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RBM  
JHC

W.E.S.  
AUG 23 1965

J. H. C.  
AUG 13 1965

August 11, 1965

MR. ~~JFK~~ <sup>8/12/65</sup> ~~WES~~  
READ AND RETURN .....  
PREPARE ANSWERS ..... HANDLE .....  
FILE  INITIALS .....

S. I. B.

~~AUG 19 1965~~

S. I. B.

AUG 20 1965

Mr. J. B. Knaebel, Vice President  
The Anaconda Company  
New Mines Department, Arizona Operations  
P. O. Box 3039  
Tucson, Arizona 85700

T 17-18S  
R 13E

Quitclaim Mining Deed  
Twenty Claims--  
Cholla Flat Group

Dear Jack:

Confirming our telephone conversation of this afternoon, the above mentioned quitclaim deed has been duly executed and returned here from our New York Office, arriving today.

In Mr. Snedden's absence, I am forwarding this to you.

Yours very truly,

A. C. Hall  
Assistant Manager

ACH/jah  
Enc.

cc: TASnedden

JFK 8/9/65  
JFK  
READ AND RETURN  
PREPARE ANSWERS  
HANDLE  
FILE INITIALS

JHC Copy  
J. H. C.  
AUG 9 1965

New York, N. Y., August 4, 1965

S. V. B  
AUG 16 1965

Mr. C. E. Nelson

The following is an extract from the minutes of the meeting of the Advisory Committee held today:

Cholla Flat Prospect  
Pima County, Arizona

For several years Asarco has been performing assessment work on a group of claims which were staked and claimed in 1960, known as the Cholla Flat prospect, a possible copper prospect in the Twin Buttes Area, Pima County, Arizona, six miles southeast of the Company's Mission Unit. It was reported that the size of the property will not justify an open-pit operation or any additional exploration expenditures. It was further reported that The Anaconda Company is desirous of acquiring the property for an overburden and tailings disposal area and has requested that Asarco quitclaim the property to it for a nominal sum. As the property is of no value to Asarco, the execution of a mining deed quitclaiming the following claims located in Pima County, Arizona, to The Anaconda Company, was approved:

- |          |          |
|----------|----------|
| W. G. 13 | W. G. 27 |
| W. G. 15 | W. G. 28 |
| W. G. 17 | W. G. 29 |
| W. G. 19 | W. G. 30 |
| W. G. 21 | W. G. 31 |
| W. G. 22 | W. G. 32 |
| W. G. 23 | W. G. 33 |
| W. G. 24 | W. G. 34 |
| W. G. 25 | W. G. 35 |
| W. G. 26 | W. G. 36 |

Harold Howe

HJ Goodenough  
HW Grese  
TAS Hedden  
REM Een  
JHC Courtright

*Crane Hillman*  
*Twin Buttes*  
J. H. C.

JUL 15 1965

MR. WSF 4477-15  
READ AND RETURN ..... AMERICAN SMELTING AND REFINING COMPANY  
PREPARE ANSWERS ..... HANDLE Tucson Arizona  
FILE  INITIALS .....

July 14, 1965

Mr. R. J. Lacy, Chief Geophysicist  
American Smelting and Refining Company  
3422 South 700 West  
Salt Lake City, Utah 84119

Aeromagnetic Surveys  
Twin Buttes & Cholla Flat  
Pima County, Arizona

Dear Mr. Lacy:

This will acknowledge receipt of your letter of June 8 together with Mr. Gay's memorandum concerning the subject.

Mr. Gay's recompilation of Hycon data plus his reduction of the Aero Service data has substantially added to our knowledge of the probable distribution of magnetite bearing tactites in the district.

Mr. J. E. Kinnison has called to my attention an inaccurate statement which appears on page 2, paragraph 1 of Mr. Gay's memorandum. The statement is as follows, "Prior work by Kinnison had indicated that magnetically high areas would be devoid of copper mineralization, similar to Mission (see attached geology map)." Mr. Gay must have misunderstood the intent of one of John Kinnison's reports. Certainly everyone in this office who is acquainted with the Twin Buttes District is keenly aware of the local association of magnetite and chalcopyrite in tactites. Perhaps Mr. Gay has assumed that Kinnison's equation of the Twin Buttes mineralization with the Mission "root" implies a paucity of magnetite in chalcopyrite ores. It should be pointed out that the Pima mine (high in magnetite) is part of the Mission upper plate ore body. Anaconda's tactite ore could be the root of the Pima deposit.

I agree that the magnetic high which occurs on our W. G. Claims at Cholla Flat is very likely related to magnetite in tactites at depths in excess of 1000 ft. The limited size (determined by drill holes surrounding anomaly) and excessive depth preclude any open pit ore potential. For various economic reasons and other considerations, it has been decided not to test this anomaly for possible underground ore.

Very truly yours,  
ORIGINAL SIGNED BY  
W. E. SAEGART  
W. E. SAEGART

WES/pjc  
Enc.  
cc: KRRichard  
JHCourtright  
JEKinnison  
SRGay, Jr.

AMERICAN SMELTING AND REFINING COMPANY  
Tucson Arizona

June 30, 1965

Mr. K. E. Richard, Chief Geologist  
American Smelting and Refining Company  
120 Broadway  
New York, N. Y.

CHOLLA FLAT

Dear Sir:

Enclosed is Mr. Kinnison's report on the Cholla Flat Claims, bringing up-to-date all of our information in the area. Included is a plan map and section showing the three holes recently put down on the Cholla Flat Claims by Anaconda.

Mr. Kinnison concludes, and I agree, that there is no chance for open pit ore on Asarco Claims, and that the chances of finding a mineable body of underground ore are too slim to warrant any additional exploration.

Yours very truly,

J. H. COURTRIGHT

JHC/pjc

Enc.

cc: TASnedden, w/enc.  
RBHsen, w/enc.  
JEKinnison, w/o enc.

AMERICAN SMELTING AND REFINING COMPANY  
Tucson Arizona

June 28, 1965

J. H. C.

JUN 29 1965

TO: J. H. COURTRIGHT

FROM: JOHN E. KINNISON

CHOLLA FLAT ORE POTENTIAL

This memorandum will summarize the geology and ore potential of the subject area as we now know it, as interpreted from drilling, including the three holes recently drilled for us by Anaconda. My geologic logs of these will be compiled in a separate memorandum.

Although I will not go into the details of geology of the Twin Buttes area, reference to these data may be had in my report to Kenyon Richard of April 12, 1961. As background, however, I would like to quote from that report the following excerpts:

"The hypothesis behind the Cholla Flat drilling program was that the low-dipping Basement fault sliced through and drastically shifted a major porphyry copper district; the hangingwall plate in which we now find the Mission and Pima mines was moved northerly about 6 miles, while the footwall component or 'root', remained east of Twin Buttes but is concealed beneath alluvium...Drilling information coupled with a detailed comparison of geologic features in these two areas proves with reasonable certainty that Cholla Flat is, indeed, the Mission 'root'.

"There remains a possibility that a commercial copper deposit(s) exists on adjacent Banner Company claims; our participation in the exploration of those claims depends on the outcome of negotiations recently initiated."

It is indeed, I believe, very unfortunate for Asarco that negotiations were never reached which would have allowed us to explore the Banner ground, prior to their settlement with Anaconda.

I have prepared a revised and somewhat simplified map, which shows all drill hole information now known to us (Attachment A), and to accompany this a cross-section (Attachment B) illustrating conditions of geology and mineralization at depth. These maps include the most recent drill hole data which were obtained for Asarco at Anaconda's expense, as worked out between Mr. Snedden and Mr. Knaebel.

After reviewing all data available to us, and every reasonable speculation upon which I might dwell, it is my conclusion that our claims are of no real mineral value to us. To elaborate further,

June 28, 1965

it is now obvious that there is absolutely no chance for open pit ore on our claims. The great bulk of rock, which lies at depths ranging from 600' to 800', is either barren limestone, weakly to strongly altered clastic sedimentary rocks, and a stock of monzonite porphyry which, although strongly altered, is entirely pyritic in nature and contains only trivial quantities of chalcocite at the upper surface of the sulfide zone. The last drill hole, CH-15, did penetrate a zone of oxidized copper minerals in an impure slightly altered limestone. This zone which was encountered at the bedrock surface, continued for 99' with an average assay of 1.65% total copper and then passed abruptly into barren limestone. No  $\text{MoS}_2$  was present. The lack of garnet and other lime silicates in this zone leads me to believe that it is incidental to and on the fringe of the larger zone of pervasive alteration, and probably controlled by limestone stratigraphy or perhaps by structures such as fissuring.

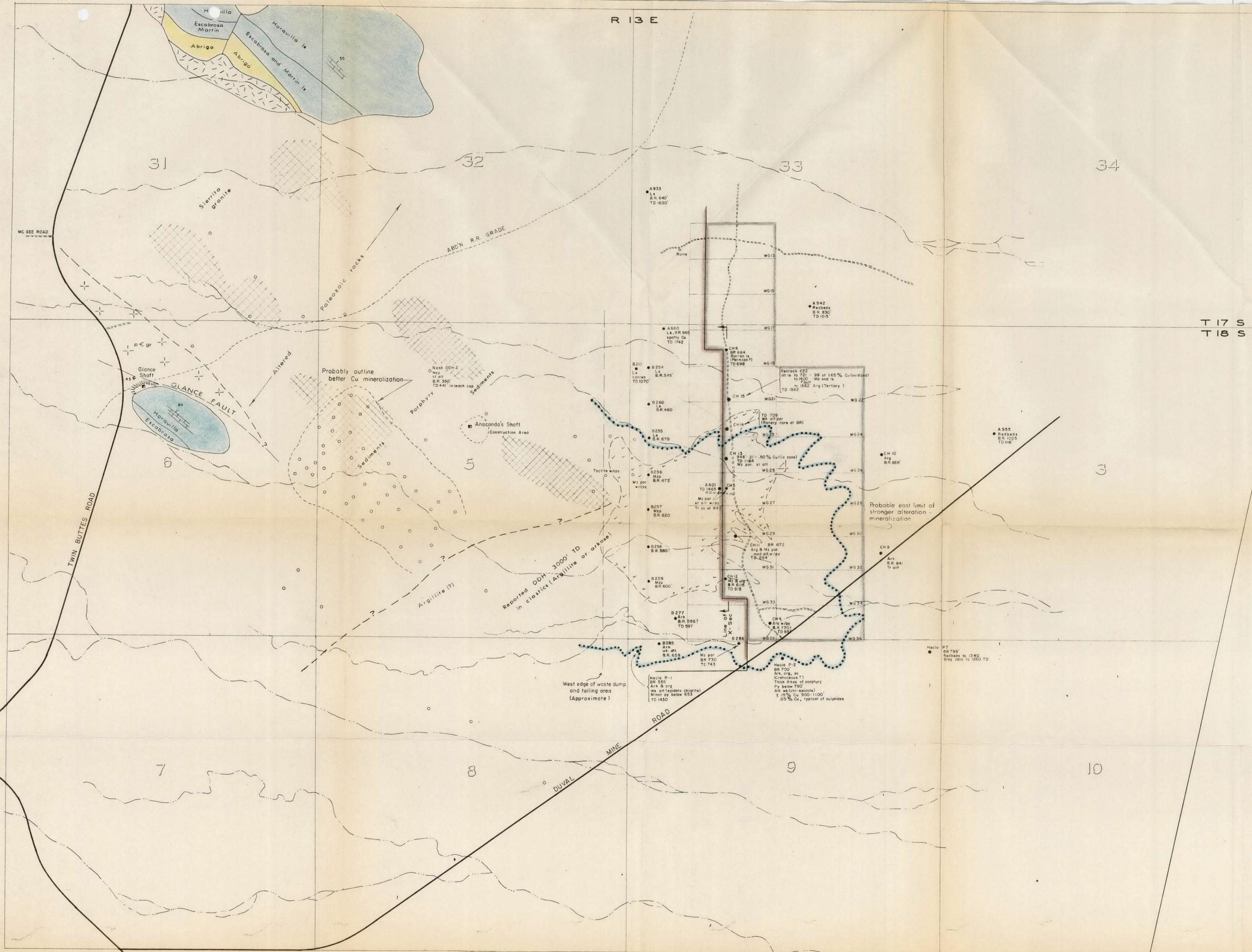
Although I cannot state absolutely that a deposit similar to the higher grade central ore zone at the Pima mine\* does not exist somewhere on our claims, the expense entailed in searching for such a deposit at the depths involved, presents a very poor exploration venture. I recommend that no further drilling be done on our Cholla Flat claims.

  
JOHN E. KINNISON

JEK/jak

cc: JHCourtright, 5 extra, w/atts.

\*6.5 million tons at 2.11% copper--open pit--or 900,000 tons of 5.0% copper--sub-level caving, original Asarco ore reserve estimate.



WG claims currently held by ASARCO

Anaconda (Banner) claims

● CH5 ASARCO drill hole  
● B255 Banner hole } Located by survey  
● A601 Anaconda hole }  
○ Drill hole location interpreted from aerial photograph

CDI Carboniferous & Devonian Sediments Horquilla Is Escabrosa Is Martin Is  
CS Cambrian Sediment Abrigo Is Bolsa quartzite

Manzanite porphyry (Tertiary)  
Sierrita granite (Tertiary)  
Mineral Hill granite (pre-Cambrian)

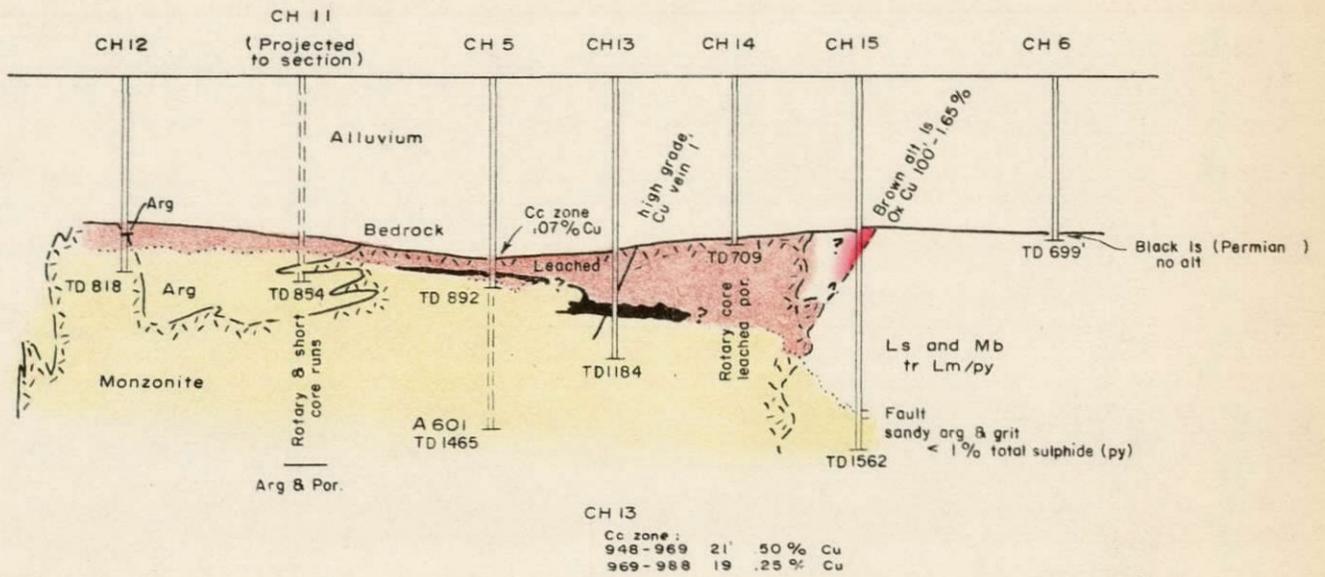
Outcrop  
Covered contact (interpreted)  
Magnetic high anomaly  
Limits strong alteration

NOTE: The drill sites recognized from aerial photos represent only part of the total number of drill holes actually present

CHOLLA FLAT  
REVISED EXPLORATION MAP  
SCALE 1" = 800'  
Base: Aerial Photography

SOUTH

NORTH



Note: All Cu assays < .1% Cu, except where noted  
Chalcocite zones show in black

ASARCO  
**CHOLLA FLAT**  
 Geologic Cross-section  
 Along ASARCO West Boundary  
 Looking West  
 SCALE 1" = 800'

AMERICAN SMELTING AND REFINING COMPANY  
Tucson Arizona

June 22, 1965

*Cholla Flat  
JHC - Personal*

*W.E.S.*

JUL 12 1965

J. H. C.

JUL 14 1965

TO: J. H. COURTRIGHT

FROM: JOHN E. KINNISON

My forthcoming report summarizing the recent drilling on our Cholla Flat claims will be ready within a few days. From the report and advance copies of the magnetic flights recently done by the Geophysical Department it is Mr. Parker Gay's conclusion, as I understand it, that there exists a magnetic anomaly on our ground which has not yet been tested, and he recommends additional magnetic work.

I wish to specifically point out, however, that in his summary concerning the ore occurrence at Twin Buttes he states that I concluded or in some way implied that there would be no chalcopyrite associated with magnetite as is the case in the Pima Mine. Not only did I not make any such statement in my report on the Cholla Flat property, but my maps clearly indicate that magnetic highs are included within a line which I interpreted to be a rough approximation of the possible limits of mineralization in sedimentary rocks. This may seem to be a trivial comment, relating to only a single sentence in Mr. Gay's report, however it casts a poor reflection on the judgment of the geological staff here at Tucson, and I don't like it. Would you please call this to the attention of the appropriate people if you deem it necessary.

*John E. Kinnison*  
JOHN E. KINNISON

JEK/jak

cc: WESAegart  
2 extra

MR. WES AMERICAN SMELTING AND REFINING COMPANY  
 READ AND RETURN \_\_\_\_\_ Tucson Arizona  
 PREPARE ANSWERS \_\_\_\_\_ HANDLE \_\_\_\_\_  
 FILE  INITIALS \_\_\_\_\_

March 19, 1965

J. H. C.

MAR 21 1965

W.E.S.

MAR 23 1965

TO: J. H. COURTRIGHT

FROM: J. E. KINNISON

CHOLLA FLAT  
D.D.H. CH-12

The geologic and assay log of hole CH-12 is submitted herewith. This drill hole fulfills assessment work for a two-year period which will end August 31, 1965; which means that we legally can wait until August of 1966 to begin the next assessment drill hole. The drill hole encountered mineralized argillite and porphyry with very low copper values.

The location of CH-12 was decided upon following a discussion with Mr. Saegart (memo 8/24/64, Kinnison to Saegart), and for the following objective: We hoped to put down this hole a little deeper than the others nearby in order to have a try at finding tactite beneath the mineralized argillite. The choice of this specific location was predicated (1) on the possibility that the Paleozoic limestone section could be found within moderate depths, and (2) on the chance that porphyry would be absent. Porphyry sills, if present, would have displaced the limey sequence to a lower depth, and a stock or plug would "cut-out" the limestones altogether. In support of No. 1 above, Mr. Saegart and I relied on a projection southeast, parallel to known mineral zones and strike of Paleozoic beds, from a cluster of drill holes on Anaconda property from which I found abandoned core chips containing chalcopyrite in tactite. The location of the south edge of the porphyry stock or sill and its branches which were penetrated in CH-5 and CH-11 was a condition we could not predict prior to drilling hole 12.

After penetrating bedrock of weakly altered argillite at 605' in this hole, the drill hole then passed into altered porphyry, thereby greatly reducing the chance for tactite at moderate depths. (our budget allowed for an estimated depth of 1100'). Furthermore, alteration appeared weak in both argillite and porphyry, and in the sulphide zone (all pyrite) the content was low--about 1% by volume by my visual estimate. Drilling accordingly was stopped at 818'.

All casing was recovered by breaking out with left-threaded rods.

A copy of the drill log has already been forwarded by you, I believe, to Anaconda as per our agreement of exchange with them.

JEK/jak

*John E. Kinnison*  
 J. E. KINNISON

Twin Buttes, Arizona  
CHOLLA-FLAT PROSPECT  
Diamond Drill Hole CH-12

Location: Approx. 300' S of Side line between WG 33 & WG 31, approx. 810' W of E end line WG 33 (Brunton Resection). Also N 76° E, 75', from E end ctr Jan 55 (Brunton-pace).

Elevation: Approx. 3150' (Twin Buttes Quad.)

Inclination: Vertical

Drilled: 8/24/64 - 9/5/65 T.D. 818.1'

Geology:

<u>Depth</u>	<u>Interval</u>	<u>Rec.</u>	<u>Assay, Cu</u>	<u>Geology</u>
605.0'	Drilled with 4 $\frac{1}{4}$ ' rotary bit			Alluvium
612.5'	7.5'	100%	.02%	Sandy arg, with flecks of biotite. Vy hard & siliceous. Local 'porphyry-like' texture. Tr. Lim after py. Fe ox & Mn ox films on fract. NX conv., open hole.
615.1'	2.6'	100%	---	Do, but broken with gouge seams.
642.3'	27.2'			Drilled with 4 $\frac{1}{4}$ ' rotary bit. Chips of arg. Below 630' $\pm$ contamination with alluvial sand.
646.9'	4.0'	100%	.03%	Sandy arg. Weak Fe ox stains on fractures. Rock had almost no former sulf. Vy hard and siliceous. Flecks of biotite. NX conv., open hole.
-Case hole, set up NX w/ rods-				
653.5'	6.6'	82%	---	Same as above.
663.9'	10.4'	88%	---	Argillite(?) softer than above with clay alt and fault gouge. Limonite stain on gouge and clay areas. Some portions show porphyry texture. Tiny cavities filled with indigenous brown lim, probably after pyrite.
670.6'	6.7'	63%	Tr	Porphyry(?). Rock shows definite porphyry texture, with alt feldspar, locally. Otherwise similar to preceding argillite.

<u>Depth</u>	<u>Interval</u>	<u>Rec.</u>	<u>Assay, Cu</u>	<u>Geology</u>
680.4'	9.8'	83%	Tr	Porphyry. Alt. feld. pheno. and small quartz phenocrysts, flecks of biotite. Mn dendrites and limonite seams. Original sulphides sparse. Some sericite alt.
692.3'	11.9'	99%	.02%	Porphyry, similar to above, but more hard and siliceous. Biotite abundant, partly broken down to limonite.
702.4'	10.1'	100%	---	Porphyry similar to hard variety above. Some parts have argillite appearance. Very little evidence of former sulphides. Limonite staining less.
710.6'	8.2'	93%	.03%	Porphyry. Clay alt. and less siliceous than preceding. Mn O <sub>2</sub> (?) in specks on fractures. Sparse cavities of former sulphides partly filled with brown lim--probably from pyrite.
715.9'	5.3'	94%	---	Porphyry. Strong clay alt, fault breccia. Sericite. Transported brown lim.
723.0'	7.1'	94%	.03%	Porphyry. Part similar to above, and part less alt and more hard. Transported lim; not abundant.
730.6'	7.6'	96%	Tr	Porphyry. Alt. weak to moderate. Mixed lim. and pyrite, not more than 1 per cent total est.
740.0'	9.4'	94%	Tr	Porphyry. Small feld alt, and small quartz pheno. Rock probably recrystallized. Py diss and on a few veinlets. Miner. fractures not numerous. Biotite flecks but not large. Sulphides about 1% est, by volume.
749.2'	9.2'	95%	.02%	Porphyry. Same as above.
759.5'	10.3'	96%	.03%	Porphyry. Same as above. Alt. little stronger and little increase in py.
767.4'	7.9'	95%	.03%	Porphyry. Same as above. Py in veinlets and traces chalcocite.
777.4'	10.0'	100%	.04%	Porphyry. Same as above. No Cc this run.
784.1'	6.7'	100%	.03%	Porphyry. Same as above. Biotite-chlorite patches near end.
793.0'	8.9'	96%	.03%	Argillite, chloritized. 70° veins pyrite and silica, and increase in diss py. Total sul. est 3%.

<u>Depth</u>	<u>Interval</u>	<u>Rec.</u>	<u>Assay, Cu</u>	<u>Geology</u>
804.0'	11.0'	91%	.04%	Argillite. Similar to above but with fewer, and discontinuous, veinlets of py. Less chlorite alt. Diss sulfides same as above.
810.8'	6.8'	99%	.03%	Argillite. Similar to above. Greenish tone of rock probably due to chl alt. Diss py about 2% total est. volume.
818.1'	7.3'	89%	.03%	Argillite, similar to above.

BOTTOM

Total footage cored	171.2' NXw1
% core recovered	92.6%

AMERICAN SMELTING AND REFINING COMPANY  
Tucson Arizona

March 5, 1965

TO: T. A. SHEDDEN

FROM: J. H. COURTRIGHT

CHILLA FLAT  
TWIN BUTTES AREA

Recently, Mr. Kinnison and I met with Jim Kelly in his office on the south Nogales Highway, and discussed the possibility of copper ore occurrences on ASARCO's "WG" group of mining claims which adjoin Anaconda's (Banner) claims on the east.

Previously, <sup>Knachel</sup> J. B. Knachel had informed you that Anaconda needed the "WG" group for waste dump and tailings disposal. However, he declined to turn over the data on certain of their deep drill holes which we thought might help in the evaluation of exploration possibilities beneath Asarco claims. The holes referred to are situated approximately half-way between Anaconda's shaft and the west edge of the "WG" claims (see map).

It now appears evident that Anaconda's policy regarding release of any data on drill holes in ore is due entirely to the fact that they are involved in litigation over claim ownership.

The attached map of the Twin Buttes area shows (1) the probable outline of Anaconda's principal zone of copper mineralization in tectite (the area of concentrated drill locations plotted from an aerial photo), (2) Anaconda's shaft site, (3) the probable extent of intrusive porphyry and alteration-mineralization on the "WG" claims, and (4) the location of one of two proposed holes (red circle) to test the Paleozoic limestones adjacent to the porphyry intrusive.

Assuming that peripheral holes in the area of close spaced drilling represent waste, or marginal ore holes, Anaconda's ore body has horizontal dimensions of about 1300' by 2500'. The ore occurs in steep-dipping silicated limestones (tectites) of Paleozoic age. Reportedly the depth of gravel overburden averages around 400', and the depth to sulfides, 500' to 600' from the surface. A number of holes were drilled below 3000', so presumably the ore zone extends to an equivalent depth at least. Pre-mine stripping will probably be 3 to 4 times that at Mission.

A body of Intrusive porphyry, elongated northwest, borders the main ore zone on the northeast. The porphyry contains an average primary copper content of .2-.3%. In contrast to the porphyry sills

March 5, 1965

at Mission which run between .1 and .2% Cu for the most part. Spotty enrichment occurs within the Twin Buttes porphyry, forming a thin blanket of low-grade chalcocite ore in places.

The shaft is at a depth of 800' which will be the main development level for checking out the ore occurrence and obtaining metallurgical samples.

The western limit of Anaconda's proposed waste dump and tailings area lies some 2000' west of ASARCO's "WG" claims. This north-south line is obviously the eastern limit of whatever pit they have planned.

The possibility of finding ore in limestones beneath the mineralized argillites on the "WG" claims was reviewed by Mr. Kinnison in a memorandum dated 2/24/64 (copy attached). Subsequently, assessment hole CH-12 was put down, but the alteration-mineralization in the argillite (and porphyry) was considered too weak to warrant extending the hole in search of possible underlying limestones.

In the light of information to date, there appears to be no possibility of open pit ore on the "WG" claims, and the chances for occurrence of copper deposits that could be profitably mined by underground methods appear to be quite slim. Only in a small part of the mineralized area can we expect limestones at, say less than 2000'. Anaconda drilled over 3000' in argillite or arkose in an area 1000-2000' west of the "WG" claims. Also, the comparatively low primary copper content of the porphyry in the "WG" area (.02-.05% Cu as compared to .2-.3% Cu) may indicate a relatively less favorable condition for emplacement of copper in the adjacent limestones. However, Mr. Kinnison and I believe that at least two holes should be drilled to test the limestones before a decision is made regarding disposition of the claims. The location of the first hole proposed is shown on the attachment. The location of the second one would depend on the results of the first. Hole depths may be anticipated to range between 1000' and 2000'; however, the first hole should be planned to penetrate to a depth of 2000' if necessary, in order to reach the limestone (or tectite) rocks.

It is recommended that this drilling be done by Anaconda, and at their expense.

Original signed by  
J. H. Courtright

J. H. COURTRIGHT 

JHC/jak

Attachments

cc: KERichard, w/atts.

RMeehan, " "

JEKinnison, " "

TASnedden, 1 extra, w/atts.

February 2, 1965

J. H. C.

FEB - 8 1965

TO: T. A. SNEDDEN

FROM: J. E. KINNISON

CHOLLA FLAT  
ANACONDA NEGOTIATIONS

At your request, I have evaluated the recent drill hole information furnished to you by Anaconda. When Mr. Courtright returns, I will report to him the following conclusions.

- (1) Near the southern part of our claims, the recent drilling by Anaconda has been shallow--just to bedrock--and merely confirms our inference that there is no shallow ore there.
- (2) A few drill holes, rather deep, north and east of our block of 20 claims, again confirms what we had previously thought; namely that these areas lie outside the zone of alteration. It was for this reason that we dropped these claims, which we once held.
- (3) The possibility of better values in tactite, at depth beneath porphyry and argillite on our claims, remains untested. In this connection I should note that the results from a small cluster of holes about midway between the Asarco west line and Anaconda's shaft might shed some light on the probability of deep tactite ore on our claims. Because this cluster of 7 holes is isolated from the area of concentrated drilling, I doubt that these holes are included in any way in their present reserves. However, I must ask of myself: was a prospective lead intersected there which is being purposefully kept confidential from us in order to "play down" the value of our WC claims for future exploration?
- (4) It is my conclusion, from data now at hand, that we cannot assess the potential for deep tactite ore without drilling one or possibly two deep holes, for this specific purpose.

Unless you wish them for your files, I will place the drill hole logs and location maps which you handed to me last Friday in our Cholla Flat exploration file.

ORIGINAL SIGNED BY  
JOHN E. KINNISON

JOHN E. KINNISON

JEK/jak  
cc: JHCourtright  
WESaegart  
JEKinnison  
file

AMERICAN SMELTING AND REFINING COMPANY  
Tucson Arizona

October 5, 1964

J. H. C.  
OCT 6 1964

FILE MEMORANDUM

Cholla Flat  
Assessment Drill hole, CH-12

Drilling on CH-12 continued by Joy Mfg. Co. without interruption from August into September, 1964, beginning on September 1 at 416 feet in alluvium and bottoming September 24 at 818.1 feet in altered argillite. Bedrock is at a depth of 604 feet. Beginning in argillite at bedrock, the drill hole thereafter penetrated about 120 feet of mineralized porphyry with disseminated pyrite, and bottomed in argillite.

642 feet of NX casing was inserted, and at the end of September, 420 feet had been recovered.

A report and geologic log and assays will follow at a later date.

Drilling was done with a Joy 22HD diamond drill, in part using a rotary tri-cone bit. Contract cost is estimated, pending final billing, to be \$3,380, as follows:

231 feet before casing (Rockbit alluvium and bedrock with 18 ft. NX core). Contract cost @ \$5.00 per foot, including 72¢ per foot mud cost.

171 feet NXwl coring at \$6.45 per foot plus 36¢ per foot mud cost.

Casing cost: \$1,059.

ORIGINAL SIGNED BY  
JOHN E. KINNISON

JOHN E. KINNISON

JEK/jk

cc: JHCourtright  
KvdSteinen, w/cost sheet att.  
JEKinnison, "

AMERICAN SMELTING AND REFINING COMPANY  
Tucson Arizona

August 24, 1964

J. H. C.  
SEP 14 1964

MEMORANDUM FOR W. E. SAEGART

Cholla Flat  
Assessment Drilling, 1964

The attached map (A) shows geologic features, our previous drill holes, the general pattern of Anaconda's drilling as determined from aerial photographs and a limited ground inspection, and the drill hole data recently furnished by them. Their new shaft, which reportedly will be sunk to 900 feet, lies about 1/2 mile west of our claims. Summaries of Anaconda logs of drill holes near our west claim boundary are attached (C).

The objective of this new hole is to fulfill \$4,000 of assessment work for a two-year period ending August 31, 1965; and also to drill a little deeper than our previous holes on the long-shot possibility of finding better copper values in tactite which may lie below the altered argillite and porphyry sill (?) on our claims. We now know that much of the reserve on the adjacent Anaconda ground occurs in deep-level tactite. The main trend of concentrated drilling by Anaconda seems to project SE toward our CH-4, and another smaller group west of CH-5, if projected parallel to the main zone, projects SE between CH-4 and 5. The most shallow limy rocks lie north of CH-5, but are mostly barren of Cu and north of the main zone of pervasive alteration.

The group of holes about 1/4 mile west of CH-5 suggests that Cu values were found there, and I obtained lost chips of core on the sites which showed chalcopryite in tactite and porphyry.

On the basis of projecting this group southeast to our CH claims, and in consideration of our discussion on this subject, the new hole CH-12 will be located about 650 feet south of CH-11, as shown on the attached map. The estimated cost to a depth of 1100 feet is \$6,000, as summarized by Att. B. The site of CH-12 is on W.G. 33 and will constitute a bedrock penetration for legal discovery purposes.

The drill available for this work is a Joy 22HD diamond drill with a Bean 35 pump, as set forth in the letter from Pilaraki of Joy Manufacturing Company, 7/2/64. This drill will no doubt give technical drilling difficulties with the rotary bit at depths below about 700 feet; mud will have to be carried with a high viscosity and high gel strength to lift cuttings out with the small capacity Bean pump. Nearly all bit weight will be carried by downward hydraulic pressure, and will be "light" because the H-conventional rods will not take heavy pressures, and do not themselves have very much weight per foot to add to the weight applied to the bit. Clearly the 22 drills are not the best choice for any but shallow rotary drilling; however, I believe the hole can be gotten down, with diligence, and the convenience of coring will make it possible to run about 10 feet of core every 50 feet without excessive cost, past 800 feet.

Mr. Saegart

-2-

August 24, 1964

I must emphasize that I do not believe this hole, if it does not touch tactite, will have tested the possibilities of Cu in deep level tactite below argillite or porphyry. To adequately test this possibility some specific target depth well below 1200 feet would need to be agreed upon, and a cost estimate could follow from this decision.

ORIGINAL SIGNED BY  
JOHN E. KINNISON

JOHN E. KINNISON

JEK/jk

Attachments

cc: KERichard, w/all atts.  
JMCourtright, " [hand icon]  
JEKinnison, "  
1 Extra, w/att. B, C  
File, w/all atts.

**Attachment B**

**Estimate of Drilling Costs**

According to the contract drilling costs as we have agreed to with Joy Manufacturing Company, I have summarized below an estimate of the total drilling cost for hole CH-12. The current appropriation of \$6,000 will be used up at a depth of about 1100 feet.

Drilling with rock bit and occasional "spot" core runs.

**Surface - 1100 feet**

Rock bit with 70 feet NX core	\$4,850
Miscellaneous	<u>300</u>
Total contract	\$5,150
Supervision and assaying	<u>800</u>
	\$5,950

**JOHN E. KINNISON**

**Attachment C**

By an agreement made through Mr. Snedden, there was an exchange of all drill hole logs of our WA claims for Anaconda logs of their holes within 1400 feet of their Twin Buttes claims' east boundary. Their logs have been placed in the Cholla Flat exploration file; here I present summary logs taken from their data, and a brief inspection of the core. They furnished data from 3 diamond drill holes and 7 rotary holes which just touched bedrock.

**JOHN E. KINNISON**

Attachment C

RDH 210 (D.D.H.)

T.D. 1070'

Drilled by Banner, No Assays

Logged by Anaconda. Core reviewed by J.E.K.

Location, Att. A

B.R. 535'

535-1070' Marble and limestone; white, massive. Few bedding planes  $45^{\circ}$ .  
Wollastonite locally. Mn oxides scattered sparsely to 975'.  
No evidence of former sulphides.

Bottom

**Attachment C**

**A-601**

**T.D. 1465'**

**Anaconda drill hole**

**Logged by Anaconda, reviewed by J.E.K.**

**Location, Att. A**

**B.A. 760'**

**760-826' Porphyry, leached. Orange limonite. St alt.**

**826-906' Porphyry, as above, with diss. py rimmed w/tr Cc. Partly leached throughout. Oxid. decreases w/depth, gradually.**

**906-1066' Porphyry, as above. Py diss. grains and a few seams. Very weak oxidation. 906' is effectively the base of oxid., but a little leaching to 1066'. Tr Cc seen at 966'.**

**1066-1465' Porphyry, as above. Phenocrysts more obvious. St alt w/py diss. grains and seams. Cu assays mostly .02-.03%, a very few in .1-.3% range. Total sulphides est. 4% (Volume)**

**Bottom**

**Note: This hole is close by our CH-5. The porphyry is very similar in appearance, and base of strong leaching is equivalent. The thin chalcocite rims are not nearly so evenly developed as in CH-5 and slight leaching extends deeper.**

Attachment C

A-660 (D.D.H.)

T.D. 1742'

Anaconda drill hole

Logged by Anaconda, reviewed by J.E.R.

Location, Att. A

660-665' Caliche cgl. Hard.

S.R. 665'

665-1232 Marble, massive, some coarse-grained. Escabrosa(?). Tr CuO spotty. Fe and Mn oxides. No significant Cu assays.

1232-1350 Marble, fine-grained bluish recrystallized limestone. Some spots garnet. Tr CuO and Fe and Mn oxides. No significant Cu assays.

1350-1401 Tactite. Green Cu Minerals in exotic veinlets and some "in place" in former sulphide cavities. 1350-1401', 47' @ .45% Cu

1401-1675 Tactite. Partly oxidized, partly diss. py and cpy--but no significant assays except: 1535-1550', 20' @ 1.06% Cu (mostly oxide)

1675-1713 Gypsum (or anhydrite). Few siltstone beds. Tr py and cpy, no oxides. No significant Cu assays.

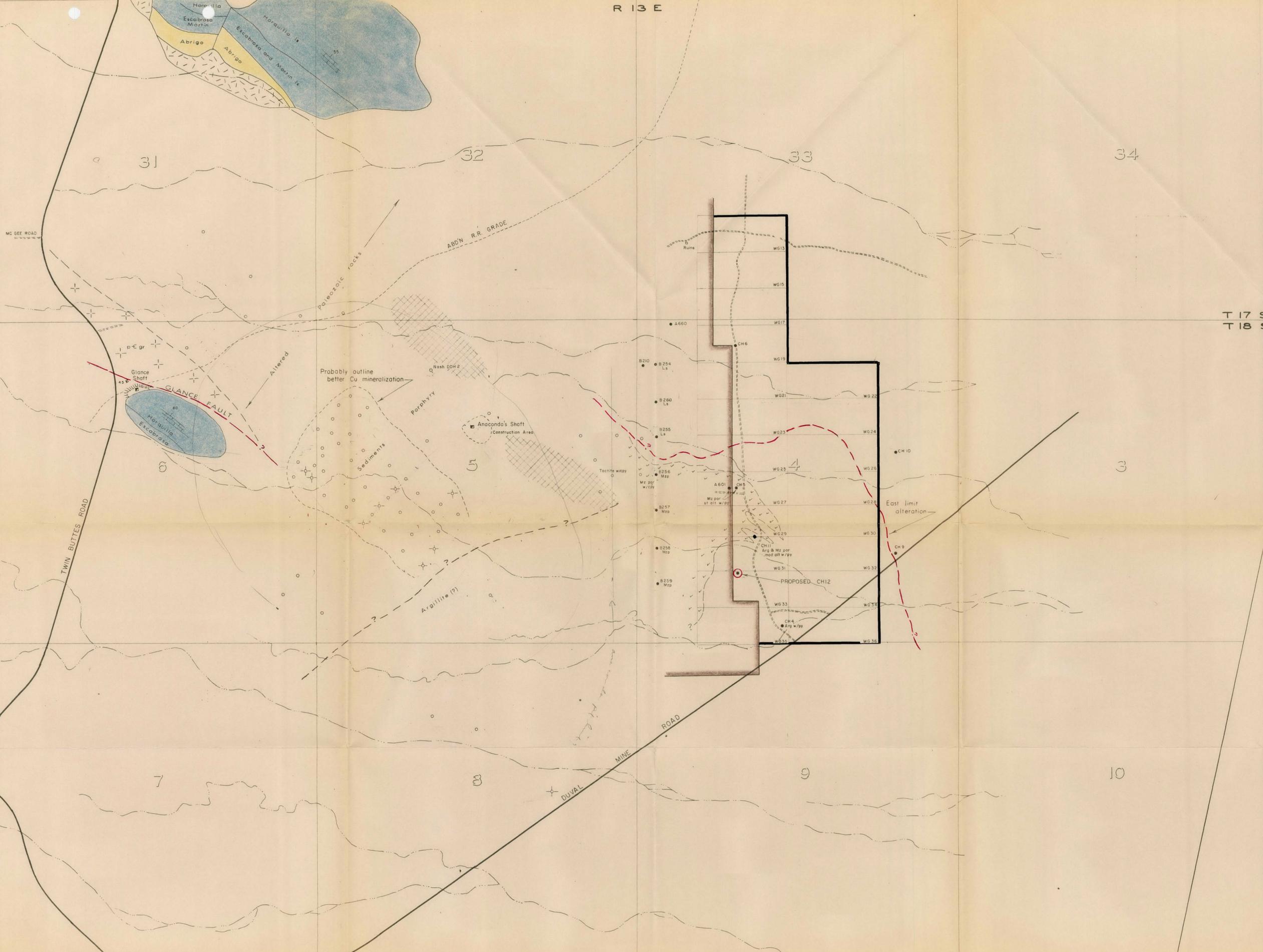
1713-1742 Quartz monzonite porphyry. Fresh looking phenocrysts with possibly recrystallized groundmass. Small stringers pink orthoclase (alteration?). Py, cpy. No significant Cu assays. Highest .21% Cu last run. Core recovery poor to good. Est. 2% total sulphides (volume). Upper contact intrusive into gypsiferous siltstone.

Bottom

Attachment C

Rotary holes drilled by Banner. Rock identification of bedrock rotary cuttings probably was made by F. D. MacKenzie. No samples available now. See Att. A for location.

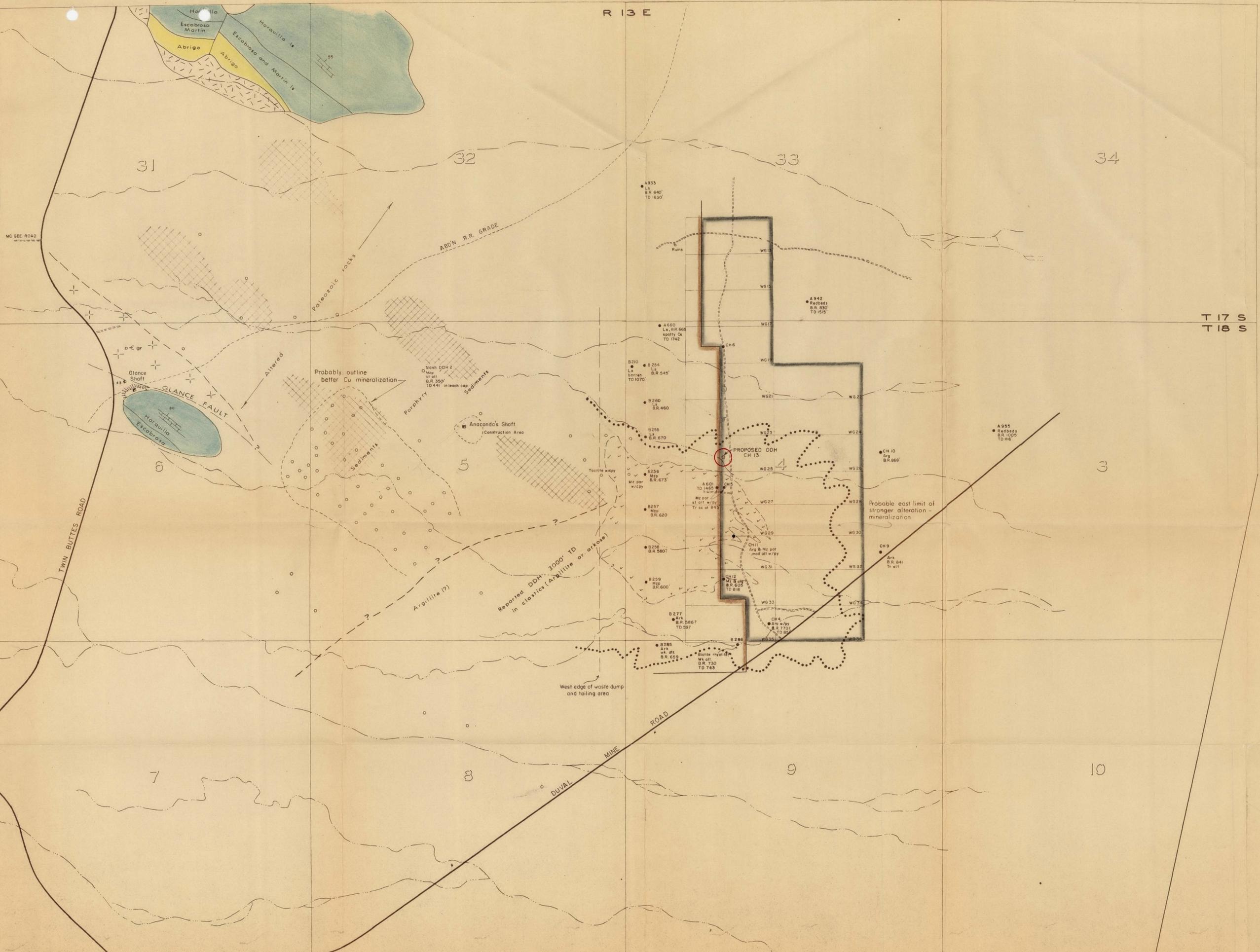
<u>RDH No.</u>	<u>Coordinates</u>	<u>Collar Elevation</u>	<u>Total Depth</u>	<u>Depth to Bedrock</u>	<u>Bedrock</u>
254	20,014.88 N 29,981.01 E	3203.93	545	545	Limestone
255	18,806.04 N 29,974.30 E	3204.42	670	670	Limestone
256	18,212.26 N 29,968.72 E	3202.07	673	673	Quartz Monzonite Porphyry
257	17,610.96 N 29,969.67 E	3200.86	620	620	Altered Quartz Monzonite Porphyry
258	17,025.54 N 29,947.37 E	3191.29	580	580	No geology available from Banner
259	16,422.96 N 29,951.21 E	3193.67	600	600	Altered Quartz Monzonite Porphyry
260	19,414.73 N 29,983.09 E	3201.68	460	460	Limestone



- WG claims currently held by ASARCO
- Anaconda (Banner) claims
- CH5 ASARCO drill hole
- B255 Banner hole
- A601 Anaconda hole
- Drill hole location interpreted from aerial photograph
- ✦ Anaconda hole drilling, August, 1964

- CDI Carboniferous & Devonian Sediments Horquilla Is Escabrosa Is Martin Is
- CS Cambrian Sediment Abrigo Is Balsa quartzite
- v v v Monzonite porphyry (Tertiary)
- / Tsg \ Sierrita granite (Tertiary)
- | pCgr -| Mineral Hill granite (pre-Cambrian)
- Outcrop
- - - Covered contact (interpreted)
- ||||| Magnetic high anomaly
- - - Limits strong alteration

NOTE: The drill sites recognized from aerial photos represent only part of the total number of drill holes actually present



-  WG claims currently held by ASARCO
-  Anaconda (Banner) claims
-  ASARCO drill hole
-  Banner hole
-  Anaconda hole
-  Drill hole location interpreted from aerial photograph
-  CDL Carboniferous & Devonian Sediments Horquilla ls, Escabrosa ls, Martin ls
-  CS Cambrian Sediment Abrigo ls, Bolso quartzite
-  Monzonite porphyry (Tertiary)
-  Tsg Sierrita granite (Tertiary)
-  pCgr Mineral Hill granite (pre-Cambrian)
-  Outcrop
-  Covered contact (interpreted)
-  Magnetic high anomaly
-  Limits strong alteration

NOTE: The drill sites recognized from aerial photos represent only part of the total number of drill holes actually present.

TO ACCOMPANY Memo.  
DATED March 5, 1965  
BY J.H. Courtright

**CHOLLA FLAT**  
REVISED EXPLORATION MAP  
SCALE 1" = 800'  
Base: Aerial Photography

JHC.  
Desk

Cholla Flat  
J.H.C.

**THE ANACONDA COMPANY**

SEP 14 1964

NEW MINES DEPARTMENT

MR. JER  
RECEIVED  
PREP  
FILE

W.E.S.

AUG 11 1964

P.O. BOX 3038  
TUCSON, ARIZONA  
AUGUST 10, 1964

J. B. KNAEBEL  
GENERAL MANAGER

T. A. Snedden, Manager of U.S. Mines  
American Smelting & Refining Company  
812 Valley National Building  
Tucson, Arizona

Re: Exchange of Drill Hole Information

Dear Al:

Further to our telephone conversation of today I wish to confirm our understanding of the basis upon which we will exchange information with your Company covering drill logs and assays in Section 33 of Township 17S, Range 13E and in Section 4 of Township 18S, Range 13E.

It is understood that the Banner Mining Company and Anaconda have drilled certain holes on mining claims in this area and that ASRCC has drilled 11 holes on claims within the general area, some of which it has relinquished and others of which it still retains. It is agreed that we will furnish you with geological logs and assay information covering all holes drilled to date (but not necessarily any holes to be drilled hereafter) by Banner and Anaconda within 1400 feet of the present mutual boundaries of the claims held by Banner and Anaconda and by ASRCC in the above mentioned Sections 33 and 4. The information that Anaconda will furnish you includes logs and assays of the following holes:

- 259                    210
- 258                    A-660
- 257                    A-401
- 256
- 255
- 260
- 254

In exchange for this information ASRCC will furnish us with geological logs and assay data covering the 11 holes already drilled in the area and one additional deep hole which it contemplates drilling in the near future. It is further understood that this exchange of information will be confined to drill logs and assay data and will not include geophysical or geochemical information.

Our information can be picked up by your men from either F. J. Balentine or Z. E. Arlin at our office anytime after 10:00 A.M. tomorrow, August 11th.

If the foregoing correctly states our mutual understanding kindly sign and return to us the extra copy of this letter enclosed herewith.

With best wishes,

Sincerely yours,

*J. B. Knaebel*  
J. B. Knaebel

T. A. Snedden from J. B. Knaebel  
Exchange of Drill Hole Information  
August 10, 1964  
Page 2

The above statement of agreement regarding  
exchange of drill hole information is correct  
and is accepted by ASRCO.

---

T. A. Snedden, Manager of U. S. Mine  
American Smelting & Refining Company

BK/jm

DOMESTIC SERVICE	
Check the class of service desired; otherwise this message will be sent as a full rate telegram	
FULL RATE TELEGRAM	SERIAL
DAY LETTER	NIGHT LETTER

# WESTERN UNION

1206

INTERNATIONAL SERVICE	
Check the class of service desired; otherwise this message will be sent at the full rate	
FULL RATE	DEFERRED
CODE	NIGHT LETTER

W. P. MARSHALL, PRESIDENT

WDS.-CL. OF SVC.	PD. OR COLL.	CASH NO.	CHARGE TO THE ACCOUNT OF	TIME FILED

Send the following message, subject to the terms on back hereof, which are hereby agreed to

## CONFIRMATION TELEGRAM

July 16, 1964

K. E. RICHARD  
 AMERICAN SMELTING AND REFINING COMPANY  
 120 BROADWAY  
 NEW YORK, NEW YORK

RE YOUR TELEGRAM 15TH. ABANDONED WG GROUP RESTAKED THIS YEAR BY OTHERS. BOWDITCH NOW CHECKING OTHER LAND SOUTH AND EAST. WILL FORWARD CURRENT PROPERTY MAP WHEN COMPLETE.

SAEGART

Confirmation copies:  
 JHCourtright (Tucson)   
 LPentwistle  
 SIBowditch

J. H. C.  
 JUL 23 1964

# ALL MESSAGES TAKEN BY THIS COMPANY ARE SUBJECT TO THE FOLLOWING TERMS:

To guard against mistakes or delays, the sender of a message should order it repeated, that is, telegraphed back to the originating office for comparison. For this, one-half the un-repeated message rate is charged in addition. Unless otherwise indicated on its face, this is an un-repeated message and paid for as such. In consideration, warrant it is agreed between the sender of the message and this Company as follows:

1. The Company shall not be liable for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the un-repeated-message rate beyond the sum of five hundred dollars; nor for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the repeated-message rate beyond the sum of five thousand dollars, unless specially valued; nor in any case for delays arising from unavoidable interruption in the working of its lines.

2. In any event the Company shall not be liable for damages for mistakes or delays in the transmission or delivery, or for the non-delivery, of any message, whether caused by the negligence of its servants or otherwise, beyond the actual loss, not exceeding in any event the sum of five thousand dollars, at which amount the sender of each message represents the message is valued, unless a greater value is stated in writing by the sender thereof at the time the message is tendered for transmission, and unless the repeated-message rate is paid, agreed to be paid, and an additional charge equal to one-tenth of one percent of the amount by which such valuation shall exceed five thousand dollars.

3. The Company is hereby made the agent of the sender, without liability, to forward this message over the lines of any other company when necessary to reach its destination.

4. Except as otherwise indicated in connection with the listing of individual places in the filed tariffs of the Company, the amount paid for the transmission of a domestic telegram or an incoming cable or radio message covers its delivery within the following limits: In cities or towns of 5,000 or more inhabitants where the Company has an office which, as shown by the filed tariffs of the Company, is not operated through the agency of a railroad company, within two miles of any open main or branch office of the Company; in cities or towns of 5,000 or more inhabitants where, as shown by the filed tariffs of the Company, the telegraph service is performed through the agency of a railroad company, within one mile of the telegraph office; in cities or towns of less than 5,000 inhabitants in which an office of the Company is located, within one-half mile of the telegraph office. Beyond the limits above specified the Company does not undertake to make delivery, but will endeavor to arrange for delivery as the agent of the sender, with the understanding that the sender authorizes the collection of any additional charge from the addressee and agrees to pay such additional charge if it is not collected from the addressee. There will be no additional charge for deliveries made by telephone within the corporate limits of any city or town in which an office of the Company is located.

5. No responsibility attaches to this Company concerning messages until the same are accepted at one of its transmitting offices; and if a message is sent to such office by one of the Company's messengers, he acts for that purpose as the agent of the sender.

6. The Company will not be liable for damages or statutory penalties when the claim is not presented in writing to the Company, (a) within sixty days after the message is filed with the Company for transmission in the case of a message between points within the United States, except in the case of an intrastate message in Texas, or between a point in the United States on the one hand and a point in Alaska, Canada, Labrador, Mexico, Newfoundland and St. Pierre & Miquelon Islands on the other hand, or between a point in the United States and a ship at sea or in the air, (b) within 95 days after the cause of action, if any, shall have accrued in the case of an intrastate message in Texas, and (c) within 180 days after the message is filed with the Company for transmission in the case of a message between a point in the United States and a foreign or overseas point other than the points specified above in this paragraph; provided, however, that this condition shall not apply to claims for damages or overcharges within the purview of Section 415 of the Communications Act of 1934.

7. It is agreed that in any action by the Company to recover the tolls for any message or messages the prompt and correct transmission and delivery thereof shall be presumed, subject to rebuttal by competent evidence.

8. Special terms governing the transmission of messages according to their classes, as enumerated below, shall apply to messages in each of such respective classes in addition to all the foregoing terms.

9. No employee of the Company is authorized to vary the foregoing.

1-49

## CLASSES OF SERVICE

### DOMESTIC SERVICES

#### FULL RATE TELEGRAM

A full rate expedited service.

#### DAY LETTER (DL)

A deferred service at lower than the full rate.

#### SERIAL (SER)

Messages sent in sections during the same day.

#### NIGHT LETTER (NL)

Accepted up to 2 A. M. for delivery not earlier than the following morning at rates substantially lower than the full rate telegram or day letter rates.

### INTERNATIONAL SERVICES

#### FULL RATE (FR)

The standard fast service at full rates. May be written in any language that can be expressed in Roman letters, or in cipher.

#### CODE (CDE)

A fast message service consisting of code words not exceeding 5 letters each. Minimum charge for 5 words applies.

#### DEFERRED (LC)

Plain language messages, subordinated to full rate and code messages. Minimum charge for 5 words applies.

#### NIGHT LETTER (NLT)

Overnight plain language messages. Minimum charge for 25 words applies.

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

# WESTERN UNION

## TELEGRAM

W. P. MARSHALL, PRESIDENT

SF-1201 (4-60)

SYMBOLS

DL = Day Letter

NL = Night Letter

LT = International Letter Telegram

The filing time shown in the date line on domestic telegrams is LOCAL TIME at point of origin. Time of receipt is LOCAL TIME at point of destination

1049A PDT JUL 15 64 LB121

L CDV074 PD WUX CD NEW YORK NY 15 1151A EDT  
 W E SAEGART, AMERICAN SMELTING AND REFINING CO

813 VALLEY NATIONAL BLDG TUCSON ARIZ  
 MINING AUTHORIZATION FOR \$6000 CHOLLA FLAT DRILLING APPROVED  
 KEEP IN MIND IF DEEP ORE ENCOUNTERED WE PREPARED AUTHORIZE  
 MORE DRILLING WHAT IS CLAIM SITUATION TO EAST  
 KENYON RICHARD AMERICAN SMELTING & REFINING CO

(43).

J. H. C.

JUL 23 1964

W.E.S.  
 JUL 16 1964

K.V.D.S.  
 JUL 16 1964

MR. Kvds  
 READ AND RETURN \_\_\_\_\_  
 PREPARE ANSWERS \_\_\_\_\_ HANDLE \_\_\_\_\_  
 FILE  INITIALS W.E.S.

JHC Desk

J. H. C.

JUL 23 1964

July 15, 1964

Mr. W. J. Pilarski, Manager  
Joy Manufacturing Company  
Contract Drill Division  
900 Woodland Avenue  
Michigan City, Indiana

Dear Mr. Pilarski:

This will acknowledge your letter of July 2 offering Terms for drilling an assessment hole on our Cholla Flat Claims in the Pima Mining District, Pima County, Arizona.

You are authorized to drill this hole and ASARCO agrees to the prices and terms specified in your above acknowledged letter.

Copy of this letter to Mr. Eklund will request that the drilling be initiated as close to August 20 as possible but no later than August 25.

Very truly yours,

ORIGINAL SIGNED BY  
W. E. SAEGART

W. E. SAEGART

WES/jk

cc: Mr. Arthur Eklund  
RERichard  
JHCourtright  
LPentwistle  
JERinnison  
KvdSteinen

Blind note on all ASARCO copies:

Reproduction of Mr. Pilarski's letter of July 2 enclosed with all ASARCO copies.

AMERICAN SMELTING AND REFINING COMPANY  
Tucson Arizona

July 7, 1964

J. H. C.

SEP 14 1964

AIR MAIL - CONFIDENTIAL

Mr. K. E. Richard, Chief Geologist  
American Smelting and Refining Company  
120 Broadway  
New York, N. Y.

Cholla Flat  
Assessment Drilling

Dear Sir:

Enclosed is a copy of Joy's contract offer to drill the assessment hole on our Cholla Flat property in Pima County.

John Kinnison and I feel it would be desirable to determine the distribution of Banner's and subsequently Anaconda's drill hole locations before selecting the site for our assessment hole. In this connection, we might be able to take advantage of any mineralization trend suggested in the drilling pattern to the west.

We believe the best method of determining existing hole distribution, without implicating ourselves is through areal photography. I have asked Mr. Kinnison to get a cost estimate from Blanton and Cole of overlapping contact prints for a 5 to 6 square mile area. Upon receipt, the cost estimate will be forwarded to you. For the time being, we are assuming that the cost would be in the neighborhood of \$300.00 - \$350.00.

Do you approve of our obtaining areal photos of the Banner-Anaconda Twin Buttes property? If so, can this work be performed with general exploration funds? If we charge the photos against the requested drilling appropriation (Courtright's letter of June 29) we may have to sacrifice important drill footage.

Very truly yours,

ORIGINAL SIGNED BY  
W. E. SAEGART

W. E. SAEGART

WES/jk

Enclosure

cc: JHCourtright w/encl. (handwritten mark)  
LPentwistle) Circulate enclosure  
JEKinnison )

JOY MANUFACTURING COMPANY

500 WOODLAND AVENUE  
MICHIGAN CITY, INDIANA

J.H.S.  
JUL 6 1964

MR. L.P.R. J.L.R.  
READ AND RETURN Y  
PREPARE ANSWERS HANDLE  
FILE WES INITIALS WES

July 2, 1964

J.H.C.  
SEP 14 1964

Mr. J. H. Courtwright, Chief Geologist  
American Smelting & Refining Company  
813 Valley National Building  
Tucson, Arizona

Dear Mr. Courtwright:

This will acknowledge receipt of your letter dated June 29 with regard to drilling of one assessment hole on your Cholla Flat Claims, Twin Buttes, Arizona to a depth of 1100 or 1200 feet, and where we previously have drilled a similar hole in the fall of 1962.

We are agreeable to undertake the drilling of this one hole on the same basis as previous drilling, and which will be as follows:

Rock Bit Drilling

From 0 to 200 feet	@\$3.00 per ft.
From 200 to 400 feet	@\$3.50 per ft.
From 400 to 600 feet	@\$4.00 per ft.
From 600 to 800 feet	@\$4.75 per ft.
From 800 to 1000 feet	@\$5.50 per ft.
From 1000 to 1200 feet	@\$6.25 per ft.

Coring

From 0 to 500 feet
From 500 to 1000 feet
From 1000 to 1500 feet

NX Wireline

@\$5.95 ft.
@\$6.45 ft.
@\$7.20 ft.

BK Wireline

\$5.60 ft.
\$6.10 ft.
\$6.85 ft.

Reaming for casing

@\$3.00 ft.

\$2.75 ft.

Cementing hole

@\$10.00 per hr. plus  
cost of cement

Casing drill hole

@\$10.00 per hr.

Mud Mixing

@\$10.00 per hr.

Drilling mud and additives used up

At Cost

2 Am. Smelting & Re-  
fining Co.  
Mr. Courtwright

Owner to furnish access roads and core boxes.

Joy to furnish and haul water for drilling purposes.

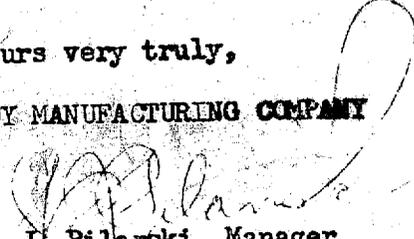
We will furnish for this proposed drilling one of our Joy 22-HD truck-mounted core drills complete with operating equipment, and will conduct the drilling operations on the basis of one or two 8-hour shifts per day and not less than six days per week.

We can arrange to start this work sometime between August 15 and 31; however, every effort will be made to start this work as early as possible. Arthur Ekklund, our Drill Supervisor at Tucson, Arizona, will give you sufficient notice as to when we are ready to move on this drilling project so that you can make your plans accordingly.

We appreciate this additional business, and desire to assure you that the work will be conducted and completed to your entire satisfaction.

Yours very truly,

JOY MANUFACTURING COMPANY

  
W. J. Pilarski, Manager  
Contract Drill Division

WJP/et

J. H. C.  
JUL 23 1964

June 30, 1964

AIR MAIL

Mr. W. E. Saegart  
American Smelting and Refining Company  
813 Valley National Building  
Tucson, Arizona

Cholla Flat Claims  
Pima County, Arizona

Dear Sir:

In view of Anaconda's activities in the Twin-Butes area, we should maintain those located mining claims which we still have at Cholla Flat. This work could involve resetting claim corners and digging assessment pits. However, for the cost of this we might drill one hole to advantage.

As I recall, these claims will become invalid September 1, this year. Therefore, will you please check into this with Mr. Kinnison and determine the best procedure for keeping these claims in good standing. As you know, toward the end of the assessment year a drill might be hard to obtain. When you have a program worked out and have estimated its cost, Mr. Pollock will obtain authorization for the amount.

Yours very truly,

Kenyon Richard

CC: JHCourtright ✓  
JEKinnison

*Cholla Flat*

June 29, 1964

Mr. W. J. Pillarski, Manager  
Contract Drill Division  
Joy Manufacturing Company  
300 Woodland Avenue  
Michigan City, Indiana

Dear Sir:

I have advised Art Ecklund by phone that we wish to drill an assessment hole on our Cholla Flat claims, east of Banner's Twin Butte claims. The location will be in the vicinity of the hole which you drilled there for us in 1962. This hole was drilled to 854', but the next hole we should like to drill to 1100' or 1200'.

Mr. Ecklund advised that he could have a rig available around the fifteenth of August, or at least be started drilling before the end of August and that, subject to your approval, the hole could be drilled under the previous terms set forth in your letter of August 6, 1962 to Kenyon Richard.

Please advise if this arrangement is acceptable.

Yours very truly,

Original signed by  
J. H. Courtright

J. H. COURTRIGHT

JHC/jk  
cc: AEcklund  
KERichard  
VESaegart

AMERICAN SMELTING AND REFINING COMPANY  
Tucson Arizona

June 29, 1964

Mr. K. E. Richard, Chief Geologist  
American Smelting and Refining Company  
120 Broadway  
New York, N. Y. 10005

CHOLLA FLAT  
APPROPRIATION REQUEST

Dear Sir:

In order to comply with assessment work requirements on the WG Group of 20 claims for this and the following year we must do \$4,000 worth of work extending over the first of September of this year.

These work requirements were fulfilled for the past two years by drilling hole No. CH-11 located on the common sideline of WG 29 and WG 31 about 675' west of the east endline. This hole encountered altered argillite bedrock at a depth of 726' and bottomed at 854' in altered monzonite porphyry. Both formations contained disseminated mineralization, but only a few hundredths of 1% copper.

Mr. Kinnison has suggested, and I agree, that the next hole should be put down deeper on the possibility that mineralized limestones might be encountered below if the porphyry is sill-like in shape. To reach a depth of, say 1100' or 1200', the cost would be somewhat greater than necessary to fulfill the work requirements but, in view of the fact that there is a possibility of finding ore grade talcite mineralization, the extra expenditure is believed warranted.

The cost of the previous hole amounted to about \$5 per foot (rotary drilling with a occasional core run), accordingly the cost of an 1100' hole would be approximately \$5,500. If you agree, please request an appropriation for the sum of \$6,000.

Yours very truly,

Original signed by  
J. H. Courtright

J. H. COURTRIGHT 

JHC/jk  
cc: MESaegart

J H C  
Desk

W.E.S.

JUL 16 1964

J.H.C.  
JUL 23 1964

June 15, 1964

STRAIGHT WIRE

Mr. W. E. Saegert  
American Smelting and Refining Company  
813 Valley National Building  
Tucson, Arizona

MINING AUTHORIZATION FOR \$6000. CHOLLA FLAT DRILLING APPROVED. KEEP IN MIND IF DEEP ORE ENCOUNTERED WE PREPARED AUTHORIZE MORE DRILLING. WHAT IS CLAIM SITUATION TO EAST.

Kenyon Richard  
American Smelting &  
Refining Company

CC-LPentwistle  
JHCourtright

File  
Send  
Confirm  
Accounting Department

JUL 16 1964  
JUL 23 1964  
JUL 16 1964  
JUL 23 1964

August 19, 1960

*Chalk + Tats*

Mr. Russell Todd  
Route 3, Box 735K  
Tucson, Arizona

Dear Russell:

There are some things about which we would like to talk with you in regard to the Sun claims. In hopes that you might be able to come into the office tomorrow morning, I have asked Mr. Wilson to deliver this note to you. In case you can't make it tomorrow, we would appreciate seeing you early next week.

In this latter case, I will be gone, but either Mr. Hall or Mr. Courtright will be available and acquainted with the situation. I suggest that you call either of them before you come in.

Yours very truly,

Original Signed by  
K. Richard

**KENYON RICHARD**

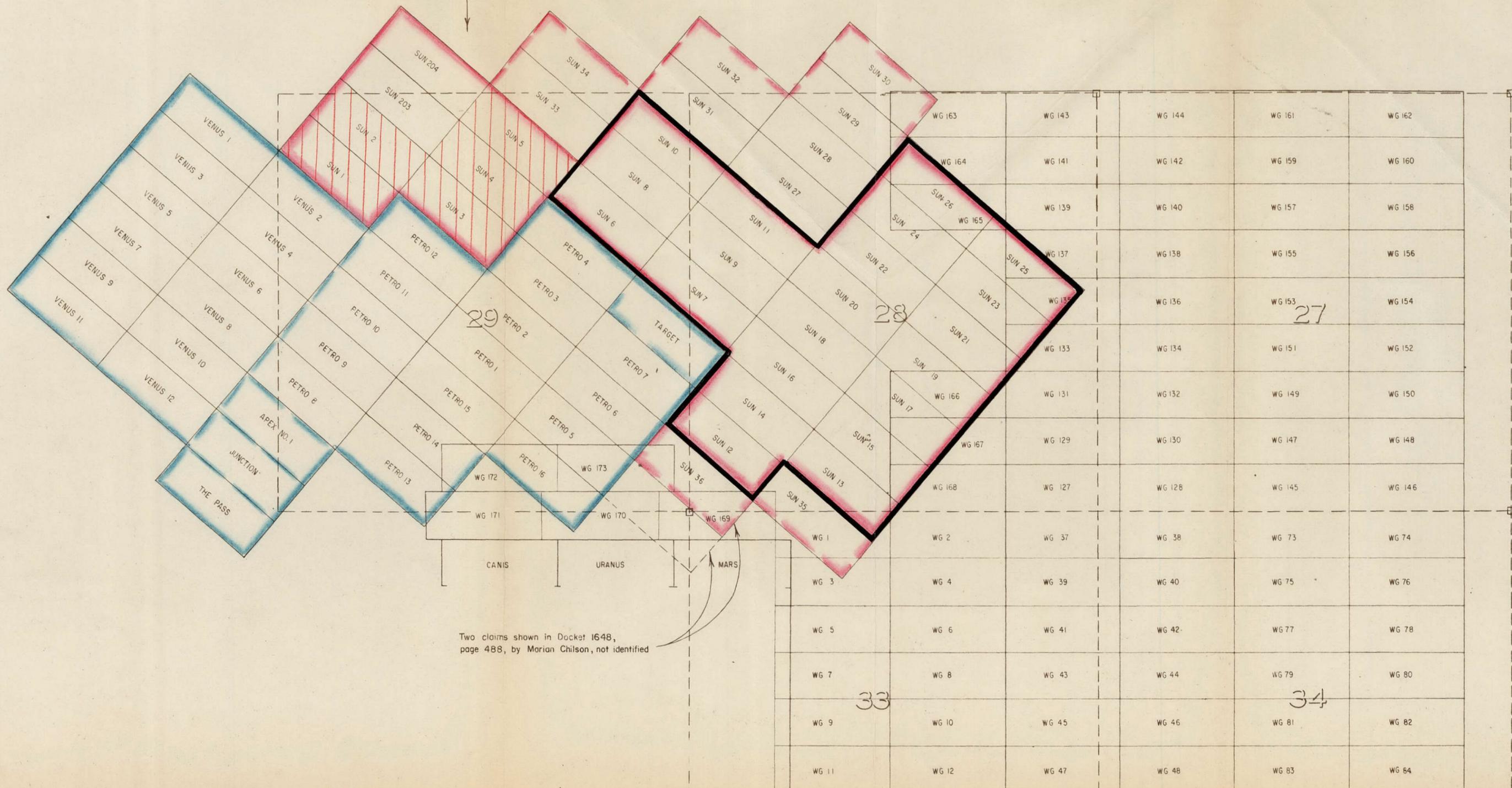
KR/as

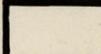
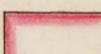
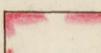
cc: ACHall

JHCourtright 

R 13 E

See Note re Mars Claim

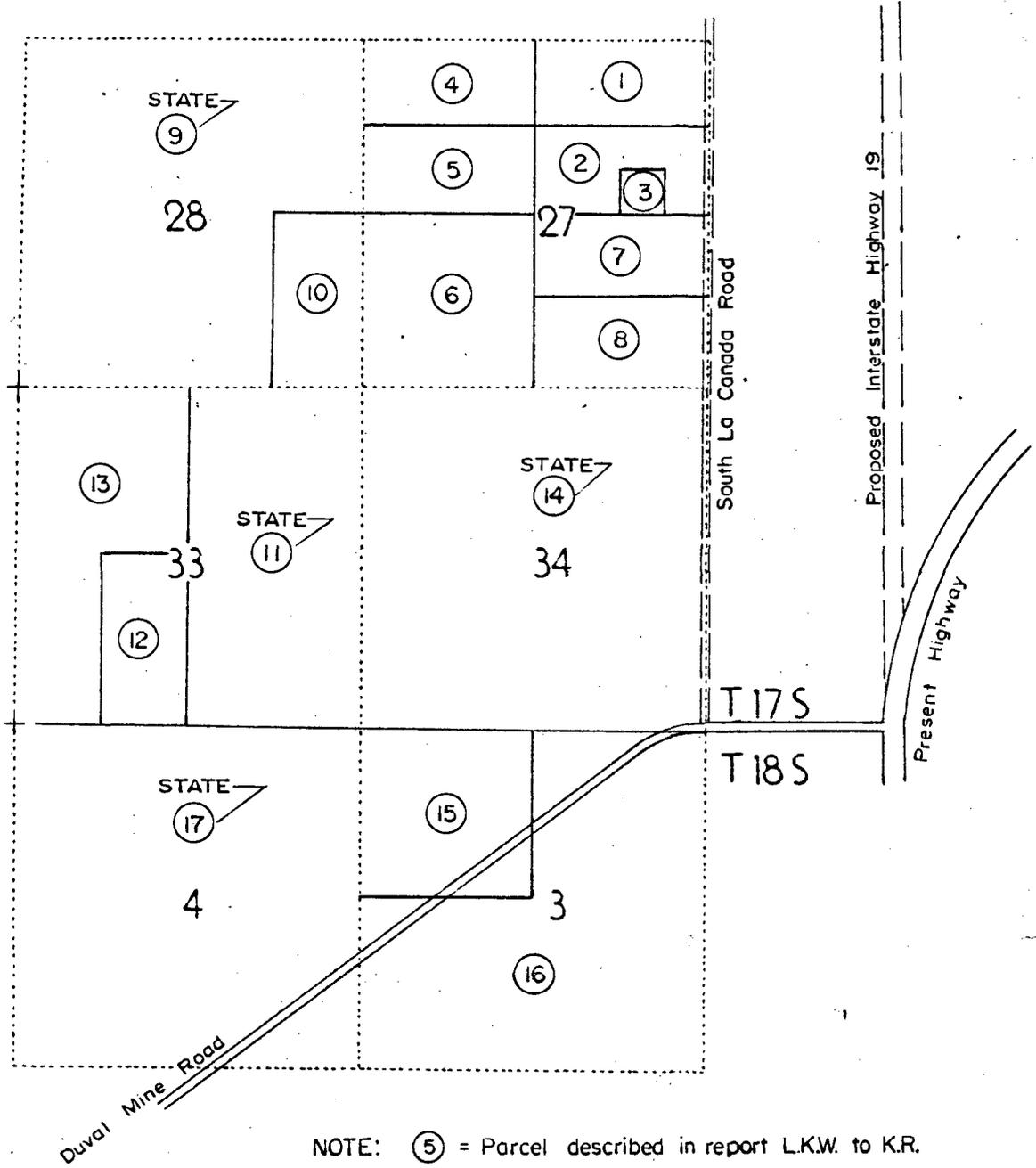


-  Claims located by D.G. Chilson in 1955, and Petro 1 and 2 located in 1945, covered by Affidavit of Labor September 30, 1959
-  East Petro claims located by D.G. Chilson October 15, 1955. No Affidavits of Labor recorded prior to August 2, 1960.
-  Sun claims located by Russell Todd April 24, 1960. Possibly no conflicts.
-  Sun claims located by Russell Todd May 11, 1960
-  Sun claims located by ASARCO.

**NOTE** One claim located by Chilson July 6, 1959, named "Mars" is identified only in "North half of Section 29". Not to be confused with Banner's Mars claim in NW corner of Section 33

**CHILSON AND TODD CLAIMS**  
**PIMA MINING DISTRICT**  
 Pima County, Arizona  
**SCALE 1"=1000'**

R13E



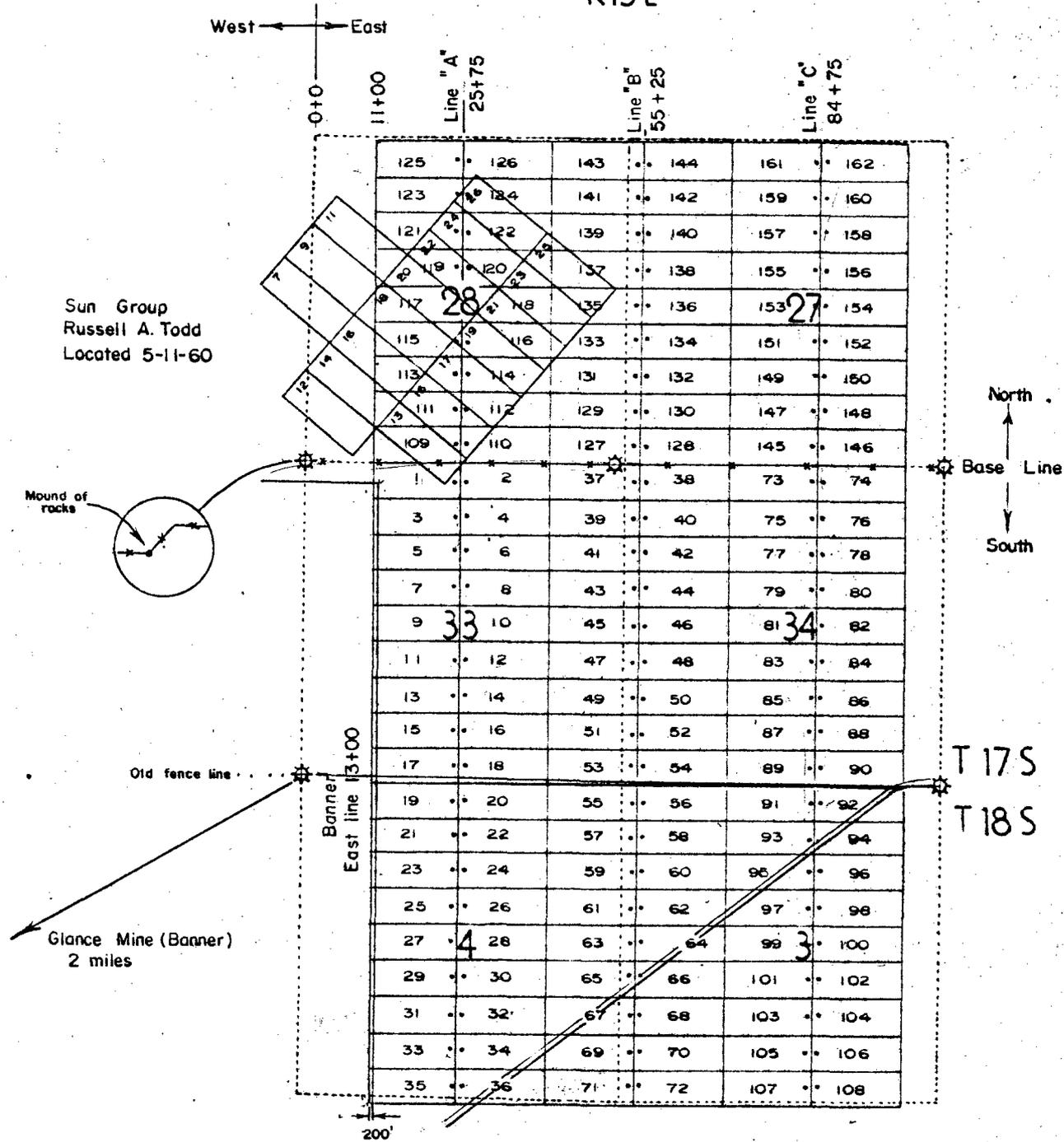
**CHOLLA FLATS PROSPECT**

Pima Mining District, Pima County, Arizona

**SURFACE OWNERSHIP**

Scale 1 inch = 1/2 mile

R13E



CHOLLA FLATS PROSPECT

Pima Mining District, Pima County, Arizona

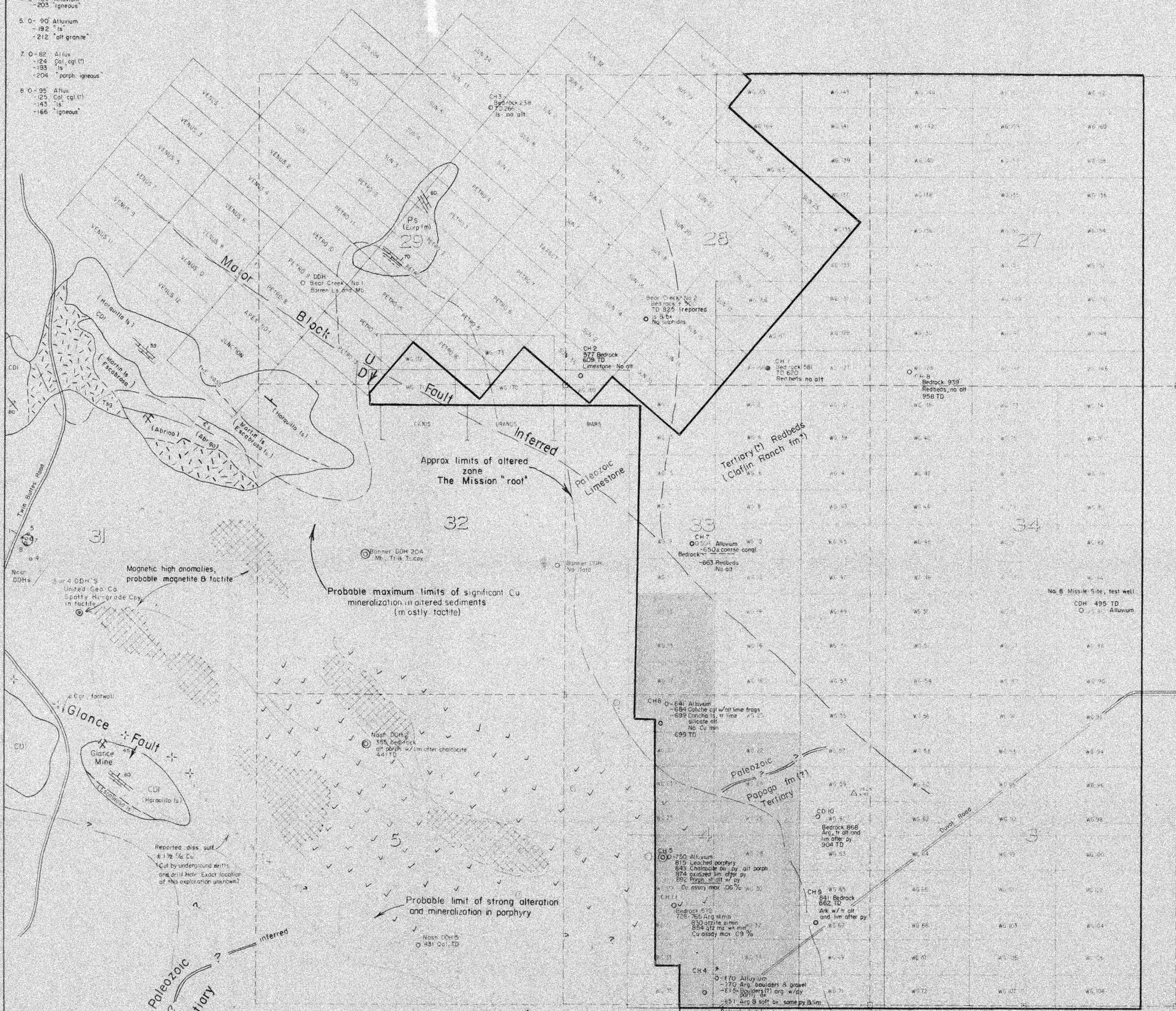
WG CLAIMS

Scale 1 inch = 1/2 mile

Nash DDHs near Twin Buttes Road

- 1 0-130 Alluvium  
-173 Ark. ls (gr B dip)  
(160-172 1% Cu ±)  
-230 Tsg (No exam by J.E.K.)
- 4 0-164 Alluvium  
-203 Igneous
- 5 0-90 Alluvium  
-192 "ls  
-212 "alt granite"
- 7 0-82 Alluv  
-124 Cal. cgl (T)  
-193 "ls  
-204 "porph. igneous"
- 8 0-95 Alluv  
-125 Cal. cgl (T)  
-143 "ls  
-166 "igneous"

R 13 E



- Claims located by D.G. Chilson in 1955, and Petro 1 and 2 located in 1945, covered by Affidavit of Labor September 30, 1959
- East Petro claims located by D.G. Chilson October 15, 1955. No Affidavits of Labor recorded prior to August 2, 1960
- Sun claims located by Russell Todd April 24, 1960. Presumably no conflicts
- Sun claims located by Russell Todd May 11, 1960. No conflicts on SUN 203 and SUN 204
- Sun claims located by ASARCO
- Ws claims located by ASARCO
- Banner Mining Company claims

- Permian Sediments  
Concha ls  
Scherrer fm  
Eorp fm
- Carboniferous & Devonian Sediments  
Horquilla ls  
Escabrosa ls  
Martin ls
- Cambrian Sediments  
Abrigo ls  
Bolsa quartzite
- Monzonite porphyry (Tertiary)
- Sierra granite (Tertiary)
- Mineral Hill granite (pre-Cambrian)

- Drill hole in mineralized rock
- Cored mineralized rock--may not be bedrock

**BEDROCK GEOLOGY**  
**CHOLLA FLAT PROSPECT**  
**PIMA MINING DISTRICT**  
 Pima County, Arizona  
 SCALE 1"=1000'

CLAIMS HELD BY OTHER COMPANIES

AMERICAN SMELTING AND REFINING COMPANY  
Tucson Arizona

June 30, 1960

Memorandum for:

Mr. Kenyon Richard

CHOLLA FLAT CLAIMS  
Pima County, Arizona

In keeping with your earlier request, and Mr. Courtright's in your absence, I prepared the enclosed draft of a proposed letter to be sent to the owners of surface rights on the above lands located by American Smelting. A letter along these lines appears to be advisable to inform landholders of our intention to explore for minerals below the surface they hold.

It was suggested that this or another format be cleared with local counsel and the matter was therefore discussed in Mr. Hall's office yesterday morning, with Mr. B. G. Thompson, Mr. Hall, you and I present.

At Mr. Thompson's request, I spent the afternoon in his office reviewing background matters which resulted in our arriving at the shorter of the two letters enclosed herewith. Mr. Thompson agreed with my recommendation that we should notify the surface owners, but it was his opinion that we should admit to obligations to pay them for certain damages that might result from our location work. Mr. Bilby, senior partner of the firm, was called into our discussion and Mr. Bilby agreed with my recommendation that no specific reference be made to any damages as such, at this time.

The attached letter was then dictated by Mr. Thompson with suggestions from Mr. Bilby and me, and as you of course know, this has now been mailed out to surface owners over Mr. Hall's signature. Mr. Hall asked me to verify the addresses and I confirmed that the coverage of surface ownership in the outgoing letters covers all of the surface owners which I have found of public record, the owners reported earlier in my memorandum to you June 16.

L. K. Wilson

LKW/z  
cc: CPPollock

DRAFT

Dear Mr. \_\_\_\_\_:

During the past week, as you may know, American Smelting and Refining Company has located mining claims in an area east of Twin Buttes, about four miles southwest of Sahuarita. It is our understanding that you hold certain surface rights in this area.

The mineral rights, as you no doubt know, are reserved to the United States Government and these rights and any deposits of minerals that might exist here are subject to disposal under provisions of the Federal mining laws.

We are taking this opportunity to assure you that it is our intention to exercise every care to respect the surface rights of the owner and his use of the land surface. We are aware that the law provides us with the right to enter upon these lands, to prospect for mineral deposits and, if such deposits should be discovered, the right to develop, mine and remove them. However, we are hoping that we, as holder of the mineral rights below the surface of your land, can arrange with you, as holder of the surface rights, an understanding of our responsibilities to each other.

Although our plans could change, it is our intention at the present time to complete the validation of the mining claims we now hold and to conduct geological and geophysical studies to determine if commercial mineral deposits might be present.

(Comment by LKW: I believe it might be better to postpone for verbal discussion the matter of access roads, the digging of discovery pits, any possible diamond drilling, the crossing of fences, possible damage to any permanent improvements or to grass, forage, or other grazing facilities. Other questions might arise, that I believe could better be discussed verbally, such as the fact that our exploration of mineral rights should not affect any sale or mortgage of the ground surface; reassurance that the property owner is protected by the usual State and Federal laws, City or County zoning, ordinances, etc.)

We would welcome an opportunity to have a representative of our Company call upon you. We are at your service, to answer any questions you may have, at our offices here in the Valley National Building or through our representative.

Yours sincerely,

---

LKW/z

DRAFT

June 29, 1960

Dear Mr. \_\_\_\_\_:

During the past week, as you may know, American Smelting and Refining Company has gone upon lands in the area east of Twin Buttes, about four miles southwest of Sahuarita for the purpose of acquiring mineral rights in this area, which mineral rights, as you no doubt know, were reserved to the United States Government and are subject to mineral entry.

It is our understanding that you hold certain surface rights on some of the lands which we have entered.

we are writing you so you may be advised of our purpose in entering upon the lands in this area and to assure you that we recognize your rights in connection with the land and will respect them.

Very truly yours,

Prepared by Mr. Bilby,

Mr. Thompson and L. K. Wilson

AMERICAN SMELTING AND REFINING COMPANY  
Tucson Arizona

June 28, 1960

MEMORANDUM FOR T. A. SNEDDEN  
and K. E. RICHARD

CHOLLA FLATS CLAIMS  
Pima County, Arizona

Enclosed herewith is a proposed draft of a letter to landholders in the subject area, to inform them of our intention to explore for minerals below the surface they hold.

L. E. WILSON

2 ex. cc.

LKW:8

cc: JHCourtright

File copy routed: ACHall  
JEKinnison

DRAFT

Mr. M. A. Landowner  
Tucson, Arizona

(Omit subject here)

Dear Mr. Landowner:

During the past week, as you may know, American Smelting and Refining Company has located mining claims in an area east of Twin Buttes, about four miles southwest of Sahuarita. ~~The area is described as Sections 27, 28, 29 and 34 in Township 17 South, Range 13 East, and Sections 3 and 4, Township 18 South, Range 13 East.~~ It is our understanding that you hold certain surface rights in this area.

The mineral rights, as you no doubt know, are reserved to the United States Government and these rights and any deposits of minerals that might exist here are subject to disposal under provisions of the Federal mining laws.

We are taking this opportunity to assure you that it is our intention to exercise every care to respect the surface rights of the owner and his use of the land surface. We are aware that the law provides us with the right to enter upon these lands, to prospect for mineral deposits and, if such deposits should be discovered, the right to develop, mine and remove them. However, we are hoping that we, as holder of the mineral rights below the surface of your land, can arrange with you, as holder of the surface rights, an understanding of our responsibilities to each other.

Although our plans could change, it is our intention at the present time to complete the validation of the mining claims we now hold and to conduct geological and geophysical studies to

*(Handwritten initials)*

determine if mineral deposits might be present.

(LKW comment: I believe it might be better to postpone for verbal discussion the matter of access roads, the digging of discovery pits, any possible diamond drilling, the crossing of fences, possible damage to any permanent improvements or to grass, forage, or other grazing facilities. Other questions might arise, that I believe could better be discussed verbally, such as the fact that our exploration of mineral rights should not affect any sale or mortgage of the ground surface; re-assurance that the property owner is protected by the usual State and Federal laws, City or County zoning, ordinances, etc.)

We would welcome an opportunity to have a representative of our Company call upon you. We are at your service, to answer any questions you may have, at our offices here in the Valley National Building or through our representative.

Yours sincerely,

T. A. SNEDDEN  
Manager

LSW:8

*Extra*

AMERICAN SMELTING AND REFINING COMPANY  
Tucson Arizona

June 16, 1960

MEMORANDUM FOR MR. KENTON RICHARD

CHOLLA FLAT PROSPECT  
PIMA Mining District  
PIMA County, Arizona

This will confirm my verbal report of June 9th on the status of surface and mineral rights in six square miles selected for location east of Twin Buttes. Records were verified for any changes to June 15, 1960.

MINERAL RIGHTS

All mineral rights were found reserved to the United States. Banner Mining Company holds valid mining claims along the western limits of the area ASARCO has covered but Banner's claims do not appear to encroach substantially upon our area of interest.

Mr. Kinnison found on the ground one group of recent locations that may number as many as 20 claims, located by Russell A. Todd under date of May 11, 1960. Todd's claims have not been recorded as of this date, but he, of course, has until August 10th to record and validate this group.

No other adverse claims to mineral rights were found of record. A group known as East Petros, originally located November 15, 1955 by D. G. Chilson in Section 28, are no longer valid.

SURFACE RIGHTS

Section 27, T17S, R13E

Surface ownership of Section 27 is divided into eight parcels numbered for the purpose of this report as shown on the attached map.

1. The north half of the northeast quarter, comprising 80 acres, is held under Contract of Sale by Milchester Realty Company, a New York corporation, under date of March 7, 1960, recorded in Docket 1582, page 410. The agreement is subject to a prior mortgage held by Montclair Investment Company, an Arizona corporation, recorded in Docket 1408, page 579, and also subject to Taylor Grazing Lease to Manerd and Alice Gayler, recorded in Docket 1437, page 450. The grazing lease remains in effect until a total purchase price of \$24,000 is paid in full (\$300 per acre).

Montclair Investment Company is composed of five men, four of whom are residents of Danville, Illinois, one

locally, Mr. Alfred F. Bross, resides in Tucson at 4603 Camino Escuela, phone East 6-5197. Milchester Realty Company may be reached through Arizona Land Title and Trust Company.

2. The south half of the northeast quarter, comprising 80 acres, is held under Contract of Sale by Phoenix Title and Trust Company, Trust No. RM 26577, under date of March 31, 1960, recorded in Docket 1585, page 51. The agreement is subject to the mortgage held by Montclair Investment Company and Taylor Grazing Lease issued to Gayler, as noted above.

3. Ten acres (10) of parcel 2 have already been conveyed by deed to Phoenix Title and Trust No. RM 26577. This may well represent a dedication for school site. Purchase price of the remaining 70 acres of parcel 2 appears to remain \$52000 (rated at \$650 per acre before removal of the 10 acre grant).

4. The north half of the northwest quarter, comprising 80 acres, is held under Contract of Sale by Maurice F. Smith, Incorporated, a Michigan corporation, under date of May 22, 1959, recorded in Docket 1493, Book 593; again subject to the Montclair mortgage and Gayler lease noted above. The total purchase price is given as \$24,000 (\$300 per acre), the seller Arizona Land Title and Trust No. 5580 T. Smith may be contacted in care of Arizona Land Title and Trust.

5. The south half of the northwest quarter, comprising 80 acres, is held under Contract of Sale by Mary F. McCaslin, from Arizona Land Title and Trust No. 5580 T, under date of May 15, 1959, recorded in Docket 1430, page 504. Subject to the Montclair mortgage and Gayler lease, the purchase price is given as \$24,000 (\$300 per acre). Contact Arizona Land Title and Trust.

6. The southwest quarter of Section 27, comprising 160 acres, is held by Arizona Land Title and Trust No. 5884 T, under Contract of Sale dated February 19, 1960, recorded in Docket 1565, page 207, and subject to Montclair mortgage and Gayler lease. The purchase price is \$44,000 (\$275 per acre).

7. The north half of the southeast quarter, comprising 80 acres, is held by David J. Spellman under Contract of Sale from Arizona Land Title and Trust, dated June 15, 1959, and recorded in Docket 1445, page 96, subject to the above mortgage and lease. The purchase price is \$24,000 (\$300 per acre).

8. The south half of the southeast quarter, comprising 80 acres, is held by Milchester Realty Corporation under Deed and Assignment from E. J. Davidson, dated March 8, 1960, recorded in Docket 1573, page 258. Purchase price is given as \$24,000 (\$300 per acre). Note that Milchester Realty also holds Parcel 1. Contact Arizona Land Title and Trust Company.

-----  
The total purchase price of the above Contracts of Sale on Section 27 add up to \$216,000.00.

The east side of Section 27 has been dedicated by Pima County as South La Canada Road parallel to the proposed freeway one-half mile to the east.

Section 28, T17S, R13E

9. With the exception of the east half of the southeast quarter, all of the surface of Section 28, is State Land under grazing lease to Manord Gayler until November 30, 1961. The lease is not recorded in Pima County, however.

10. The east half of the southeast quarter, embracing 80 acres, is held by Arizona Land Title and Trust No. 5932 T, under Contract of Sale dated March 18, 1960, recorded in Docket 1584, page 1. The agreement is subject to mortgage held by Montclair Investment Company of Arizona and calls for a purchase price of \$30,000 (\$375 per acre).

Section 33, T17S, R13E

11. The east half of the surface of Section 33 is State Land under grazing lease to J. and M. Kai, No. G-646, effective until May 11, 1963. The acreage was mortgaged by Tucson Title and Trust No. 10104 to Mount Fagan Ranch, Inc., on April 15, 1959, recorded in Docket 1487, page 24. The mortgage included adjoining Section 34 for a total of \$120,000. Mount Fagan Ranch, Inc. is composed of four men, of whom three reside in Toronto, Canada, and one of whom, Dan C. McKinney, realtor, is addressed in Tucson at 650 North Sixth Avenue, telephone Main 2-3577.

12. The east half of the southwest quarter, amounting to 80 acres, is held by Tucson Title and Trust No. 220421, as recorded in Docket 1589, page 582.

13. The west half of the southwest quarter, and the northwest quarter, comprising 240 acres, is held by Tucson Title and Trust No. 221084, recorded in Docket 1357, page 100.

All of the west half of the section appears to be priced at \$60,800 as of December 17, 1958 (\$199 per acre).

Section 34, T17S, R13E

14. All of the surface of Section 34, totalling 640 acres, is leased by the State under G-646 to J. and M. Kai until May 11, 1963, and mortgaged by Tucson Title and Trust No. 10104 to Mount Fagan Ranch, Inc., as recorded in Docket 1487, page 24, April 15, 1959. The mortgage includes the east half of Section 33 for a total of \$120,000. The east side of Sec. 34 has been dedicated by Pima County as South La Canada Road parallel to the proposed freeway one-half mile to the east.

Section 3, T16S, R13E

15. The surface of the northwest quarter of Section 3, amounting to 160.09 acres, is held by patent in the names of

Eileen T. Mravec, one-half interest; T. J. Cort, one-fourth interest; and Ada Cort, one-fourth interest, recorded in Docket 1060, pages 245-251. Taxes on the property are paid by T. J. Cort, a real estate operator of Tucson at 5983 East Edison Place.

16. The remainder of Section 3, comprising 479.51 acres, is owned by Delia F. Turner, daughter of Mary J. Finnerty, one-third interest; Margaret Finnerty, one-third interest; and Thomas J. Finnerty, one-third interest, recorded in Deeds of Real Estate 225, page 210 on December 18, 1939. There does not appear to be any change of ownership or encumbrances of record outside of the family interests. Contact Thomas J. Finnerty, 1718 Second Ave., Arcadia, California.

The new Duval Mine road crosses Section 3.

#### Section 4, T18S, R13E

17. All of the surface of Section 4, amounting to 640.86 acres, is state land under Grazing Lease No. 646, issued to J. and M. Kai until May 11, 1963; and mortgaged by Tucson Title and Trust No. 10104 to Mount Fagan Ranch, Inc., as recorded in Docket 1487, page 24. The mortgage, in the amount of \$120,000, includes our Section 34, and the east half of 33 in T17S, R13E. No other owners or encumbrances appear of record.

#### CONCLUSION

All of the land listed here involves surface rights separate and apart from mineral rights claimed by American Smelting and Refining Company. We are allowed by law to "prospect for minerals" on these lands but it is advisable that some form of agreement or understanding be reached with each of the principals listed here who is concerned with the use of the ground surface, preferably in the form of written consent. Surface owners may be concerned over our use of heavy vehicles, makeshift roads, possible interference with grazing and the like.

If an agreement cannot be reached with one who holds the surface in conflict with our mining locations, we can, if necessary, post a bond to the United States, through the Bureau of Land Management, to insure payment of any damages our work might incur. In such event, it is my understanding that we can "prospect" without incurring a trespass, but "mining operations" cannot be conducted until such a bond has been posted.

Most of this land is vacant at the present time, but it is evident from the present study of title status that real estate firms are speculating with future land values in this

area in proximity to the proposed new Tucson-Mogales freeway. We might consider the question of any liability for "damages" to this type of land values.

Very truly yours,

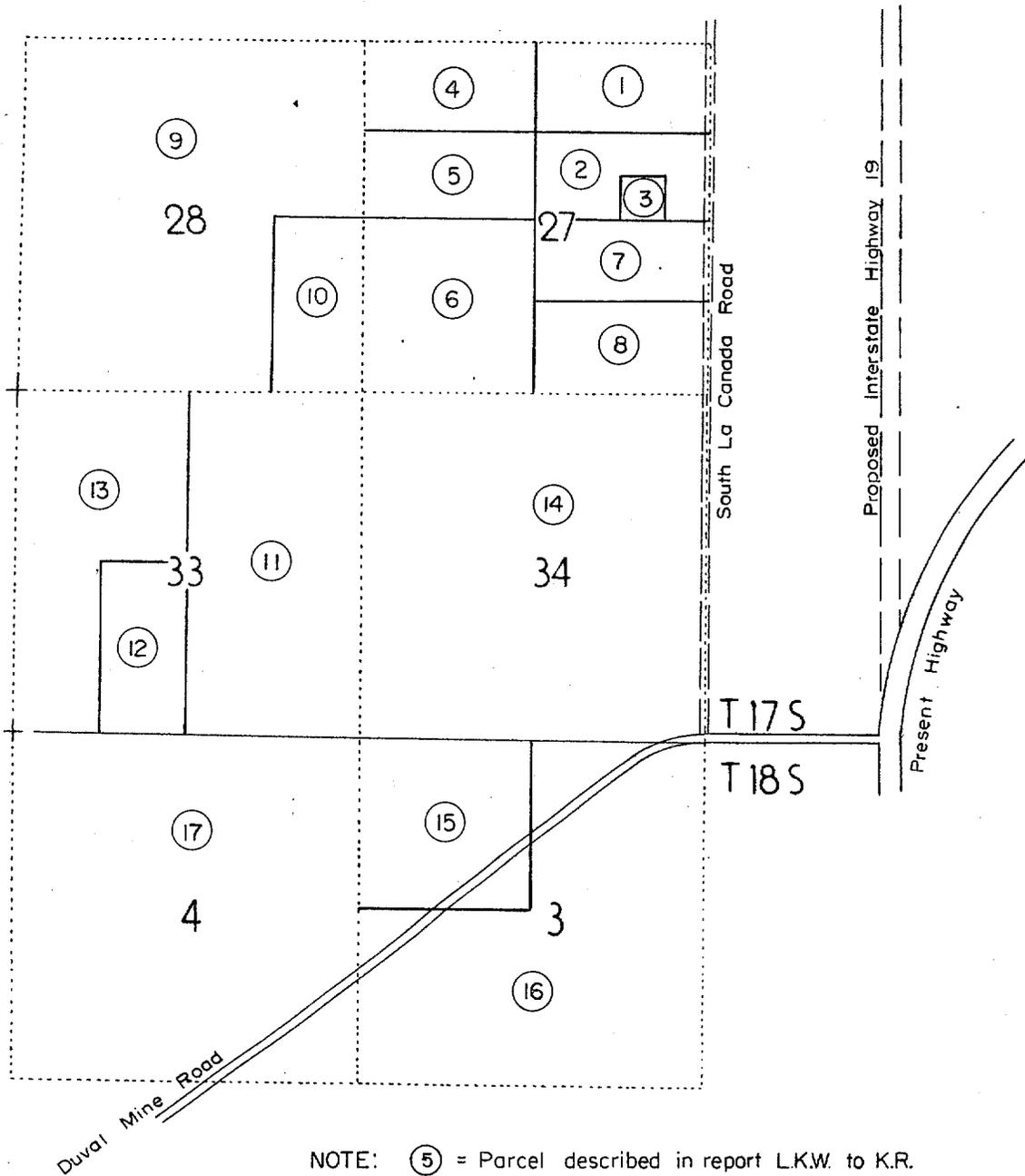
L. K. WILSON

LAW:S

cc: CFPollock  
RJLacy

file copy routed: TASNedden  
ACKhall  
JHCourtright

R13E

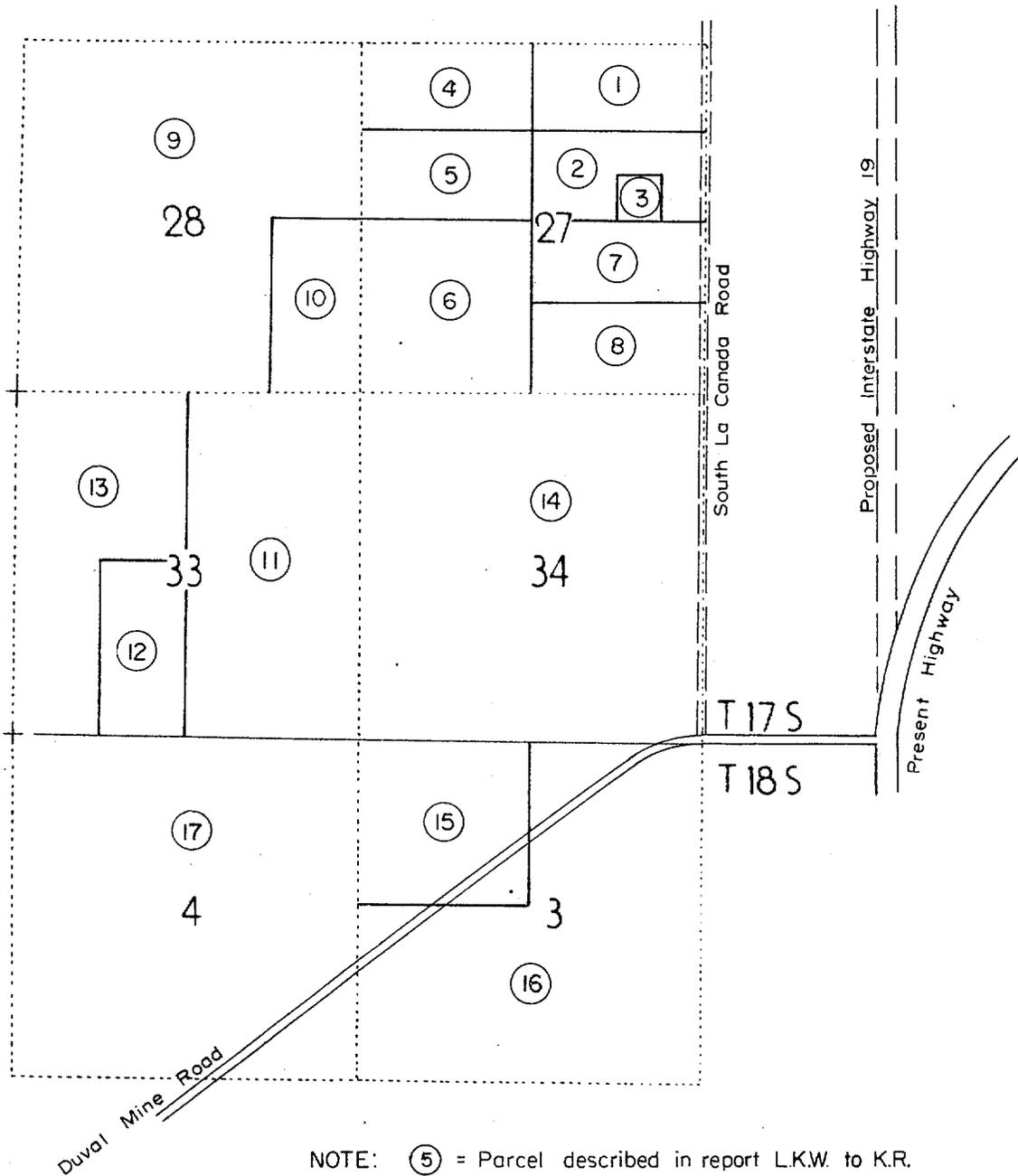


TO ACCOMPANY Memorandum  
DATED June 16, 1960  
BY L.K. Wilson

**CHOLLA FLATS PROSPECT**  
Pima Mining District, Pima County, Arizona  
**SURFACE OWNERSHIP**

Scale: 1 inch = 1/4 mile

R13E



### CHOLLA FLATS PROSPECT

Pima Mining District, Pima County, Arizona

### SURFACE OWNERSHIP

Scale: 1 inch = 1/2 mile