pre-mineral column.

Drill hole NWS-2, located approximately 6,300' southeast of NWS-1, was rotary to a depth of 1,765' with spot core taken at 1,642' to 1,650' and 1,765' to 1,770'. Tertiary volcanic flows were encountered at 20' and persisted to 1,435'. From 1,435' to 1,710', clay of probable tuffaceous origin and containing considerable hematite was penetrated, despite the hematite content, no indication of sulfides were noted and the few recognizable rock fragments imply a post-mineral age.

At approximately 1,710' definite pre-mineral rock was encountered and probable casts after sulfides were recognized. The core specimen from 1,765' to 1,770' consists of fine to medium grained tuff with local arkosic textures (beds?) and may be correlative to the Mt. Lord rhyolite. The rock is well fractured with occasional mylonitic gouge and is pervasively bleached and oxidized. Thin section study could establish the presence, or lack of clay and/or sericite alteration products. No visible mineralization was observed, geochemical analyses are presently in progress.

W. L. Kurtz

- 2 -

March 27, 1974

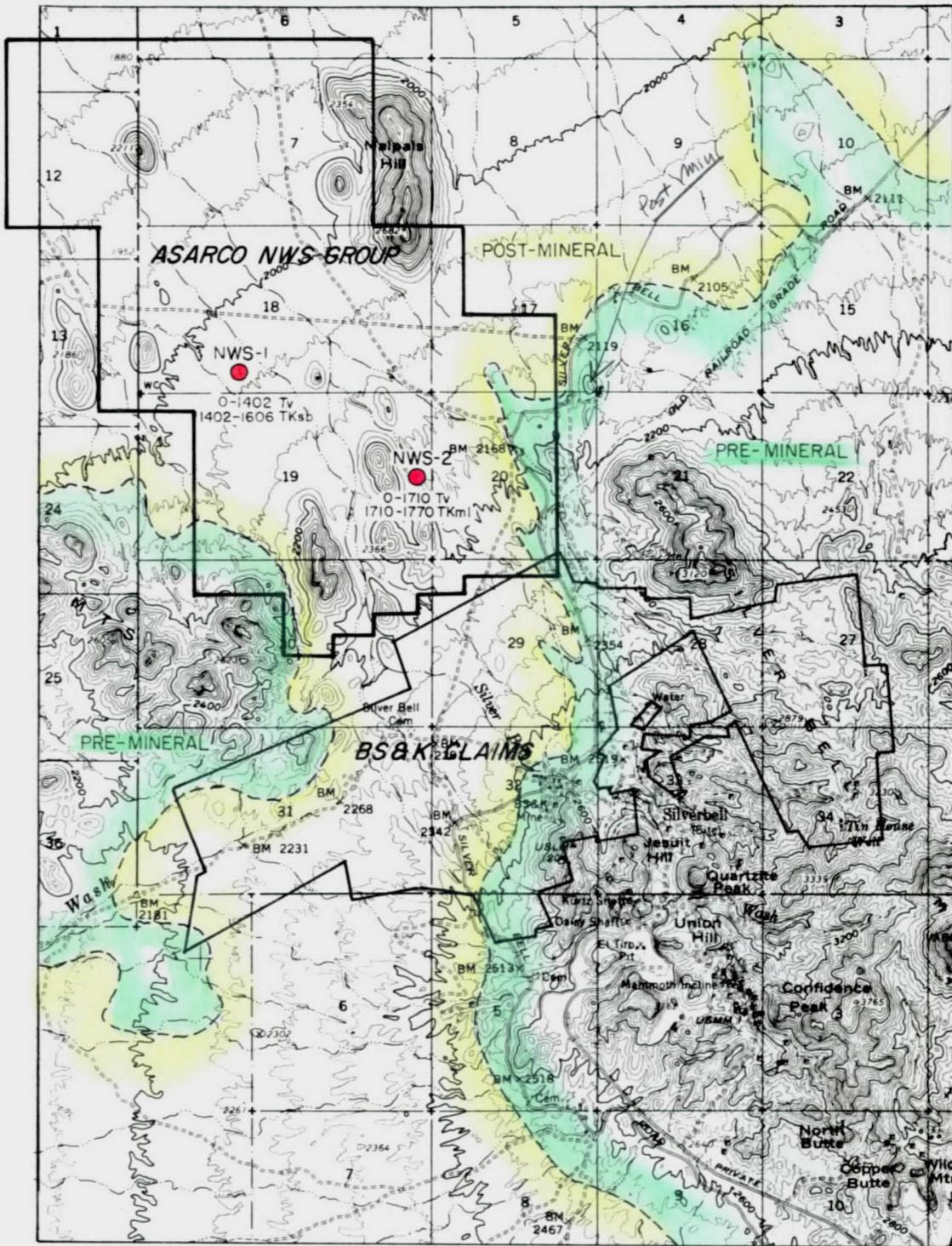
The site of NWS-1 has been cleaned and abandoned and no further drilling is anticipated or recommended. Hole NWS-2 has been cased and plugged for core-drilling at a later date. Coring should penetrate to a sufficient depth to test the extent of oxidation and the nature of the sulfide zone.

Estimated balance of authorization is \$1,300.

A handwritten signature in cursive script, appearing to read "S. R. Davis".

S. R. Davis

SRD:lb
Attach.



EXPLANATION

ASARCO
 NWS-2 (hole designation)
 ●
 1770-TKml
 ↘ Rock type
 ↘ Bottom hole depth

POST-MINERAL ROCK UNIT
 Tv-Andesite & Basalt Flows

PRE-MINERAL ROCK UNIT
 TKml - Mt. Lord Rhyolite
 TKsb - Silver Bell Volcanic Complex

TO ACCOMPANY Monthly Report
 DATED March 27, 1974
 BY S.R. Davis

DRILLING PROGRESS MAP
 for the month of March, 1974
N.W. SILVER BELL PROJECT
 PIMA COUNTY, ARIZONA
 SCALE: 1" = 1 mile
 S.R.D.

AMERICAN SMELTING AND REFINING COMPANY
TUCSON ARIZONA

February 6, 1974

Mr. T. C. Osborne
Asst. Director of Exploration
New York Office

Authorization Request
Northwest Silver Bell Project
Pima County, Arizona

Dear Sir:

The Silver Bell porphyry copper alteration zone containing our Oxide and El Tiro pits and North Silver Bell chalcocite deposit is known to extend in an arcuate zone for at least ten miles. We have located 254 NWS claims to cover the possible northwest extension of this zone beneath post-mineral basalt and alluvium (see attached map).

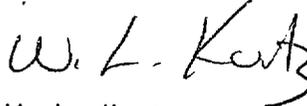
We believe this represents an unusually attractive target area for the occurrence of secondarily enriched chalcocite mineralization and one in which the depth to premineral rock may be within open pit range.

I estimate the cost for an initial test of this area to be \$50,000, as follows:

Claim, monumenting and location work:	\$28,000
2,750' rotary drilling in 3 holes @ \$8/ft:	<u>22,000</u>
Total:	\$50,000

If you approve, please request an exploration authorization in the amount of \$50,000. Forms 302-E and 302-EA are attached.

Respectfully submitted,



W. L. Kurtz

WLK:1b
Attachs.

cc: JHCourtright - w/o attachs. 
NVisnes - " "
RBMeen - " "
RBCrist - " "
ADCoumides - w/forms only
FTGraybeal - w/map only