CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
520-770-3500
http://www.azgs.az.gov
inquiries@azgs.az.gov

The following file is part of the

James Doyle Sell Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

JHowell	Coe 1-4 late 62
"	Coe 5-16 early 63
"	Coe 17
"	Ede 1-12 early 63
Webb & Schultz	Twin No 1 + 2 16 Dec 62 D 339, p. 167 & 168
Webb	Sites #1 & 2. 8 Oct 63 D 364, p. 157 & 158
Miami	Melvin 1-10 early 63
"	Henry 1-10 early 63
"	Echo 1-13
"	Oak 1-10
K M	MX Summer 1964
Sequoia	MO
"	BI
"	AG
I	OS
I	~~Pole~~ Crook
M ?	Polo
I	Ghost
	Seven

Claim Name & Number	Person or Company	Location Notices				Validation (V) or Assessment (A)					
		Date Posted	Recorded			Date Completed	Recorded			For Assess. Year	Type of Work
			Date	Docket	Page		Date	Docket	Page		

Claim Name + Number	Person or Company	Location Notices				Validation (V) or Assessment (A)					
		Date Posted	Recorded			Date Completed	Recorded			For Assess. Year	Type of Work
			Date	Docket	Page		Date	Docket	Page		

Claim Name & Number	Person or Company	Location Notices				Validation (V) or Assessment (A)					
		Date Posted	Recorded			Date Completed	Recorded			For Assess. Year	Type of Work
			Date	Docket	Page		Date	Docket	Page		

Claim Name & Number	Person or Company	Location Notices				Validation (V) or Reassessment (A)					
		Date Posted	Recorded			Date Completed	Recorded			For Assess. Year	Type of Work
			Date	Docket	Page		Date	Docket	Page		

Claim Name & Number	Person or Company	Location Notices				Validation (V) or Assessment (A)					
			Recorded				Recorded				
		Date Posted	Date	Docket	Page	Date Completed	Date	Docket	Page	for Assess. Year	Type of Work

Claim Name & Number	Person or Company	Location Notices				Validation (V) or Assessment (A)					
		Date Posted	Recorded			Date Completed	Recorded			For Assess. Year	Type of Work
			Date	Docket	Page		Date	Docket	Page		

Claim Name & Number	Person or Company	Location notices				Validation (V) or Reassessment (A)						Type of Work
		Date Posted	Recorded			Date Completed	Recorded			for assess. Year		
			Date	Docket	Page		Date	Docket	Page			

Claim Name & Number	Person or Company	Location Notices				Validation (V) or Assessment (A)					
		Date Posted	Recorded			Date Completed	Recorded			For Assess. Year	Type of Work
			Date	Docket	Page		Date	Docket	Page		

Claim Name & Number	Person or Company	Location Notices				Validation (V) or Assessment (A)					
		Date Posted	Recorded			Date Completed	Recorded			For Assess. Year	Type of Work
			Date	Docket	Page		Date	Docket	Page		

Claim Name & Number	Person or Company	Location Notices Posted	Location Notices Recorded			Date Completed	Valuation (V) or Assessment (A) Recorded			For Assess. Year	Type of Work
			Date	Docket	Page		Date	Docket	Page		
Crook 103 thru 113	ICC Summit Mt.	9-1-66	11-10-66	474	339 to 349						
Crook 138, 139 & 142 thru 154	"	9-1-66	11-10-66	474	350 to 358						

Claim Name & Number	Person or Company	Location Notices				Validation (V) or Assessment (A)					
		Date Posted	Recorded			Date Completed	Recorded			for Assess. Year	Type of Work
			Date	Docket	Page		Date	Docket	Page		
Coe # 1 thru # 3 (Magna List)	J.D. Lowell (Magna List)	9-18-62	9-1962	334	21 thru 23						
Coe No. 4	J.D. Lowell (Magna List)	10-21-62	4-16-63	350	117						
Cook 97, 98 114 to 137 140 to 147 incl.	ICC (Summit List)	10-21-63 et al	1-15-64	371	516 to 549 incl						
Cook # 103 thru # 113	ICC Summit List	7-22-66	7-28-66	455	588 to 598						
Cook # 138 & 139	"	7-22-66	7-28-66	455	599 to 600 incl						
Cook # 148 thru 154	"	7-22-66	7-28-66	456	1 thru 7						
Cook 1 to 102 incl	"	10-9-63 et al	1-6-64	370	340 to 459 incl.						
Corto # 18 thru # 22	"	1-16-67	2-15-67	490	341 to 345						
Corto # 42 thru # 45	"	1-16-67	2-15-67	490	346 to 349						
Corto # 61 thru # 80	"	1-16-67	2-15-67	490	350 thru 362						
Corto # 108 thru # 116	"	2-3-67 et al.	2-15-67	490	363 thru 371						

NW corner of Sec. 9

C.C. #1 6 Jan 72. N-S NE corner lies 2200's 2400'E of the T85,R18

San Manuel Area

C.C. #8 800'N & 1000'E .....

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PROFESSIONAL PAPER 542
PLATE I

ASARCO · HANNA JOINT VENTURE

GEOLOGIC MAP OF THE GLOBE-MIAMI DISTRICT, GILA COUNTY, ARIZONA

Scale 1:48000

1 0 1 Mile

BOHME-CORYELL PROPERTY
MIAMI DISTRICT

Base from U.S. Geological Survey
topographic quadrangles Inspiration,
1945, Globe 1945, Pinal Ranch,
1948

Geology by N.P. Peterson, C.M. Gilbert,
G.L. Quick, H.C. Pauley, J.C. McKaffie,
L. Bryner, D.W. Peterson, and J.V.N. Dorr II
1943-53
modified June 1, 1972
J.D. Sell D.C. Rees

EXPLANATION

- Castle Dome – Copper Cities basement and buttress faults.
- Internal Castle Dome – Copper Cities imbricate faults.
- Inspiration – Miami basement and buttress faults.
- Internal Inspiration – Miami imbricate faults.
- Normal (post-imbrication) faults.
- Exposed or known Root and Segment mineral deposits.
- Postulate Root and Segment mineral deposits.
- Known drill holes.
- Proposed drill holes.
- Cross sections (attachment B)
- Hanna optioned area (Bohme-Coryell Property)

EXPLANATION

QUATERNARY

- Alluvium
- Talus
- Landslide
- Basalt
- Gila conglomerate

TERTIARY AND QUATERNARY

- Later volcanic rocks
- Earlier volcanic rocks
- Whitetail conglomerate

Tsg — Schultze granite — Tgp

Main mass of Schultze granite (Tsg) is porphyritic quartz monzonite; porphyry at related outcrops at Schultze Granite is more K

Tdp — Dacite porphyry

Tlqm — Lost Gulch quartz monzonite

Tgl — Granodiorite of Gold Gulch

Twsg — Wilhelm Spring granodiorite and younger border intrusive, dotted pattern

CRETACEOUS OR TERTIARY

- Schultze granite
- Vane Limestone
- Escabrosa Limestone
- Martin Limestone
- Troy quartzite
- Naco
- Mescal Limestone
- Dripping Spring quartzite and Barnes conglomerate locally as base
- Pioneer formation and Scanlan conglomerate
- Base granite

pCmg — Granite on Manitou Hill

CAMBRIAN DEVONIAN, MISSIS. PENNSYL. AND PERMIAN

CARBONIFEROUS

- Madera diorite
- Pinal schist

Upper Precambrian

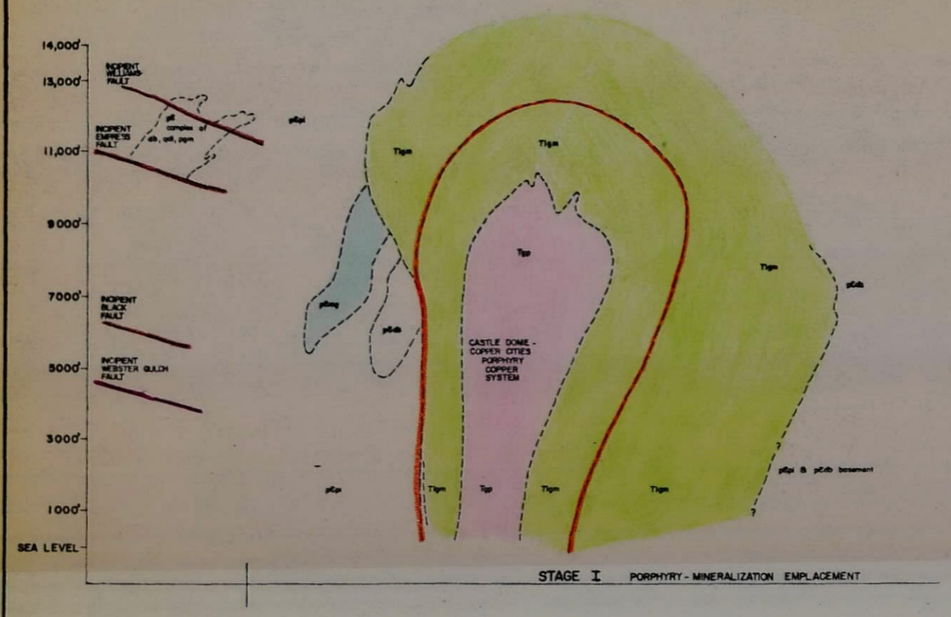
Apache group

Lower Precambrian

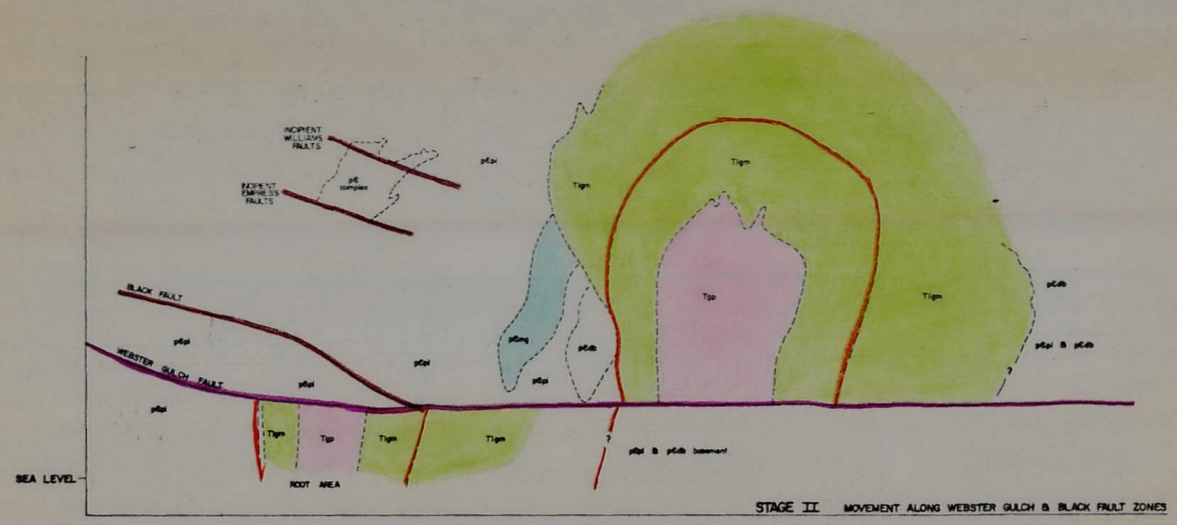
PRECAMBRIAN

- Contact, showing dip. Dashed where approximately located, dotted where concealed
- Fault, showing dip. Dashed where approximately located, dotted where concealed; ball and bar on downthrown side
- Vertical fault. Dashed where approximately located
- Thrust fault. Dashed where approximately located, dotted where concealed; teeth on upper plate
- Shear zone
- Strike and dip of beds
- Strike of vertical beds
- Horizontal beds
- Strike and dip of overturned beds
- Strike and dip of foliation
- Strike of vertical foliation
- Strike and dip of cleavage
- Shaft
- Portal of tunnel or adit
- Prospect
- Mine dump
- Outline of areas shown on plate

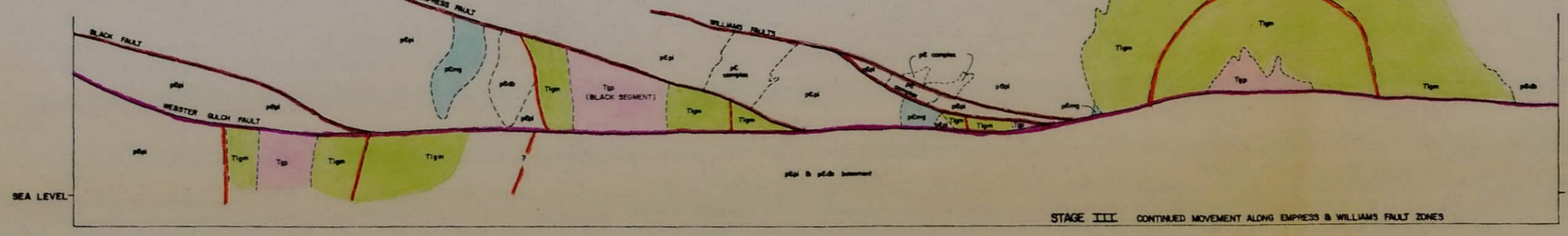
mn. 2552 DAM



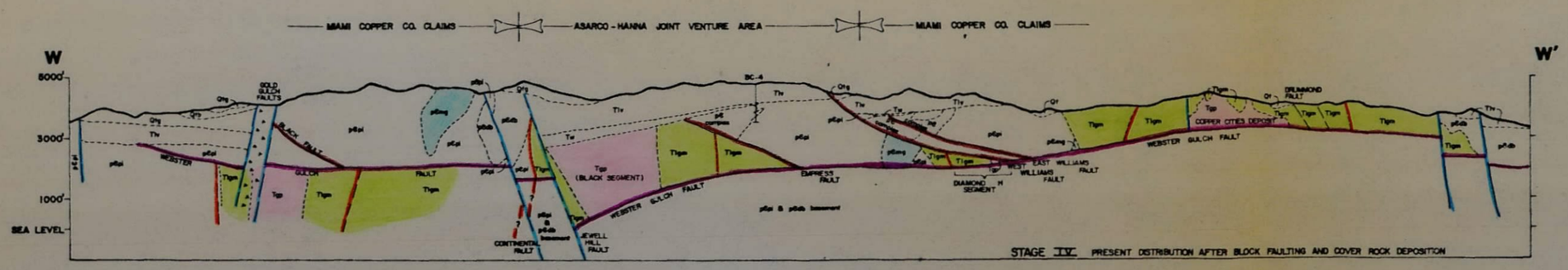
STAGE I PORPHYRY - MINERALIZATION EMPLACEMENT



STAGE II MOVEMENT ALONG WEBSTER GULCH & BLACK FAULT ZONES



STAGE III CONTINUED MOVEMENT ALONG EMPRESS & WILLIAMS FAULT ZONES



STAGE IV PRESENT DISTRIBUTION AFTER BLOCK FAULTING AND COVER ROCK DEPOSITION

EXPLANATION

(NOTE: see attachment A for rock unit designation)

- CASTLE DOME - COPPER CITIES BASEMENT FAULT
- INTERNAL CASTLE DOME - COPPER CITIES IMBRICATE FAULTS
- INSPIRATION-MIAMI BASEMENT FAULT
- INTERNAL INSPIRATION-MIAMI IMBRICATE FAULTS
- NORMAL (POST IMBRICATION) FAULTS
- EXPOSED OR KNOWN ROOT & SEGMENT MINERAL DEPOSITES
- POSTULATED ROOT & SEGMENT MINERAL DEPOSITES
- CDX-1 KNOWN DRILL HOLE

EVOLUTION OF FAULT MOVEMENT EXTENSION ALONG SECTION W-W' (MODIFIED)

ASARCO-HANNA JOINT VENTURE

BOHME-CORYELL PROPERTY
MIAMI DISTRICT
GILA COUNTY, ARIZONA

J.D. SELL SCALE: 1:24000 JULY 31, 1972

2552-D

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PROFESSIONAL PAPER 342
PLATE I

ASARCO · HANNA JOINT VENTURE

GEOLOGIC MAP OF THE GLOBE-MIAMI DISTRICT, GILA COUNTY, ARIZONA

Scale 1:48000

BOHME-CORYELL PROPERTY
MIAMI DISTRICT

Base from U.S. Geological Survey
topographic quadrangles Inspiration 1945, Globe 1945, Pinal Ranch 1948

Geology by N.P. Peterson, D.M. Gilbert, G.L. Quick, H.L. Ramby, J.C. McKellar, L. Byrne, D.W. Peterson, and J.V.N. Dorr II (1971)
modified June 1, 1972
J.D. Sell D.C. Rees

EXPLANATION

- Castle Dome – Copper Cities basement and buttress faults.
- Internal Castle Dome – Copper Cities imbricate faults.
- Inspiration – Miami basement and buttress faults.
- Internal Inspiration – Miami imbricate faults.
- Normal (post-imbrication) faults.
- Exposed or known Root and Segment mineral deposits.
- Postulate Root and Segment mineral deposits.
- Known drill holes.
- Proposed drill holes.
- Cross sections (attachment B)
- Hanna optioned area (Bohme-Coryell Property)

EXPLANATION

QUATERNARY
- Alluvium
- Talus
- Landslide

TERTIARY AND QUATERNARY
- Basalt
- Gila conglomerate

TERTIARY
- Younger volcanic rocks
- Earlier volcanic rocks

CRETACEOUS OR TERTIARY
- Whitetail conglomerate
- Tsg — Schultze granite
- Tgp — Granite porphyry
- Tdp — Diorite porphyry
- Diabase
- Tlqm — Lowell Gulch quartz monzonite
- Tgl — Granodiorite in Gold Gulch
- Twsg — Willow Spring granodiorite and younger border monzonite, dotted pattern

CAMBRIAN, DEVONIAN, MISSISSIPPIAN, PENNSYLVANIAN AND CARBONIFEROUS
- Schultze granite
- Naco limestone
- Escabrosa limestone
- Martin limestone
- Troy quartzite
- Basalt
- Mescal limestone
- Dripping Spring quartzite and Barnes conglomerate locally at base

PRECAMBRIAN
- Pioneer formation and Scanlan conglomerate
- Ruin granite
- pEmg — Granite on Manning Hill
- Madera diorite
- Pinal schist

Type Proterozoic (Apache group)

Lower Proterozoic

- Contact, showing dip. Dashed where approximately located, dotted where concealed
- Fault, showing dip. Dashed where approximately located, dotted where concealed. U, upthrown side; D, downthrown side
- Vertical fault. Dashed where approximately located
- Thrust fault. Dashed where approximately located, dotted where concealed. Sawteeth on upper plate
- Shear zone
- Strike and dip of beds
- Strike of vertical beds
- Horizontal beds
- Strike and dip of overturned beds
- Strike and dip of foliation
- Strike of vertical foliation
- Strike and dip of cleavage
- Shaft
- Portal of tunnel or adit
- Prospect
- Mine dump
- Tailing pond
- Leach dump
- Outline of areas shown on plate

mn. 2552 DAM

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PROFESSIONAL PAPER 342
PLATE I

ASARCO · HANNA JOINT VENTURE

GEOLOGIC MAP OF THE GLOBE-MIAMI DISTRICT, GILA COUNTY, ARIZONA

Scale 1:48000

BOHME-CORYELL PROPERTY
MIAMI DISTRICT

Base from U.S. Geological Survey
Topographic quadrangles reproduced
1945 Globe 1945 Pinal Ranch
1948

Geology by N.P. Peterson, G.M. Gilbert, W.L. Quick, H.E. Ransome, J.C. McKnight, L. Bryner, D.W. Peterson, and J.V.N. Dorr II
1951-1971
modified June 1, 1972
J.D. Sell D.C. Rees

EXPLANATION

- Castle Dome – Copper Cities basement and buttress faults.
- Internal Castle Dome – Copper Cities imbricate faults.
- Inspiration – Miami basement and buttress faults.
- Internal Inspiration – Miami imbricate faults.
- Normal (post-imbrication) faults.
- Exposed or known Root and Segment mineral deposits.
- Postulate Root and Segment mineral deposits.
- Known drill holes.
- Proposed drill holes.
- Cross sections (attachment B)
- Hanna optioned area (Bohme-Coryell Property)

EXPLANATION

QUATERNARY
Alluvium
Talus
Landslide
Basalt
Gila conglomerate

TERTIARY AND QUATERNARY
Lower volcanic rocks
Quartz latite
Rhyolite
Whitetail conglomerate
Tsg Schultz granite
Tgp
Tdp Diabase porphyry
Tlqm Lost Gulch quartz monzonite
Tgl Granodiorite in Gold Gulch
Twsg Willow Spring granodiorite and younger border intrusion, dotted pattern

CRETACEOUS OR TERTIARY
Schultz granite
Main limestone
Escabrosa limestone
Martin limestone
Troy quartzite
Naco
Mescal limestone
Dripping Spring quartzite and Barnes conglomerate locally at base
Pioneer formation and Scanlan conglomerate

PRECAMBRIAN
Ruin granite
p€mg Granite on Mammoth Hill
Madera diorite
Pinal schist

Contact, showing dip
Dashed where approximately located, dotted where concealed
Fault, showing dip
Dashed where approximately located, dotted where concealed; U, upthrown side; D, downthrown side
Vertical fault
Dashed where approximately located
Thrust fault
Dashed where approximately located, dotted where concealed; upper plate
Shear zone
Strike and dip of beds
Strike of vertical beds
Horizontal beds
Strike and dip of overturned beds
Strike and dip of foliation
Strike of vertical foliation
Strike and dip of cleavage
Shaft
Portal of tunnel or adit
Prospect
Mine dump
Mine name
Outline of areas shown on plate

Reb. ext. of Tw deposition
& preservation
Thick Tw generally on Pa-Me
(2, 4, C. hundreds of ft thick.

Present ext of Td outside Tw areas
& rock type unclear.
Poky
Apache
Sc

Laramide int.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PROFESSIONAL PAPER 342
PLATE I

ASARCO · HANNA JOINT VENTURE

GEOLOGIC MAP OF THE GLOBE-MIAMI DISTRICT, GILA COUNTY, ARIZONA

Scale 1:48000

BOHME-CORYELL PROPERTY
MIAMI DISTRICT

Base from U.S. Geological Survey topographic quadrangles (reprinted 1965) Globe 1945, Pinal Ranch 1948

Geology by N.P. Peterson, E.M. Gilbert, G.C. Quick, H.C. Ramsey, J.E. McArthur, L. Byrer, D.W. Peterson, and V.N. Lloyd 1948-1971
modified June 1, 1972
J.D. Sell D.C. Rees

EXPLANATION

- Castle Dome – Copper Cities basement and buttress faults.
- Internal Castle Dome – Copper Cities imbricate faults.
- Inspiration – Miami basement and buttress faults.
- Internal Inspiration – Miami imbricate faults.
- Normal (post-imbrication) faults.
- Exposed or known Root and Segment mineral deposits.
- Postulate Root and Segment mineral deposits.
- Known drill holes.
- Proposed drill holes.
- Cross sections (attachment B)
- Hanna optioned area (Bohme-Coryell Property)

EXPLANATION

QUATERNARY
Alluvium
Talus
Landslide
Basalt

TERTIARY AND QUATERNARY
Gila conglomerate

TERTIARY
Later volcanic rocks
Dacite
Earlier volcanic rocks
Whitetail conglomerate

Tsg — Schultz granite — Tgp

Tdp — Diorite porphyry

Diabase

Tlqm — Lost Gulch quartz monzonite

Tgl — Granodiorite in Lost Gulch

Twsg — Willow Spring granodiorite and younger border intrusion, dotted pattern

CRETACEOUS OR TERTIARY
Schultz granite

CAMBRIAN DEVONIAN MISSISSIPPIAN PENNSYLVANIAN AND PERMIAN
CARBONIFEROUS
Naco limestone
Martin limestone
Troy quartzite
Basalt
Mescal limestone
Dripping Spring quartzite and Barnes conglomerate locally at base
Pioneer formation and Scanlan conglomerate

PRECAMBRIAN
Ruin granite
pEmg — granite on Mammoth Hill
Madera diorite
Pinal schist

Contact, showing dip
Dashed where approximately located, dotted where concealed

Fault, showing dip
Dashed where approximately located, dotted where concealed
U, upthrown side; D, downthrown side

Vertical fault
Dashed where approximately located

Thrust fault
Dashed where approximately located, dotted where concealed
T, upper plate

Shear zone

Strike and dip of beds

Strike of vertical beds

Horizontal beds

Strike and dip of overturned beds

Strike and dip of foliation

Strike of vertical foliation

Strike and dip of cleavage

Shaft

Portal of tunnel or adit

Prospect

Mine dump

Outline of areas shown on plate

mp 2552 DPM

The general area from Sleeping Beauty Peak (UABM 5:147) to a small anomalous area some 3-4,000 ft directly southeast of Pickhandle Gulch NW of Sleeping Beauty Peak (UABM 5:147) has no Opache between Db & Dm

Likewise further east no Mescal is known in Cycle Peak (UABM 5:147) This is also true of area to the N & O.D.

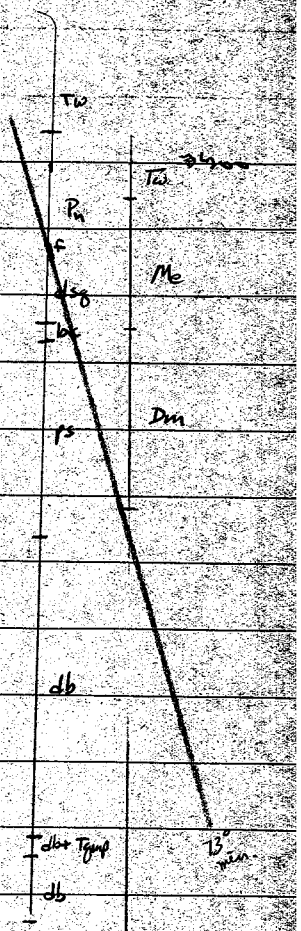
Troy Qtz, a very resistant unit is missing from about Wasatch of Granite Basin eastward to Crash-of Mtns. Gnoles.

The present distribution of Pobog & Tw suggest that a SW trend of small Tw basins were developed just north of the present SB fault. Similar conditions exist in the NW part of Flood of Jewell Hills. Further west, apparent extensive Pobog, Tw & Td are present. Under Bdhas, 5 holes have shown substantial deposit of Tw + 3 show these to rest of Pobog.

At OD, Pobog are present but No Tw.

Tw & Td are exposed on Db or nc on the north end of Mary Jane and in Jewell Hills near the town of Lumpkin.

S of the SB fault zone & it is probable that Pobog were beginning to be tilted fairly early in the game


Tw
Tw
Pn
f
Me
dsg
bx
Dm
ps
db
dbx Typ
db

Deformation times.

1. Pre or syn Tw
2. Syn Td
3. Post Td
4. Total district.

+ Uplift
- Downdropped

A. Globe Block. Thin to No Tw, Td over Pn → dsg.
most of Pdlo eroded, preserved to SW, & eval mod to dk-dsg zone.

+ 1. Uplifted block in Tw time with strong NE faulting pre Td.

2. ? Isopach suggest fairly thick Td over entire area.

+ 3. Uplift & erosion of Td, preserved to SW. Glob Blk in Td

+ 4. Uplift 2 long NW fault zones.

B. Opal Block. Thin to no Tw, Td over dk-dsg-sc.
All? of Pdlo removed & mod to dsg into dk-dsg-sc zone.

+ 1. Uplifted block in Tw time, some faulting to get Td over dsg & sc

2. As A-2 above.

+ 3. Uplift & variable erosion of Td - ptd preserved in N & E.

- 4. Downdrop by Main Rift (W) & Pinal Creek fault (E). △ Shaped. 6 miles. 2 1/2 miles.

C. Opal Block. No info Thin Tw? or none Td overdk
Overall suggestion is that the Opal covered block is a NW extension of the Globe Block. and the various faults merge

+ 1.

2.

+ 3.

+, + 4. Downdrop in comparison to A & D, but strongly uplifted in respect to E.

D. E of Basin basin. No info Thin Tw (or Mc) (absent W). Td from St N on Tw. Pn → dsg.
Pdlo preserved Pn → Pm on South & decreases to N on E end of Block. Rest mod eroded to dsg-dk zone.

+ 1. Uplifted block in Tw time with increased Tw in S and overall.

+ 2 3. NNW fault help preserve Td on E, but cont. stepping on W as to N. ie

+, + 4. Up to Con Ext, down in relation to blocks on S. Block faulting to W

E. Basin basin. No Tw noted, Td dove mo → dk., S to N.

\+ 1. Uplifted block stripping lobes on north & exposing Basin core. Some lobes on both.

2

\+ 3. Stripping pitches of Td on S & all on N.

\- 4. Weak block faulting to W. Same as D level, with down in regard to S

F. Flat Top Mod Tw on south, non central, & some to north. Td over Tw, Du

\+ 1. Uplifted block stripping lobes from central part, some preservation of N & esp. S with fault grooved lobes on east. Best Tw preservation on south

2

\+ 3. Stripping of Td in general.

\- 4. Wk block fault to W, same as D & L level, with down in regard to E

Distributions of features:

1. Isopach studies suggest Dm +350', Mc +300', Pn +400' over entire general area.
2. Present studies (see below) suggests Tw in restricted basins, mainly in Bolsa area and Hoval Ranch area.
3. Studies by DWP suggest Td extended over entire GM quadrangle

A. Globe Block:

a. Pn → Dm at Old Dominion w/ Mc → Dm both N & S. all restricted to dip slope (southwesterly) and to Pinal Creek fault and in near proximity to Td cover.

b. Remainder of block eroded to db level w/ some ps & dg; extreme NE corner area has some Dm & minor Td cover suggesting another NNW structure in the block.

c. Tw apparently missing along edge of Td in contact with Paleozoics — suggesting no deposition in Globe block, or complete removal during Pre Td erosion.

d. Td cover contact from Pn → dsg attesting to strong structural adjustment in ± Tw time. Main elements appear to be NE trending Irene, New Dominion, Old Dominion, & Albert Lea faults.

B. South Gal Block

a. Paleozoics stripped on extension of OD vein section, mainly dpcb & db left. Amico drilling suggests schist only left east of Miami; Oxy, Miami & ICC drilling suggests schist only left along front northward past Globe. Oxy & ICC drilling east of Cr. Ck. [illegible]

and db. Suggesting — 1) continued erosional slope from Apache on east side to schist on west side or 2) a NNE down Russell Creek (& NNE Reid), (ie Major axial valley drainage) with sc only on west & Apache + db on east.

b. Only thin Tw known on Apache next to OD area, thins to east. Quirico & others (?) drilling suggest little or no Tw on west side of area. On north end of area at narrows. No Tw in isolated block of Td on db.

c. Main drilling suggests no Td (?), NPP shows no Td on cross-sections; ICC drilling to North & Smelter has 600 feet of Td, but apparently is very variable. Td shown, 100-200 exposed (& resting on db) at north end at narrows. Td + 1000' under OD area

d. Area apparently strongly eroded of Paleozoic cover & fairly deep into Apache-db (similar to main part of Globe block) on north & east side of area with little or no Tw preserved under thick +600 - 1000' of Td. On southwesterly, Dripping Spring side, apparently no Apache-db but sc only with no Tw & no Td

c. North pal Block

a. No info.

b. Outcrops on west show No Tw, but Td resting on Apache-db & minor Dm.

c. Suggestion of Reid Creek fault intersecting with axial fault and forming tight zone with Main fault adjacent to west side of area. East side probably continuation of db-Apache zone of Globe block.

D. North of Sleeping Beauty Pt & E of Ruin basin.

a. Paleozoics Pn → Dm in southern area adjacent to SB fault & extending northward on east side. Anticlinal structure with preservation of some (Dm) on east - north side. Thought to be with ps-dsg on central (axial) & west sides.

b. Thin tn no Tw exposed, remnants on south & Me only on top

c. Td on easterly side resting on Tw, Pn → dsg from south to north suggesting erosional (Tw time) truncation of Paleozoics from south to north (may be little axial plunge of anticline) prior to Td outfall. Td preserved on eastern side where downdropped by northerly trending fault zone, east of axial axis & west of Midnight extension.

d. Suggestive of fault on west side adjacent to east side of Ruin basin, projecting thru Db & Me-Db contact or at Me-Db contact and into fault zone separating Td on east from ps on west.

E. Ruin Basin area & SSE to SB fault

a. Continuation of homoclinal westward dip of Paleozoic units (Me & Dm) in uplifted block from eastern anticline previously (D-a) described. Paleozoics & most of Gache stripped northward to expose Ruin core.

b. No Tw noted under Td as which rests on Me→Db going south to north.

F. Flat Top Mtn area, NNE from SB fault.

a. Complexly faulted block with partially suggestive of anticlinal structure such as in D above, but mostly westerly & southerly dipping blocks. Paleozoics Pn → Dm ... of

scraps Mq → Dm on east side next to fault separating Reim gr. Remainder of block in complex of dyke with floor of db in bare peak of Reim granite intrusive exposed in central axial zone (and questionable on westerly side).

b. Tw of some substantial thickness, +200' on south resting on Pn → db, none in central part with Dm exposed, then thin +100 to moderate (?) on north end resting on dsg → db

c. Scattered Td along crests with largest exposures on north & south ends. North exposures on Tw, & db; Southern exposures on Dm, dsg, db. Central area has remnants Tw (only on south end) and rest on Dm → mescal, dsg & db.

d. Faults on west side & east side adjacent to Reim gr contacts. Paleozoics truncated to north with dominated west dip in formations but overall trend of questionable anticline or a dome zone near Sycamore Canyon to bring up Reim granite. Again probable parallel zone on east side to preserve Paleozoics in band. Remnants of Tw on south side suggesting preserved basin next to SB fault. Increase in Tw also on north suggest dome development in Tw time and truncation to sub-level horizon for Td surface to fall on.

G. Granite Basin area and area of gr to NW. Bottom portion of area extending in area from Mahoney basin on SE, then Grapevine spr, Walnut spr & Reim spring toward Hansel Ranch (stopping at fault on E Reim-Pal contact).

a. No Paleozoic included in block. Slightly arched

Rein granite contact w/ Db with complex faulted Apache group (mescal → ps → Db) in central area. Some Apache basalt on mescal on south central part.

b. NNW faults separating Apache blocks.

c. In central zone around Barnes Peak are a number of diorite porphyry dikes (Tertiary) also NNW, cutting below ps & hiding fault zones.

H. Paleozoics of Myers basin & north of SB projected.

a. Apparent fault blocked patches of Me → Dm on Dg & Db [Gila Butte]

b. Probably located between 2 faults (NW) with abundant talus cover.

c. May include small patch of Dm east of Webster Mtn.

d. No Tw mapped on east side.

e. Td rests on Dm & Dg and covers over traces of both faults.

I. Apache Group of Horse Basin

a. Southwesterly homoclinal dip in complex NW faulting of blocks of Apache basalt → mescal → Dg in Db.

b. Similar basalt in block G above, on trend.

c. Very thin Tw on Db surrounding basin on E, S, & W.

d. Td fairly thick in subhorizontal attitude on thin Tw or Db.

e. Pattern overall suggestive of belonging to G above.

J. Paleozoics north of Eastwater Spring (N of CD).

a. Me → Dm → Ct in general homoclinal SW dip. In all places in fault contact on west with Apache basalt mass, the

b. Apparent thick (+300?) section of Tw on Me.

c. Abundant bedslide & talus material in blocks.

d. Td on Tw or Me, often talus covered also.

K. Apache-Db zone west of Paleozoics (N. of CD).

a. Db fault contact w/ Pbsopsis to east as well as small Dm block on west. West homoclinal dip Apache mesas & dsg on Db.

b. Apparent uplifted block on Castle Dome horst

L. Dbal-Qal Alluvial Fan area.

a. Several Dm block on outer edge in fault contact with north trending West Branch of Gold Gulch fault zone.

b. Thick +500 sections of Tw with central zone of NW fault repetitions of the fault blocks

c. Thick sections of Td, with probable slope dip to north east & onlap of Qal

d. Fault contact from Db on south to Pbsopsis on north end.

e. Overall suggestion of deep Tw basin (+400') resting on Paleozoics with relatively thick Td (+600') (& Tw) cover.

M. Paleozoics west of CD, north of Cactus

a) Paleoz Pn → Dm in northwest controlled from & cut by NW faults

b. relatively thin +100 preserved remnants of Tw resting on Pn

c. Patchy Tal cover over Tw, Pn

d. Cross section across north end of Tw, Pn, Db — a. Al-

sids & Colos filled with Quat. Gila ofl & basalt. Only area mapped with Quat basalt.

N. Cactus-Carbota.

a. Slide block of unknown extent & source.

b. Mapping suggests several blocks involving x & dh

c. Blocks overide Tw which apparently rest on Tc under Cactus area.

d. Total suggestion of source area from area stripped of Colos cover and having thin Tw & modest Td & resting on stripped area down to sc-dh w/ thin patchy Tw.

O. Eden South area.

a. Area stripped of Colos, down to sc-dh.

b. Thin or no Tw

c. Full Td section to west.

d. Few gravity type faults as at N above, i.e. sc-dh resting on Tw or sc-dh.

e. Suggestion as under N-d above.

P. Manitou Hill area.

a. Area stripped to pc sc & retiring level,

b. No Tw known

c. Faulty deg (?) level of Schultz exposed intruded in area.

d. Patchy Quat-basalt & ofl cover.

Q. Castle Dome block.
a. Area apparently eroded to sc level
b. No Tw or Td known
c. Intruded by batholith.
d. Part of K area above

R. Castle Dome South
a. Part of CD block zone
b. No Tw, Td — all eroded to sc level
c. Intruded by several batholith masses.

S. Needle Mtn area.
a. No Paleoz left.
b. Eroded to sc level
c. Thin patchy Tw (?) & thin patchy (?) Td
d. Covered by part of
e. Intruded by Schultz on south as in blocks O, P, Q, & R.

T. Greater Miami Mine area
a. No Paleoz remains
b. Eroded to sc level
c. Thin patchy Tw & Td, mostly preserved in fault cusps.
d. Some Qual of cover to west.
e. Intruded by Schultz & granites on south as above.
f. Miami fault on east.

U. Conyer Cite Area south to Greate Miami area.

a. No Paleoz.

b. Area eroded to sc – db level w/ rare ps blocks

c. Limited by Laramide on north.

d. Small block on NE part of name shows minor ps on db. ~~db~~

e. No Tw under Td cover.

f. Td rests on ps & db.

g. Miami fault on east

h. Sleeping Beauty fault zone on north. Not: Probable complex zone, if db is ps & not Laramide, the fault strand should also separate db from all Paleozoic units with exception of Dm on north central side

V. Dry Peaks area. Area extends to SW and similar terrain to SE at Moonshine Hills area.

a. No Paleo.

b. Eroded to dominant sc level with mod amt of db & few ps remnants.

c. On SE – thin patchy Td with? Tw patchy under

d. On SW – thin patchy Tw w/ thin patchy Td finally containing with main Td sheet to west.

W. Jewell Hill area.

a fault block bounded with full Paleoz Pn → Dm on Goche & db. May have E-W synclinal fold of Paleo w/ Tw cover

b. Thick +400? Tw section similar to ↓ above

c. No Td on block

X. Bolsa Ranch Area

I. AH-3, AH-4, COX-1 ICC zone

a. Thick +700' of alluvial fill

b. Thick +1000' Td, except possibly in ICC section where comments suggest variable Td cover.

c. Thin to no Tw.

d. Schist & diabase, strongly brecciated Policy No recognized

II COX-2 zone

a. Thick +1000' Td

b. Thick Tw +800'

c. Policy No → Dm

d. Apache group

III AH-1, AH-2 zone

a. Thick Td +1000'

b. Northern end w/ Tew +500 Td +700 Tew

c. Extra Thick Tw + 2500'.

d. Policy No → Dm) sub horizontal ± 15°

e. Apache group

IV. BC-4, M-462, M-475 zone

a. mod thick +500 Td

b. no or thin Tw

c. No Policy

d. Thin ? Pioneer

e. Schist & dk w/ dia pos. intrusives biotem o pos gm.

V E-2, E-3 zone

a. mod to thick Td +500 to +900, b. Thick(?) Tev +200.

c. Thick to extra? Thick Tw + 900 - 1100 & bottomed in Tw

d. Unknown premised.

Brian Cintigue

Q. What is the mode of formation of the restricted(?) block of subhorizontal lenticular unit, with its compound whitetail ash unit, as found in AH-1, 2, & 5. ??

Based on premined outcrop info it is suggestive that a structural high area completely surrounds the Cohore shat, ranging from 4300 to 5300 feet elevation, possible southeasterly tilt to present ground surface (NOTE: not to geol

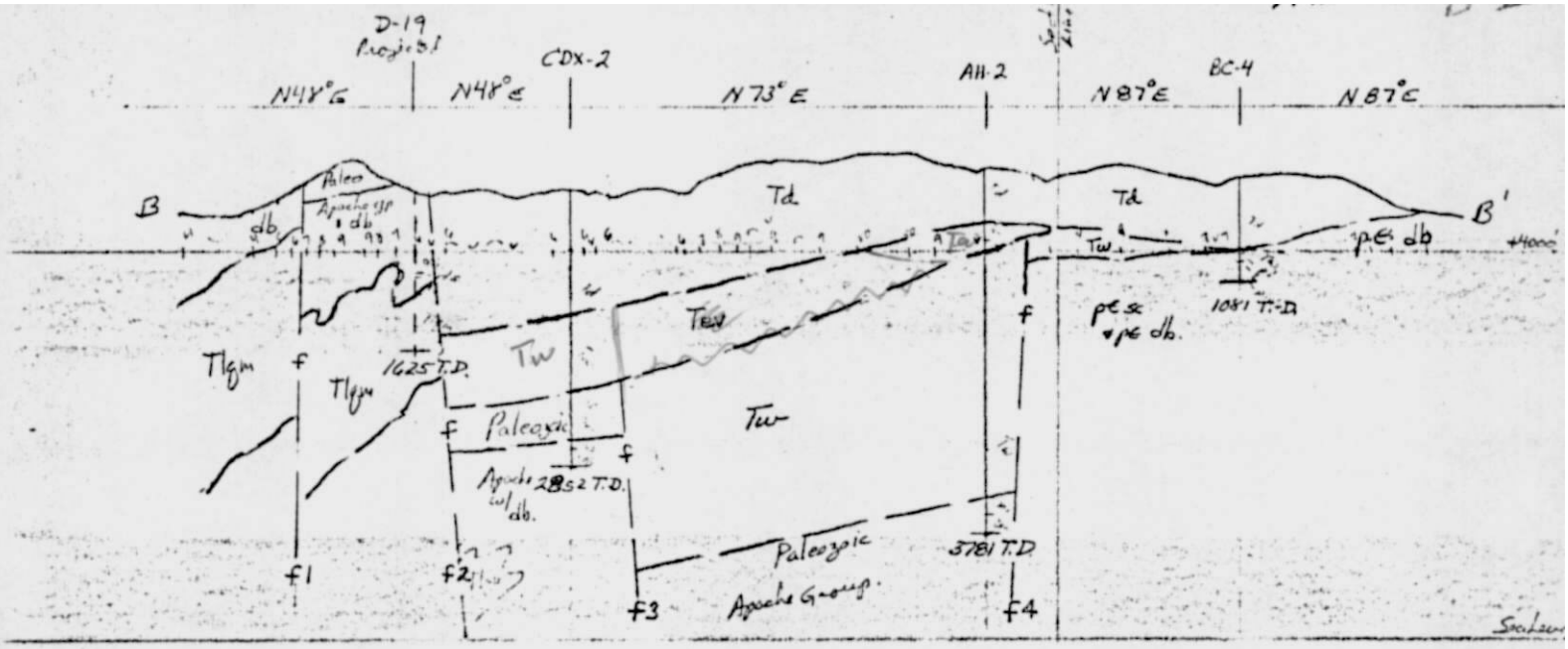
Based on known mapped faults, faults suggested by drilling, & projection of structure, three pattern are suggestive:

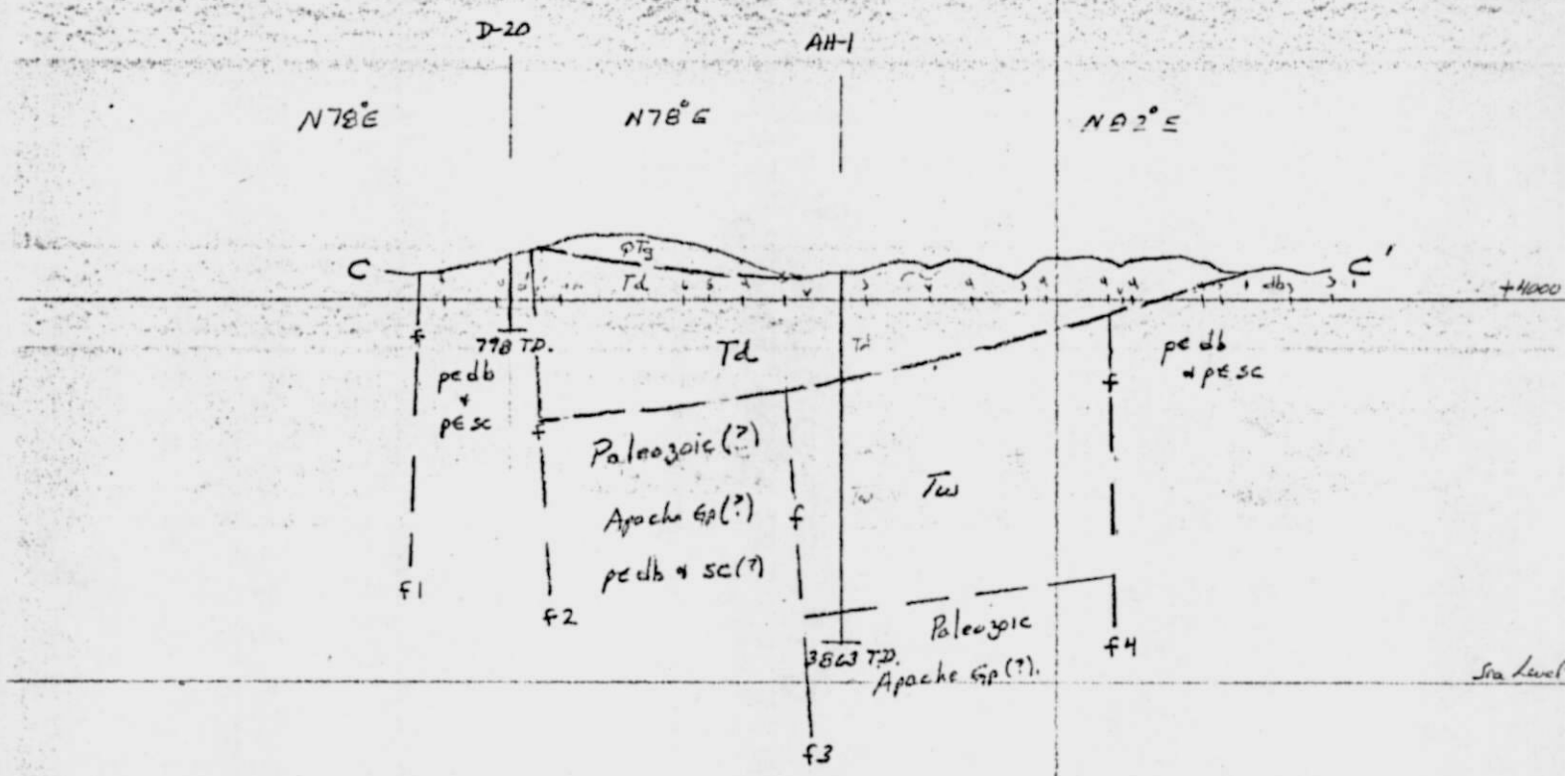
1. (Map 1). a. High plateau border as above stated, at elevation of 4300 to 5300 feet. (brown) b. central deep down dropped block (pink) at elevation of 700-1400 feet, as shown by holes AH-1, 2, & 5. c border intermediate blocks (gra one on crest at 2200-2500 feet as shown by holes AH-3, 4, CDX-1, & 2, & Montezuma mine drilling, & an northeastern block at 2500-2700 elevation as suggested by holes E-2 & 3 outlined by basic border faults & then suggested by drilling.

2 (Map 2). a High plateau border (brown) as above. b Centr deep down dropped block (pink) as before with northern cut off by projected fault (NE) up Jarupa Flat canyon. c borde of intermediate blocks (gra) surrounding on northerly side Pierson mines ring zone of 3000+ feet in width.

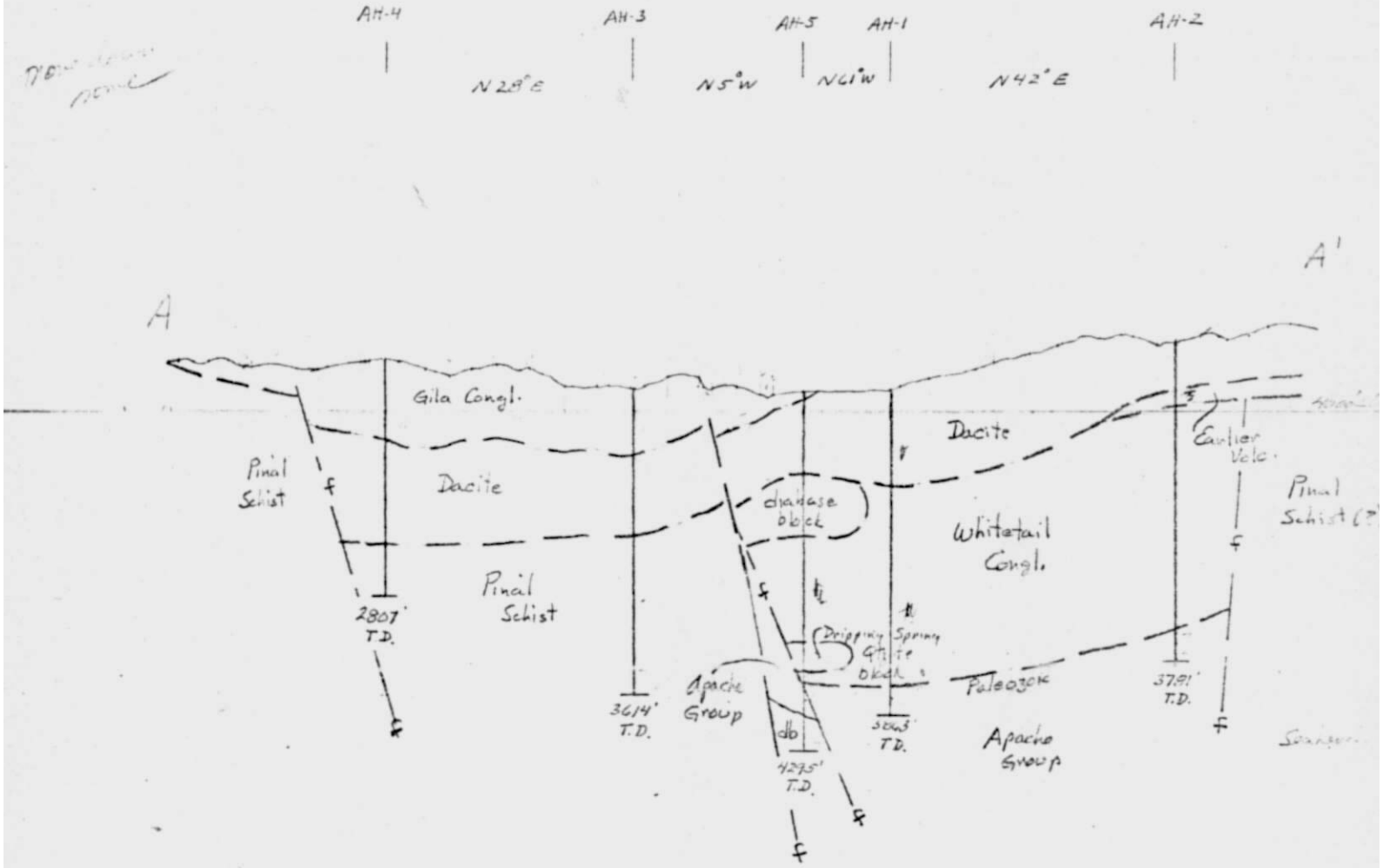
3. (Map 3). a High plateau border (brown) as above. b

b. Central deep down dragged block (pink) restricted even more by cut off on north side by projection of Clapin Beauty fault zone. c. expansion of intermediate border zone (green) to fill entire northern area, with zone extending along southwesterly side as before.





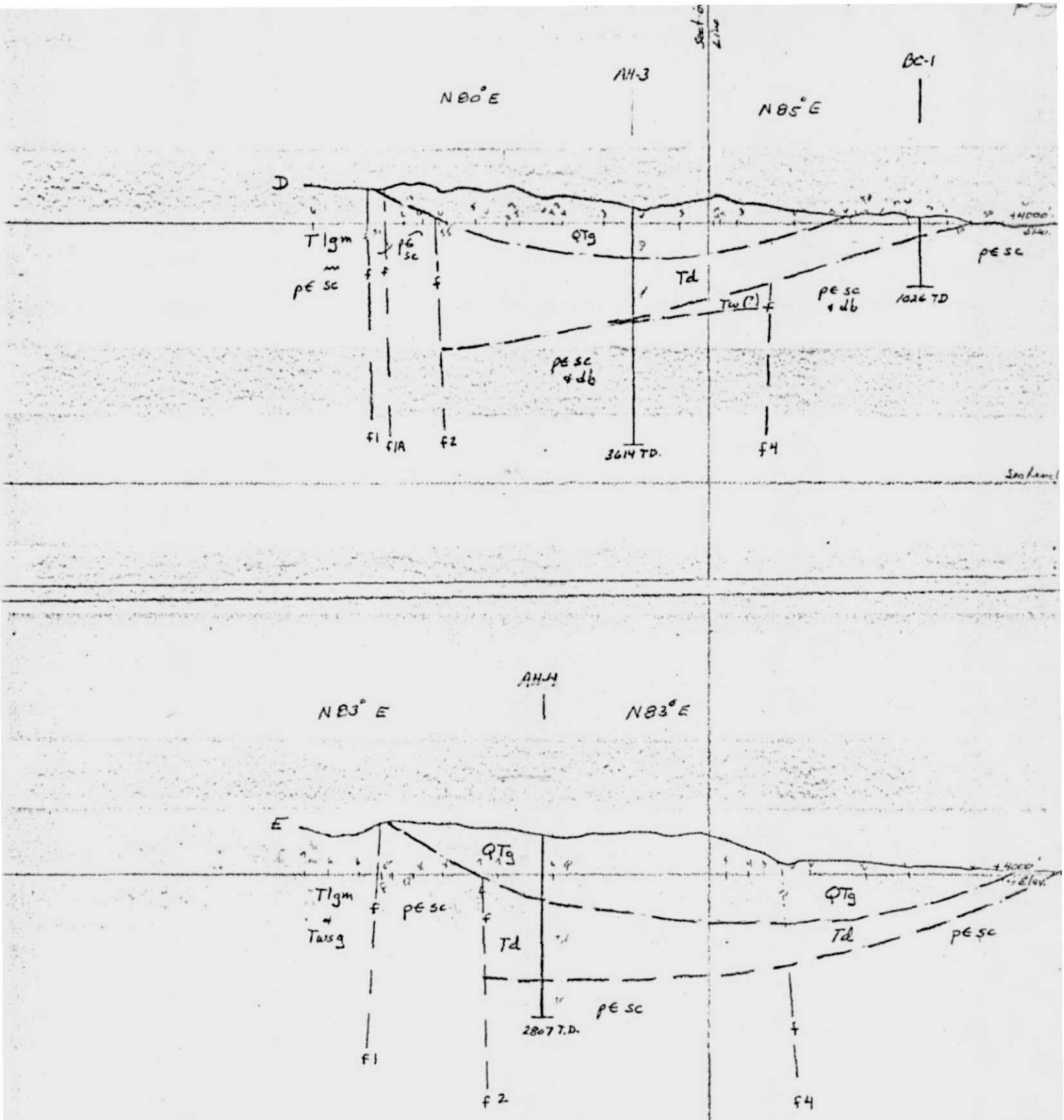
Cross-Sections B-B' & C-C' through Bolivar Peak Looking Northerly
Scale 1:24,000



Cross-section A-A' through the Kin
[illegible] drill hole.
[illegible] 1977-1981.

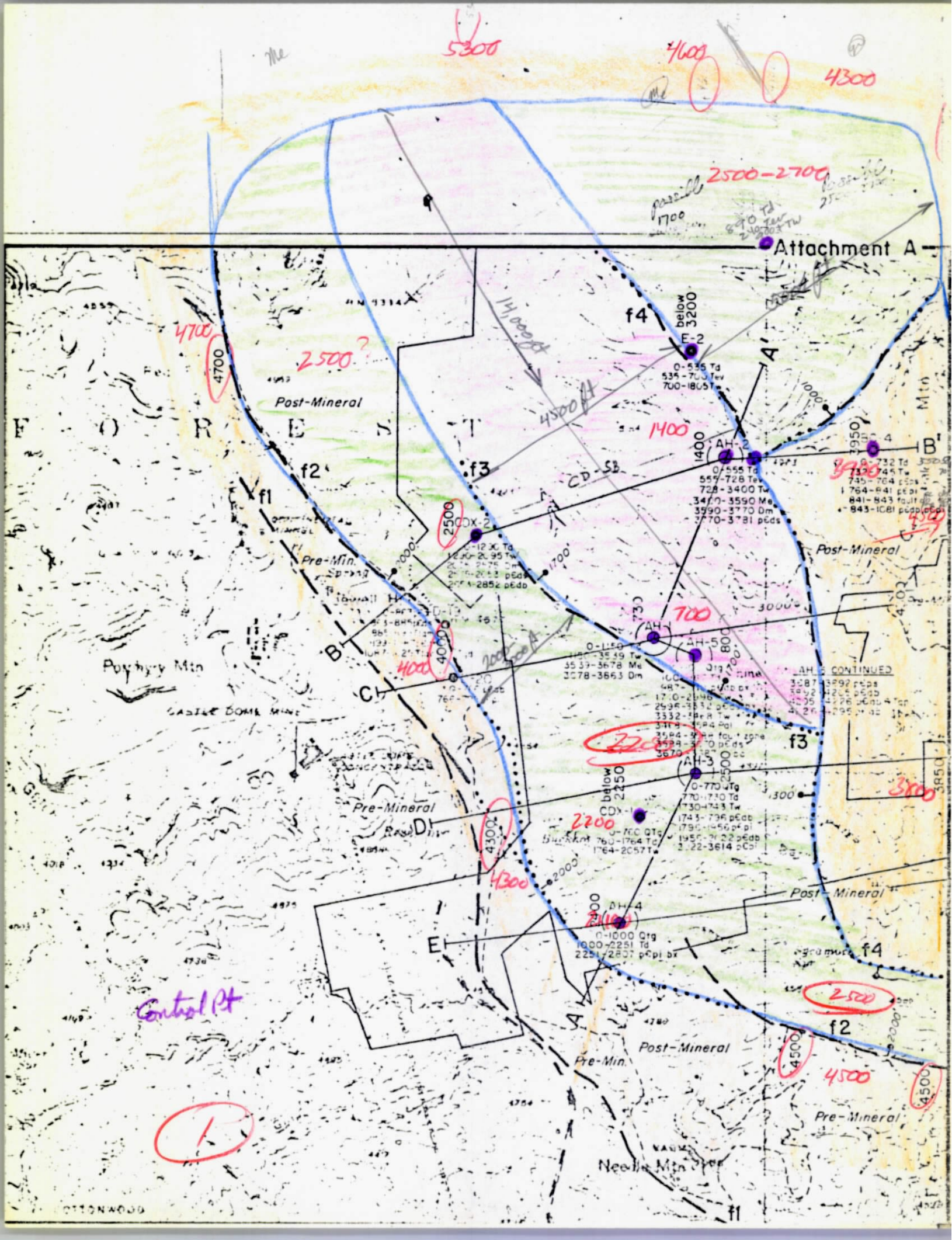
Looking Westerly.

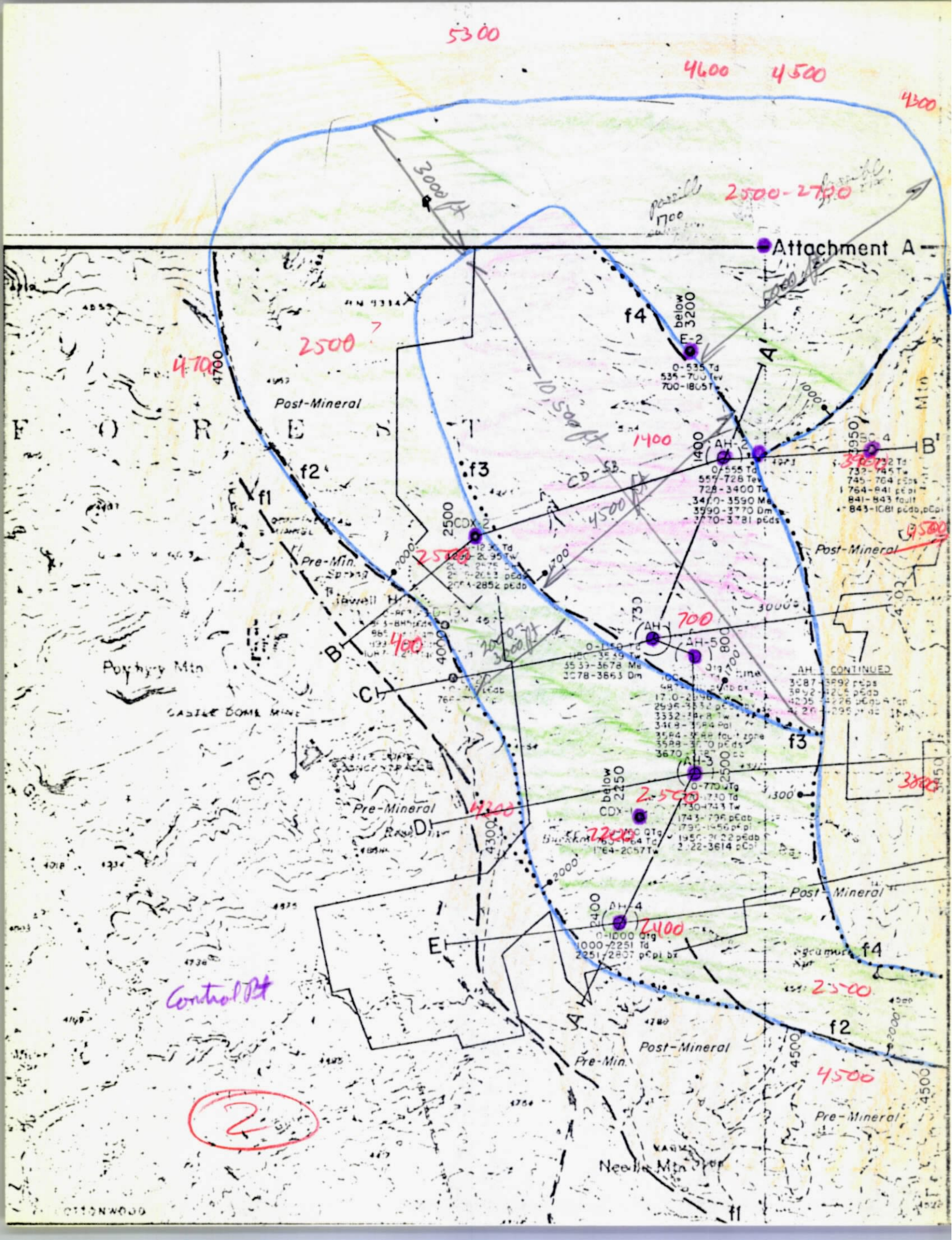
Scale 1:24,000

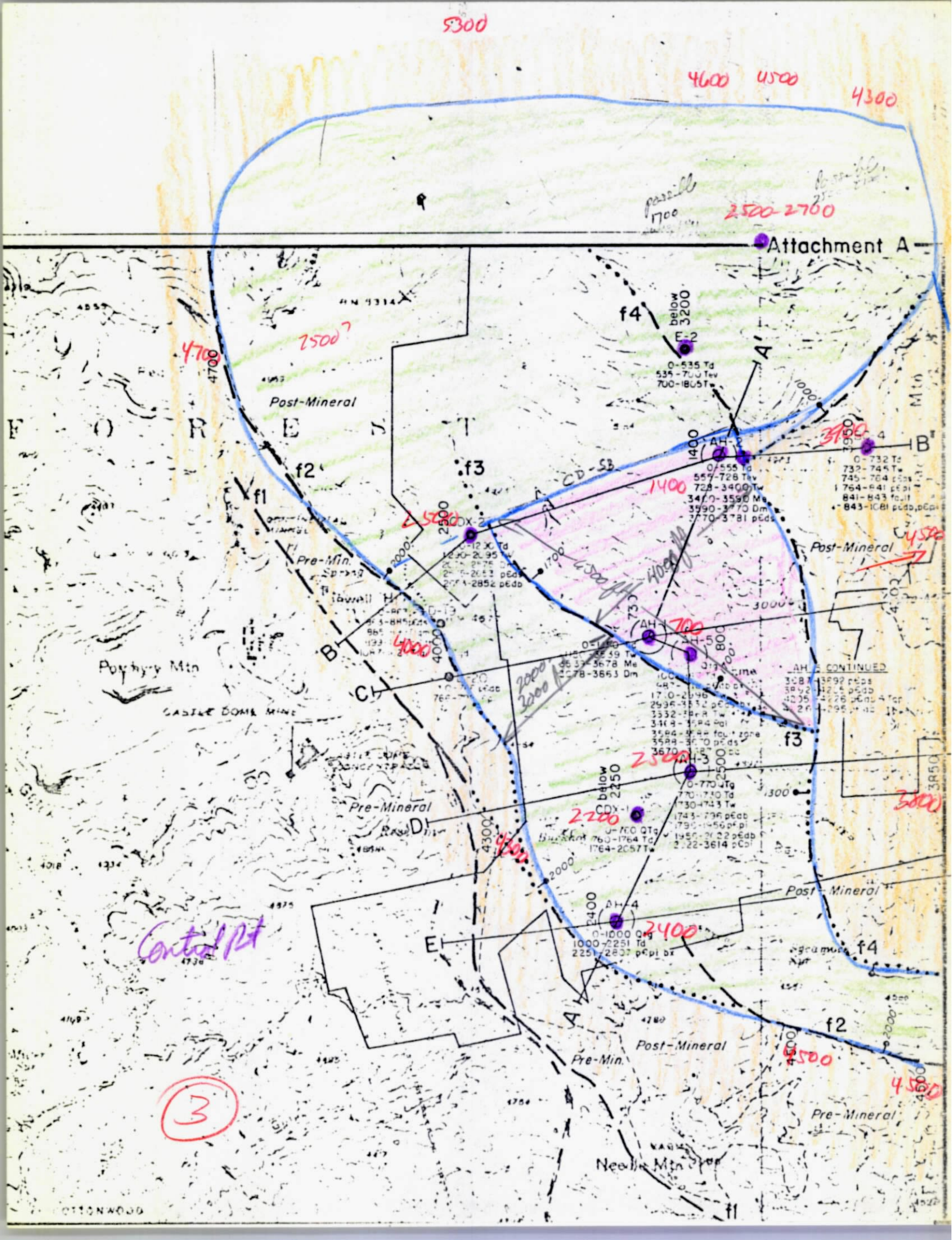


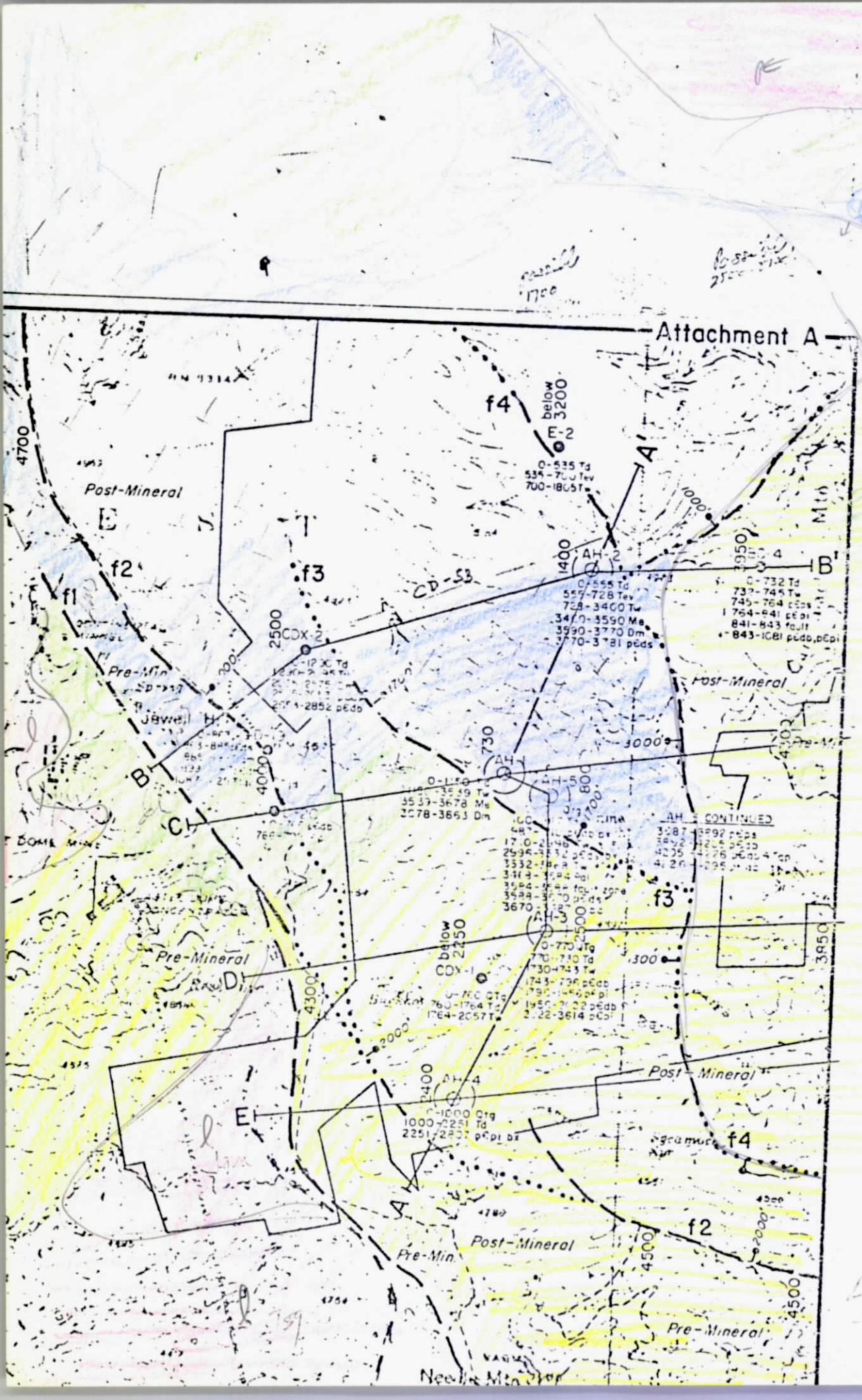
Cross Sections D-D' & E-E' through Bedrock Locating Northing

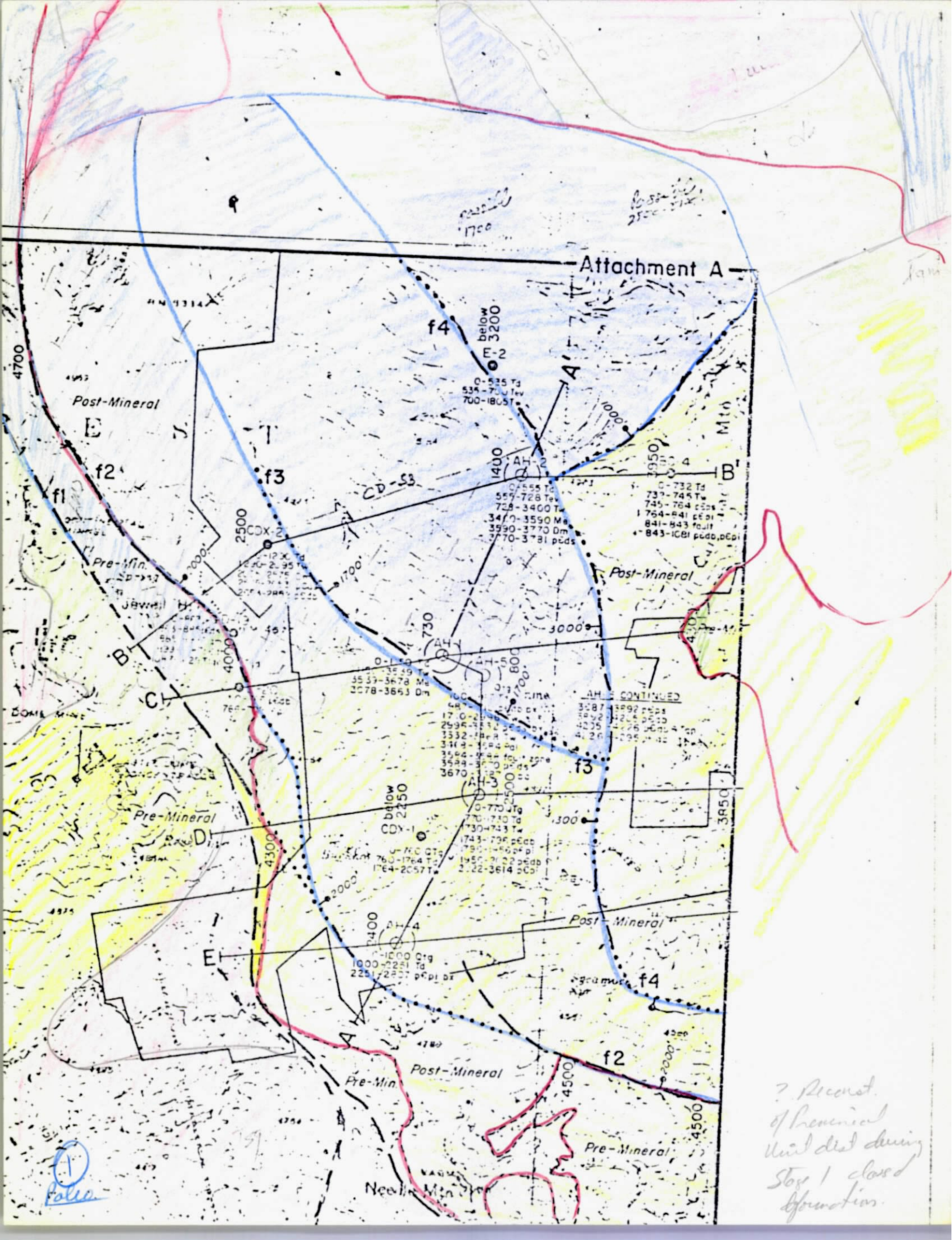
Scale 1:24,000


Attachment A
5300
4700
4300
2500-2700
1700
4700
2500?
Post-Mineral
FOREST
f1
f2
f3
f4
14,000ft
4500ft
1400
CD-5B
CDX-2
2500
Pre-Min.
Porphyry Min
CABLE DOME MINE
Pre-Mineral
Post-Mineral
AH-1
AH-2
AH-3
AH-4
AH-5
700
2200
2500
3800
4300
4500
Control Pt
Needle Mtn
A
A'
B
B'
C
C'
D
D'
E
E'
below 3200
below 2250
E-2
CDX-1
0-535 Td
535-700 Tev
700-1805T
0-555 Td
555-728 Tev
728-3400 Tw
3400-3590 Mv
3590-3770 Dm
3770-3781 pEds
0-770 Qtg
770-730 Td
730-1743 Tw
1743-1796 pEdb
1796-1950 pEpl
1950-2022 pEdb
2022-3614 pCpl
0-1000 Qtg
1000-2251 Td
2251-2807 pCpl bx
AH-2 CONTINUED
3687-3892 pEps
3892-4225 pEdb
4225-4276 pEdb
4276-4295 pEdb
Mtn


Attachment A
5300
4600
4500
4300
3000 ft
parallel
1700
2500-2700
4700
2500
Post-Mineral
F O R E S T
f1
f2
f3
f4
E-2
below 3200
0-535 Td
535-700 Tev
700-1865 T
AH-2
0-555 Td
555-728 Tev
728-3400 Tv
3410-3590 Mv
3590-3770 Dm
3770-3781 pEds
AH-4
0-1000 Qtg
1000-2251 Td
2251-2807 pCpl bz
CDX-1
CDX-2
CDX-3
AH-1
AH-3
AH-5
AH-6
10,500 ft
CD-53
1400
4500 ft
2500
2000
2700
Pre-Min.
Pre-Mineral
Post-Mineral
Porphyry Mtn
CASTLE DOME MINE
Control Pt
Needle Mtn
A
A'
B
B'
C
C'
D
D'
E
E'
2
4500
4300
4000
3000
2400
2250
1400
1300
700
400


Attachment A
Post-Mineral
Pre-Min.
Pre-Mineral
Porphyry Min
CABLE BOMB MINE
Needle Mtn
f1
f2
f3
f4
A
A'
B
B'
C
C'
D
D'
E
E'
AH-1
AH-2
AH-3
AH-4
AH-5
CDX-1
CDX-2
E-2
4700
4500
4300
4600
2500-2700
3200
2400
2250
1400
2000
3000
3600
Control Pt
3

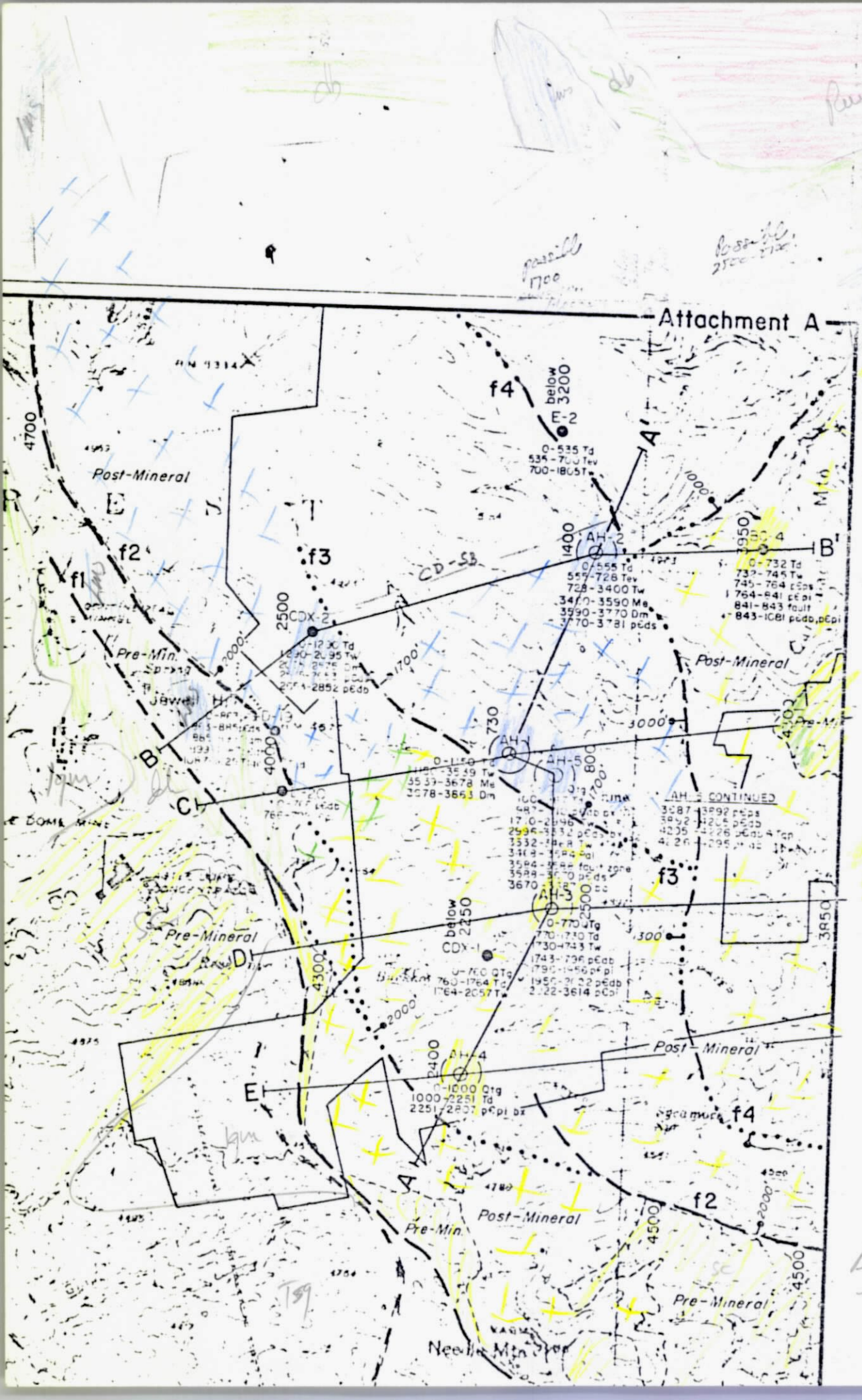

Attachment A
Post-Mineral
Pre-Min
Pre-Mineral
Post-Mineral
Pre-Mineral
Post-Mineral
Pre-Mineral
Post-Mineral
Pre-Mineral
Needle Mtn
f1
f2
f3
f4
A
A'
B
B'
C
C'
D
D'
E
E'
AH-1
AH-2
AH-3
AH-4
AH-5
CD-53
COX-1
COX-2
E-2
below 3200
below 2250
4700
4300
4000
3950
2500
2000
1400
1000
730
800
700
300
AH-1 CONTINUED
AH-2 CONTINUED



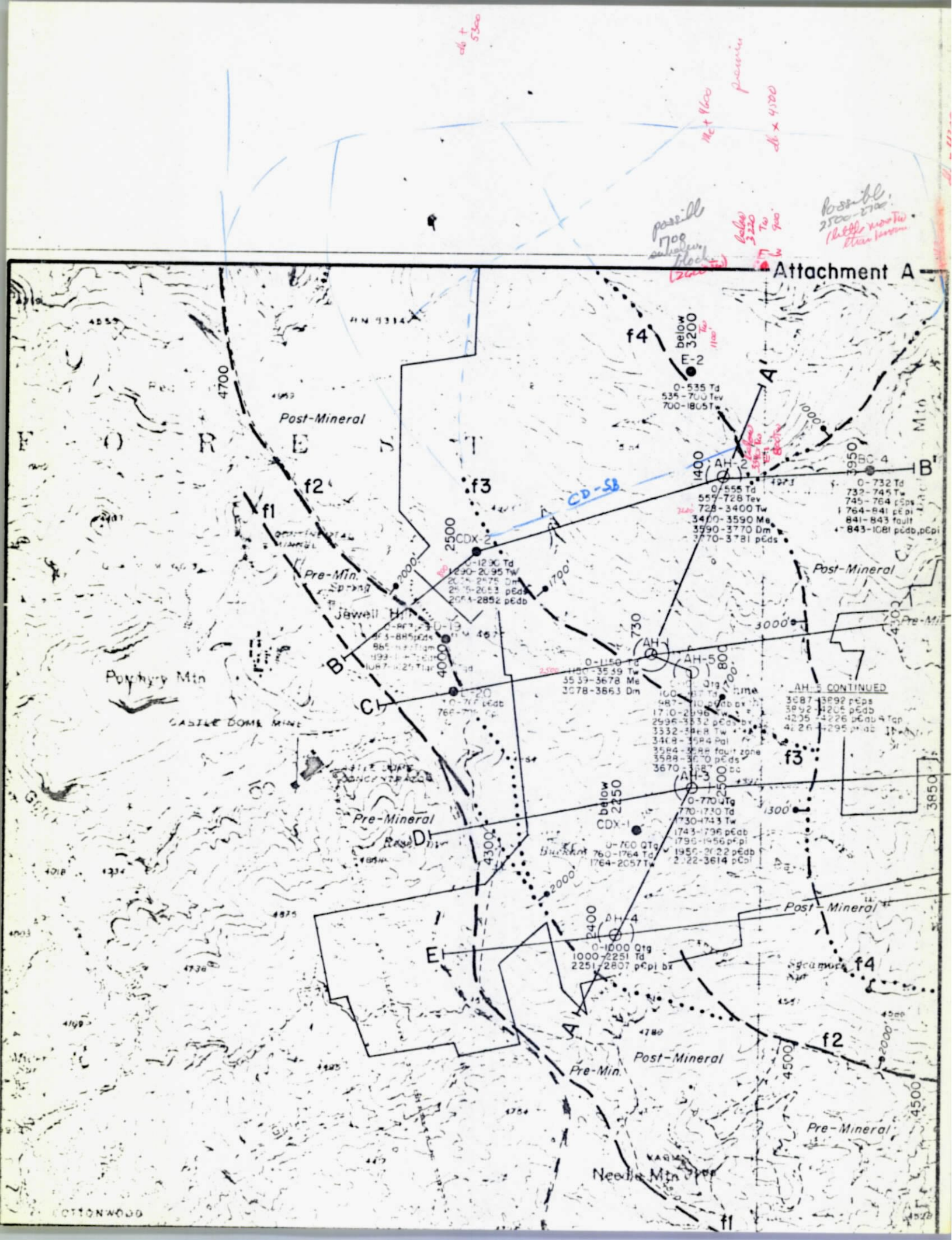
(1)

Folio

? Recent of chemical limit det during Stage 1 closed formation


Attachment A
f1
f2
f3
f4
A
A'
B
B'
C
C'
D
D'
E
E'
AH-1
AH-2
AH-3
AH-4
AH-5
COX-1
COX-2
CD-SB
Post-Mineral
Pre-Mineral
Pre-Min.
Needle Mtn. Stock
below 3200
below 2250
4700
4300
4500
2500
2000
1700
1400
1950
730
800
3850
3000
4000
2400
2250
AH-5 CONTINUED

Attachment A



3441 East Milber

Phone 889-5787

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE July 22, 1974

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PPM COPPER	PPM LEAD	PPM ZINC	PPM MOLYBDENUM	PERCENT IRON	Percent Zinc
B-5			228	107	2000+	57		1.10

W. G. K.

JUL 23 1974

Invoice # 11153

CHARGES $ 7.75

REGISTERED ASSAYER CERTIFICATE NO. 6852 PETE S. FLORES Date Signed 7/22/74 Arizona U. S. A.

ASSAYER - CHEMIST

ICC key

Master #3 ID # 3322

hold HC-13 side just above the tunnel area.

HOLE NO. & MONTH →	Acct. No
A	521 - 100
	- 200
	- 400
	- 600
	- 750
	- 800
B	580 - 100
	- 400
see F	- 750
	- 800
C-1	530 - 100
	- 200
	- 400
	- 600
	- 800
	550 - 750
	610 - 100
	- 200
	- 600
C-2	540 - 100
	- 150
	- 200
	- 400
	- 600
	- 750
	- 800
C-3	610 - 390
	- 400
	- 500
	- 780
	- 800
D	620 - 100
	- 150
	- 200
	- 400
	- 800
	- 950
	641 - 400
	- 800
E	502 - 950
	620 - 500
	- 600
	- 750
F	580 - 100
	- 400
see B	- 750
	- 800
G	507 - 100
	- 400
	- 600
	- 750
	570 - 100
	- 200
	- 400
	- 600
	- 800

Acct Found 1/1/77

HOLE No. & MONTH →	Acct. No.
	521 -10
	-15
	-20
A	-25
	-29
	-34
	-35
	-40
	-48
	580 -10
B	-25
	-29
see F	-35
	530 -10
	-20
	-29
C-1	-35
	-40
	550 -25
	610 -10
	-29
	-35
	540 -10
	-20
C-2	-25
	-29
	-35
	-40
	610 -20
C-3	-25
	-30
	-40
	620 -10
	-15
	-20
D	-35
	-40
	-48
	641 -49
	641 -80
	502 -48
E	620 -25
	-29
	-30
	580 -10
F	-25
see B	-29
	-35
	507 -10
	-20
	-25
G	-29
	-35
	-40
	570 -10
	-20
	-29
	-35
Rev 11/1/77 low OLD	

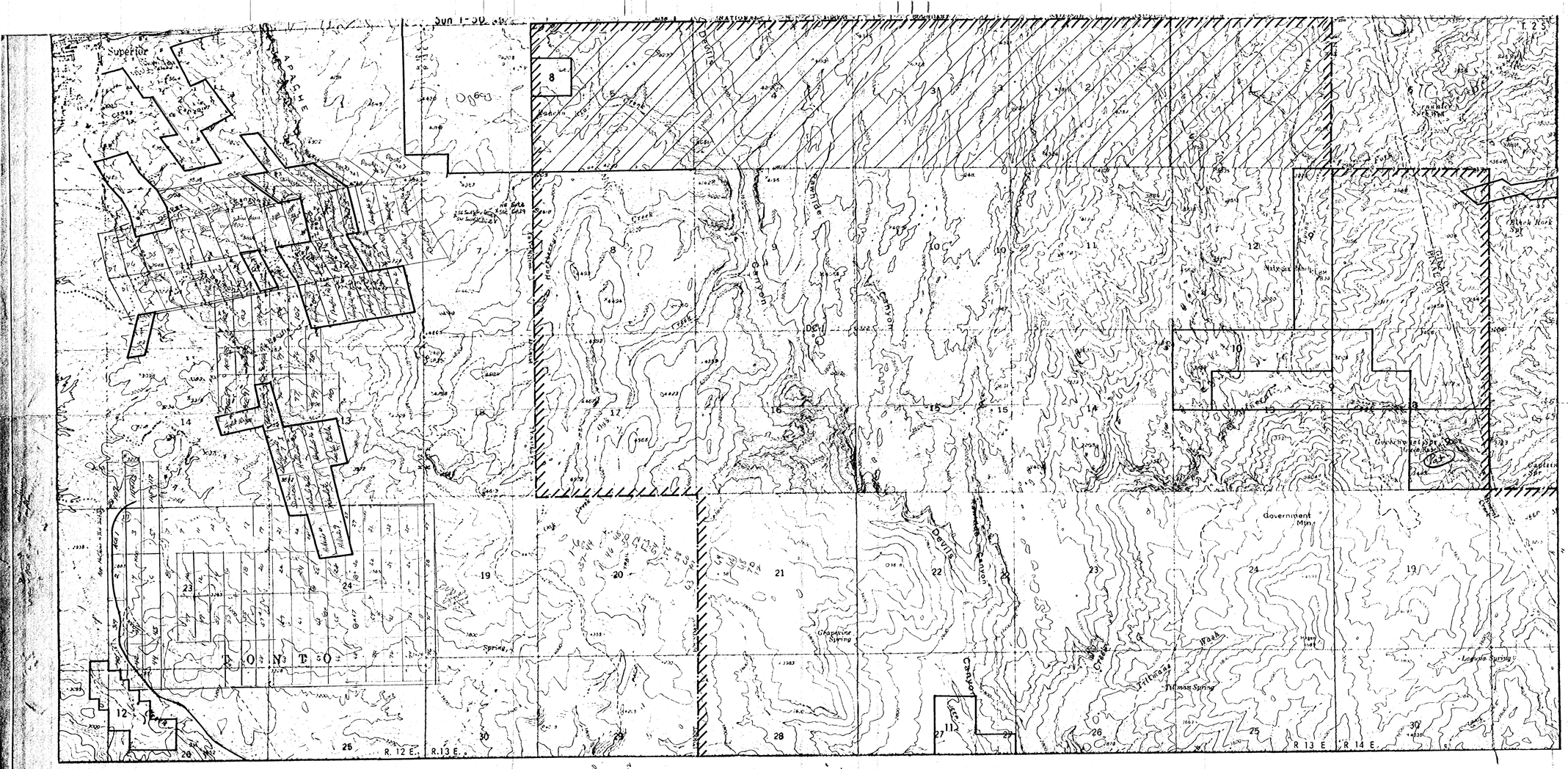
Throw away to rockpile: - SAVE Boxes

Skeletons To:

	A-11		
3071	A-13	Tew 2036	Box 1 thru 172 to USGS Box 173 Thru NC box 220 (2030½)
3841	A-14	Tew 2289	Rest in 1535 Box 1 NC Box 85 (2277½)
1337	A-8		
	A-9		
	A-10		
2616	AI-2	1750	Box 1-174 to USGS Box 175 Thru NC box 203 (1763)

A- Assay. sheet

Unit	Assay Number	Footage	Feet				



OUTLINE OF APACHE PLATEAU

DCA-3 ○ KNOWN DRILL HOLES

PRELIMINARY LAND STATUS

SUPERIOR EAST PROJECT

Globe, Superior, & Surrounding Area

GILA & PINAL COUNTY, ARIZONA

JDS May, 1970

0 500 1000 2000 4000 6000

1:24000

2273

ATTACHMENT A

HC-Series ICC-Spring Summer 1970
Rotary cuttings, then DDH additional
Logged & "spoke at B.R.

HC-5 heavy coal in Arg
HC-6
HC-7 Coal, wood carbonized, no sulfs. pepi
HC-8 " " " " "
HC-9 " , blk-white pepi, vein with Fe stain
no oxidized Cu; no sulfs.
HC-10 Coal.

EXPLANATION

Quaternary
- Qal, Qtg, Qtb — Cover

Tertiary
- Td — Dacite, 20 m.y.
- Ti — Intrusive, 20 m.y.
- Tev — Early Volcanics
- Tw — Whitetail Conglomerate, 32 m.y.

Laramide
- TKgr, Tqm, Tlgm, Tgd-Tdp — Intrusives (Tkgr), 58-60 m.y.; (Tqm), 60-63 m.y.; (Tlgm), 62 m.y.; (Tgd-Tdp), 70-72 m.y.(?)
- Tox — Mineralized Breccia Known only from underground workings

Paleozoic
- Pal, Ps, Me-Dm — Undifferentiated Sediments (Pal), Supai (Ps); Naco (Pm); Escabrosa (Me); Martin (Dm)
  - (a) Replacement ore in Devonian Horizon
  - (b) Stacked Replacement Ore in Devonian Thru Pennsylvanian

Precambrian
- pC + Au, db — Sediments & Associated Diabase
- sc, db — Pinal Schist & Associated Diabase

A-1 — Drill Hole (showing lowermost unit encountered)

ALL RED NUMBERS INDICATE SUPERIOR GRAVITY SURVEY

Surface trace of faults

0 500 1000' 2000' 4000' 6000'

DRILL DATA

Plan Map and Generalized Geology

SUPERIOR EAST PROJECT

GLOBE–SUPERIOR DISTRICT

Pinal & Gila Counties, Arizona

SCALE 1:24000

J.D.S. DRILL DATA May 1970

Modified 3-5-71

~~Revised 1/5/72~~ ~~Updated 8/27/74~~

~~Revised 3/21/72~~ Updated 1/1/76

2271

F O R E S T

N A T I O N A L

T O N T O

GILA and SALT RIVER BASELINE

15 Margaret claims(dotted) have been relinquished in accordance with ASARCO--INSPIRATION agreement

EXHIBIT A

U.S. FOREST SERVICE OAK FLAT WITHDRAWAL

J-I RANCH grazing lease boundary

NATIONAL FOREST BOUNDARY

ICC CRENSHAW PAT.

(Tze Watershed)

Pinal Ranch

CARLOTA GROUP

Government Hill

Government Mtn

Five Point Mountain

Fortuna Rk

Queen Creek

Devils Canyon

Pinto Creek

Gun Joanna Group

ANACONDA DRILL HOLES

DRAGGS-NEUMANN

NORANDEX MICHELLE GROUP

BANNER ACE 1-76

ACE 88-107

EXTENTION 1-32

SUN 1-5I

SUN 52-7I

J1 FEE

J1 SUR

Grapevine Spring

Tillmans Spring

Longvale Spring

Superior

Miami

Globe

R.12E. R.13E.

R.13E. R.14E.

T.1S.

T.2S.

NORTH

CLAIM MAP

SUPERIOR EAST PROJECT

GLOBE, SUPERIOR and SURROUNDING AREA

GILA and PINAL COUNTIES, ARIZONA

August, 1975 R.B.C.

Scale 1 : 24,000

2000 1000 0 2000 4000 6000

FEET

mn 2886 dom

ATTACHMENT A

Plan Map and Generalized Geology

SUPERIOR EAST PROJECT

GLOBE–SUPERIOR DISTRICT

Pinal & Gila Counties, Arizona

SCALE 1:24000

J.D.S. May 1970

Modified 3-5-71
Revised 1/6/72
Revised 3/21/72

MSK 2271

EXPLANATION

Quaternary
- Qal, Qtg, Qtb — Cover

Tertiary
- Td — Dacite, 20 m.y.
- Ti — Intrusive, 20 m.y.
- Tev — Early Volcanics
- Tw — Whitetail Conglomerate, 32 m.y

Laramide
- TKgr, Tqm, Tlgm, Tqd-Tdp — Intrusives (Tkgr), 58-60 m.y. (Tqm), 60-63 m.y.; (Tlgm), 62 m.y.; (Tqd-Tdp), 70-72 m.y.(?)
- Tdx — Mineralized Breccia. Known only from underground workings

Paleozoic
- Pcl, Ps, Th, Me, Dm — Undifferentiated Sediments (Pal), Supai (Ps), Naco (TPn), Escabrosa (Me), Martin (Dm). (a) Replacement ore in Devonian Horizon (b) Stacked Replacement Ore in Devonian Thru Pennsylvanian.

Precambrian
- pC + Au, db — Sediments & Associated Diabase
- sc, db — Pinal Schist & Associated Diabase

A-1 — Drill Hole (showing lowermost unit encountered)

0 500 1000' 2000' 4000' 6000'

LAND STATUS LEGEND

- ASARCO claims
- ASARCO state lease
- FEE — ASARCO fee land
- CONTINENTAL COPPER MARGARET CLAIMS (under option to ASARCO)
- INSPIRATION COPPER CROOK & OS CLAIMS (under joint-venture with ASARCO)
- INSPIRATION COPPER claims
- MAGMA COPPER claims
- FOREST SERVICE WITHDRAWAL
- FEE LAND (others)
- FEDERAL CLAIMS and/or PATENT (others)
- STATE LEASE LAND (others)

EXPLANATION

Quaternary
- Qal, Qtg, Qtb — Cover

Tertiary
- Td — Dacite, 20 m.y.
- Ti — Intrusive, 20 m.y.
- Tev — Early Volcanics
- Tw — Whitetail Conglomerate, 32 m.y.

Laramide
- Tgr, Tqm, Tlqm, Tgd-Tdp — Intrusives (Tgr), 58-60 m.y.; (Tqm), 60-63 m.y.; (Tlqm), 62 m.y.; (Tgd-Tdp), 70-72 m.y.(?)
- Tbx — Mineralized Breccia. Known only from underground workings

Paleozoic
- Pal, Ps, Ph, Me-Dm (a, b) — Undifferentiated Sediments (Pal), Supai (Ps); Naco (Pn); Escabrosa (Me); Martin (Dm). (a) Replacement ore in Devonian Horizon. (b) Stacked Replacement ore in Devonian thru Pennsylvanian

Precambrian
- pEAu, db — Sediments & Associated Diabase
- pEsc, db — Pinal Schist & Associated Diabase

A-1 ○ 2128 TD-pEsc — Drill Hole (showing depth T.D. and rock type)

ASSAY DATA KEY
depth-length-%Cu
4317'-623'-0.31

○ Drill by ASARCO

○ Drill by other companies

QDC-1 ○ 1456 TD-pEdb

NORTH

SUPERIOR EAST PROJECT

GILA and PINAL COUNTIES, ARIZONA

January, 1977 J.D.S.

Scale 1 : 24,000

2000' 1000' 0 2000' 4000' 6000'
FEET

R 12 E R 13 E

R 13 E R 14 E

F O R E S T

T O N T O N A T I O N A L F O R E S T

Government Hill

Ball Basin

Haunted Canyon

Tonto Ranch

Canyon Day Ranch

Brizzie Mt.

Grizzly Mtn

Powers Gulch

Pinto Creek

Pinto Valley Wash

Cottonwood Tailings Pond

Manila Hill

Pinto Valley

Fortuna Pk

Kay

Margaret

Queen Creek

Kings Crown Peak

Final Ranch

Five Point Mountain (The Watershed)

Hutton Pk

Ash

Oak

Sun 53-71

Sun 1-50

East 1-15

Dacite

Superior

Devils Canyon

Hackberry Wash

Government Mtn

Black Rock Spr

Trilobite Spring

Tillman Spring

Longhorn Spring

EXTENSION +33 (Magma)

ACC 1-76 Banner Mining Co.

DCA-1 DCA-2 DCA-3 DC-1 CE-1 CE-2 CE-3 CE-4 CE-5 I-1 I-2 I-3 I-4

OF-1A

WT-1 WT-2 WT-3

QS409

SN2

-EXPLANATION-

- STATE LAND (ALL OTHER LAND IS WITHIN TONTO NATIONAL FOREST)
- PROPOSED ASARCO CLAIM GROUPS
- ASARCO LEASE & APPLICATION
- FEE LAND *
- FOREST SERVICE WITHDRAWAL
- MAGMA COPPER COMPANY CLAIMS (NORTHERN EDGE NOT VERIFIED)
- CONTINENTAL EXPLORATION CLAIMS (EXACT LOCATION NOT VERIFIED)
- MINERAL SURVEY CLAIMS, OWNERS UNKNOWN

* OWNERS

1. HELEN COLE, SUTTON SUMMIT SUBDIVISION (Joe P. Sutton)
2. WILLARD SHOECRAFT
3. GERALDINE CRAIG
4. ETHEL M. HENDERSON
5. ROBERT P. CRAIG
6. GERALD CRAIG
7. THOMAS CLARY
8. MILO C. WEBB deceased 12/5/70
9. THELMA HAGEN
10. HARRY HAGEN
11. KENNECOTT COPPER CORP.
12. OSCAR F. GRONLAND
13. ~~UNKNOWN~~ Mrs. Ann Taylor (Superior).
14. Craig Subdivision: a) Harvey Hayes; b) Pattie Spurlock; c) Belle McClinton; d) Kenneth C. Knight; e) Travis L. Grant; f) Gerald Craig.
15. NERANDEX, Inc.
16. ASARCO
17. PAVED OR GRADED ROAD
- UNIMPROVED ROAD
- PROPOSED ROAD FOR LOCATION DRILLING
- OUTLINE OF DACITE PLATEAU

DCA-3 ○ KNOWN DRILL HOLES

○ Butcher paper on ground

Corrections & Additions

PRELIMINARY LAND STATUS

SUPERIOR EAST PROJECT

Globe, Superior, & Surrounding Area

GILA & PINAL COUNTY, ARIZONA

J.D.S May, 1970

0 500 1000 2000 4000 6000

1:24000

T 11 N
T 15

	3
	2
	1

126	127
124	125
122	123
118	121
114	116
110	112
106	108
102	104
98	100
94	96
90	92
86	88
82	84
Cop 139	38 40
Ghost 16	Ghost 32

53	86		
51	84		
49	82	81	
47	80	79	115
45	78	77	113
43	76	75	111
41	74	73	109
39	72	71	107
37	70	69	105
35	68	67	103
33	66	65	101
31	64	63	99
29	62	61	97
27	144	143	95
140	142	141	93
131	136		
132	134		
133	134		

Ghost 127

	Cop 130				
Tip Top No 7	Rim Rock No 6	Cop 131	Eden 11	Eden 10	Hortenshall No 2
Tip Top No 1	Tip Top No 3	Tip Top No 4	Rim Rock	CA Extension	Hortenshall
Eden 12	Rim Rock No 2	Rim Rock No 1	Denver	C4	Rim Rock No 7
Tip Top	Rim Rock No 8	Rim Rock No 4	Rim Rock No 5	Lewis	Spearfish	Sussex
	Eden 13	Denver No 7	Brenton	Spearfish Facies	Distillery
	Denver No 6	Denver 5	Denver 3		

Spring Lake

CA Extension

Eastern Tri State Area

N

14 15 16 13 12

POLE GROUP
(MIAMI)
128 + Claims

MELVIN (M)

BI (Supco)

ALPHA

HENRY (M)

AG (Supco)

ECHO (M)

WEBB
PAT

MO (Supco)

OAK (M)

MIAMI
- MELVIN 1-10
- HENRY 1-10
- ECHO 1-19 (13 missing?)
- OAK 1-33
- POLE (?) 1-128+ (134?) around edge

Supco
- Ag 1-12
- Bi 1-15 (?)
- Mo 1-20

National Forest Boundary

Wobb Pl.
ECHO Canal
OAK PARK CO
Oak Flat
Rec. Area
CROOK
OS
Gladys
OS
CONTO
R18E
R19E
T15
T25
16
15
14
13
18
17
16
21
22
23
19
20
21
28
27
26
25
30
29
28
33
34
35
36
31
32
33
5
4
3
2
1
6
5

16 15 14 13 18 17 16

5 pt. Δ mtn

Webb Pat

ISRoad

stew#1 stew#2

ECHO (MCC)

1 3 5 7 9 11 13 15 17 19

2 4 6 8 10 12 14 16 18

23 24

Hutton Δ Pk

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

(Cemetery)

21 22 23 24 25 26 27 28 29 30 31 32 33 34

OAK (MCC)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

26 25

20 29 30 31 32 1 2 33 4 5 6 177 178 179 180

CENTER

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176

30 29 28

Oak Flat Recreation

33 34 35 36 31 32 33

RIGHT RIVER

T1S T2S

5 4 3 2 1 6 5