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SUMMARY REPORT

NEAR-SURFACE COPPER-MOLYBDENUM SULFIDE MINERALIZATION AT COPPER CREEK

including

Mineral Reserve Calculations

A.J. Perry
R.B. Blakestad
Perry, Knox, Kaufman, Inc.

March, 1975

CONTENTS

FIGURES

PURPOSE

SW 70 Participants have been engaged in exploration at Copper Creek since 1970.

The purpose of this report is four fold: (1) to summarize briefly the results of recent shallow rotary-percussion drilling at that location, (2) to calculate a reserve of near surface mineralization after combining recent results with data from previous area exploration, (3) to comment on the possible economics of exploitation of the reserve and (4) to speculate briefly on possible remaining deeper copper potential -- making suggestions as to "farmout possibilities".

SUMMARY AND CONCLUSIONS

Recent rotary-percussion drilling conducted at Copper Creek verified the presence of two near surface bodies of sulfide copper and molybdenum. Our rough calculations show a reserve of +20,000,000 tons of material at a grade of 0.42% Cu eq. The waste to ore ratio is .92:1.

Assuming a 5000 tpd open pit operation, a conventional sulfide concentrator and a 65¢ NSR copper price, $87.4 million would be generated over a 12 year operational life.

An increase of 20¢ in copper price would raise total revenues by 23.5% but the average ROI would be elevated to only 11.6%. Other indicators are also unfavorable.

Additional exploration might add reserves to those calculated but it is doubtful that the increase would equal 20% of the copper now outlined. An increase in grade should not be expected.

It is concluded that supergene copper reserves at Copper Creek are unlikely to sustain an economic operation in the foreseeable future.

Additional deeper tests for primary copper-molybdenum sulfides appear warranted.

RECOMMENDATION

It is recommended that ERC maintain their current mineral interests at Copper Creek (including the Gillings and Trust 60 optioned lands) for a period of 60 days. During this time an attempt should be made to interest the several parties who have inquired as to the availability of these lands for exploration, and others, in undertaking further exploration. The best arrangement would appear to be one where ERC-PKK would have an opportunity to "back in" after expenditures to date had been equalled.

LOCATION

ERC-PKK Copper Creek properties, held under terms of the SW 70 Agreement, are situated in Secs. 23, 24, 25 and 26, T12½N - R3W, Yavapai County, Arizona. Copper Creek (Little Copper Creek) is located in an area of rugged low hills just south of Hwy 89 about 12 road miles SW of Prescott, and 3½-4 miles SE of Phelps Dodge's Copper Basin copper deposit. All Project lands are within the Prescott National Forest. See the following portion of the Kirkland Quad (Figure 4) for location.

BACKGROUND

The presence of multiple intrusives of Laramide age at Copper Creek with attendant breccias, pervasive alteration and disseminated copper-molybdenum mineralization has long been recognized. However, the absence of strong "live limonite" indicating substantial enrichment was responsible for the lack of meaningful exploration until Phelps Dodge drilled several core holes in about 1963-64. There followed a period of occasional occupancy and geologic work by several groups but no additional drilling was done until 1970-71 when two groups, SW 70 participants (then ERC, Day Mines and PKK) and Norandex, Inc. - Sierra Mineral Management (SMM) simultaneously occupied lands covering the indicated pervasive mineralization.

The Norandex - SMM group subsequently abandoned their efforts. SW 70 optioned their lands to Essex International in the fall of 1973. Essex drilled 9 shallow holes in search of supergene ores and promptly terminated the agreement. In March, 1974, SW 70 optioned most of the land formerly held by Norandex (Trust 60 Properties).

In August, 1974, J.N. Swinderman of ERC proposed additional exploration at Copper Creek, for both supergene ores and for the deeper sulfide potential. ERC management approved the shallow drilling project. Day Mines, a 50% financial participant in SW 70, withdrew from the Project at that time.

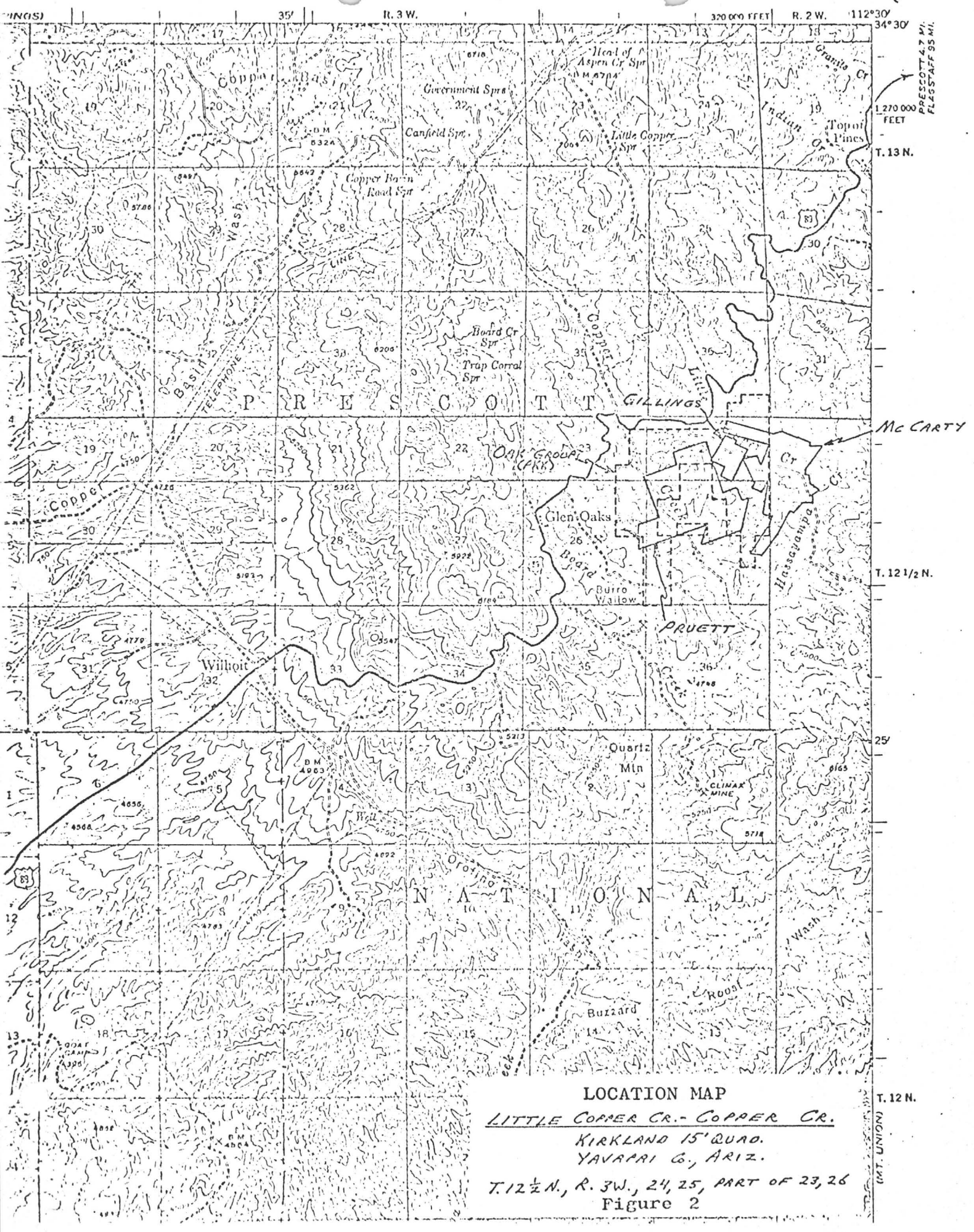
Exploration for additional chalcocite ores, the principal subject of this report, commenced December, 1974.

RECENT SHALLOW ROTARY PERCUSSION DRILLING

The recent rotary percussion drilling was undertaken at Copper Creek to further test areas designated by Swinderman as potential enriched areas amenable to open pit mining (North and South areas of Figure 1). The CC74 series holes of that Figure are the result of that drilling.

STATES
AGRICULTURE
ERVICE

KIRKLAND QUADRANGLE
ARIZONA-YAVAPAI CO.
15 MINUTE SE[illegible]S (TOPOGRAPHIC)



LOCATION MAP

LITTLE COPPER CR.- COPPER CR.

KIRKLAND 15' QUAD.
YAVAPAI Co., ARIZ.

T. 12½ N., R. 3W., 24, 25, PART OF 23, 26

Figure 2

A total of 2929 feet was drilled (including minor coring) in 12 holes. Abbreviated descriptive logs, simple geologic strip logs, a tabulation of assays, and a description of sampling procedures (all for CC74 series drilling) are appended.

The recent drilling has established that a small reserve of low grade supergene copper mineralization with some by-product molybdenum, all amenable to conventional flotation, is present near surface in two areas on the properties currently held by ERC-PKK.

Discussions as to the character of the mineralization, alteration, limitations of available data, and an "ore" reserve calculation as well as some comments on potential economics follow.

CHARACTER OF THE MINERALIZATION AND ALTERATION

Practically all pre-mineral rocks intersected by the rotary-percussion drilling are quartz-rich (Qmp-qlp-etc.) and low in total sulfides -- generally 1-3% or less.

Pyrite is the predominate sulfide. There are, in order of decreasing abundance, lesser amounts of chalcocite, chalcopyrite, molybdenite and covellite. Bornite is occasionally present.

The principal copper minerals are chalcocite and chalcopyrite. The former occurs as coatings on pyrite and chalcopyrite, both of which occur primarily as discrete disseminations -- with only minor amounts being found as veinlets or fracture coatings. MoS_2 also occurs primarily as discrete flakes either in silicified country rock or along quartz vein selveges. There is no direct relationship between the better MoS_2 sections and the better copper intervals (see assay tabulation, appendix).

The supergene copper mineralization appears to have little relationship to any particular pre-ore Laramide rocks tested by this drilling -- the degree of chalcocite development being largely a function of the amount of chalcopyrite originally present -- and that in turn having been determined by proximity to available copper bearing solutions (centers of mineralization, more well broken areas, etc.).

Reference to the strip logs, cross sections and assay tabulations attached will show that the downward sequence of mineralization is normally leached capping, chalcocite zone and primary mineralization, in holes drilled from topographic prominences. Holes collared in gulch bottoms generally show sulfides almost immediately -- with only minor oxides being present. Oxide grades in the better mineralized areas are generally .01-.03% Cu grading rapidly upward as chalcocite-coated sulfides are encountered.

Chalcocite, when present, is generally low-grade -- with individual 2½' or 5' assays rarely exceeding 0.50% Cu. The highest copper assay recorded was in CC74-3 (70-75' = 1.09% Cu) - primarily a chalcocite section.

Sulfide grades of 0.10-0.15% Cu are often found below good chalcocite. Lesser protore grades are common outside the principal areas of mineralization.

Silver commonly reported to assay in amounts between .02-.08 oz/T, and occasionally exceeded .10 oz/T. The specific silver mineralogy is not known but we presume the silver is tied to some of the copper minerals. However, there is no direct relationship between the higher copper intervals and high silver. Essentially no gold has been reported from the few assays collected from previous drilling at Copper Creek.

Qualitative spectrographic analyses of three samples from CC74 series cuttings showed no other elements reporting in amounts suggesting their possible economic interest.

Chalcocite Mineralization

Karvinen of Norandex, Briscoe of Sierra Mineral Management, J. Swinderman of ERC, and, in recent months, this author believed that evidence from "live limonite" capping and drill hole analyses available suggested that enriched ores (a chalcocite blanket) of economic interest might be available on ERC-PKK properties at Copper Creek. Results of recent drilling combined with previous exploration results has made possible the reserve calculation of this report.

"Live limonite" is present in discontinuous patches in the area of our recent drilling in Secs. 24 and 25 (North and South areas of Figure 1, attached) and locally elsewhere on the property. The favorable limonite colors are intermixed with those suggesting 1-5% pyrite. Some minor pitch after chalcopyrite is also occasionally observed. Turquoise is present here and there in thin (< ½" thick) stringers and blebs. Ferrimolybdite is suggested by occasional pale yellow colorations, especially in well-silicified and veined areas, where limonite after pyrite does not obscure the delicate yellow ochre.

Alteration

Reference to the abbreviated descriptive logs of CC74 series holes (Appendix) will show propylitization and silicification as being the dominant alteration types encountered. Some secondary biotite was identified. Minor K-spar development was logged. Sericite and argillite is probably generally more well-developed than recognized in our hand lens/binocular

microscope examination of wet CC74 series cuttings.

Silicification is particularly well-developed in the North Area -- perhaps to the extent of making a substantial difference in any anticipated excavation.

The obvious overlapping ("telescoping") of alteration types was early recognized by Sayers of PKK and supported by the limited petrographic work accomplished.

RESERVE SUMMARY

Reserves of copper/molybdenum-bearing material available in the two areas outlined as North and South areas on Figures 2 and 3, using a 0.25% Cu eq. exterior cutoff (0.20% Cu eq. interior cutoff) are as follows:

North Area - 12,993,280 tons - 0.428 Cu eq.

South Area - 8,371,520 tons - 0.410 Cu eq.

Grand Total- 21,364,800 tons - 0.42 Cu eq.

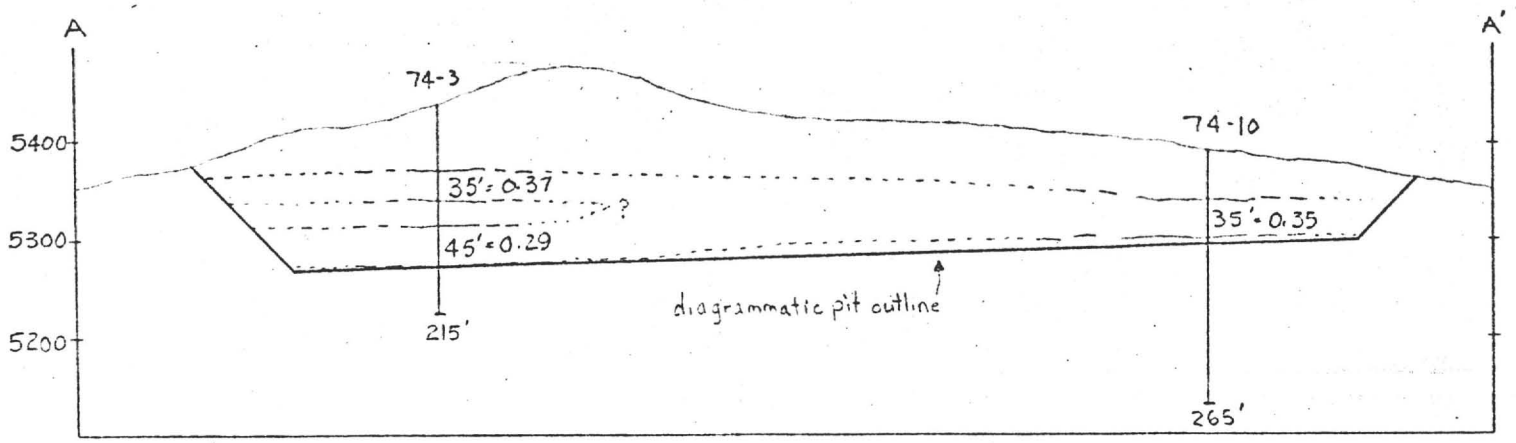
Total waste measured, both areas, was 19,587,424 tons, resulting in a waste (all categories) to ore ratio of 0.92:1.

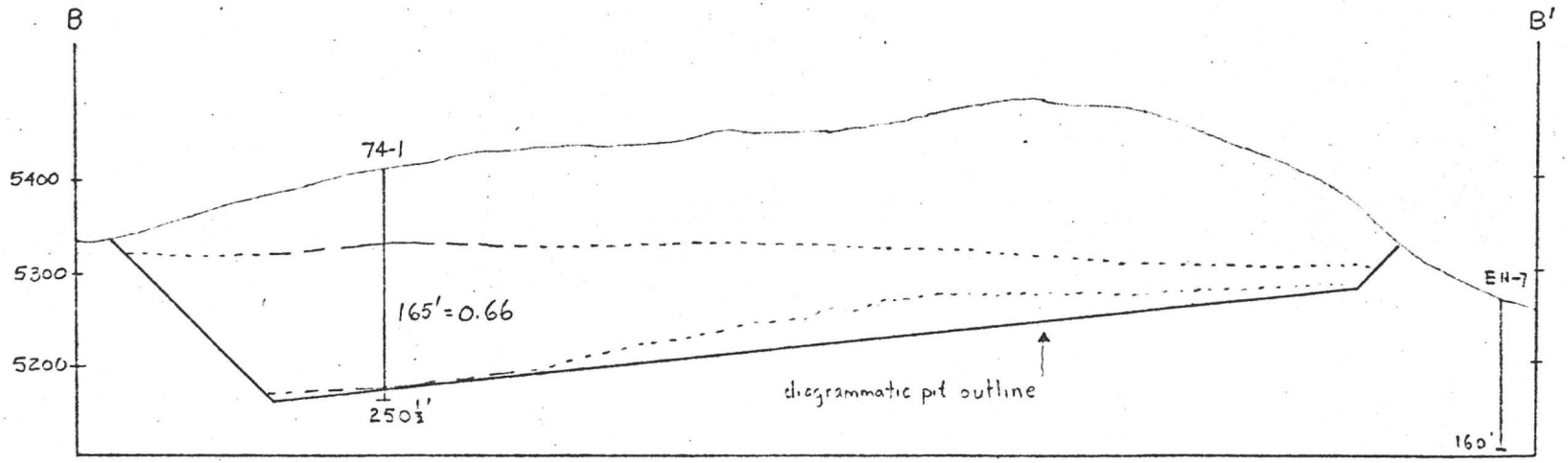
You are referred to the appendix for the detail and further summary of the reserve and waste calculations.

OREBODY CONFIGURATIONS

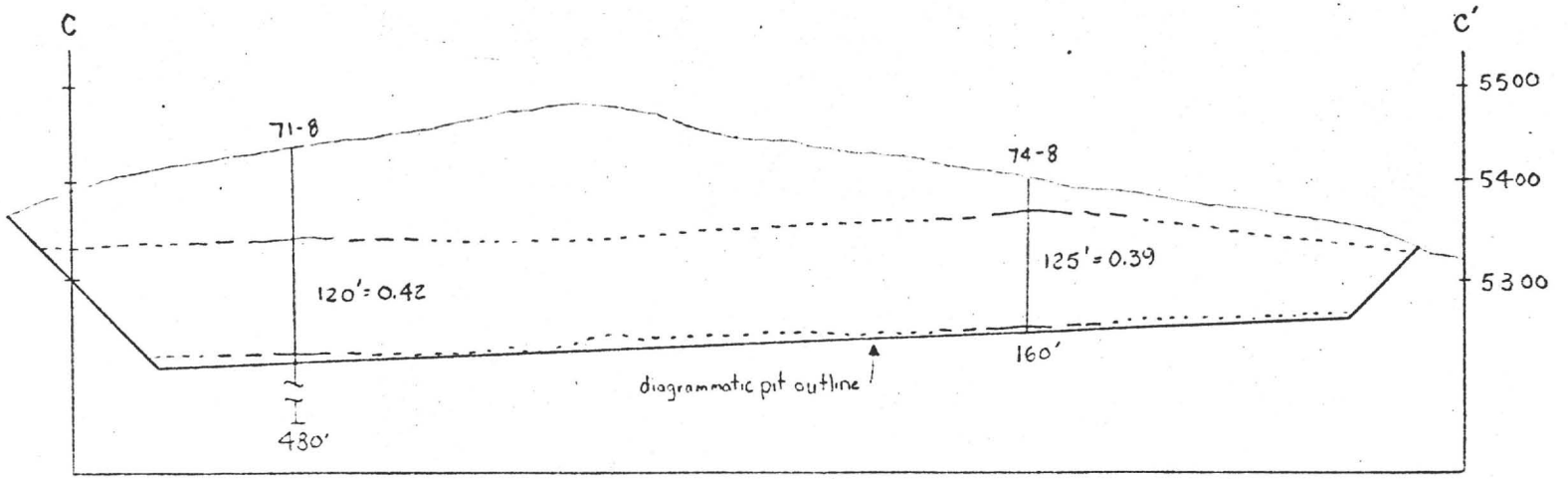
Figure 2, used as an overlay to Figure 1, will show that the North Area "orebody" has dimensions of approximately 1800' X 1100'. Ore thicknesses vary from 10 to 185 feet. Sections A, B, C and D show that the ore is generally flat lying and irregularly tabular, with a slight westerly dip. The ore (using a 0.25% Cu eq. cutoff) tends to be thicker on the west side of the body. There is a tendency for the better zone to drape downward with decreased surface elevations. Chalcocite was measured in the top of DDH CC-4 located just outside the west edge of North Area oreblock (but inside the proposed pit), illustrating that chalcocite can extend beneath valley bottoms, though this may be an exception.

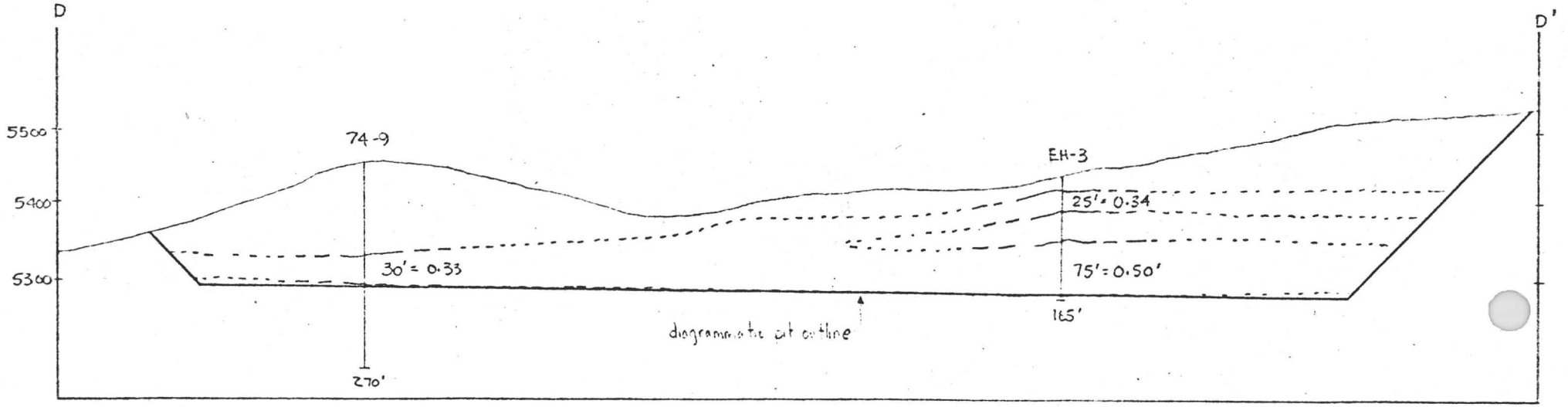
The South Area (use overlay, Figure 3) is an irregular ellipse measuring approximately 1600' X 700' in plan. Ore thicknesses vary from 35 to 160 feet. Sections E, F, G and H illustrate interpreted ore configurations. A particularly good thickness of chalcocite is measured in HA-6, which was collared on a topographic prominence.





INTERPRETIVE CROSS SECTIONS
NORTH AREA
Figure 5

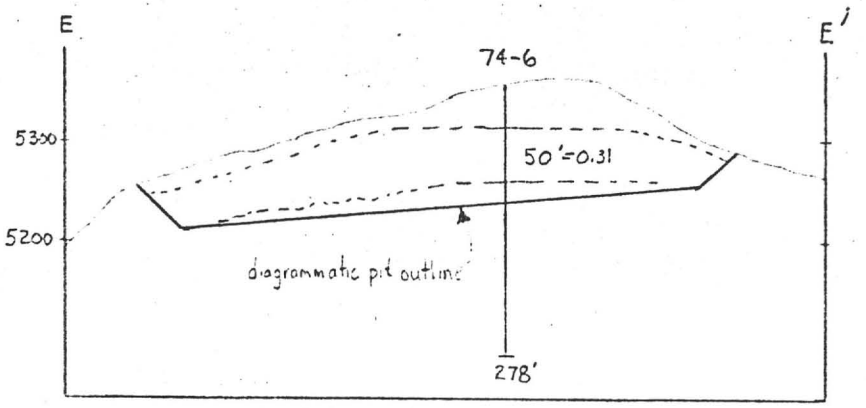


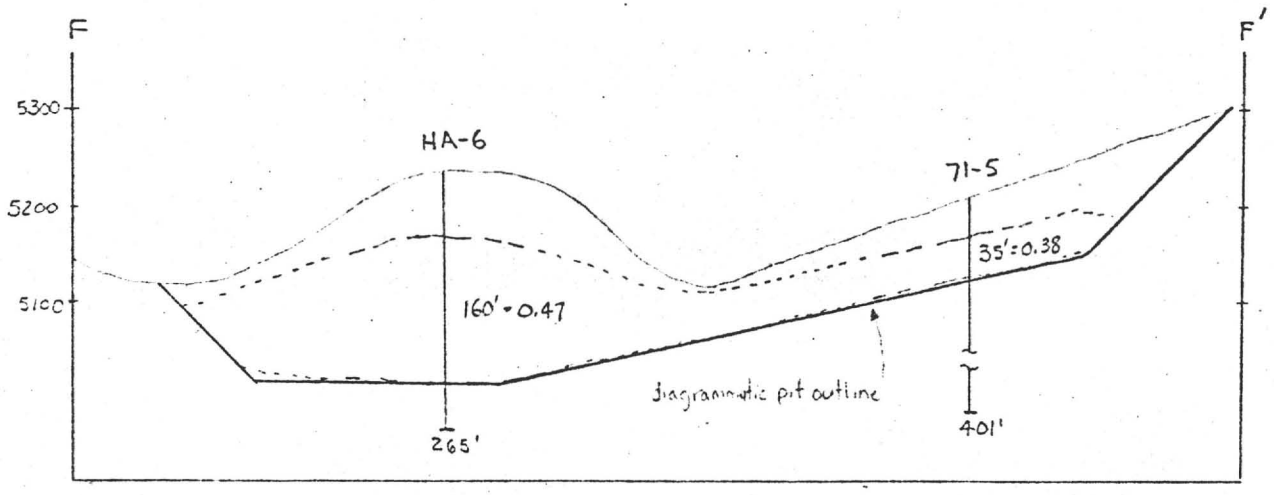


INTERPRETIVE CROSS SECTIONS

NORTH AREA

Figure 6

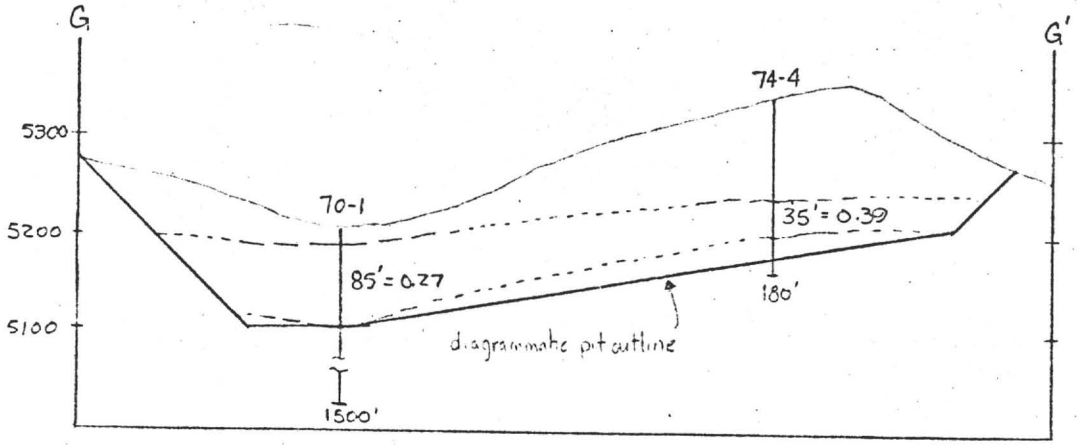


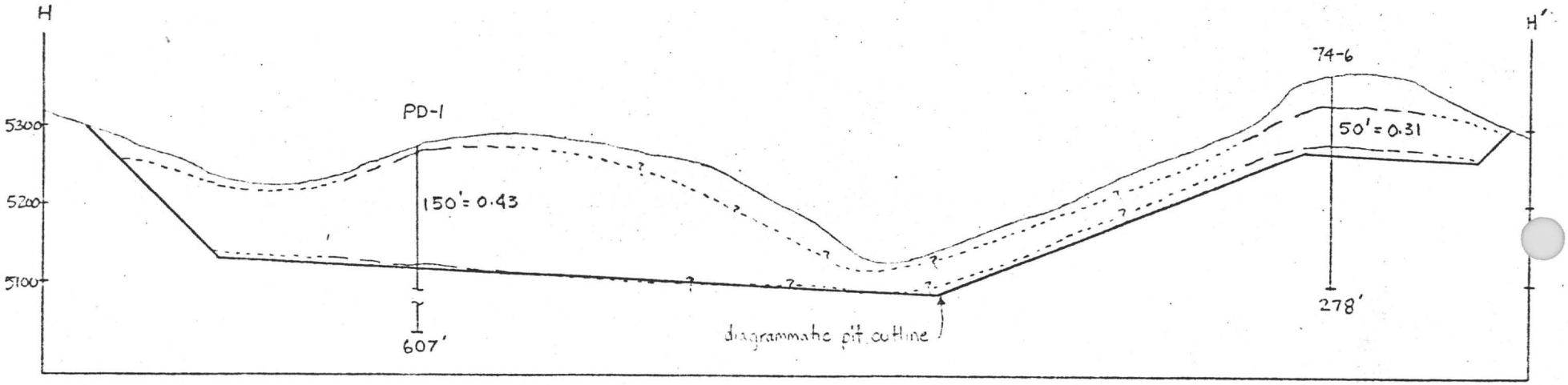


INTERPRETIVE CROSS SECTIONS

SOUTH AREA

Figure 7





INTERPRETIVE CROSS SECTIONS

SOUTH AREA

Figure 8

RESERVE CALCULATION PROCEDURES

Cut-off grades for ore block limits and interior ore of 0.25% Cu eq. and 0.20% Cu eq., respectively, were established by accepted methods -- considering a metals market price of 68¢/#Cu. Modifications of costs (milling overhead and other costs upward) after commencement of the calculation resulted in increasing the copper price to fit the case for report purposes. The final NSR price used for economic considerations was 65¢/#Cu.

Reference to Figures 2 and 3 (attached) will show the distribution of drill holes within "orebody" limits in both the North and South areas to be irregular. A cross section calculation scheme was studied and rejected in favor of a polygonal system using lines connecting midpoints between adjacent holes, modified for terrain and geology. Several cross sections, Figures 5 thru 8 are provided to show suggested ore continuity.

In general, orebody perimeter limits were extended 150 feet or less beyond the outermost hole considered for pit incorporation. Exceptions were made, as in the case of CC-3 in the North Area, where topography and an unusual ore thickness dictated an outward extension. Hole PD-2 (South Area) was rejected from ore calculation.

Polygon areas were each planimetered 4 times and averaged. The thickness of ore and overburden for each polygon was extended over the block from the controlling hole for calculation purposes. A 12.5 Cu ft/ton factor was used in the tonnage determinations.

Pit walls were sloped at -45° from ore limits. By use of cross sections, the surface orebody limit was projected vertically downward to the elevation of the bottom of ore (with some modification for chalcocite zone draping) and a +45° line extended outward from that point to surface. Volumes of pit layback material were calculated using an arithmetic average of cross sectional areas and a planimetered surface area.

Tables of tonnage and overburden calculations are appended.

EVALUATION-DATA LIMITATION

Considering the purpose/sensitivity of this evaluation there appears to be one substantial limitation to data used for reserve calculations. That is the combining of analyses from several sources -- each of a different reliability. Four Phelps Dodge holes (PD series) and those of Norandex (HA, 70 and 71 series holes) analyses were collected by Swinderman

of ERC from Sierra Minerals graphic assay representations. Essex (EH series) holes were rotary holes with analyses by Iron King. Check assays of select rejected cuttings indicated these analyses were reliable. Molybdenite analyses for many of the substantial copper intercepts in these holes are not available.

Portions of CC74 holes (those of ERC's recent drilling) were analyzed for total copper by Hawley and Hawley; other intervals by ERC. There was generally good agreement. ERC analyzed for copper oxide and molybdenum as well. Checks for moly by Rocky Mtn. Geochem-Tucson indicated ERC's reports of molybdenum were on an average 20% high. All ERC Mo analyses have been subsequently reduced before being incorporated on Figure 1 and in reserve calculations. All assays from CC74 series drilling are tabulated in the Appendix, as reported, without any modification.

METALLURGICAL CONSIDERATIONS

Sulfide Flotation

Hazen Research, Inc., of Golden is conducting preliminary flotation tests on a composite of cuttings from some of the better-grade recent CC74 series holes intersections. Only very preliminary results are now available. They are somewhat encouraging.

Ralph Light, Hazen VP, reports by phone that using a 0.41% Cu head sample and a grind, allowing 70-80% to pass -200 mesh, about 80% of the total copper available (includes both sulfide and the minor oxide present) is recovered in an unwashed rougher bulk sulfide concentrate. About 90% of the total sulfide copper is being recovered. The bulk concentrate assays about 5% Cu and 0.4% Mo.

Some preliminary Hazen remarks suggested anticipated difficulty with copper sulfide - molybdenite separation.

Leaching Possibilities

The Hassayampa Project Report of Sierra emphasizes their approach to the near-surface Copper Creek reserves as a "leachable" blanket. Support for this thesis came from consultants J. Still and Dave Lowell.

Using the better sections of CC74 series holes for which there are copper oxide assays (ERC Lab), the arithmetic average of CuOx to total copper shows that an average of 13½% of the total copper measured reports as oxide copper. This varies from 3% (CC74-1; 168-248') to 35% in CC74-11; 20-30').

Hawley and Hawley, Tucson assayers, upon instructions to determine the amount of readily leachable copper - not necessarily just copper in oxide form -- measured 59% and 66% of the contained copper as leachable -- but leachable only in a very controlled environment: in the case of the 66% soluble copper, only after a 5% H_2So_4 solution was brought to a boil for 2 minutes (see attached certificate of analysis - Appendix)

In summary, less than 15% of the total copper available in the near-surface mineralized sections tested at Copper Creek reports as oxide copper which would be readily available for leaching. This amount is insufficient to consider recovering either on: (1) a strictly leach ore basis or (2) leaching in combination with sulfide flotation.

Only conventional flotation of a copper and a molybdenum sulfide concentrate are considered in this summary.

MINING CONSIDERATIONS

Substantial portions of the waste and ore from both North and South area model pits would be removed from above the current topographic base levels if mining were undertaken.

Lands in addition to these currently held would be necessary for some waste disposal and for plant site and tailings impoundment.

Rocks at Copper Creek are of a normal porphyry type, locally well fractured, but hard. Drilling and blasting will be necessary from the onset of stripping. Considering the small working areas and the normal demands of flexibility of a small operation, a loader and truck operation should be considered.

The perimeter of the proposed pit of the North Area orebody would be within 1200 feet of Highway 89; making ecological considerations important.

ECONOMIC ANALYSIS

Following is a brief economic run-thru using as a model W.C. Coles' analyses of October, 1974*.

Using the reserves of this report, assuming open pit mining, a 5000 tpd conventional flotation plant and a 12 year mine life, a total revenue of $87,400,000 would be generated at 65¢ NSR value copper. The average annual ROI provided would be 5.0%.

Assuming 85¢ NSR value copper, revenue increases to $114,200,000; but we judge other indicators fall short of ERC's minimum goal.

Reference to the tabulated drill hole analyses in the appendix will show that only thin intercepts of 0.50% Cu eq could be developed for calculation at that grade.

It would appear to PKK that the supergene reserves developed at Copper Creek are substantially less in terms of tons and grade than those required for an economic operation in the forseeable future.

It is estimated that additional exploration might increase the reserve tonnage somewhat, probably adding < 20%. An increase in the grade above that currently measured should not be expected.

---

*Letter from W.C. Cole to Wm. M. Calhoun, Day Mines, Inc.

COPPER CREEK

Basic Assumptions:

Reserves:	20,000,000 tons @ 0.42 Cu equivalent.
Waste:Ore	.92:1
Mine Life:	12 years
Mill Operates:	325 days/yr.
Flotation Concentrator:	5000 tpd
NSR Revenue:	US Producer Price less 15¢

Capital Costs:

Roads	67,500.
Water Supply	337,500.
Mining Equipment	2,025,000.
Office	275,000.
Mill	12,500,000.
Tailings System	675,000.
Mine Shop	337,500.
Engr. Fees	540,000.
Dev. Drilling	540,000.
Pre-Production Mining	540,000.
Working Capital	810,000.
Sub-Total	$18,647,500.
+10%	1,864,750.
Total	$20,512,250.

Note: Assume no replacement of capital equipment and no salvage.

Operating Costs

Mining 35¢/ton of rock @.92:1 =	.67 ton
Milling	1.35
G&A @ 30%	.41
Royalty (2% NSR assuming 40% ore from Trust 60)	.05
Total	$2.48
X 20,000,000 tons =	$49,600,000

Revenue

NSR FOB Concentrator = $4.37/ton
X 20,000,000 tons = $87,400,000

Summary 12 year mine life @ 65¢ NSR Cu, 0.42% Cu eq. head grade...

Revenue	87,400,000.
Capital costs	20,512,000.
Operating Costs	49,600,000.
Pre-Tax Profit	$17,288,000.
Depletion (50%)	8,644,000.
Taxable Income	8,644,000.
State and Co. Taxes @ 17%	1,469,480.
Net before Fed. Taxes	7,174,520.
Fed. Tax @ 48%	3,443,770.
Post tax profit	3,730,750
+Deprec. +Depl.	29,156,000
Cash Flow	32,886,750

Total Profit = $12,374,750 Profit ÷ Investment = .60
Payback Time = 7.5 years Ave. Annual ROI = 5.0%

Summary 12 year mine life @ 85¢ NSR Cu - 0.42% Cu head grade

Revenue	$114,200,000
Cap. Costs	20,512,000
*Operating costs	50,000,000
Pre Tax Profit	$43,688,000
Depletion (15%)	17,130,000
Taxable Income	26,558,000
State & Local Taxes @ 17%	4,514,860
Net before Fed. Taxes	22,043,140
Fed. Taxes @ 48%	10,580,707
Post Tax Profit	11,462,433
+Deprec. +Depl.	37,642,000
Cash Flow	49,104,433

Total Profit	28,592,433
Payback Time	5.0 years
Profit ÷ Investment	1.40 years
Ave. Annual ROI	11.6%

*0.42 = 8.4# X .8 = 6.72# rec. X .85 = $5.71 NSR value raw ore. Change from 80¢ mkt. price calc. because of mod. of Trust 60 Royalty (.67 + 1.35 + .41 + .07 = $2.50)

DEEPER SULFIDE POTENTIAL

A total of 52 holes are known to have been drilled on ground currently under ERC-PKK control at Copper Creek. Only three of those holes have exceeded 1000 feet in total depth: PD-6 (1235'), DDH70-1 (1500') and CC-4 (1611').

Reference to attached Figure 9 will show that the 3 deeper holes are so spaced as to form an irregular fence with a NE-SW orientation with holes spaced 1500 and 1800 feet apart.

The geology of holes PD-6 and DDH70-1 are unfortunately not known. SW70 Project hole CC4 bottomed at an elevation of 3714', penetrating sparsely mineralized Pre-Cambrian rocks at about elevation 3798'. DDH70-1, SW of CC-4, bottomed at elevation 3700', presumably with no Pre-Cambrian intersected, but with no increase in copper. PD-6 penetrated only to elevation 4214' with some increase in copper (rising from 0.08% Cu ±0.14% Cu near the bottom) ~~again with no apparent Pre-Cambrian intersection.~~ Sierra reports that there was also an increase in alteration with depth in PD-6.

Reference to Sayers' transparent alteration outline overlays and the locations of the three deeper holes at Copper Creek will clearly show that only the central portion of the south half of the altered zone has been tested by the +1000' deep holes.

It seems reasonable to assume that a deeper penetration than the 1236' of PD-6 is warranted at that location -- in view of the mineralization - alteration increase -- particularly in light of Swinderman's hypothesis of a SW plunge toward a buried intrusive center. However, other hypotheses developed could also have merit.

PROPERTY CONSIDERATIONS

ERC-PKK currently control the following properties at Copper Creek:

(1) Oak Claims - Project located 58 unpatented lodes and fractions.

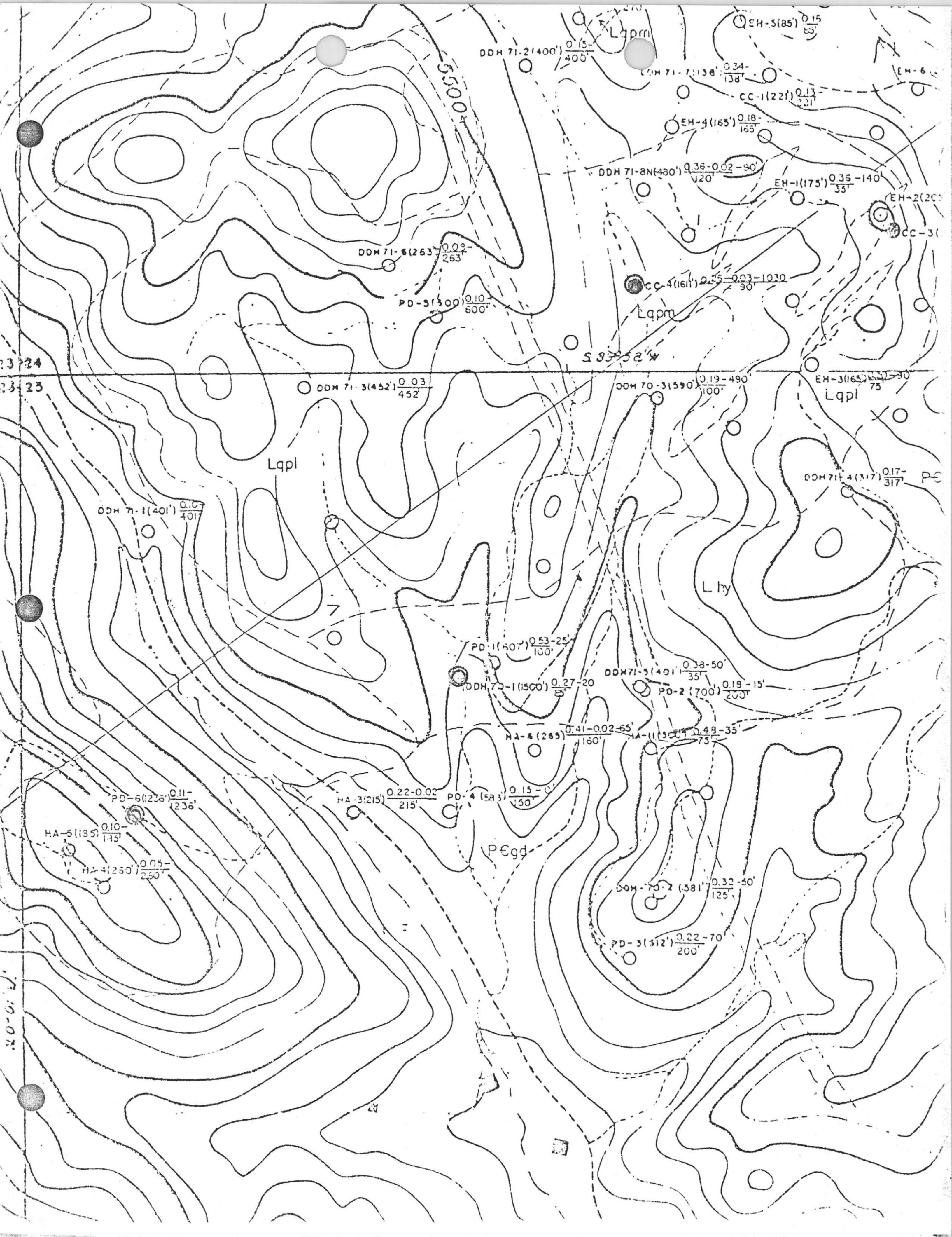
(2) Gillings Property - Two patented claims, leased with the option to purchase, covered by Agreement dated July 14, 1971. Total price for purchase of the property is $65,000 (option period expires 1976).

(3) Trust 60 Property - Lease Agreement and Option to Purchase dated March 7, 1974, covers 14 patented, 8 unpatented lodes and 2 unpatented millsite claims. Total purchase price is $5 million -- until the property is purchased, a 3% NSR payment is due on any production.

Reference to the outlines of the supergene mineralized zones shown in Figures 2 and 3 and to a 500 scale claims map (Company files) will show that about 90% of the North Area mineral reserve is on ground optioned from Gillings; 100% of South Area mineralization is on Trust 60 lands.

Studies of the pervasive alteration indicating areas of copper potential were made by Sayers (PKK) in 1970. This study indicated that 58.3% of the favorable ground was then held by Norandex (Trust 60 property) and 41.7% by ERC-PKK (including Gillings). We now control essentially the entire altered area.

Current monthly payment obligations are: $1650/mo. to Trust 60 and $550/mo. to Gillings.



Lqpm
SH-5(85') 0.15/85'
DDH 71-2(400') 0.15-/400'
DDH 71-7(138') 0.34-/138'
EH-6
CC-1(221') 0.13-/221'
5500
EH-4(165') 0.18-/165'
DDH 71-8N(480') 0.36-0.02-90'/120'
EH-1(175') 0.36-140'/35'
EH-2
CC-3
DDH 71-6(263') 0.09-/263'
CC-4(161') 0.25-0.03-1030/90'
PD-5(300') 0.10-/300'
Lqpm
S 89°58' W
23 24
26 25
DDH 71-3(452') 0.03/452'
DDH 70-3(590') 0.19-490'/100'
EH-3(165')
Lqpl
Lqpl
DDH 71-4(317') 0.17-/317'
DDH 71-1(401') 0.1-/401'
L hy
PD-1(607') 0.53-25'/100'
DDH 71-5(401') 0.38-50'/35'
DDH 70-1(1500') 0.27-20/8'
PD-2(700') 0.18-15'/200'
HA-8(265) 0.41-0.02-65'/160'
HA-1(300') 0.48-35'/75'
PD-6(1236') 0.11-/1236'
HA-3(215') 0.22-0.02/215'
PD-4(583) 0.15-/150'
HA-5(135) 0.10-/135'
PЄgd
HA-4(250') 0.05-/250'
DDH 70-2(581') 0.32-50'/125'
PD-3(312') 0.22-70/200'

APPENDIX

No.	
1	Drill Hole Assay Tabulation - CC74 Series Rotary-Percussion Holes.
2	Abbreviated Descriptive Logs - CC74 Series Rotary-Percussion Holes.
3	Graphic Logs - CC74 Series Rotary-Percussion Holes.
4	Qualitative Spectrographic Analyses - CC74 Series Cuttings.
4	Oxide (Leachability) Tests - Certificate of Analysis.
5	Ore and Waste Calculations - North Area.
5	Ore and Waste Calculations - South Area.
5	Pit Layback Waste Calculations and Calculations of Waste to Ore Ratios.

12/74-1/75 Rotary Drilling
TD - 250.5'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T	
CC-74-1							
	15-20	0.01					
	30-35	0.01					
	45-50	0.01					
	60-65	0.01	0.032	0.008	0.012	0.085	(65-67.5')
			0.058	0.010	0.029	0.122	(67.5-70')
			0.040	0.008	0.023	0.073	(70-72.5')
			0.070	0.014	0.030	0.085	(72.5-75')
	75-80	0.12	0.128	0.019	0.026	0.061	
	80-85	0.17	0.175	0.031	0.023	0.083	
	85-90	0.66	0.610	0.040	0.036	0.087	
	90-95	0.73	0.735	0.045	0.018	0.073	
	95-100	0.83	0.800	0.036	0.033	0.075	
	100-105	0.69	0.685	0.034	0.026	0.060	
	105-110	0.68	0.720	0.033	0.009	0.085	
	110-115	0.84	0.830	0.030	0.027	0.097	
	115-120	0.74	0.705	0.027	0.039	0.080	
	120-125	0.77	0.790	0.024	0.035	0.085	

12/74-1/75 Rotary Drilling
TD - 250.5'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T
CC-74-1	125-130	0.72	0.730	0.024	0.053	0.088
	130-135	0.66	0.655	0.027	0.021	0.063
	135-140	0.76	0.795	0.029	0.060	0.075
	140-145	0.74	0.725	0.024	0.018	0.073
	145-150	0.84	0.810	0.025	0.017	0.085
	150-155	0.61	0.620	0.032	0.030	0.075
	155-160	0.62	0.590	0.019	0.036	0.060
	160-165	0.68	0.625	0.018	0.021	0.085
	165-170	0.64	0.640	0.019	0.024	0.080
	170-175	0.64	0.625	0.020	0.024	0.073
	175-180	0.64	0.620	0.019	0.016	0.073
	180-185	0.51	0.500	0.017	0.024	0.073
	185-190	0.58	0.575	0.016	0.015	0.073
	190-195	0.47	0.450	0.015	0.018	0.049
	200-205	0.35	0.350	0.012	0.019	0.049
	205-210	0.44	0.430	0.011	0.016	0.073
	210-215	0.33	0.305	0.009	0.013	0.049
	215-220	0.28	0.290	0.006	0.015	0.073
	220-225	0.26	0.245	0.008	0.015	0.049
	225-230	0.57	0.515	0.013	0.009	0.097
	230-235	0.26	0.260	0.009	0.010	0.049
	235-240	0.30	0.285	0.012	0.006	0.049
	240-245	0.35	0.325	0.012	0.013	0.073

12/74-1/75 Rotary Drilling

TD - 250.5'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T	
CC-74-2							
	5-10	0.01					
	10-15	0.02					
	15-20	0.01					
	20-25	0.02					
	25-30	0.01					
	30-35	0.01					
	35-40	0.05					
	40-45	0.07					
	45-50	0.15	0.148	0.013	0.022	0.049	
	50-55	0.25	0.235	0.018	0.013	0.049	
	55-60	0.21	0.205	0.018	0.018	0.049	
	60-65	0.27	0.265	0.027	0.021	0.049	
	65-70	0.34	0.350	0.019	0.015	0.049	
	70-75	0.37	0.350	0.017	0.015	0.049	
	75-80	0.35	0.330	0.013	0.022	0.049	
	80-85	0.37	0.335	0.013	0.024	0.073	
			0.130	0.036	0.003	0.049	(85-87.5')
	85-90	0.21	0.200	0.005	0.013	0.049	
	90-95	0.21	0.205	0.005	0.019	0.049	
			0.245	0.009	0.024	0.049	(95-97.5')
			0.280	0.005	0.027	0.049	(97.5-100')
	100-105	0.24	0.225	0.004	0.022	0.073	
	105-110	0.20	0.190	0.005	0.022	0.049	

12/74-1/75 Rotary Drilling

TD - 250.5'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T	
CC-74-2	110-115	0.19	0.175	0.003	0.018	0.049	
			0.240	0.015	0.009	0.024	(115-117.5')
	115-120	0.20	0.195	0.003	0.013	0.049	
	120-125	0.19	0.180	0.004	0.016	0.073	
	125-130	0.24	0.220	0.005	0.012	0.073	
	130-135	0.18	0.170	0.004	0.010	0.049	
	135-140	0.23	0.220	0.005	0.015	0.049	
			0.225	0.005	0.018	0.049	(140-142.5')
	150-155	0.21	0.185	0.008	0.013	0.049	
	165-170	0.13					
	180-185	0.18					
	195-200	0.07					
	210-215	0.13					
	225-230	0.06					
	240-245	0.10					

12/74-1/75 Rotary Drilling
TD - 215'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T
CC-74-3						
	15-20	0.02				
	30-35	0.03				
	40-45	0.04				
	45-50	0.23				
	50-55	0.15				
	55-60	0.17				
	60-65	0.11				
	65-70	0.14				
	70-75	1.09	1.000	0.090	0.024	0.073
	75-80	0.33	0.290	0.025	0.019	0.073
	80-85	0.22	0.205	0.009	0.018	0.097
	85-90	0.27	0.250	0.020	0.006	0.097
	90-95	0.18				
	95-100	0.15	0.155	0.006	0.021	0.073
	100-105	0.21	0.200	0.007	0.016	0.097
	105-110	0.17	0.170	0.012	0.012	0.073
	110-115	0.16	0.160	0.009	0.010	0.073
	115-120	0.16	0.165	0.009	0.010	0.073
	120-125	0.24	0.225	0.008	0.009	0.073
	125-130	0.26	0.245	0.007	0.009	0.073

12/74-1/75 Rotary Drilling
TD - 215'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T
CC-74-3	130-135	0.34	0.320	0.008	0.015	0.073
	135-140	0.22	0.200	0.012	0.018	0.097
	140-145	0.22	0.210	0.016	0.009	0.097
	145-150	0.31	0.300	0.016	0.013	0.122
	150-155	0.25	0.235	0.010	0.015	0.097
	155-160	0.34	0.320	0.015	0.013	0.122
	160-165	0.32	0.310	0.087	0.004	0.049
	165-170	0.09	0.092	0.020	0.001	0.024
	170-175	0.11	0.115	0.032	0.001	0.024
	175-180	0.28	0.260	0.118	0.002	0.024
	180-185	0.28	0.235	0.116	0.002	0.024
	185-190	0.25	0.230	0.075	0.003	0.024
	190-195	0.29	0.270	0.112	0.003	0.024
	195-200	0.26	0.240	0.117	0.003	0.024
	200-205	0.17	0.166	0.046	0.003	0.024

12/74-1/75 Rotary Drilling
TD - 180'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T	
CC-74-4							
	15-20	0.01					
	30-35	0.01					
	45-50	0.01					
	60-65	0.01					
	75-80	0.01	0.046	0.014	0.002	0.024	(80-82.5')
			0.079	0.023	0.002	0.024	(82.5-85')
			0.182	0.038	0.003	0.024	(87.5-90')
	90-95	0.15	0.158	0.031	0.002	0.024	
			0.086	0.024	0.003	0.024	(95-97.5')
			0.089	0.022	0.003	0.024	(97.5-100')
			0.145	0.024	0.003	0.024	(100-102.5')
			0.245	0.028	0.013	0.024	(102.5-105')
	105-110	0.26	0.250	0.020	0.007	0.024	

12/74-1/75 Rotary Drilling
TD - 180'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T	
CC-74-4			0.240	0.023	0.007	0.024	(110-112.5')
			0.245	0.025	0.009	0.024	(112.5-115')
			0.285	0.026	0.007	0.024	(117.5-120')
	120-125	0.40	0.285	0.022	0.007	0.024	
			0.530	0.194	0.010	0.024	(125-127.5')
			0.740	0.270	0.007	0.048	(127.5-130')
			0.440	0.185	0.007	0.048	(130-132.5')
			0.750	0.300	0.010	0.048	(132.5-135')
	135-140	0.33	0.305	0.053	0.007	0.048	
			0.100	0.005	0.007	0.048	(140-142.5')
			0.147	0.007	0.007	0.048	(142.5-145')
			0.164	0.014	0.009	0.048	(145-147.5')
			0.144	0.006	0.007	0.048	(147.5-150')
	150-155	0.17	0.165	0.006	0.012	0.073	
			0.155	0.007	0.013	0.073	(155-157.5')
			0.230	0.011	0.012	0.073	(157.5-160')
			0.180	0.007	0.009	0.048	(160-162.5')
			0.202	0.006	0.008	0.075	(162.5-165')
	165-170	0.20	0.188	0.006	0.014	0.075	

12/74-1/75 Rotary Drilling
TD - 245'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T
CC-74-5						
	15-20	0.01				
	30-35	0.01				
	45-50	0.03				
	60-65	0.03				
	75-80	0.04				
	90-95	0.08				
	105-110	0.01				
	120-125	0.01				

12/74-1/75 Rotary Drilling
TD -.245'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	Cu %	ERC Assay Oxide Cu %	Mo %	Ag oz/T
CC-74-5	135-140	0.01				
	150-155	0.01				
	165-170	0.01				
	180-185	0.01				
	195-200	0.03				
	210-215	0.02				
	225-230	0.03				
	240-245	0.03				

12/74-1/75 Rotary Drilling
TD - 278'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T	
CC-74-6							
	15-20	0.01					
			0.029	0.005	0.003	0.050	(25-27.5')
			0.018	0.004	0.005	0.050	(27.5-30')
	30-35	0.20	0.210	0.024	0.014	0.060	
			0.220	0.027	0.012	0.060	(35-37.5')
			0.075	0.014	0.013	0.050	(37.5-40')
			0.053	0.012	0.018	0.050	(40-42.5')
			0.126	0.019	0.012	0.040	(42.5-45')
	45-50	0.26	0.250	0.017	0.008	0.050	
			0.350	0.030	0.014	0.075	(50-52.5')
			0.320	0.032	0.020	0.090	(52.5-55')
			0.300	0.034	0.014	0.075	(55-57.5')
			0.235	0.028	0.005	0.050	(57.5-60')
	60-65	0.29	0.295	0.015	0.011	0.050	
			0.285	0.027	0.008	0.050	(65-67.5')
			0.290	0.025	0.008	0.050	(67.5-70')
			0.350	0.031	0.006	0.075	(70-72.5')
			0.210	0.025	0.003	0.050	(72.5-75')
	75-80	0.30	0.310	0.010	0.006	0.050	
			0.275	0.029	0.017	0.050	(80-82.5')
			0.240	0.027	0.009	0.050	(82.5-85')

12/74-1/75 Rotary Drilling
TD - 278'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T	
CC-74-6			0.190	0.020	0.008	0.050	(85-87.5')
			0.290	0.027	0.010	0.050	(87.5-90')
	90-95	0.29	0.300	0.014	0.009	0.050	
			0.185	0.026	0.019	0.050	(95-97.5')
			0.083	0.016	0.005	0.025	(97.5-100')
	105-110	0.04					
	120-125	0.06					
	135-140	0.16					
	150-155	0.13					
	165-170	0.14					
	180-185	0.13					
	195-200	0.06					

12/74-1/75 Rotary Drilling
TD - 278'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T
CC-74-6	210-215	0.03				
	225-230	0.04				
	240-245	0.04				
	255-260	0.03				

12/74-1/75 Rotary Drilling
TD - 165'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T
CC-74-7	5-10	<.01				
	20-25	<.01				
	35-40	<.01				
	50-55	<.01				
	65-70	<.01				
	80-85	<.01				
	95-100	.02				
	110-115	<.01				

12/74-1/75 Rotary Drilling
TD -.165'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T
CC-74-7	125-130	< .01				
	140-145	< .01				
	155-160	.01				

12/74-1/75 Rotary Drilling
TD - 65'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T
CC-74-8A						
	5-10		0.044	0.017	0.015	0.097
	10-15	0.03	0.044	0.016	0.022	0.122
	15-20		0.053	0.019	0.048	0.146
	20-25		0.300	0.070	0.004	0.097
	25-30	0.51	0.505	0.080	0.012	0.122
	30-35		0.285	0.052	0.013	0.049

12/74 - 1/75 Rotary Drilling
TD - 160'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T
CC-74-8						
	15-20	0.01				
	25-30		0.026	0.006	0.020	0.109
	30-35	0.34	0.335	0.076	0.011	0.219
	35-40		0.580	0.075	0.017	0.134
	40-45		0.730	0.070	0.033	0.158
	45-50	0.35	0.360	0.033	0.021	0.073
	50-55		0.470	0.039	0.036	0.110
	55-60		0.415	0.030	0.038	0.122
	60-65	0.53	0.525	0.035	0.042	0.194
	65-70		0.340	0.018	0.051	0.109
	70-75		0.345	0.024	0.018	0.097
	75-80	0.37	0.370	0.022	0.014	0.085
	80-85		0.265	0.012	0.012	0.110
	85-90		0.270	0.011	0.014	0.085
	90-95	0.18	0.190	0.009	0.015	0.073
	95-100		0.200	0.006	0.020	0.075
	100-105		0.185	0.006	0.021	0.061
	105-110	0.21	0.215	0.008	0.017	0.085
	110-115		0.200	0.010	0.023	0.080
	115-120		0.195	0.009	0.024	0.073
	120-125	0.22	0.235	0.012	0.020	0.090

12/74-1/75 Rotary Drilling
TD - 160'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T
CC-74-8	125-130		0.205	0.009	0.023	0.085
	130-135		0.240	0.007	0.021	0.095
	135-140	0.26	0.270	0.012	0.017	0.110
	140-145		0.220	0.006	0.039	0.100
	145-150		0.400	0.011	0.026	0.145
	150-155	0.44	0.455	0.019	0.032	0.150

12/74-1/75 Rotary Drilling
TD - 270'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T
CC-74-9	5-10	0.05				
	20-25	0.02				
	35-40	0.01				
	50-55	0.02				
	65-70	0.12				
	80-85	0.03				
	90-95	0.01				
	105-110	0.03				
	120-125	0.03				
	125-130		0.034	0.012	0.024	0.036

12/74-1/75 Rotary Drilling
TD - 270'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T
CC-74-9	130-135		0.245	0.030	0.020	0.049
	135-140	0.27	0.290	0.033	0.008	0.040
	140-145		0.300	0.026	0.035	0.045
	145-150		0.350	0.035	0.020	0.085
	150-155	0.23	0.235	0.022	0.018	0.316
	155-160		0.195	0.023	0.018	0.049
	160-165		0.180	0.019	0.015	0.045
	165-170	0.10				
	180-185	0.11				
	195-200	0.14				
	205-210	0.36				
	220-225	0.16				
	235-240	0.03				
	250-255	0.07				

12/74-1/75 Rotary Drilling
TD - 265'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T
CC-74-10						
	5-10	0.10				
	20-25	0.08				
	35-40	0.06				
	40-45		0.090	0.039	0.006	0.050
	45-50	0.26	0.250	0.106	0.016	0.075
	50-55	0.15	0.160	0.075	0.008	0.075
	55-60	0.63	0.580	0.190	0.008	0.075
	60-65	0.54	0.530	0.186	0.004	0.050
	65-70	0.75	0.700	0.094	0.010	0.100
	70-75		0.350	0.070	0.009	0.060
	75-80	0.45	0.450	0.155	0.005	0.075
	80-85	0.27	0.255	0.052	0.006	0.050
	85-90	0.28	0.265	0.055	0.005	0.075
	90-95	0.16				
	105-110	0.10				
	120-125	0.12				
	125-130	0.12				

12/74-1/75 Rotary Drilling
TD - 265'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T
CC-74-10						
	150-155	0.16				
	165-170	0.13				
	180-185	0.09				
	195-200	0.09				
	210-215	0.12				
	225-230	0.10				
	240-245	0.10				
	255-260	0.10				

12/74-1/75 Rotary Drilling
TD - 265'

Hole No.	Sample Interval	Hawley & Hawley Assay Cu %	ERC Assay Cu %	Oxide Cu %	Mo %	Ag oz/T
CC-74-11						
	10-15	0.09				
	20-25		0.285	0.105	0.004	0.061
	25-30	0.26	0.265	0.094	0.003	0.055
	30-35		0.160	0.036	0.002	0.045
	35-40		0.170	0.038	0.002	0.055
	40-45	0.21	0.230	0.037	0.002	0.073
	45-50		0.175	0.030	0.002	0.061
	50-55		0.145	0.018	0.003	0.075
	55-60	0.16				
	70-75	0.08				

COPPER CREEK PROJECT

CC74 SERIES ROTARY PERCUSSION HOLES (OCCASIONAL SECTIONS CORED)

DRILL CONTRACTOR - HARRIS - WOODIS (HUGH M. HARRIS DRILLING CO.)

PROJECT WORK PERFORMED: 12/74-1/75 4 3/4" Hammer/NQ Core

ABBREVIATED DESCRIPTIVE LOGS (See strip logs - attached - for relationship/rock types to assays)

CC-74-1 - TD 250 1/2

0-5 Fill

5-200 Quartz monzonite porphyry (Qmp); light gray except medium gray 115-125 and 150-160 (more mafic sections); medium grained except for granophyric texture 70-75 and 175-190.

Secondary biotite 90-160, including some phylogopite veinlets 125-130; heavy sections of quartz veinlets to 1/16" are common. Fe mags generally destroyed; oxidized to 85 w/medium to light brown limonite.

Trace to minor chalc. begins @ 40, moderate to heavy chalc. 85-200 (200-215 some covellite). Trace cpy 145-200. MoS_2 prevalent 160-200. Pyrite < 1/2% 40-70; 1/2+% 70-90, 2-3% 90-130, less 130-170; +2% 175-200. Qtz-py veinlets 110-115, turquoise 80-85.

200-205 Quartz latite porphyry (Qlp), variable, light pinkish gray; a fine grained porphyry - some sericite. Minor to moderate chalc. Fine grained Py - 1-2%.

205-250 1/2 Quartz monzonite porphyry (Qmp) as above 200' but somewhat granophyric 225-250 1/2, variable light to medium gray, siliceous; no secondary biotite noted.

Minor to moderate chalc.; trace to minor cpy; trace MoS_2; Py 1-2%.

Water table @ 245'
(cored 247 1/2 - 250 1/2)

CC-74-2 - TD 250 1/2

0-5 Fill

5-35 Quartz monzonite (Qm) medium grained; oxidized; buff to orange in color; Fe oxide stringers to 35'.

35-222 1/2 Quartz latite porphyry (Qlp or Quartz monzonite porphyry (Qmp); variable light green gray to medium gray; silicified (locally heavy). Fe mags well chloritized.

Trace to moderate chalc., variable cpy (more than in most holes); trace to minor MoS_2, increasing w/qtz veinlets 205-210; 115-125 quartz veinlets carry Py, MoS_2, trace cpy. Py ±2%.

Water table @ 140'.
(cored 140-149.2).
Some dilution of sample below 165'.

222 1/2-225 Latite-Rhyolite dike - post ore; buff colored, only minor pyrite.

225-235 Quartz latite porphyry - Quartz monzonite porphyry; light green gray, w/some flow banded rhyolite. Qlp-Qmp is siliceous (then bone white).

2-3% Py, trace to minor Cpy and MoS_2.

235-250 1/2 Quartz latite (Ql) - Rhyolite (Rhy), light green gray; chloritized ferromags; w/abundant quartz veinlets.

1-2% Py; some cpy; trace to minor MoS_2

CC-74-3 - TD 215

0-5 Fill

5-65 Quartz latite porphyry (Qlp) - Quartz monzonite porphyry (Qmp) medium gray to dark pinkish gray; a mafic Qlp-Qmp below 30'; oxidized - leached to 30' - w/heavy Fe oxide fracture coatings. Possible secondary biotite 55-60.

Sulfides begin @ 35'; minor chalc; trace cpy, 2-3% Py.

65-70 Quartz monzonite porphyry (Qmp) - dike medium green gray; propylitized (chloritized Fe mags, epidotes, hematite) a little FeS_2.

70-160 Quartz monzonite porphyry (Qmp) mafic; dark green gray, fine grained; brown shredded secondary biotite 90' and below; minor to some chalc., but

heavy 70-75; trace to some cpy; trace MoS_2 145-150; 1-2% Py (tarnished).

160-170 Quartz latite porphyry (QIp) leucocratic; buff; w/well bleached Fe mags; trace chalc; trace cpy and minor Py.

170-215 Monzonite (Monz); equigranular; fine grained; buff; w/some hairline qtz veinlets; some chalc; generally low pyrite.

CC-74-4 - TD 180

0-5 Fill

5-35 Quartz-Feldspar Rock (QFR) (a well oxidized Qmp?); orange; bleached biotite, some quartz veining; heavy Fe oxides after Py.

35-180 Quartz monzonite porphyry (Qmp); medium light gray to buff; silicified; bleached biotite to 170'. Biotite 70% fresh below 170'; abundant Fe oxides to 85-95. Bottom zone of oxidation @ 100'.

Some Kspar flooding 160-170.

CC variable, locally heavy; trace cpy; MoS_2 w/quartz veinlets 150-155, Py diminishes to ±1% below 115'.

CC-74-5 - TD 245

0-5 Fill

5-85 Quartz monzonite (Qm) medium grained, light yellow to yellow gray; well oxidized to 60' w/abundant limonite coatings; w/possible quartz latite (silicified) 55-60 (dike?); quartz veinlets are prevelant below 60'.

±1/2-2% Py to 60'; trace chalc and cpy 35-60'. Below 60' - Py ±1%; very minor chalc, trace cpy and minor MoS_2.

85-105 Latite (Lat); fine grained; light gray; silicified; 1/2±% Py; trace chalc.

105-245 Quartz monzonite porphyry (Qmp); as above 85'. Light pink gray to green gray - darker toward bottom; no Fe mags noted 140-190; elsewhere biotite generally bleached; but possibly secondary biotite. 235-245'.

Trace hematite 200-205, 1/2-1 1/2% Py, possible occasional trace chalc, trace cpy below 225; trace MoS_2 below 195'.

Water table @ 190'.

CC-74-6 - TD 278

0-5 Fill

5-15 Quartz-Feldspar Rock (QFR) yellow-brown; well leached - oxidized; Fe (Mn?) coatings well developed; minor silicification; no sulfides noted.

15-20 Latite (Lat) green gray - oxidized to orange; (other comments as above).

20-65 Quartz monzonite porphyry (Qmp) - Quartz latite porphyry (Qlp) medium to dark gray.

Some chalc; trace cpy; 1-2% Py except ±3% Py 30-35.

65-95 Biotite Quartz Monzonite (Bqm); medium to dark gray.

Some chalc; trace MoS_2 90-95. Py 2-3% - including with biotite in veinlets.

95-100 Quartz latite (Ql) dike - very light gray, w/numerous quartz veinlets; only minor chalc; 2-3% Py.

100-105 Quartz latite porphyry (Qlp) - quartz monzonite porphyry (Qmp); medium gray; with some 1/8" quartz-Py-MoS_2 veinlets, minor chalc.

105-170 Latite-rhyolite (Lat-Rhy); light to medium gray; trace to minor MoS_2; trace chalc; ±2% Py below 110.

170-278 Quartz monzonite porphyry (Qmp); light gray 170-175; medium to dark gray 175-278; fine to medium grained with sucrosic texture 180-215; bleached biotite;

1-2% Py below 180' (2-3% - 220-260'). Trace to very minor chalc, trace MoS_2; rock almost devoid of sulfides 70-180'.

Water table @ 245'.
(cored NQ - 272 1/2 - 278)

CC-74-7 - TD 165

0-5 Fill

5-35 Quartz monzonite porphyry (Qmp); buff to orange; medium grained; well oxidized - leached; w/very few remaining Fe mags; Fe-Mn oxide coatings; some silicification.

35-165 Quartz latite porphyry (Qlp); medium gray; medium to coarse grained; some bleached biotite, possible sericite, trace tarnished Py.

CC-74-8 - TD 160

0-40 Monzonite; fine grained, yellow brown, leached; good Fe oxide coatings below 32 1/2, green gray, fine grained; w/possible secondary biotite.

Good chalc; trace cpy; ±3% Py including quartz - pyrite veinlets.

40-45 Mixed Monzonite (monz) fine grained and Quartz latite (foliated) - light green gray.

good chalc; trace cpy, ±3% Py.

45-55 Quartz latite (Ql) light pink gray -- otherwise as 40-45 but with more cpy.

55-65 Mixed Ql-Monz - (as 40-45) Ql dikes cut monz. green gray w/some dark gray mafic dikes; good chalc; possible trace native Cu; trace to minor cpy, some Py.

65-70 Quartz latite porphyry (Qlp) light pink to green gray (translucent) w/quartz veinlets (w/Py-cpy) good chalc.

70-150 Mixed Qlp-Qm (fg Biotitic Qm); variable yellow white to dark green - motted. Qlp predominating - Qlp cuts Qm as 55-65; possible secondary biotite below 120.

Chalc variable; cpy - trace to moderate amounts; trace to some MoS_2 115-160; Py variable 1-2%; possible native Cu 130-135.

150-160 Quartz monzonite (biotitic); mottled blue green w/dark brown biotite-Py veinlets; some quartz veinlets; substantial cpy; trace MoS_2; ±3% Py.

CC-74-8A - TD 65

0-20 Soil and gravel

20-40 Quartz latite (Ql) - Quartz monzonite (Qm); medium green gray; w/granophyric textures; good chalc; trace cpy - MoS_2; 2-3% Py

Water table @ 40'.

40-42 1/2 No sample.

42 1/2-65 (cored) Mixed Quartz Monzonite porphyry (Qmp) and mafic dikes; Qmp green gray, well fractured, with chloritized hornblende fracture fillings; abundant quartz veinlets >1/4" w/Py, cpy, MoS_2. 5-10% total sulfides w/some chalc.

CC-74-9 - TD 270

0-5 Fill

5-230 Biotite quartz monzonite porphyry (Bqmp) light to medium gray and off white, locally green gray (mottled). Biotite destroyed to 50'; leached, oxidized w/Fe oxides to 50'; some oxidation continues to 120'.

Trace Py 50-100, 1-2% below 190, 2-3% 190-230. Chalc begins at about 100, increases @ 125, less to none below 160'; cpy variable, trace 135-210, minor 210-230; MoS_2 in trace amounts 150-230.

Water table @ 205'.

230-240 Quartz monzonite porphyry (Qmp) dike green gray; w/shredded chlorite; very little sulfide.

240-270 "Crowded" biotite quartz monzonite porphyry (Bqmp) med gray rock w/dark brown biotite books - including secondary biotite; 1-2% Py, trace cpy and MoS_2.

CC-74-10 - TD 265

0-225 Quartz monzonite (Qm) fine to medium grained; mafic; mottled dark green to green gray; heavily propylitized (30% epidote, chlorite quartz); w/ possible mafic dike 150-155; well oxidized to 50 w/abundant Fe oxides.

Some quartz veinlets; increasing to 20-30% of rock as quartz veinlets 140-150, 10% 160-225. Some $CaCo_3$ veinlets @ 215.

Trace chalc; trace to minor cpy; trace MoS_2; Py - 1-3%.

225-235 Fault gouge and mafic quartz monzonite

235-265 Qm - as above 225 but more biotitic w/some zones of Qlp. Trace cpy, no visible chalc.

CC-74-11 - TD 85

0-15 Quartz monzonite? (Qm) heavily oxidized - leached; good Fe oxides.

15-45 Quartz latite (Ql) (foliate); mottled dark green to green gray; heavily chloritized. 2-3% Py, trace to minor cpy and chalc.

45-50 Quartz monzonite (dike) leucocratic pink to tan - minoc chalc.

50-85 Quartz latite (Ql) mafic, mottled color as 15-45, heavily chloritized; 2-3% Py, trace cpy, trace to minor MoS_2; no visible chalc.

ROCKY MOUNTAIN GEOCHEMICAL CORP.
2561 EAST FORT LOWELL ROAD · TUCSON, ARIZONA 85716 · PHONE: (602) 795-9780
TUCSON OFFICE

Certificate of Analysis

RMGC Numbers:
Local Job No.: 75-4-36TC
Foreign Job No.:
Invoice No.: S 5511

Date: March 14, 1975

Client: Earth Resources
P. O. Box 698
Cuba, New Mexico 87013

Client Order No.:

Report On: 3 of 15 samples

Submitted by: E.E. Saffell

Date Received: March 10, 1975

Analysis: Qualitative spectrographic analysis.

Analytical Methods:

Remarks: Percent ranges given are approximate.

cc:

Enc.
A. Perry
J.N. Swinderman
RMGC: SLC
file

PDW/sl

ND = None Detected · 1 ppm = 0.0001% · 1 Troy oz./ton = 34.286 ppm · 1 ppm = 0.0292 Troy oz./ton

Sample No.	(+1%) Major	(.01% to 1%) Minor	(less than .01% Trace
12	Aluminum Iron Silicon Sodium Titanium	Calcium Copper Magnesium Molybdenum(low) Potassium	Barium Chromium Lead Manganese Nickel Silver Strontium Vanadium Zinc

Sample No.	Major	Minor	Trace
13	Aluminum Iron(low) Potassium Silicon Sodium	Calcium Copper Magnesium	Barium Lead Manganese Molybdenum Nickel Silver (low) Titanium Zinc

Sample No.	Major	Minor	Trace
14	Aluminum Iron(low) Silicon Sodium	Calcium Copper Magnesium Potassium Titanium	Barium Lead Manganese Molybdenum Nickel Silver(low) Vanadium Zinc

By Parry D. Willard

Parry D. Willard

SKYLINE LABS, INC.
Hawley & Hawley, Assayers and Chemists Division
1700 W. Grant Rd., P.O. Box 50106, Tucson, Arizona 85703
(602) 622-4836

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

CERTIFICATE OF ANALYSIS

ITEM NO.	SAMPLE IDENTIFICATION	Cu %	N.S.Cu %	N.S.Cu %						
			*	**						
1	Composite: CC-74-10	0.41	0.24	0.27						

* Method I Sample shaken with a mixture of H_2SO_4 (5%) and H_2SO_3 for $\frac{1}{2}$ hour.

** Method II Sample brought to boil for 2 minutes in H_2SO_4 (5%).

TO:
Perry, Knox, Kaufman, Inc.
P.O. Box 12754
Tucson, Arizona 85732

Attn.: Mr. A. J. Perry

REMARKS:

CERTIFIED BY:

2/13/75

DATE REC'D:	DATE COMPL.:	JOB NUMBER:
1/29/75	2/13/75	750132-A

GRADE CALCULATION IN COPPER EQUIVALENTS

NORTH AREA

Hole No.	Total Depth	Ore Intervals	% Cu (Total)	% MoS_2	% Cu as Mo eq	% Cu equivalent
EH-4	165	@60'-35'	0.24			0.24
71-8	480	@90'-120'	0.36	.02	.06	0.42
74-9	270	@130'-30'	0.27	.016	.05	0.32
74-8A	65	@20'-15'	0.36	.008	.03	0.39
74-8	160	@30'-125'	0.33	.02	.06	0.39
EH-6	245	@30'-35'	0.31			0.31
74-1	250½	@80'-165'	0.58	.018	.06	0.64
EH-1	175	@140'-35'	0.37			0.37
EH-2	205	@90'-65' @185'-20'	0.26 0.50			0.26 0.50
CC-3	886	@110'-185'	0.38	.0115	.04	0.42
74-2	250½	@45'-95'	0.24	.02	.06	0.30
74-10	265	@55'-35'	0.45	.006	.02	0.47
EH-3	165	@20'-25' @90'-75'	0.34 0.50			0.34 0.50
74-3	215	@70'-35' @120'-45'	0.35 0.28	.012 .01	.04 .03	0.39 0.31
74-11	85	@20'-10'	0.28	.003	0.1	0.29

OREBODY GRADE CALCULATION

NORTH AREA

Hole No.	Tons Ore (Total)	Tons Ore Detail	Grade % Cu (Cu eq)	Tons X Grade (% Tons)
EH-4	248,640		0.24	59,674
71-8	1,209,600		(0.42)	508,032
74-9	271,680		(0.32)	86,938
74-8A	39,840		(0.39)	15,538
74-8	540,000		(0.39)	210,600
EH-6	271,040		0.31	84,022
74-1	2,529,120		(0.64)	1,618,637
EH-1	208,320		0.37	77,078
EH-2	527,680	124,160 403,520	0.50 0.26	62,080 104,915
CC-3	2,829,760		(0.42)	1,188,499
74-2	2,036,800		(0.30)	611,040
74-10	579,040		(0.47)	272,149
EH-3	764,800	573,600 191,200	0.50 0.34	286,800 65,008
74-3	824,320	360,640 463,680	(0.39) (0.31)	140,650 143,741
74-11	112,640		(0.29)	32,666
Total:	12,993,280		Total:	5,568,157

$$\text{GRADE} = \frac{\text{\% Tons}}{\text{Tons}} = 0.428\% \text{ Cu eq.}$$

NORTH AREA OREBODY

e Reserve Calculation

Hole No.	Area of Influence ft^2	Thickness of Ore ft	Volume of Ore ft^3	Tons Ore (12.5 ft^3/ton)	Tons Ore Detail
EH-4	88,800	35	3,108,000	248,640	
71-8	126,000	120	15,120,000	1,209,600	
74-9	113,200	30	3,396,000	271,680	
74-8A	33,200	15	498,000	39,840	
74-8	54,000	125	6,750,000	540,000	
EH-6	96,800	35	3,388,000	271,040	
74-1	191,600	165	31,614,000	2,529,120	
EH-1	74,400	35	2,604,000	208,320	
EH-2	77,600	20 65	1,552,000 5,044,000	527,680	124,160 403,520
CC-3	191,200	185	35,372,000	2,829,760	
74-2	268,000	95	25,460,000	2,036,800	
74-10	206,800	35	7,238,000	579,040	
EH-3	95,600	75 25	7,170,000 2,390,000	764,800	573,600 191,200
74-3	128,800	35 45	4,508,000 5,796,000	824,320	360,640 463,680
74-11	140,800	10	1,408,000	112,640	
			Total Tons Ore:	12,993,280	

NORTH AREA OREBODY

Overburden Tonnage Calculation

Hole No.	Overburden Thickness ft	Overburden Volume ft^3	Tons Overburden	Internal Waste Thickness ft	Internal Waste Volume ft^3	Tons Internal Waste	Total Tons Waste
EH-4	60	5,238,000	426,240				426,240
71-8	90	11,340,000	907,200				907,200
74-9	130	14,716,000	1,177,280				1,177,280
74-8A	20	664,000	53,120				53,120
74-8	30	1,620,000	129,600				129,600
EH-6	30	2,904,000	232,320				232,320
74-1	80	15,328,000	1,226,240				1,226,240
EH-1	140	10,416,000	833,280				833,280
EH-2	95	7,372,000	589,760	25	1,940,000	155,200	744,960
CC-3	110	21,032,000	1,682,560				1,682,560
74-2	45	12,060,000	964,800				964,800
74-10	55	11,374,000	909,920				909,920
EH-3	20	1,912,000	152,960	45	4,302,000	344,160	497,120
74-3	70	9,016,000	721,280	15	1,932,000	154,560	875,840
74-11	20	2,816,000	225,280				225,280
						Total tons Overburden:	10,885,760

GRADE CALCULATION IN COPPER EQUIVALENTS

SOUTH AREA

Hole No.	Total Depth	Ore Intervals	% Cu (Total)	% MoS_2	% Cu as Mo eq	% Cu equivalent
74-4	180	@105'-35'	0.37	.006	.02	0.39
70-1	1500	@20'-85'	0.27			0.27
PD-1	607	@3'-150'	0.43			0.43
71-5	401	@50'-35'	0.38			0.38
HA-6	265	@65'-160'	0.41	.02	.06	0.47
HA-11	300	@35'-75'	0.48			0.48
74-6	278	@45'-50'	0.28	.008	.03	0.31
70-2	581	@50'-125'	0.32			0.32

ORE BODY GRADE CALCULATION

SOUTH AREA

Hole No.	Tons Ore	Grade % Cu (Cu eq)	Tons X Grade (% Tons)
74-4	411,040	(0.39)	160,306
70-1	671,840	0.27	181,397
PD-1	1,785,600	0.43	767,808
71-5	399,840	0.38	151,939
HA-6	2,534,400	(0.47)	1,191,168
HA-11	1,032,000	0.48	495,360
74-6	748,800	(0.31)	232,128
70-2	788,000	0.32	252,160
Total:	8,371,520	Total:	3,432,266

$$\text{GRADE} = \frac{\text{\% Tons}}{\text{Total Tons}} = 0.410\% \text{ Cu eq.}$$

SOUTH AREA

OREBODY TONNAGE CALCULATION

Hole No.	Area of Influence ft^2	Thickness of Ore ft	Volume of Ore ft	Tons Ore
74-4	146,800	35	5,138,000	411,040
70-1	98,800	85	839,800	671,840
PD-1	148,800	150	22,320,000	1,785,600
71-5	142,800	35	4,998,000	399,840
HA-6	198,000	160	31,680,000	2,534,400
HA-11	172,000	75	12,900,000	1,032,000
74-6	187,200	50	9,360,000	748,800
70-2	78,800	125	9,850,000	788,000
			Total:	8,371,520

OVERBURDEN TONNAGE CALCULATION

Over-burden Thickness	Overburden Volume	Tons Overburden
105	15,414,000	1,233,120
20	1,976,000	158,080
3	446,400	35,712
50	7,140,000	571,200
65	12,870,000	1,029,600
35	6,020,000	481,600
45	8,424,000	673,920
50	3,940,000	315,200
Total:		4,498,432

PIT WALL LAYBACK WASTE CALCULATION

	Area (ft^2)	Ave. Depth (ft)	Volume	Tons	½ Tons	Over-burden/ Layback
NORTH	538,400	127	68,376,800	5,470,144	2,735,072	3.98
SOUTH	396,800	92.5	36,704,000	2,936,320	1,468,160	3.06

Pit wall layback waste: 4,203,232

STRIP RATIO CALCULATION

	Tons Over-burden	Tons Pit wall Layback	Total Tons Waste	Tons Ore	Waste/ Ore
NORTH	10,885,760	2,735,072	13,620,832	12,993,280	1.05/1
SOUTH	4,498,432	1,468,160	5,966,592	8,371,520	0.713/1
Total:	15,384,192	4,203,232	19,587,424	21,364,800	0.917/1

EARTH RESOURCES COMPANY MEMO

August 7, 1974

To: W. C. Cole

From: J. N. Swinderman

Re: COPPER CREEK PROJECT-PROPOSED EXPLORATION & DEVELOPMENT

We have thus far completed 2 diamond drill holes this year at Copper Creek, both of which penetrated extensive sections of altered and mineralized volcanic textured porphyries before bottoming in very weakly mineralized Precambrian rocks. Although assays are somewhat disappointing, we have tested less than half the intrusive complex and have yet to penetrate the intrusive center. Our holes indicate a plunge to the west. Deep potential is still good for several hundred million tons of 0.7% Cu equivalent if we can find the intrusive center.

Hole CC-3 penetrated 135 feet of 0.42% Cu and 0.01% Mo at a depth of 135 feet. This mineralization represents a shallow enrichment blanket near the eastern contact of the intrusive. Similar mineralization was encountered in EH-1, EH-2 and EH-3. Excellent open pit potential exists for about 12 million tons of 0.5% Cu - .025% Mo at about a 1:1 - waste : ore ratio.

Several holes along the southern contact of the intrusive indicate enriched copper values in brecciated and sheared rocks near ore grade (holes PD-1, HA-6, HA-11, DDH-70-2). Potential there looks fair for an aggregate of some 15 million tons of 0.4 - 0.5% Cu - 0.02% Mo at less than a 1:1 waste : ore ratio.

I recommend that we test the shallow enriched areas by means of rotary drilling (11 holes, average depth 250') and test the deep potential with one more diamond drill hole to a possible depth of 3,000'.

Our recent drilling has essentially substantiated previous interpretations that we are dealing with a major porphyry copper sulfide system, but primary grades are low and we have been unable to recognize a distinct grade increase with depth. Our drill holes have not tested the hypothesized parent quartz monzonite intrusive because both holes drilled through the complex into Precambrian rocks. The intrusive complex is either plunging to the west or has silled out into the Precambrian from feeder dikes. The lack of mineralization below the complex compared to that in hole PD-6 indicates the former. Considering the potential target, I still believe we have a good exploration bet.

Monthly payments of $1,100 will start September 7, 1974 for the Trust 60 ground.

Assay summaries of our drill holes, a generalized geologic and drill hole map, and a conceptual cross section are enclosed, please refer to logs prepared by Al Perry for detailed rock descriptions.

Budget Estimate: To Complete Recommended Program

Core Drilling	3000'	@$16.00	$ 48,000
Rotary Drilling	3000'	@$5.00	15,000
Mobilization-Demobilization		@$1,000	1,000
Roads		@$5,000	5,000
Consulting	30 days	@$110	3,300
Air travel	5 trips	@$125	625
Auto	5 trips	@$80	400
Meals, lodging, entertainment (5)		@$50	250
Labor 20 days		@$40	800
Assays 750	Cu-Mo	@$4.50	3,375
Land - Gillings	4 months	@$550	1,650
Trust 60	4 months	@$1,100	4,400
Miscellaneous			1,200
			$ 85,000

ASSAY SUMMARY

CC-3

Interval	Intercept	0/0 Cu	0/0 Mo	Equiv. @ Mo.=3.2xCu
0 - 9	9'	No Core	No Core	
9 - 110	101'	0.04	0.01	0.07
110 - 135	25'	0.24	0.009	0.27
135 - 270	135'	0.42	0.0115	0.46
270 - 445	175'	0.28	0.0247	0.36
445 - 690	245'	0.20	0.0145	0.25
690 - 886	196'	0.12	0.003	0.13

CC-4

12 - 160	148'	0.18	0.006	0.20
160 - 440	280'	0.10	0.004	0.11
440 - 1030	590'	0.15	0.02	0.22
1030 - 1120	90'	0.26	0.03	0.36
1120 - 1380	260'	0.13	0.01	0.16
1380 - 1420	40'	0.08	0.03	0.16
1420 - 1470	50'	0.01	0.001	0.01
1470 - 1611	141'	0.04		

J. N. Swinderman

JNS:rm

EARTH RESOURCES COMPANY MEMO

January 31, 1974

To: W. C. Cole

From: J. N. Swinderman

Re: LITTLE COPPER CREEK

SUMMARY and RECOMMENDATIONS:

Extensive efforts by various exploration companies have defined a major sulfide system at Little Copper Creek but have failed to define a distinct orebody. In spite of excessive drilling and negative interpretations, I believe the most promising area has yet to be tested. Field interpretation of outcrops, core and available data leads me to believe that we are looking at the upper, subvolcanic expression of a porphyry copper intrusive complex which crops out on land largely controlled by Earth Resources Company and Day Mines. I recommend that we test this area for economic mineralization by means of diamond drilling.

GEOLOGY and MINERALIZATION

The area of the enclosed map depicted as quartz porphyry includes rocks with volcanic textures which have been intruded by complex, variable textured quartz monzonite porphyry "dikes". The "dikes" contain impressive stockwork veinlets of quartz, pyrite, chalcopyrite and molybdenite. Pyrite and chalcopyrite are disseminated in the groundmass. Chalcocite has replaced much of the fine chalcopyrite in surface outcrops. Alteration assemblages are argillic in the volcanics and clay-sericite to phyllic in the "dikes". Argillic and propylitic assemblages are present in the Precambrian rocks.

There is an excellent exploration chance that the quartz monzonite porphyry dikes are genetically related to a major porphyry copper sulfide system. If so, with depth, volcanic textures should give way to porphyry textures and argillic and clay-sericite mineral assemblages will give way to phyllic or biotite-orthoclase assemblages containing possible ore grade, primary mineralization.

DRILLING

To [illegible] far, drilling has been concentrated in the Precambrian granodiorit[illegible]plites and hybrid porphyry, where obvious oxide copper occurrences [illegible] fracture controlled.

Hole 70-1 penetrated to 1500 feet in the dark groundmass, hybrid porphyry but showed no increase in copper content, bottoming in 0.05% copper. Hole PD-6 penetrated to 1236 feet, probably in granodiorite, copper content apparently increased from 0.10% at 700 feet to 0.14% from 700 to the bottom at 1236 feet. Hole CC-2 penetrated to 921 feet in porphyry dikes and Precambrian granodiorite; copper content generally decreased from slightly greater than 0.10% above 550 feet to less than 0.10% below 550. Porphyry dikes were more prevalent in the upper portion of the hole.

Except for the shallow holes recently drilled by Essex, the porphyry has only one significant test, hole 70-3. Copper content increased from about 0.12% to about 0.18% in the quartz monzonite porphyry intercepted from 420 feet to the bottom of the hole at 590 feet. Stockwork veining and potassic alteration also increased markedly in this interval.

Holes HA-1, HA-9, EH-2, EH-3 and EH-19 encountered chalcocite enrichment near ore grade in the porphyry intercepts. This enrichment was apparently not bottomed in holes EH-2, EH-3 and EH-19.

LAND CONSIDERATIONS

In the area of interest land control is shared by four owners. The patented Dean Rose ground east of the intrusive center has an asking price of $300,000. The owners will presently not consider an option agreement. Because of the price this land is not worth tying up at this stage. If an orebody is discovered we will have to negotiate for any needed ground.

The Trust 60 ground on the west edge of the intrusive center will go for a 3% NSR royalty, but owners are presently asking about $3,600 front money and advance royalties of $1200 per month for the first year, escalating to $50,000 annual minimum after the fourth year. Because our drilling will benefit this ground, we might negotiate a free one year option if we drill the property ourselves. We should attempt this and also attempt to reduce advance royalty payments. If successful we should option this ground before drilling.

The Green Mountain Mill Site is owned by a woman who considers it of sentimental value and who is asking an unrealistic $56,000 for the five acre site. This ground is not critical to exploration and need not be considered until a mine is developed.

The central intrusive area is controlled by Earth Resources Company and Days Mines and presently commands $500 per month payment for the two patented Little Copper claims. If Days Mines considers the project worthwhile they should continue to share expenses. If not, we should finance the initial drilling ourselves.

OBJECTIVES

Our objective is to test the target area by drilling. A vertical diamond drill hole located near the center of the most altered area should either substantiate or negate the concept of potential ore grade mineralization at depth and will further test the chalcocite enrichment encountered in hole EH-2. Some provision should be allowed for alternative drilling if unexpected conditions are encountered. Results of this drilling should be evaluated before additional work or abandonment is recommended. Positive results will require at least 4000 feet of additional drilling to assess the advisibility of developing the deposit or selling it to a major producer.

BUDGET

A Budget estimate based on one 1500 foot diamond drill hole follows:

Drilling 1500 NX min.	@	16	24,000
Mobilization-demobilization	@	500	500
Consulting 15 days	@	110	1,650
Gillings payments 4 months	@	500	2,000
Air travel 3 trips	@	100	300
Auto 3 trips	@	70	210
Meals,Lodging,Entertainment 3 trips	@	35	105
Labor 7 days core splitting	@	25	175
Core storage 4 months	@	20	80
Miscellaneous	@	700	700
Assay 70 Cu- Mo.	@	4	280
			$30,000
Trust 60 Land Down	@	3600	3,600
4 Months Minimum Royalty	@	1200	4,800
			$38,400

J. N. Swinderman

JNS:rm

PERRY, KNOX, KAUFMAN, INC.
MINERAL EXPLORATION AND DEVELOPMENT

OFFICES:

TUCSON, ARIZONA (BUSINESS)
2343 E. BROADWAY, SUITE 206
P. O. BOX 12754, ZIP 85732
TELEPHONE (602) 622-0582

SPOKANE, WASHINGTON
NORTH 20 PINES ROAD, SUITE 21
P. O. BOX 14336, ZIP 99214
TELEPHONE (509) - WA 4-0878

Tucson, Arizona
April 8, 1975

Mr. J. Bruce Imswiler
Manager of Expl.-W.USA

IMC
Suite 12, 390 Freeport Blvd.
Sparks, Nevada 89431

As you know, Earth Resources Company and PKK recently completed shallow rotary percussion drilling at Copper Creek (Little Copper Creek) near Prescott -- in the process outlining a small reserve of low grade sulfide mineralization, considered sub-economic at this time. Earth Resources is not prepared to undertake additional exploration in search of deeper, primary ores. We now seek to option the properties under our control to a Company interested in searching for these possible deeper copper-molybdenum sulfide ores. As your Company and others have shown an interest in learning more of this opportunity we submit the attached data for your study.

Tabulation of Data:

1. Summary Report, Near-Surface Copper-Molybdenum Sulfide Mineralization at Copper Creek, March, 1975.
2. Claim Map - Scale 1"- 500'.
3. Generalized Geologic and Drill Hole Map - Scale 1"-500'.
4. Conceptual Geologic Section - 1"-500'.
5. Geologic-Assay log - CC-4 (Earth-PKK's deep hole).
6. Recommendation of Swinderman - Jan. 31, 1974.
7. " " " - Aug. 7, 1974.

Other data including the logs of other Earth-PKK holes (CC1 thru CC3) and some Norandex holes; as well as all Earth-PKK cores and some Norandex cores are available for inspection to seriously interested parties.

The terms of option for both the Gillings and Trust 60 lands and terms proposed by Earth-PKK are outlined in the attached pages.

Earth-PKK expect to hold the Trust 60 ground for a reasonable period of time in order to allow evaluation by others to whom this data is submitted, but we urge: 1) your expeditious study if interested, or 2) your prompt rejection if the exploration concept, the risk, option terms, etc. are such as to be of no interest to your Company.

In the event your Company does not enter into an Agreement with ERC-PKK on the subject properties we request that all data provided be promptly returned to PKK-Tucson office.

We thank you for your initial interest. We would be pleased to answer any questions you might have.

A. J. Perry
PERRY,KNOX,KAUFMAN,INC.

copy: Earth Resources, Mr. Wm Cole

Attachments

ABSTRACT

Gillings Exploration and Option Agreement:

Effective date- July 14, 1971

Property - Little Copper #2 and #3, patented lode claims (see claims map)

Term - 5 years

Schedule of Payments - currently and until expiration of term, $550/mo + $300 interest each July 14.

Termination - upon 90 days written notice

Total purchase price - $65,000 - all payments to apply (remaining to be paid, about $48,000)

Trust 60 Lease Agreement and Option to Purchase

Effective date - March 7, 1974.

Property - 15 patented claims, 8 unpatented lodes and 2 unpatented millsites (see claims map)

Term - 20 years and thereafter, if mining

Schedule of Payments -

1) Advanced Royalties - currently- $1650/mo.
   March 7, 1976 thru Feburary 7, 1977 - $2200/mo.
   March 7, 1977 thru term - $4125/mo.

2) Production royalty - 3% NSR thru buyout.

Termination - 30 days notice

Purchase Price - $5 million (all payments apply)

4/75 PKK, Inc.

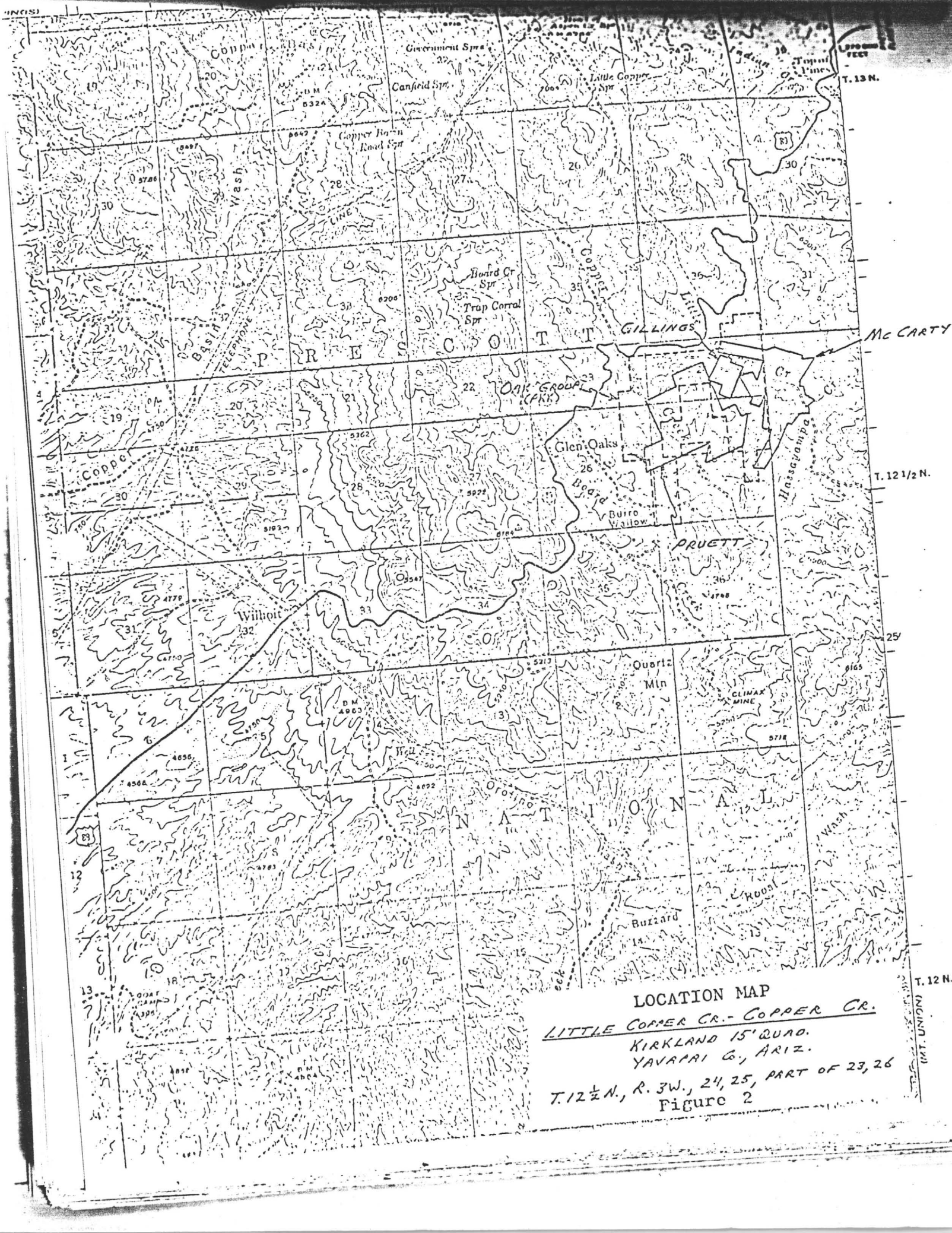
PROPOSED TERMS TO PROSPECTIVE OPTIONEES - Copper Creek

1) Optionee would receive a 1 year (minimum) option assuming all property burdens (payments, assessments, etc.)

2) At the end of 1 year, if optionee desired to continue, a cash payment of $100,000 would be made Earth Resources; with optionee naturally continuing with all obligations during ensuing option months.

3) If optionee desired to continue beyond the end of the 3d year, a further payment of $500,000 would be made ERC-PKK. Earth and PKK would have no further interest in the property or the project.

4) After the first year, termination could be achieved with 30 days notice.



LOCATION MAP

LITTLE COPPER CR.- COPPER CR.

KIRKLAND 15' QUAD.

YAVAPAI CO., ARIZ.

T. 12½ N., R. 3W., 24, 25, PART OF 23, 26

Figure 2

microscope examination of wet CC74 series cuttings.

Silicification is particularly well-developed in the North Area -- perhaps to the extent of making a substantial difference in any anticipated excavation.

The obvious overlapping ("telescoping") of alteration types was early recognized by Sayers of PKK and supported by the limited petrographic work accomplished.

RESERVE SUMMARY

Reserves of copper/molybdenum-bearing material available in the two areas outlined as North and South areas on Figures 2 and 3, using a 0.25% Cu eq. exterior cutoff (0.20% Cu eq. interior cutoff) are as follows:

North Area - 12,993,280 tons - 0.428 Cu eq.

South Area - 8,371,520 tons - 0.410 Cu eq.

Grand Total- 21,364,800 tons - 0.42 Cu eq.

Total waste measured, both areas, was 19,587,424 tons, resulting in a waste (all categories) to ore ratio of 0.92:1.

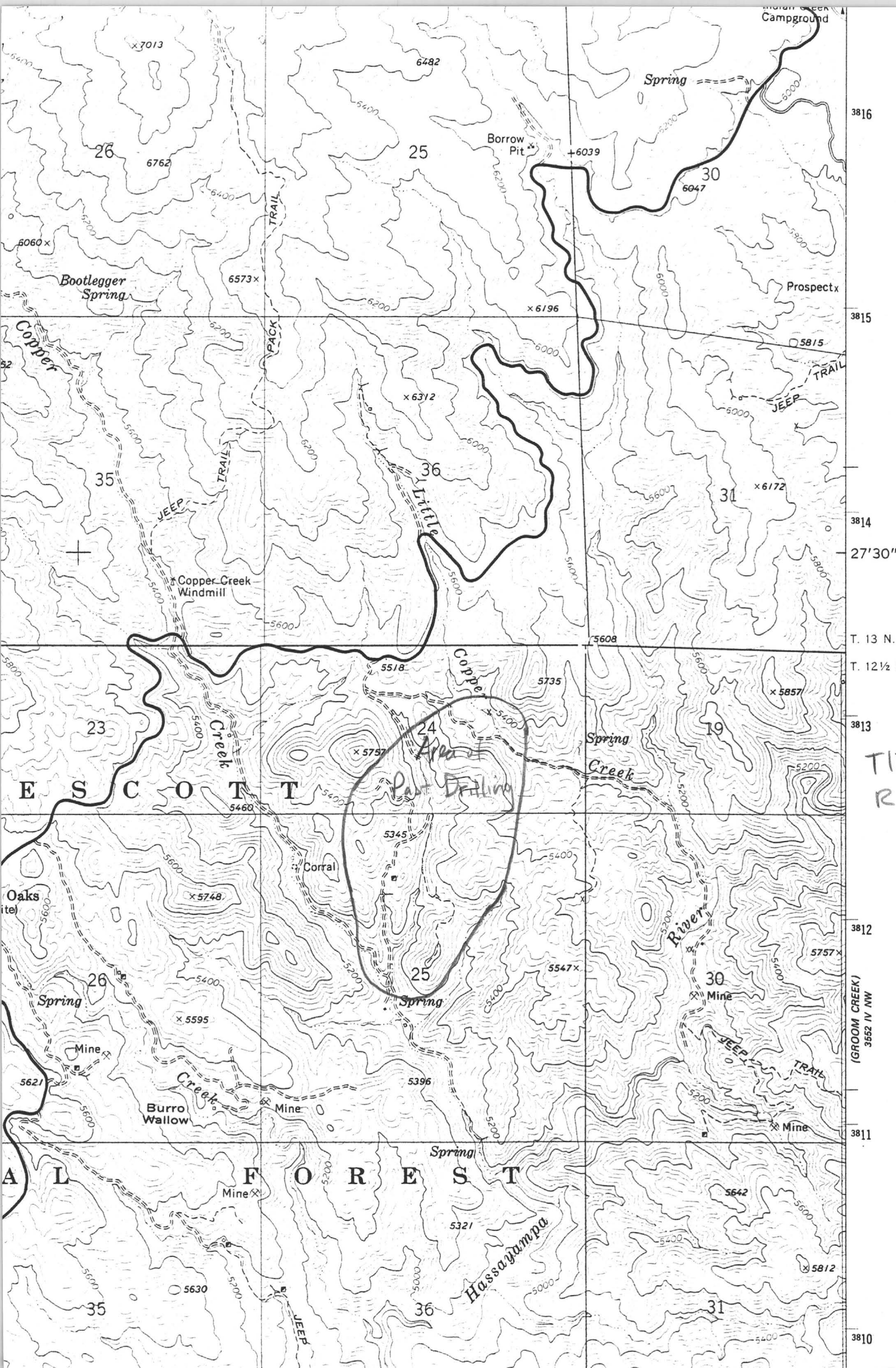
You are referred to the appendix for the detail and further summary of the reserve and waste calculations.

OREBODY CONFIGURATIONS

Figure 2, used as an overlay to Figure 1, will show that the North Area "orebody" has dimensions of approximately 1800' X 1100'. Ore thicknesses vary from 10 to 185 feet. Sections A, B, C and D show that the ore is generally flat lying and irregularly tabular, with a slight westerly dip. The ore (using a 0.25% Cu eq. cutoff) tends to be thicker on the west side of the body. There is a tendency for the better zone to drape downward with decreased surface elevations. Chalcocite was measured in the top of DDH CC-4 located just outside the west edge of North Area oreblock (but inside the proposed pit), illustrating that chalcocite can extend beneath valley bottoms, though this may be an exception.

The South Area (use overlay, Figure 3) is an irregular ellipse measuring approximately 1600' X 700' in plan. Ore thicknesses vary from 35 to 160 feet. Sections E, F, G and H illustrate interpreted ore configurations. A particularly good thickness of chalcocite is measured in HA-6, which was collared on a topographic prominence.

3/4/92 - Brief Review suggests that the reserve in both N & S areas is ripe for expansion laterally, likely not at depth, perhaps so w/ lower cut-off, etc. Drilling likely limited to finding deep sulfide rather than shallow chalcocite. Need to evaluate now. Are apparently +4 feet above water table in N. Ore body.


Indian Creek Campground
Spring
Borrow Pit
6482
7013
6762
6039
6047
6060
6573
6196
6312
6172
5815
5757
5345
5460
5518
5608
5735
5857
5748
5547
5595
5621
5396
5321
5642
5630
5812
5757
26
25
30
35
36
31
23
24
19
26
25
30
35
36
31
Bootlegger Spring
Copper Creek
TRAIL
PACK
JEEP TRAIL
Little Copper Creek
Copper Creek Windmill
Prospect
Spring
Creek
Corral
Oaks
Spring
Mine
Burro Wallow
Mine
Mine
Hassayampa River
Mine
Mine
JEEP
E S C O T T
A L F O R E S T
Area of Past Drilling
3816
3815
3814
27'30"
T. 13 N.
T. 12½ N.
3813
3812
3811
3810
(GROOM CREEK) 3552 IV NW

T12½N
R3W

U of A Theses re geology of Cu deposits, districts, AZ & Mexico

Beane

Bishop

Bollin

Butler

Dean-Durrel - El Alacran Area, N. Sonora, Mex.

Farias

Gerla

Gillette

Hammer

→ Hennessy - Little Cu Creek Area SW of Prescott. - says is eroded base of deposit

- has maps of protore (hypogene grade) at >.10% Cu-70, along w/ grades ~ blanket

Hillebrand

Koenig

Laine

Roe

Spatz

Wendt

Weitz

4/1/92 Talk w/ Yavapai Cty. Assess. (602) 771-3220

Secs. 24, 25 T 12½ N, R 3W

207 Acres. Parcel # 205-15-013
Deeded to 1st Title and Trust Co. of AZ
mostly in Sec. 25 Trust #60
Bills to Irene ~~Cummings~~ Cummings
7014 N. 11th pl.
Phoenix 85020

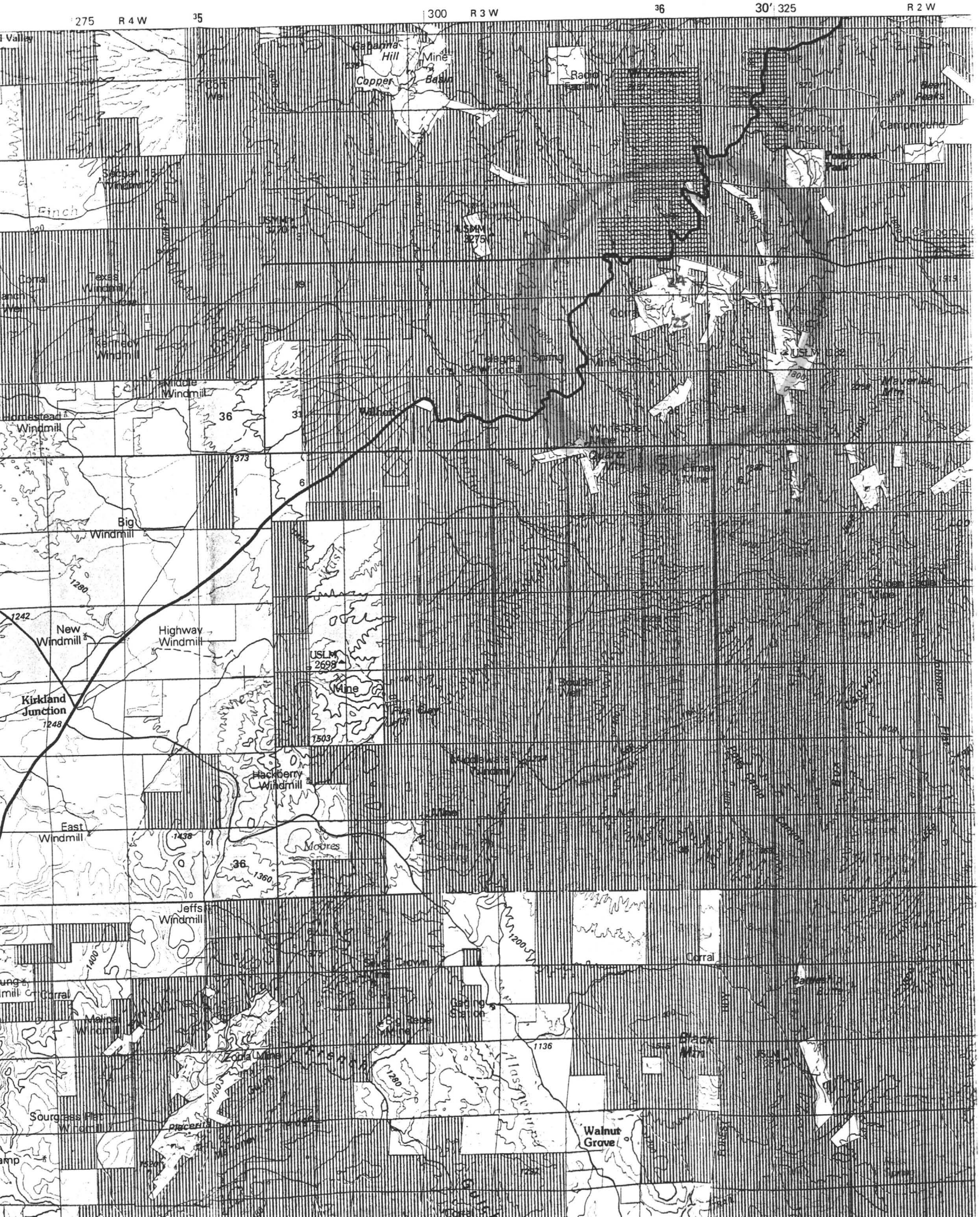
---

40 Acres 205-15-09
mostly in Sec. 24 Joseph Coombs
P.O. Box 3812 Prescott 86302

~~205-15-00~~

---

for NE corner Sec. 24
and Sec. 19, ~~30~~? 205-15-12
122 Acres
Marshall Morinaka
P.O. Box 3867 Prescott 86302



275
R 4 W
35
300
R 3 W
36
30'
325
R 2 W
Hill
Mine
Copper
Basin
Radio
Facility
Bear
Peaks
Campground
Fort
Well
Finch
USMM
3275
Corral
Texas
Windmill
Kennedy
Windmill
Telegraph Spring
Middle
Windmill
Homestead
Windmill
Wilhoit
36
Maverick
Mtn
USLM
Mine
Quartz
Big
Windmill
1280
1242
New
Windmill
Highway
Windmill
USLM
2698
Mine
Kirkland
Junction
1248
1503
Hackberry
Windmill
East
Windmill
1438
Moores
36
1360
Jeffs
Windmill
1400
1200
Corral
1136
Black
Mtn
Zonia Mine
Sourgrass Flat
Windmill
Placerita
Walnut
Grove

12.2N 3 W 22 SE

H 18

REPORT DATE: NOV 8, 1991
ADMINISTRATIVE STATE: ARIZONA

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PAGE NO: 4014
PCN: LT892PP1

GEOGRAPHIC INDEX
ALL CLAIMS

MERIDIAN: GILA-SALT R.

TWNSHP	RANGE	SEC	SUBDV	CTY	GEO DIST	BLM SERIAL NO.	CASE TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK:PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
12.2N	3 W	22	SE		2	109829*LD		P M CLAIMS NO 36	MORAVEC EMIL	109804	1318:117	5/21/1980	1990	
			NE	25		222533*PL		PARAKEET #1	MARTIN RALPH		: 11	5/03/1984	0000	12/26/1985
									MARTIN PAT					
									WOOD TERRY					
									WOOD KAY					
			23 SW	25		109820*LD		P M CLAIMS NO 27	POGUE ROY JR	109804	1304:117	5/20/1980	1990	
			SW	25		109825*LD		P M CLAIMS NO 32	MORAVEC EMIL POGUE ROY JR	109804	1318:109	5/21/1980	1990	
			SW	25		109830*LD		P M CLAIMS NO 37	MORAVEC EMIL POGUE ROY JR	109804	1318:119	5/21/1980	1990	
			SE	25		136680*LD		GOLDEN NUGGATT #1	MORAVEC EMIL IRWIN CHARLES		1390:496	6/13/1981	1988	7/18/1990
			SE	25		136681*LD		GOLDEN NUGGATT #2	IRWIN WILHELMINA IRWIN CHARLES	136680	1390:498	6/13/1981	1988	7/18/1990
			SE	25		136682*LD		GOLDEN NUGGATT #3	IRWIN WILHELMINA IRWIN CHARLES	136680	1390:500	6/13/1981	1988	7/18/1990
			SE	25		136683*LD		GOLDEN NUGGATT #4	IRWIN WILHELMINA IRWIN CHARLES	136680	1390:502	6/13/1981	1988	7/18/1990
			SE	25		136684*LD		GOLDEN NUGGATT #5	IRWIN WILHELMINA IRWIN CHARLES	136680	1390:504	6/13/1981	1988	7/18/1990
			SE	25		136685*LD		GOLDEN NUGGATT #6	IRWIN WILHELMINA IRWIN CHARLES	136680	1390:506	6/13/1981	1988	7/18/1990
			SE	25		136686*LD		GOLDEN NUGGATT #7	IRWIN WILHELMINA IRWIN CHARLES	136680	1390:508	6/13/1981	1988	7/18/1990
			SW	25		140264*LD		GOLDEN NUGGETT NO 9	IRWIN WILHELMINA IRWIN CHARLES		1408:420	8/15/1981	1988	7/18/1990
			SW	25		140265*LD		GOLDEN NUGGETT NO 10		140264	1408:424	8/15/1981	1988	7/18/1990
			SW	25		140266*LD		GOLDEN NUGGETT NO 11		140264	1408:422	8/15/1981	1988	7/18/1990
			SE	25		166760 PL		VIRAGO MINE NO 1 PRI	ROBINSON DON		1461:28	5/01/1982	0000	4/30/1987
			NE	25		166761 PL		EASY DOES OT #2	ALLEN EARL	166760	1461:30	5/01/1982	1986	3/21/1988
									ALLEN RONALD					
			SE	25		170906 PL		EASY DOES IT #4	ALLEN EARL		1467:699	5/17/1982	0000	3/05/1986
			SE	25		171169 PL		EASY DOES IT NO 12			1468:254	6/01/1982	1986	3/21/1988
									ALLEN RONALD					
			SE	25		191874 PL		EASY DOES IT #14	ALLEN EARL	191872		2/01/1983	1986	3/21/1988
			SE	25		211697*PL		ER #1	ALLEN RONALD ALLEN EARL			12/13/1983	1986	3/21/1988
									ALLEN RONALD					
			NE	25		251525*PL		LIL EGYPT	ARMSTRONG RICHARD	251525	1816:288	4/30/1986	1987	3/09/1989
			SE	25		260148*PL		EDNA MAY		260148	1858:834	9/14/1986	0000	3/21/1988
			NE	25		260873*LD		LIL EGYPT		260873	1866:56	10/14/1986	1987	3/09/1989
			NE	25		310224*PL		EASY DOES IT #2	PACHECO ELADIO A JR	310224	2308:0365	11/26/1990	0000	
			NE	25		312220*LD		SCENT		312220	2334:0492	2/26/1991	0000	
		24	ALL	25		31275 LD		OAK 4	HOUSTON OIL & MNRLS		621:857	8/21/1970	1981	10/04/1982

* * DISCLOSURE * * ALL INFORMATION RECEIVED IN THIS OFFICE MAY NOT YET BE LISTED ON THIS REPORT. NAMES AND ADDRESSES ARE ENTERED AS THEY APPEAR ON THE LOCATION NOTICE OR ARE ABBREVIATED TO FIT LIMITED SPACE; THEREFORE THEY MAY NOT APPEAR IN THE EXPECTED SEQUENCE. A BLANK LATEST ASSESSMENT YEAR IN THIS REPORT DOES NOT CONSTITUTE AN ABANDONED CLAIM. * AFTER S/N INDICATES LAND STATUS CHECKED.

B-132 X 64 10-6

12.2N 3 W 24 SE

REPORT DATE: NOV 8, 1991
ADMINISTRATIVE STATE: ARIZONA

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

GEOGRAPHIC INDEX
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MERIDIAN: GILA-SALT R.

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			SE	25		31277	LD	OAK 6		31275	621:859	8/21/1970	1981	10/04/1982
			SE	25		31278	LD	OAK 7		31275	621:860	8/21/1970	1981	10/04/1982
			SE	25		31279	LD	OAK 8		31275	621:861	8/20/1970	1981	10/04/1982
			SE	25		31280	LD	OAK 9		31275	621:862	8/20/1970	1981	10/04/1982
			SE	25		31281	LD	OAK 13		31275	621:866	8/22/1970	1981	10/04/1982
			SE	25		31282	LD	OAK 14		31275	621:867	8/22/1970	1981	10/04/1982
			SE	25		31283	LD	OAK 15		31275	621:868	8/22/1970	1981	10/04/1982
			NE	25		31285	LD	OAK 40		31275	621:884	8/22/1970	1981	10/04/1982
			SW	25		136684*	LD	GOLDEN NUGGATT #5	IRWIN CHARLES IRWIN WILHELMINA	136680	1390:504	6/13/1981	1988	7/18/1990
			SW	25		136685*	LD	GOLDEN NUGGATT #6	IRWIN CHARLES IRWIN WILHELMINA	136680	1390:506	6/13/1981	1988	7/18/1990
			SW	25		136686*	LD	GOLDEN NUGGATT #7	IRWIN CHARLES IRWIN WILHELMINA	136680	1390:508	6/13/1981	1988	7/18/1990
			SW	25		136687*	LD	GOLDEN NUGGATT #8	IRWIN CHARLES IRWIN WILHELMINA	136680	1390:510	6/13/1981	1988	7/18/1990
			SW	25		170906	PL	EASY DOES IT #4	ALLEN EARL		1467:699	5/17/1982	0000	3/05/1986
			SW	25		171169	PL	EASY DOES IT NO 12	ALLEN RONALD		1468:254	6/01/1982	1986	3/21/1988
			E2	25		227614*	LD	REED #1	GIBSON CHARLES REED JIM	227612	: 00	8/15/1984	1985	3/23/1987
			E2	25		227615*	LD	REED #2	GIBSON CHARLES REED JIM	227612	: 00	8/15/1984	1985	3/23/1987
			E2	25		299323*	LD	NICOLE #1	MARINAKIS MARSHALL MARINAKIS DIANA COOMBS JOE COOMBS ROSE	299323	2177:0503	8/20/1989	1991	
			SE	25		299324*	LD	NICOLE #2	MARINAKIS MARSHALL MARINAKIS DIANA COOMBS JOE COOMBS ROSE	299323	2177:0505	8/20/1989	1991	
		25	NE	25		31281	LD	OAK 13	HOUSTON OIL & MNRLS	31275	621:866	8/22/1970	1981	10/04/1982
			NE	25		31282	LD	OAK 14		31275	621:867	8/22/1970	1981	10/04/1982
			NE	25		31283	LD	OAK 15		31275	621:868	8/22/1970	1981	10/04/1982
			NE	25		31284	LD	OAK 16		31275	621:869	8/22/1970	1981	10/04/1982
			S2	25		70952*	LD	PEACOCK NO. 1	CUMMINGS ROBERT P JR		559:85	7/01/1969	1991	
			NE,S2	25		70953*	LD	PEACOCK NO. 2		70952	559:86	7/01/1969	1991	
			E2	25		70954*	LD	PEACOCK NO. 3		70952	559:87	7/01/1969	1991	
			E2	25		70955*	LD	PEACOCK NO. 4		70952	559:88	7/14/1969	1991	
			E2	25		70956*	LD	PEACOCK NO. 5		70952	559:89	7/14/1969	1991	
			NE	25		70957*	LD	PEACOCK NO. 6		70952	765:911	7/03/1972	1991	
			NE	25		70958*	LD	PEACOCK NO. 6 ;		70952	765:912	7/03/1972	1991	
			W2	25		70959*	LD	PEACOCK # 11		70952	614:900	8/21/1970	1991	

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REPORT DATE: NOV 8, 1991
ADMINISTRATIVE STATE: ARIZONA

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

GEOGRAPHIC INDEX
ALL CLAIMS

MERIDIAN: GILA-SALT R.

TWNSHP	RANGE	SEC	SUBDV	CTY	BLM DIST	SERIAL NO.	CASE TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK:PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
12.2N	3 W	25	W2	25	2	70960*LD		PEACOCK # 12 FRACT	CUMMINGS ROBERT P JR	70952	614:901	8/21/1970	1991	
			S2	25		70961*MS		PEACOCK MILL S NO. 1		70952	559:91	7/01/1969	1991	
			SE	25		70962*MS		PEACOCK MILL S NO. 2		70952	559:92	7/01/1969	1991	
			SW	25		84667*LD		KAYLEEN	TRUFFA JOHN	84653		10/01/1979	1990	
			SW	25		84668*LD		CARI		84653		10/01/1979	1990	
			SW	25		84676*LD		CORI		84653		10/01/1979	1990	
			SW	25		84677*LD		CINDY		84653		10/01/1979	1990	
			SE	25		101693*LD		LOG CABIN	GOETTSCH DOUG		1292:737	4/17/1980	1987	12/23/1988
			S2	25		110882*PL		JOSHUA #1	CROUCH JOSEPH		1321:738	9/03/1980	1990	
			SW	25		111716 LD		DOROTHEY E #1	HODGKINSON & PEET		1317:905-	8/15/1980	1982	4/09/1986
			SW	25		111760*LD		JAMES CLAIMS NO 12	ROY C POGUE JR	111746	1327:421	7/05/1980	1990	
			SW	25		111763*LD		JAMES CLAIMS NO 15		111746	1327:427	7/05/1980	1990	
			SW	25		111764*LD		JAMES CLAIMS NO 16		111746	1327:429	7/05/1980	1990	
			SW	25		129536*MS		STAR #1	IRWIN CHARLES		1376:865	4/23/1981	1988	7/18/1990
			SW	25		129537*MS		STAR #2	IRWIN WILHELMINA IRWIN CHARLES	129536	1376:867	4/23/1981	1988	7/18/1990
			SE	25		129542*MS		STAR #7	IRWIN WILHELMINA IRWIN CHARLES	129536	1380:110	5/08/1981	1988	7/18/1990
			SE	25		129543*MS		STAR #8	IRWIN WILHELMINA IRWIN CHARLES	129536	1380:108	5/08/1981	1988	7/18/1990
			S2	25		139189*LD		JOSHUA #1	IRWIN WILHELMINA CROUCH JOSEPH		1407:309	9/01/1981	1990	
			S2	25		163843 PL		DAY-AT-A-TIME #1	TURNER PAUL		1457:257	4/19/1982	0000	9/18/1985
			W2	25		163844 PL		EASY DOES IT CLAIM 1	MOORE ARLACE ALLEN EARL		1456:604	4/02/1982	0000	4/18/1983
			NW	25		166762 PL		EASY DOES OT #3		166760	1460:657	5/01/1982	0000	3/05/1986
			NW	25		170906 PL		EASY DOES IT #4			1467:699	5/17/1982	0000	3/05/1986
			SW	25		170907 PL		EASY DOES IT #5		170906	1467:701	5/12/1982	0000	3/05/1986
			SW	25		170908 PL		EASY DOES IT #7		170906	1467:695	5/17/1982	1986	3/21/1988
			S2	25		170909 PL		EASY DOES IT #8	ALLEN RONALD ALLEN EARL	170906	1467:697	5/17/1982	1986	3/21/1988
			NW	25		171165 PL		EASY DOES IT NO 6	ALLEN RONALD ALLEN EARL		1468:252	5/12/1982	0000	6/10/1985
			SE	25		171166 PL		EASY DOES IT NO 9			1468:250	5/17/1982	1986	3/21/1988
			ALL	25		171167 PL		EASY DOES IT NO 10	ALLEN RONALD ALLEN EARL		1468:256	6/01/1982	1986	3/21/1988
			N2	25		171168 PL		EASY DOES IT NO 11	ALLEN RONALD ALLEN EARL		1468:248	6/01/1982	0000	6/10/1985
			SW	25		191872 PL		EASY DOES IT #1				3/02/1983	1986	3/21/1988
			NW	25		227615*LD		REED #2	ALLEN RONALD GIBSON CHARLES	227612	: 00	8/15/1984	1985	3/23/1987
			SE	25		270439*LD		GOSSAN #1	REED JIM KOBERDANCE JOHN	270439	1927:0135	4/27/1987	0000	5/05/1989
			SE	25		270440*LD		GOSSAN #2		270439	1927:0137	4/27/1987	0000	5/05/1989

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PAGE NO: 4017
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GEOGRAPHIC INDEX
ALL CLAIMS

MERIDIAN: GILA-SALT R.

LEGAL DESCRIPTION TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO.	CASE TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK:PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
12.2N	3 W	25	SE	25	2	270441*LD		GOSSAN #3	KOBERDANCE JOHN	270439	1927:0139	4/27/1987	0000	5/05/1989
			SE	25		289441*LD		GOSSAN #1	MANTHORNE RAYMOND H	289441	2082:0516	8/11/1988	1990	
			SE	25		289442*LD		GOSSAN #2	GETCH CONSTRUCTION	289441	2082:0518	8/11/1988	1990	
			SE	25		289443*LD		GOSSAN #3		289441	2082:0520	8/11/1988	1990	
			SE	25		291185*PL		LOG CABIN	GOETTSCH DOUG	291185	2092:0709	10/28/1988	1990	
			SE	25		292690*PL		WILDCAT	SHADE TREE INVESTMEN	292689	2118:0023	1/23/1989	0000	6/17/1991
			NE	25		299324*LD		NICOLE #2	MARINAKIS MARSHALL MARINAKIS DIANA COOMBS JOE COOMBS ROSE	299323	2177:0505	8/20/1989	1991	
			NE	25		299325*LD		NICOLE #3	MARINAKIS MARSHALL MARINAKIS DIANA COOMBS JOE COOMBS ROSE	299323	2177:0507	8/20/1989	1991	
			NE	25		299326*LD		NICOLE #4	MARINAKIS MARSHALL MARINAKIS DIANA COOMBS JOE COOMBS ROSE	299323	2181:0894	8/20/1989	1991	
			S2	25		299489*PL		EASY DOES IT #9	ARMSTRONG BOBBY	299489	2193:0258	10/17/1989	0000	3/18/1991
			W2,SE	25		299508*PL		EASY DOES IT #1	ARMSTRONG CLYDE	299508	2194:0573	10/23/1989	1990	
			S2	25		299509*PL		EASY DOES IT #8		299508	2194:0571	10/23/1989	1990	
			NW	25		300396*PL		EASY DOES IT #3	LOGAN GENE	300396	2193:0245	10/19/1989	0000	1/10/1990
			SW	25		302123*LD		DAVIDS ROSE	ROSE DAVID R	302123	2229:0014	2/27/1990	0000	
			SE	25		313471*PL		ANNIE B #3	BROCK JOHN	313470	2347:0716	4/09/1991	0000	
			SE	25		317075*PL		DOUBLE EAGLE	BROCK BEATRICE A YOUNG GREG	317075		10/18/1991	0000	
		26		25		13598 LD		HACIENDA #5	MCALISTER BROOKS F MCALISTER JOHN E		1097:595	9/08/1977	0000	8/31/1979
				25		13599 LD		HACIENDA #6	MCALISTER BROOKS F MCALISTER JOHN E		1097:596	9/08/1977	0000	8/31/1979
				25		13601 LD		HACIENDA #8	MCALISTER BROOKS F MCALISTER JOHN E		1097:598	9/08/1977	0000	8/31/1979
				25		13602 LD		HACIENDA #9	MCALISTER BROOKS F MCALISTER JOHN E		1097:599	9/14/1977	0000	8/31/1979
			SE	25		34126*LD		A SQUARE	TRUFFA JOHN	34122	351:277	2/15/1965	1990	
			SW	25		84665*LD		PATRICA	T&R LAND & MINING TRUFFA JOHN	84653		10/01/1979	1990	
			SE	25		84667*LD		KAYLEEN		84653		10/01/1979	1990	
			SE	25		84668*LD		CARI		84653		10/01/1979	1990	
			SE	25		84675*LD		ADDIE		84653		10/01/1979	1990	
			SE	25		84676*LD		CORI		84653		10/01/1979	1990	
			SE	25		84677*LD		CINDY		84653		10/01/1979	1990	
			SW	25		84678*LD		LEONA		84653		10/01/1979	1990	
			S2	25		84679*LD		SANDY		84653		10/01/1979	1990	

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REPORT DATE: NOV 8, 1991
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GEOGRAPHIC INDEX
ALL CLAIMS

MERIDIAN: GILA-SALT R.

--LEGAL DESCRIPTION-- TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL CASE NO.	TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK:PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
12.2N	3 W	26	S2	25	2	84681	*LD	2 SARAHS	TRUFFA JOHN	84653		10/01/1979	1990	
			N2	25		98994	*LD	CHRISTINE CLAIMS NO7	POGUE ROY		1284:61	3/07/1980	1990	
									POGUE ROY JR					
			N2,SE	25		98995	*LD	CHRISTINE CLAIMS NO8	POGUE ROY	98994	1284:63	3/07/1980	1990	
									POGUE ROY JR					
			SE	25		98996	*LD	CHRISTINE CLAIMS NO9	POGUE ROY	98994	1284:65	3/07/1980	1990	
									POGUE ROY JR					
			S2	25		98997	*LD	CHRISTINE CLAIMSNO10	POGUE ROY	98994	1234:67	3/07/1980	1990	
									POGUE ROY JR					
			S2	25		98998	*LD	CHRISTINE CLAIMSNO11	POGUE ROY	98994	1284:69	3/07/1980	1990	
									POGUE ROY JR					
			SW	25		98999	*LD	CHRISTINE CLAIMSNO12	POGUE ROY	98994	1284:71	3/07/1980	1990	
									POGUE ROY JR					
			NW	25		100103	*LD	TIN CAN	POGUE ROY		1282:121	3/01/1980	1990	
									POGUE ROY JR					
									OLSON RON					
			NW	25		100104	*LD	CHRISTINE CLAIMS NO1	POGUE ROY	100103	1282:123	2/29/1980	1990	
									POGUE ROY JR					
			W2	25		100105	*LD	CHRISTINE CLAIMS NO2	POGUE ROY	100103	1282:125	2/29/1980	1990	
									POGUE ROY JR					
			W2	25		100106	*LD	CHRISTINE CLAIMS NO3	POGUE ROY	100103	1282:127	2/29/1980	1990	
									POGUE ROY JR					
			W2	25		100107	*LD	CHRISTINE CLAIMS NO4	POGUE ROY	100103	1282:129	2/29/1980	1990	
									POGUE ROY JR					
			NW	25		100108	*LD	CHRISTINE CLAIMS NO5	POGUE ROY	100103	1282:131	2/29/1980	1990	
									POGUE ROY JR					
			NW	25		100109	*LD	CHRISTINE CLAIMS NO6	POGUE ROY	100103	1282:133	2/29/1980	1990	
									POGUE ROY JR					
			NW	25		102006	*LD	PEARL NO 1	POGUE ROY		1285:019	3/08/1980	1990	
									POGUE ROY JR					
			W2	25		102007	*LD	PEARL NO 2	POGUE ROY	102006	1285:021	3/08/1980	1990	
									POGUE ROY JR					
			SW	25		102008	*LD	PEARL NO 3	POGUE ROY	102006	1285:023	3/08/1980	1990	
									POGUE ROY JR					
			SE	25		111717	*LD	BRENDA LUE #1	HODGKINSON & PEET	111716	1317:902-	8/15/1980	1988	7/13/1990
			NW	25		111746	*LD	COMPLETION NO 1	ROY C POGUE JR		1327:393	7/10/1980	1990	
			W2	25		111747	*LD	COMPLETION NO 2		111746	1327:395	7/10/1980	1990	
			SW	25		111748	*LD	COMPLETION NO 3		111746	1327:397	7/10/1980	1990	
			NE	25		111749	*LD	JAMES CLAIMS NO 1		111746	1327:399	7/05/1980	1990	
			NE	25		111750	*LD	JAMES CLAIMS NO 2		111746	1327:401	7/05/1980	1990	
			NE	25		111751	*LD	JAMES CLAIMS NO 3		111746	1327:403	7/05/1980	1990	
			NE	25		111752	*LD	JAMES CLAIMS NO 4		111746	1327:405	7/05/1980	1990	
			E2	25		111753	*LD	JAMES CLAIMS NO 5		111746	1327:407	7/05/1980	1990	
			E2	25		111754	*LD	JAMES CLAIMS NO 6		111746	1327:409	7/05/1980	1990	

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PAGE NO: 4019
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GEOGRAPHIC INDEX
ALL CLAIMS

MERIDIAN: GILA-SALT R.

TWNSHP	RANGE	SEC	SUBDV	CTY	GEO BLM DIST	SERIAL NO.	CASE TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK:PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
12.2N	3 W	26	E2	25	2	111755*LD		JAMES CLAIMS NO 7	ROY C POGUE JR	111746	1327:411	7/05/1980	1990	
			E2	25		111756*LD		JAMES CLAIMS NO 8		111746	1327:413	7/05/1980	1990	
			SE	25		111757*LD		JAMES CLAIMS NO 9		111746	1327:415	7/05/1980	1990	
			SE	25		111758*LD		JAMES CLAIMS NO 10		111746	1327:417	7/05/1980	1990	
			SE	25		111759*LD		JAMES CLAIMS NO 11		111746	1327:419	7/05/1980	1990	
			SE	25		111760*LD		JAMES CLAIMS NO 12		111746	1327:421	7/05/1980	1990	
			SE	25		111761*LD		JAMES CLAIMS NO 13		111746	1327:423	7/05/1980	1990	
			SE	25		111762*LD		JAMES CLAIMS NO 14		111746	1327:425	7/05/1980	1990	
			SE	25		111763*LD		JAMES CLAIMS NO 15		111746	1327:427	7/05/1980	1990	
			NE	25		136683*LD		GOLDEN NUGGATT #4	IRWIN CHARLES IRWIN WILHELMINA	136680	1390:502	6/13/1981	1988	7/18/1990
			E2	25		165566 LD		BURRO WALLOW NO 1	SHALLENBERGER JOE PORTER CHARLES KILBOURNE DONALD		1451:771	3/30/1982	1983	10/10/1985
			SE	25		165567 LD		BURRO WALLOW NO 2	TRACEY LLOY SHALLENBERGER JOE PORTER CHARLES	165566	1451:773	3/30/1982	1983	10/10/1985
			SE	25		165568 LD		BURRO WALLOW NO 3	TRACEY LLOY SHALLENBERGER JOE PORTER CHARLES	165566	1451:775	3/30/1982	1983	10/10/1985
			SE	25		165569 LD		BURRO WALLOW NO 4	TRACEY LLOY SHALLENBERGER JOE PORTER CHARLES	165566	1451:775	3/30/1982	1983	10/10/1985
			NE	25		170906 PL		EASY DOES IT #4	TRACEY LLOY ALLEN EARL		1467:699	5/17/1982	0000	3/05/1986
			E2	25		191873 PL		EASY DOES IT #13		191872		3/02/1983	1986	3/21/1988
			NE	25		211697*PL		ER #1	ALLEN RONALD ALLEN EARL ALLEN RONALD			12/13/1983	1986	3/21/1988
			SE	25		302123*LD		DAVIDS ROSE	ROSE DAVID R	302123	2229:0014	2/27/1990	0000	
		27		25		13594 LD		HACIENDA #1	MCALISTER BROOKS F MCALISTER JOHN E		1094:613	9/01/1977	0000	8/31/1979
				25		13595 LD		HACIENDA #2	MCALISTER BROOKS F MCALISTER JOHN E		1094:614	9/01/1977	0000	8/31/1979
				25		13596 LD		HACIENDA #3	MCALISTER BROOKS F MCALISTER JOHN E		1097:593	9/01/1977	0000	8/31/1979
				25		13597 LD		HACIENDA #4	MCALISTER BROOKS F MCALISTER JOHN E		1097:594	9/01/1977	0000	8/31/1979
				25		13598 LD		HACIENDA #5	MCALISTER BROOKS F MCALISTER JOHN E		1097:595	9/08/1977	0000	8/31/1979
				25		13599 LD		HACIENDA #6	MCALISTER BROOKS F MCALISTER JOHN E		1097:596	9/08/1977	0000	8/31/1979
				25		13600 LD		HACIENDA #7	MCALISTER BROOKS F MCALISTER JOHN E		1097:597	9/08/1977	0000	8/31/1979

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GEOGRAPHIC INDEX
ALL CLAIMS

MERIDIAN: GILA-SALT R.

LEGAL DESCRIPTION- SHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO.	CASE TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK:PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
2 N	2 W	36	NE	25	2	309086	*PL	HIDDEN TREASURES	WARD JOE	309086	2301:0753	10/09/1990	0000	
.2N	2 W	19	SE	25		107545	*PL	NUGGETT	PASCOE JAMES		1299:375-	5/16/1980	1990	
			E2	25		107758	LD	ASHBY I	SZCZOTKA THOMAS		1293:285-	4/19/1980	1984	2/07/1986
			NW	25		207640	*LD	LOOKOUT MINE #9	IRWIN CHARLES IRWIN WILHELMINA	207632	1572:664	9/01/1983	1988	7/18/1990
			NW	25		207641	*LD	LOOKOUT MINE #10	IRWIN CHARLES IRWIN WILHELMINA	207632	1572:666	9/01/1983	1988	7/18/1990
			NW	25		248300	*LD	LIGHTNING FLAME #18	JONES DAVID	248283	1739:380	1/20/1986	0000	5/25/1988
			NW	25		248301	*LD	LIGHTNING FLAME #19		248283	1789:382	1/20/1986	0000	5/25/1988
			N2	25		248302	*LD	LIGHTNING FLAME #20		248283	1789:384	1/20/1986	1988	12/26/1989
			NE	25		249024	*LD	LIGHTNING FLAME #25		249024	1796:79	2/20/1986	1988	12/26/1989
			ALL	25		250476	*PL	VALENTINE	SZCZOTKA THOMAS	250476	1793:851	2/12/1986	1989	6/19/1991
			SE	25		313472	*PL	ANNIE B #4	BROCK JOHN BROCK BEATRICE A	313470	2347:0718	4/09/1991	0000	
			SE	25		316609	*PL	PAINT YOUR WAGON	YOUNG GREG HENRY JIM	316609		10/06/1991	0000	
		20	NE	25		26581	PL	YOUNG MINING CO #1	YOUNG, MARVIN E WORKS, SHERRON L COLLIE, JERRY		1151:340	7/10/1978	1979	6/06/1983
			N2	25		26582	PL	YOUNG MINING CO #2	YOUNG, MARVIN E WORKS, SHERRON L COLLIE, JERRY	26581	1151:339	7/10/1978	1979	6/06/1983
			SW	25		97794	PL	VALENTINE MINE	WALKER ROBERT B		1278:916	1/01/1980	0000	5/23/1986
			SW	25		97795	PL	YELLOW NUGGET	RADER LARRY		1278:914	1/01/1980	0000	11/06/1985
			N2	25		100672	LD	NEW BONO	GIFFORD-HILL		1282:92	2/29/1980	1982	9/17/1985
			NE	25		100673	LD	NEW BONO NO 1		100472	1282:94	2/29/1980	1982	9/17/1985
			NW	25		140085	LD	ORE CAR	JLR MINING CO ASSOC		1406:281	8/26/1980	0000	10/06/1981
			NW	25		140657	LD	SIVER-BELL	RADER LARRY WALKER ROBERT B		1411:646	9/01/1981	0000	11/06/1985
			S2	25		142346	*LD	HALCYON NO 1	CAROUSO NICHOLAS		1418:539	10/18/1981	1990	
			SE	25		142347	*LD	HALCYON NO 2		142346	1418:541	10/18/1981	1990	
			S2	25		142348	*LD	HALCYON NO 3		142346	1418:543	10/18/1981	1990	
			SE	25		142349	*LD	HALCYON NO 4		142346	1418:545	10/18/1981	1990	
			SE	25		144721	*LD	HALCYON NO.8		144718	1421:236	10/28/1981	1988	5/04/1990
			E2	25		144722	*LD	HALCYON NO.9		144718	1421:238	10/28/1981	1988	5/04/1990
			SW	25		144723	*LD	HALCYON NO.10		144718	1421:240	10/29/1981	1988	5/04/1990
			W2	25		144724	*LD	HALCYON NO.11		144718	1421:242	10/29/1981	1988	5/04/1990
			N2	25		145889	LD	ORE CAR	JLR MINING		1427:433	11/26/1981	1984	4/14/1986
			SE	25		147768	*LD	HALCYON NO 13	CAROUSO NICHOLAS	147767	1431:684	12/17/1981	1988	5/04/1990
			SW	25		147770	*LD	HALCYON NO 15		147767	1432:9	12/19/1981	1988	5/04/1990
			W2	25		147771	*LD	HALCYON NO 16		147767	1432:11	12/19/1981	1988	5/04/1990
			NW	25		187869	LD	SILVER BELL #1	RADER LARRY		1497:961	10/01/1982	0000	11/06/1985
			NW	25		187870	LD	SILVER BELL #2		187869	1497:963	10/01/1982	0000	11/06/1985
			N2	25		193391	PL	LUCKY SEVEN	DOHERTY RICHARD		1525:379	2/27/1983	0000	4/02/1986

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8-132 X 64 10-6

ADMINISTRAT

- -LEGAL DE
TWNSHP RAN
12.2N 2

* * DISCLOSU
THEY APPEAR
A BLANK LATE

12.2N 2 W 29 NW

REPORT DATE: NOV 8, 1991
ADMINISTRATIVE STATE: ARIZONA

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

GEOGRAPHIC INDEX
ALL CLAIMS

MERIDIAN: GILA-SALT R.

TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL NO.	CASE TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK:PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
12.2N	2 W	29	NW	25	2	128178	LD	BROWN MULE #THREE(3)	RANK MIKE	128176	1367:783	3/18/1981	1982	10/07/1985
			SE	25		137779	LD	HELEN #3	EASTMOORE NORMAN JR	137769	1400:866	6/28/1981	1982	8/30/1985
			SE	25		137780	LD	HELEN #4		137769	1400:868	6/28/1981	1982	8/30/1985
			SE	25		137781	LD	HELEN #5		137769	1400:870	6/28/1981	1982	8/30/1985
			SE	25		137782	LD	HELEN #6		137769	1400:872	6/28/1981	1982	8/30/1985
			N2	25		142348*	LD	HALCYON NO 3	CAROUSO NICHOLAS	142346	1418:543	10/18/1981	1990	
			NE	25		142349*	LD	HALCYON NO 4		142346	1418:545	10/18/1981	1990	
			N2	25		144718*	LD	HALCYON NO.5			1421:230	10/27/1981	1988	5/04/1990
			NE	25		144719*	LD	HALCYON NO.6		144718	1421:232	10/27/1981	1988	5/04/1990
			NE	25		144720*	LD	HALCYON NO.7		144718	1421:234	10/28/1981	1988	5/04/1990
			NE	25		144721*	LD	HALCYON NO.8		144718	1421:236	10/28/1981	1988	5/04/1990
			NW	25		144723*	LD	HALCYON NO.10		144718	1421:240	10/29/1981	1988	5/04/1990
			NE	25		147767*	LD	HALCYON NO 12			1431:682	12/17/1981	1988	5/04/1990
			NE	25		147768*	LD	HALCYON NO 13		147767	1431:684	12/17/1981	1988	5/04/1990
			NW	25		147769*	LD	HALCYON NO 14		147767	1432:7	12/18/1981	1988	5/04/1990
			NW	25		147770*	LD	HALCYON NO 15		147767	1432:9	12/19/1981	1988	5/04/1990
			N2	25		180149	PL	JASON PATCH	DORCEY WARREN	180148	1471:939	7/08/1982	0000	8/27/1985
									DORCEY CARLA					
									STANISICK MICHAEL					
									STANISICK STERN					
									DE LEON TRINA					
									DE LEON SHANNIA					
		30	NW	25		70958*	LD	PEACOCK NO. 6 A	CUMMINGS ROBERT P JR	70952	765:912	7/03/1972	1991	
			NW	25		98953	PL	BRAKE HANDLE	HALSEY ROBERT SR		1270:102	1/04/1980	1986	5/13/1988
			N2	25		100609*	PL	PERSISTANCE TWO	HALSEY GLENN					
									GOSS DICK		1288:906	3/31/1980	1990	
			NE	25		100610	PL	PERSISTANCE ONE	PASCOE JAMES					
			SW	25		101694*	PL	BEAR-CLAW	HAYS LAWRENCE ALAN		1288:904	3/31/1980	0000	9/27/1985
									CLAYPOOL DENNIS		1292:739	4/16/1980	1989	4/03/1991
			N2	25		102160	PL	GRACE #1	CLAYPOOL MICHAEL					
			NW	25		102161*	PL	GRACE #2	LAUGHLIN MILTON		1276:533	2/04/1980	0000	10/11/1985
									GOSS RICHARD	102160	1276:535	2/04/1980	1990	
			NE	25		105783	LD	PEAUGEE #ONE	PASCOE JAMES					
									JENNESS WAYNE R SR		1299:616-	5/19/1980	0000	4/12/1983
									JENNESS WAYNE R JR					
			NE	25		107545*	PL	NUGGETT	PASCOE JAMES		1299:375-	5/16/1980	1990	
			S2	25		111189*	PL	BEAR CLAW #2	CLAYPOOL DENNIS		1319:027	8/18/1980	1989	4/03/1991
									CLAYPOOL MICHAEL					
			NE	25		128176	LD	BROWN MULE #ONE (1)	RANK MIKE		1367:779	3/18/1981	1982	10/07/1985
									JENNESS WAYNE					
			NE	25		128177	LD	BROWN MULE #TWO (2)	RANK MIKE	128176	1367:781	3/18/1981	1982	10/07/1985
									JENNESS WAYNE					
			NE	25		128179	LD	PEAUGEE #TWO (2)	JENNESS WAYNE SR	128176	1367:717	3/18/1981	0000	4/12/1983
									JENNESS WAYNE JR					

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12.2N 2 W 30 NW

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REPORT DATE: NOV 8, 1991
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UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PAGE NO: 3619
PCN: LT892PP1

GEOGRAPHIC INDEX
ALL CLAIMS

MERIDIAN: GILA-SALT R.

LEGAL DESCRIPTION TWNSHP	RANGE	SEC	SUBDV	CTY	GEO DIST	BLM SERIAL NO.	CASE TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK:PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
12.2N	2 W	30	NW	25	2	128180	LD	PEAUGEE #THREE (3)	JENNESS WAYNE	128176	1367:786	3/18/1981	0000	10/07/1985
			SW	25		143163*	LD	SUNDANCE #1	JOHNSON WAYNE L		1422:267	9/27/1981	1990	
			SE	25		143164*	LD	SUNDANCE #2			1422:269	9/27/1981	1990	
			SW	25		187220	PL	FC #1	MARTIN D K CLARK FRANK		1491:913	10/14/1982	1983	8/08/1985
			SW	25		187221	PL	FC #2	MARTIN D K CLARK FRANK	187220	1491:911	10/14/1982	1983	8/08/1985
			N2	25		190409*	PL	PERSISTANCE #1	PASCOE JAMES GOSS RICHARD		1503:351	12/10/1982	1990	
			SE	25		192080*	LD	SUNDANCE #3	JOHNSON WAYNE L		1520:254	3/01/1983	1990	
			SW	25		192081*	LD	SUNDANCE #4		192080	1520:258	3/01/1983	1990	
			SW	25		192087*	LD	SUNDANCE #10		192080	1520:270	3/01/1983	1990	
			NE	25		193804*	LD	PEAUGEE # ONE	JENNESS WAYNE SR JENNESS WAYNE JR		1523:470	3/17/1983	1990	
			NE	25		193805*	PL	PEAUGEE # TWO	JENNESS WAYNE SR JENNESS WAYNE JR	193804	1523:472	3/17/1983	1990	
			ALL	25		227616*	LD	GIVERA	GIBSON CHARLES OLVERA JOHN	227612	: 00	8/15/1984	1985	3/23/1987
			NE	25		249606*	PL	BIG BEND	PRICE BILL JR	249606	1803:569	3/19/1986	0000	6/08/1988
			E2	25		250475*	PL	BIG BEND	SZCZOTKA THOMAS RESPONDEK ED	250475	1796:226	2/21/1986	0000	6/20/1988
			N2	25		250476*	PL	VALENTINE	SZCZOTKA THOMAS	250476	1793:851	2/12/1986	1989	6/19/1991
			SE	25		283624*	LD	CW #1	PORTER CL TRACEY WL	283624	2037:0769	4/26/1988	0000	8/23/1990
			S2	25		283625*	LD	CW #2	PORTER CL TRACEY WL	283624	2037:0771	4/26/1988	0000	8/23/1990
			SE	25		283626*	LD	CW #3	PORTER CL TRACEY WL	283624	2037:0773	4/26/1988	0000	8/23/1990
			S2	25		283627*	LD	CW #4	PORTER CL TRACEY WL	283624	2037:0775	4/26/1988	0000	8/23/1990
			SW	25		284145*	PL	K1	KORGICH MICHAEL	284145	2039:0727	5/03/1988	0000	7/23/1990
			SW	25		284146*	PL	K2		284145	2039:0727	5/03/1988	0000	7/23/1990
			SW	25		292690*	PL	WILDCAT	SHADE TREE INVESTMEN	292689	2118:0023	1/23/1989	0000	6/17/1991
			NW	25		299326*	LD	NICOLE #4	MARINAKIS MARSHALL MARINAKIS DIANA	299323	2181:0894	8/20/1989	1991	
			SW	25		308335*	PL	ANNIE B	COOMBS JOE COOMBS ROSE BROCK JOHN R	308335	2294:0315	8/05/1990	1990	
			SW	25		313470*	PL	ANNIE B #2	BROCK A BEATRICE BROCK JOHN BROCK BEATRICE A	313470	2347:0714	4/09/1991	0000	
			SW	25		313471*	PL	ANNIE B #3	BROCK JOHN BROCK BEATRICE A	313470	2347:0716	4/09/1991	0000	
			NE	25		313472*	PL	ANNIE B #4	BROCK JOHN	313470	2347:0718	4/09/1991	0000	

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12.2N 2 W 30 NE

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BUREAU OF LAND MANAGEMENT

PAGE NO: 3620
PCN: LT892PP1

GEOGRAPHIC INDEX
ALL CLAIMS

MERIDIAN: GILA-SALT R.

-LEGAL DESCRIPTION- TWNSHP	RANGE	SEC	SUBDV	GEO CTY	BLM DIST	SERIAL CASE NO.	TYPE	CLAIM NAME/NUMBER	CLAIMANT(S)	LEAD FILE	COUNTY BOOK:PAGE	LOCATION DATE	LATEST ASSMT-YR	CASE CLOSED
12.2N	2 W	30	NE		2	313472*PL		ANNIE B #4	BROCK BEATRICE A	313470	2347:0718	4/09/1991	0000	
			NE	25		316609*PL		PAINT YOUR WAGON	YOUNG GREG	316609		10/06/1991	0000	
									HENRY JIM					
			SW	25		317075*PL		DOUBLE EAGLE	YOUNG GREG	317075		10/18/1991	0000	
		31	NE	25		192082*LD		SUNDANCE #5	JOHNSON WAYNE L	192080	1520:260	3/01/1983	1990	
			NE	25		192083*LD		SUNDANCE #6		192080	1520:262	3/01/1983	1990	
			N2	25		192084*LD		SUNDANCE #7		192080	1520:264	3/01/1983	1990	
			NW	25		192085*LD		SUNDANCE #8		192080	1520:266	3/01/1983	1990	
			NW	25		192086*LD		SUNDANCE #9		192080	1520:268	3/01/1983	1990	
			NW	25		283628*LD		CW #5	PORTER CL	283624	2037:0777	4/26/1988	0000	8/23/1990
									TRACEY WL					
			NW	25		283629*LD		CW #6	PORTER CL	283624	2037:0779	4/26/1988	0000	8/23/1990
									TRACEY WL					
			NE	25		283630*LD		CW #7	PORTER CL	283624	2037:0781	4/26/1988	0000	8/23/1990
									TRACEY WL					
			NE	25		283631*LD		CW #8	PORTER CL	283624	2037:0783	4/26/1988	0000	8/23/1990
									TRACEY WL					
			NE	25		283632*LD		CW #9	PORTER CL	283624	2037:0785	4/21/1988	0000	8/23/1990
									TRACEY WL					
		32	SE	25		57285 PL		ALPHA	DUNNING R W		1238:707	8/21/1979	0000	10/14/1983
			SW	25		59473*LD		VENTURE #1	EASTMOORE NORMAN JR		1241:86	8/30/1979	1987	9/06/1988
			SW	25		59474*LD		PONTO		59473	1241:84	8/30/1979	1987	9/06/1988
			W2	25		64828*LD		TASHA			1246:80-8	9/22/1979	1987	9/06/1988
			SW	25		64829*LD		VENTURA #2		64828	1246:78-7	9/22/1979	1987	9/06/1988
			NW	25		95000 LD		BAB NO 1	HOMESTAKE MINING		1256:788	10/08/1979	1980	12/13/1982
			W2	25		95001 LD		BAB NO 2		95000	1256:790	10/08/1979	1980	12/13/1982
			W2	25		95002 LD		BAB NO 3		95000	1256:792	10/08/1979	1980	12/13/1982
			W2	25		95003 LD		BAB NO 4		95000	1256:794	10/08/1979	1981	4/06/1984
									HOMESTAKE MINING					
			ALL	25		95004 LD		BAB NO 5	HOMESTAKE MINING	95000	1256:796	10/08/1979	1980	12/13/1982
			SW	25		95005 LD		BAB NO 6		95000	1256:798	10/09/1979	1980	12/13/1982
			SW	25		95006 LD		BAB NO 7		95000	1256:800	10/09/1979	1981	4/06/1984
									HOMESTAKE MINING					
			SW	25		95007 LD		BAB NO 8	HOMESTAKE MINING	95000	1256:802	10/09/1979	1981	4/06/1984
									HOMESTAKE MINING					
			S2	25		95008 LD		BAB NO 9	HOMESTAKE MINING	95000	1256:804	10/09/1979	1980	12/13/1982
			SW	25		95009 LD		BAB NO 10		95000	1256:806	10/09/1979	1980	12/13/1982
			SW	25		95010 LD		BAB NO 11		95000	1256:808	10/09/1979	1981	4/06/1984
									HOMESTAKE MINING					
			SW	25		95011 LD		BAB NO 12	HOMESTAKE MINING	95000	1256:810	10/09/1979	1981	4/06/1984
									HOMESTAKE MINING					
			S2	25		95012 LD		BAB NO 13	HOMESTAKE MINING	95000	1256:812	10/09/1979	1980	12/13/1982
			SW	25		111867 LD		ST MICHAEL #2	GRIGGS SCOTT		1314:443	8/01/1980	1981	9/23/1985
			SW	25		111869 LD		ST MICHAEL #4		111867	1328:746	9/26/1980	1981	9/23/1985

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HA-9
250 45/60 100

CC-2
921 10/0 921

HA-2
270 15/0 270

EH-5
85 21/10 25

71-2
400 15/0 400

EH-6
245 31/30 35

EH-4
165 24/60 35

221 13/0 221
CC-1

74-8A
65 36(.008)/20 15

71-8
480 36(.02)/90 120

74-8
160 33(.02)/30 125

EH-7
160 16/0 160

74-9
270 27(.02)/130 30

EH-1
175 37/140 35

EH-2
205 50/185 20 26/95 65

CC-3
886 38(.01)/110 185

74-1
250 1/2 58(.02)/80 165

5500

71-6
263 08/0 263

CC-4
161 21(.001)/12 90

PD-5
600 10/0 600

74-5
245 <.03/0 245

74-2
250 1/2 45/95

74-10
265 45(.007)/55 35

EH-3
165 50/90 75
34/20 25

71-3
452 03/0 452

70-3
590 12/490 100

74-3
35(.02)/70 28(.01)/120 215 35/45

74-11
85 28(.004)/20 10

NORTH AREA

71-4
317 17+/0 317

5500

74-4
180 37(.006)/105 35

OEH-17
82 09/0 82

5250

70-1
1500 27/20 85

PD-1
507 43/3 50

74-7
165 <.01/0 165

SOUTH AREA

71-5
401 38/50 35

PD-2
700 18/15 200

HA-6
265 4(.02)/65 160

HA-11
300 48/35 75

HA-3
215 22(.02)/0 215

PD-4
583 /0 150

74-6
278 /45 50

5250

70-2
581 32/50 125

PD-3
612 24/70 200

N

DRILL HOLE LOCATION MAP

AREAS of NEAR SURFACE (CHALCOCITE) MINERALIZATION

COPPER CREEK PROJECT

YAVAPAI COUNTY, ARIZONA

(ERC/PKK)

SCALE: 1" = 200'

CONTOUR INTERVAL = 50'

EXPLANATION

- DRILL ROAD
- ○ DRILL HOLE LOCATION (PHOTO/TOPOG PLOT)
- ○ DRILL HOLE LOCATION (BRUNTON/TAPE SURVEY)

160' 0.25(.02)/90 50' = TOTAL DEPTH OF HOLE (160')
COPPER (0.25% Cu) AVERAGE OVER 50' OF HOLE BEGINNING AT 90'
(.02) = Mo CONTENT OF COPPER INTERVAL SHOWN

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WILHOIT QUADRANGLE
ARIZONA–YAVAPAI CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

3453 II (IRON SPRINGS 1:62 500)
3553 III SW (PRESCOTT)
PRESCOTT 6 MI.
PRESCOTT 4.7 MI.
WICKENBURG 41 MI.
KIRKLAND JUNCTION 3.2 MI.
WALNUT GROVE 8 MI.
3452 I NW (KIRKLAND)
(GROOM CREEK) 3552 IV NW
(WALNUT GROVE) 3452 I SE
112°37'30"
34°30'
112°30'
34°22'30"
32'30"
27'30"
35'
25'
R. 4 W.
R. 3 W.
R. 2 W.
T. 13 N.
T. 12½ N.
T. 12 N.
320 000 FEET
1 270 000 FEET
290 000 FEET
1 230 000 FEET
Finch Wash
Finch Windmill
Gabarina Hill
Mines
COPPER BASIN
Copper Basin Wash
Mint Shaft
Forest Windmill
Borrow Pit
Wilhoit
Hay Flat Tank
Homestead Tank
Orofino Tank
Orofino Windmill
Orofino Wash
Orofino Wash Well
Riggle Tank
Grassy Tank
Holder Tank
Corral
Sheppard Wash
NATIONAL FOREST BOUNDARY
JEEP TRAIL
Head of Aspen Creek Spring
Aspen Creek
Pigeon Spring
Government Spring
Radio Facility
Mt Francis
Copper
East Copper Spring
Copper Basin Road Spring
Granite Creek
Indian Creek
Indian Creek Campground
Prospect
Bootlegger Spring
Copper Creek
Little Copper Creek
Trap Corral Spring
Board Creek Spring
Copper Creek Windmill
PRESCOTT NATIONAL FOREST
Board Creek
Glen Oaks (Site)
Glen Oaks
Telegraph Spring Windmill
Burro Wallow
Hassayampa River
White Spar Windmill
White Spar Mine
Quartz Mtn
Climax Mine
Springs
PACK TRAIL
Lone Pine Spring
Buzzard Roost Wash
Dredge Tailings
Mine
Spring
new houses
no trespass

5/13/92
Glen Oak or Copper Creek Cu project –
no suitable flat area for leach pad
huge sight distance from along hwy 89
new houses in the area
would be difficult to permit
no real potential to up grade significantly
all old drill roads now impossible in central area

(PEEPLES VALLEY) 3452 I SW

(BATTLESHIP BUTTE) 3552 IV SW

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1968. Field checked 1969

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

Fine red dashed lines indicate selected fence lines

Certain land lines are omitted because of insufficient data

UTM GRID AND 1969 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
GN MN 0°53' 15 MILS 14½° 258 MILS

SCALE 1:24 000
1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

CONTOUR INTERVAL 40 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ARIZONA
QUADRANGLE LOCATION

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1979

ROAD CLASSIFICATION
Primary highway, hard surface
Light-duty road, hard or improved surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route

WILHOIT, ARIZ.
N3422.5—W11230/7.5

1969

DMA 3452 I NE—SERIES V898

Copper Creek

Deal

now paying 1650/mo
15 pats + some unpat

Two outside pats 550/mo

PKK 55 unpats

20 MM tons 0.42 Cu equivalent
Cu/Mo

minor Ag

Chalcocite : Covellite

Pyrite
Chalcocite
Chalcopyrite
Covellite

1:1 strip ratio

20 mm in two separated bodies
12 mm big
8 mm small

Must 60 1650/mo until Feb. 76
then 2200/mo " 77
4125 / other term

Payout @ 3% NSR = 2-3 mm

Gillings 550/mo thru July 76
Exercise option July 76 option = 65,000
50,000 remaining.

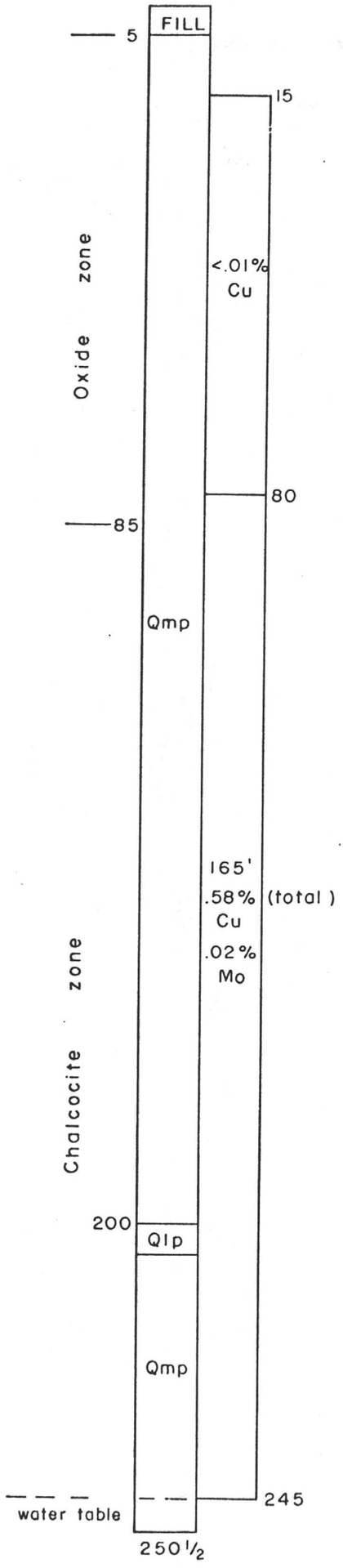
Carter Reasoner

Give a one year option which guarantees payment of all obligations

If want to continue beyond 1yr
pay $100,000 for two more years
at end of third year pay $50,000 more
Everyone out.

Buyout price from carter = $600,000

CC-74-1 TD-250 1/2'

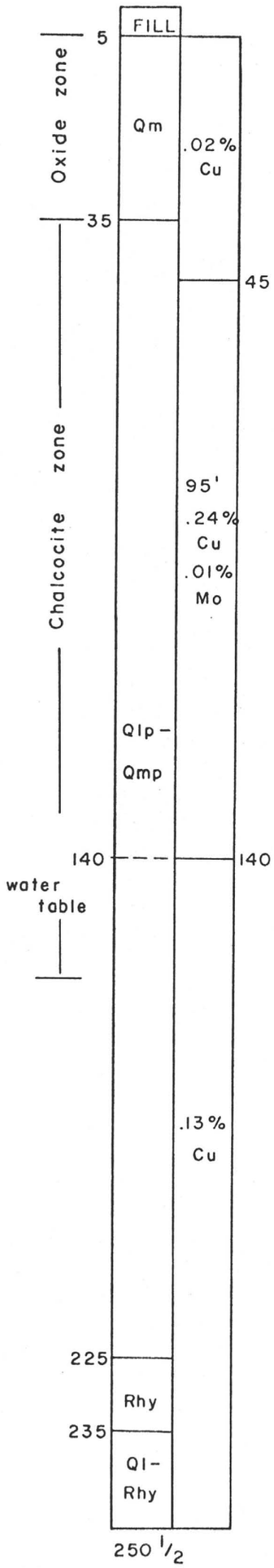


Summary:

Essentially quartz monzonite porphyry; siliceous with numerous quartz veinlets; moderate to heavy chalcocite 90-200. Very minor chalcopyrite 145 to botton. Good secondary biotite above 200. MoS_2 stringers 160-200. Pyrite variable but generally +1%.

This is the best hole of the CC 74 series holes.

CC-74-2 TD-250 1/2'

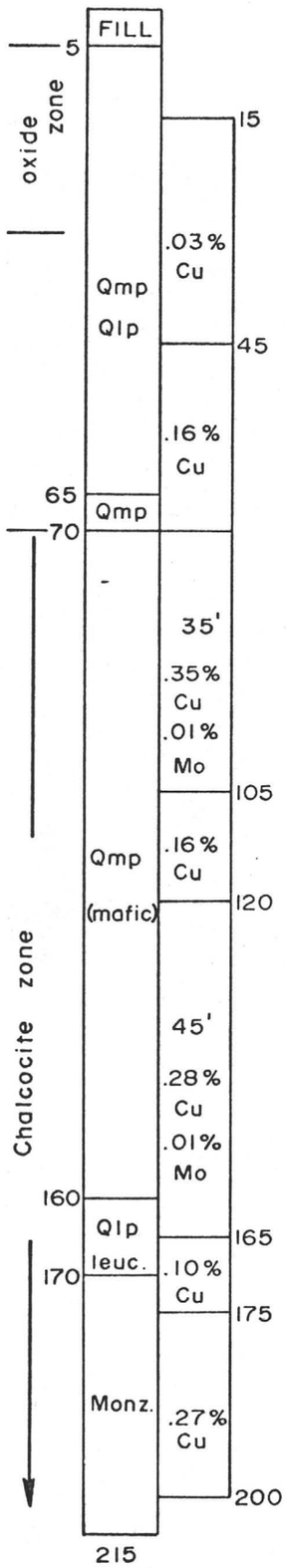


Summary:

Quartz monzonite porphyry-quartz latite porphyry; heavily silicified; some chloritization; better than average MoS_2 (especially near 220-235 dike contacts).

1-3% pyrite; trace to some chalcopyrite.

CC-74-3 TD-215'

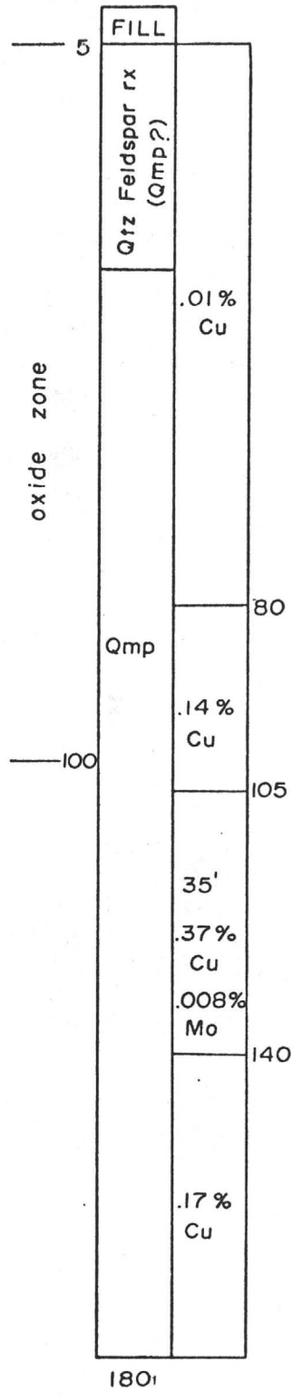


Summary:

Mafic Quartz latite porphyry to quartz monzonite porphyry to 160. Monzonite (low in pyrite) 160 to bottom.

Trace to minor chalcocite 35-215. 1-2% pyrite, trace chalcopyrite.

CC-74-4 TD-185'



Summary:

Entire hole is probably quartz monzonite porphyry. Good silicification. K-feldspar flooding 160-170.

2-3% pyrite, diminishing below 115'. MoS_2 in quartz veinlets 150-155'.

CC-74-5 TD-245'

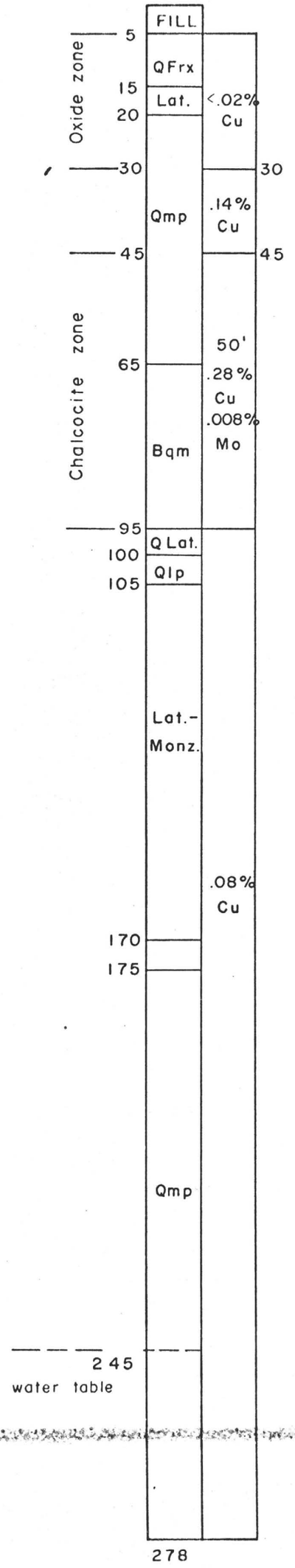
Summary:

Hole located outside well-mineralized area. Some propylitization.

1/2-2% pyrite, bare trace chalcocite 25'-130'; trace chalcopyrite 45'-60', more below 190'. Scattered traces MoS_2.

A duster!

CC-74-6 TD-278'

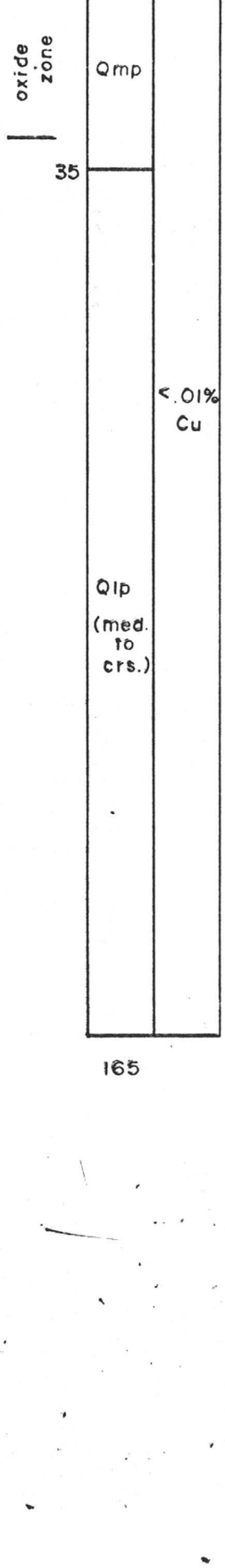


Summary:

Quartz monzonite porphyry cut by latite-rhyolite dikes and masses. Secondary biotite as flakes and veinlets. Minor silicification.

1-3% pyrite; at least a trace amount of chalcocite to the bottom of the hole. Trace-minor MoS_2. Trace chalcopyrite

CC-74-7 TD-165'



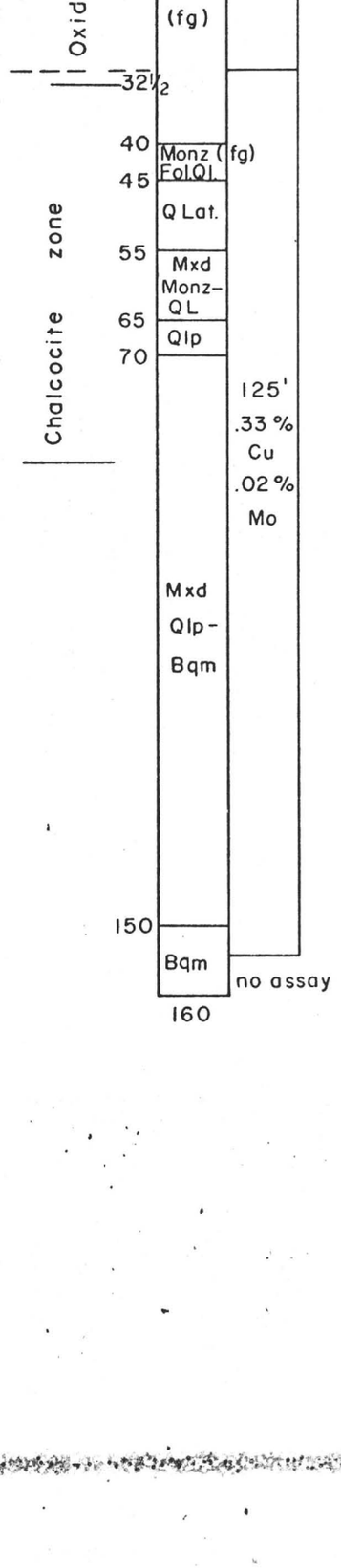
Summary:

Quartz monzonite porphyry-quartz latite porphyry.

Only trace amounts of pyrite encountered. Water table not encountered.

A duster!

CC-74-8 TD-160'

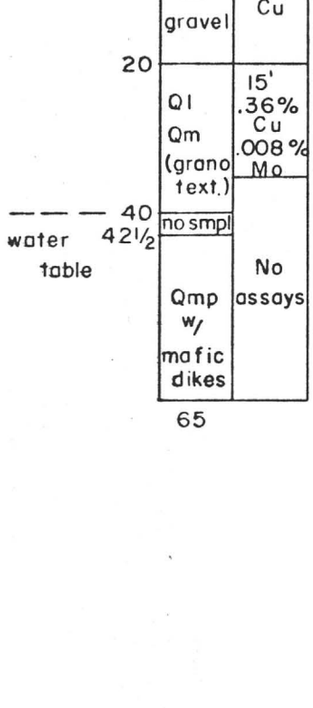


Summary:

Mixed rock types; well-broken (faulted) Propylitized - with possible secondary biotite

±3% pyrite (heavy for area) Heavier than normal chalcopyrite

CC-74-8A TD-65'



Summary:

Mixed rocks; well fractured.
Some propylitization

2-5% pyrite (heavy); locally good chalcocite, some chalcopyrite and MoS_2

CC—74—9 TD—270'

Summary:

Biotite quartz monzonite porphyry with post-mineral quartz monzonite porphyry dike 230-240, and less well-mineralized "crowded" quartz monzonite porphyry below 240. Minor silicification.

Less than 1-2% pyrite; trace to minor amounts of chalcopyrite below 135; trace amounts of MoS_2 below 130.

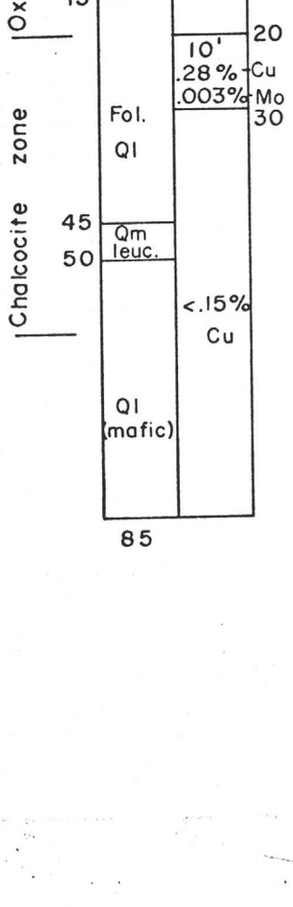
CC-74-10 TD-265'

Summary:

Mafic quartz monzonite top to bottom. Heavily propylitized; heavy quartz veinlet development 45'-80'. Heavy faulting 225-235.

1-3% pyrite, trace to minor amounts chalcopyrite. Heavy sample dilution below 205.

CC-74-11 TD-85'



Summary:

Well-chloritized quartz latite cut by quartz monzonite dikes. Some quartz veinlet development.

2-3% pyrite; trace chalcopyrite and MoS_2.