

## CONTACT INFORMATION

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## PRINTED: 11/27/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: BIG RUTH CLAIMS

ALTERNATE NAMES:

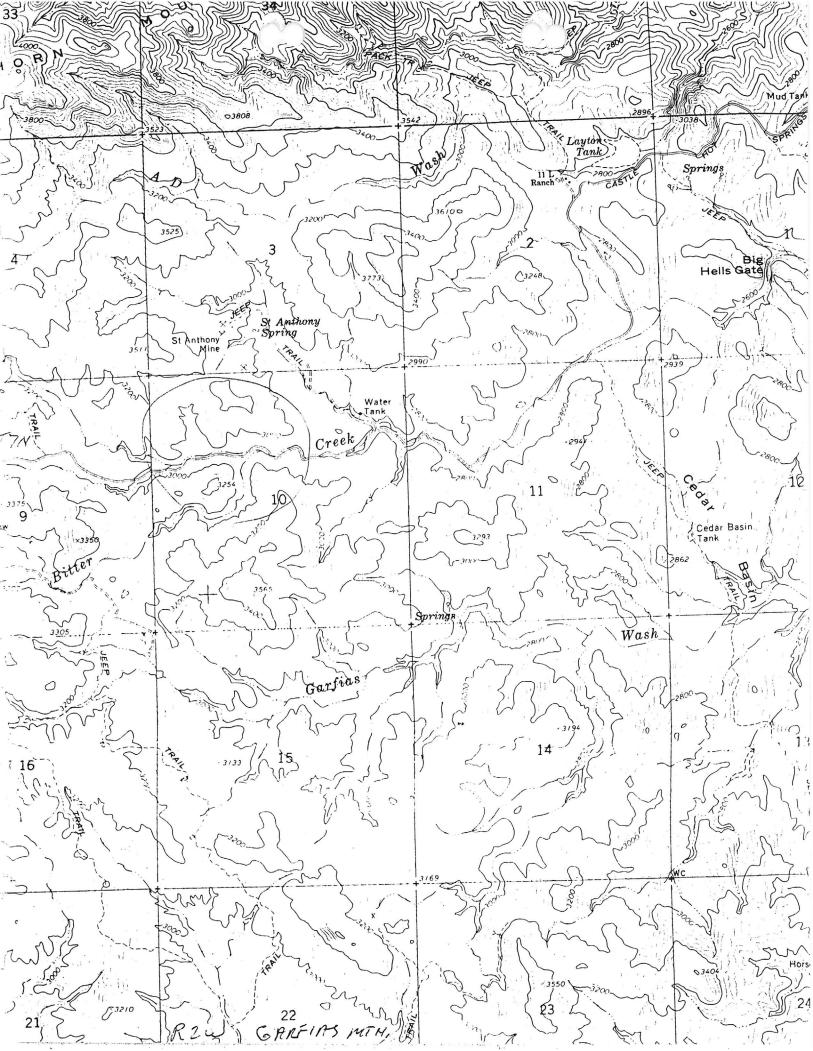
YAVAPAI COUNTY MILS NUMBER: 967

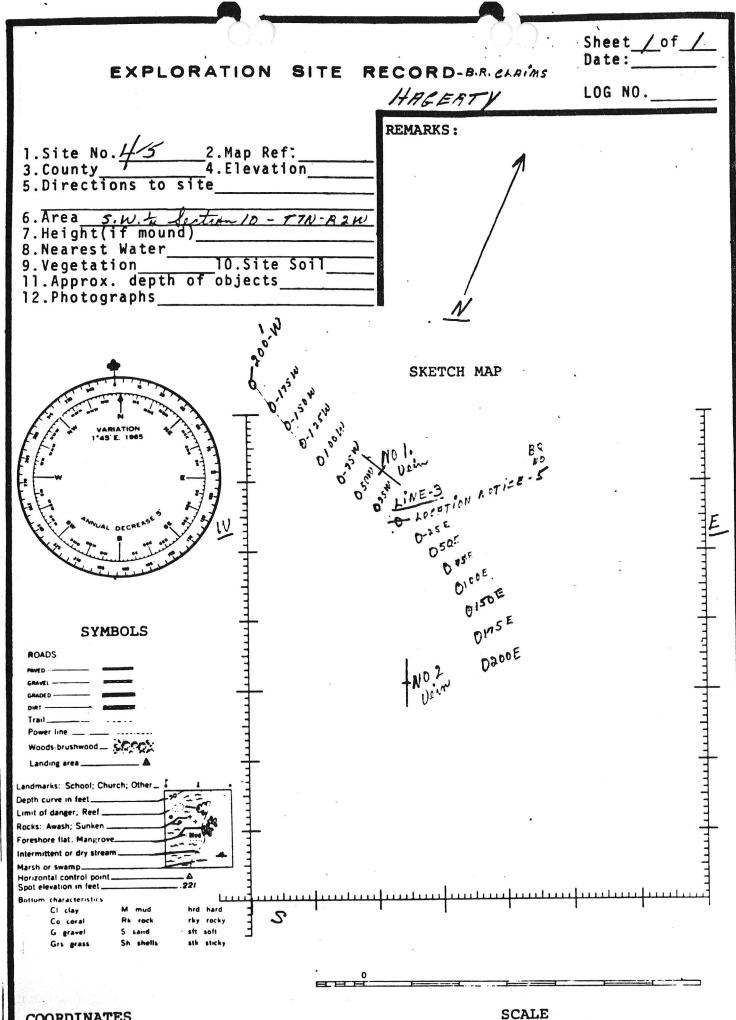
LOCATION: TOWNSHIP 7 N RANGE 2 W SECTION 10 QUARTER W2 LATITUDE: N 33DEG 57MIN 53SEC LONGITUDE: W 112DEG 27MIN 38SEC TOPO MAP NAME: GARFIAS MOUNTAIN - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

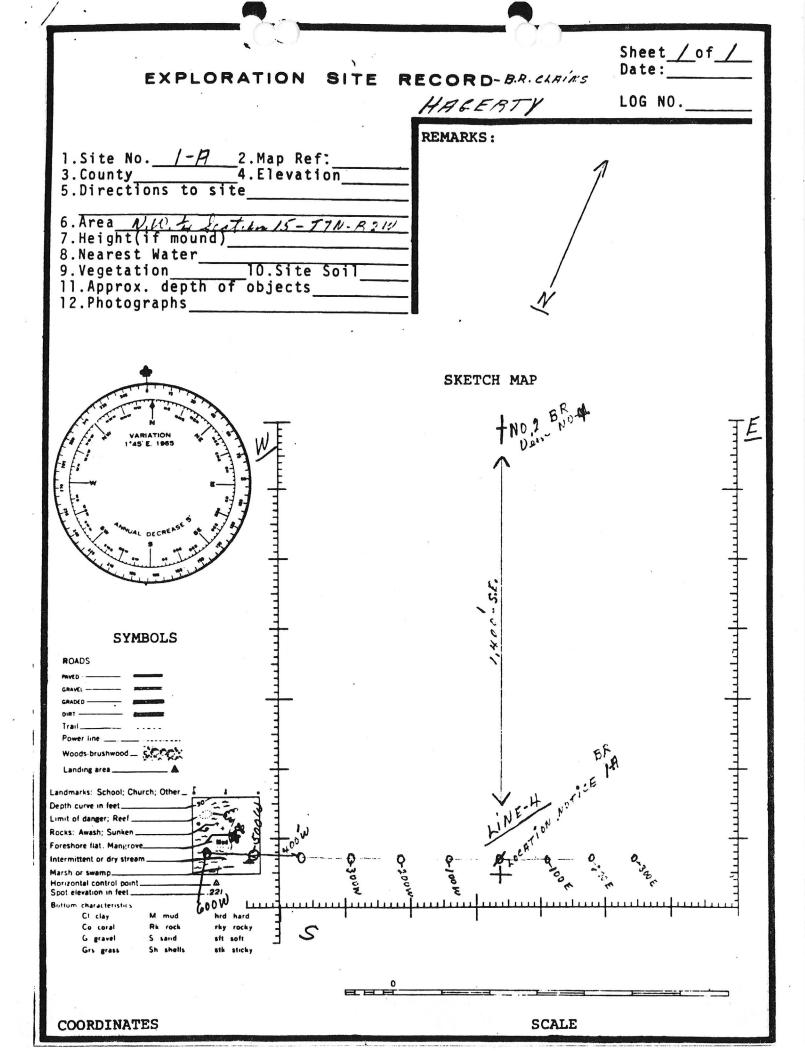
COMMODITY: GOLD COPPER OXIDE SILVER

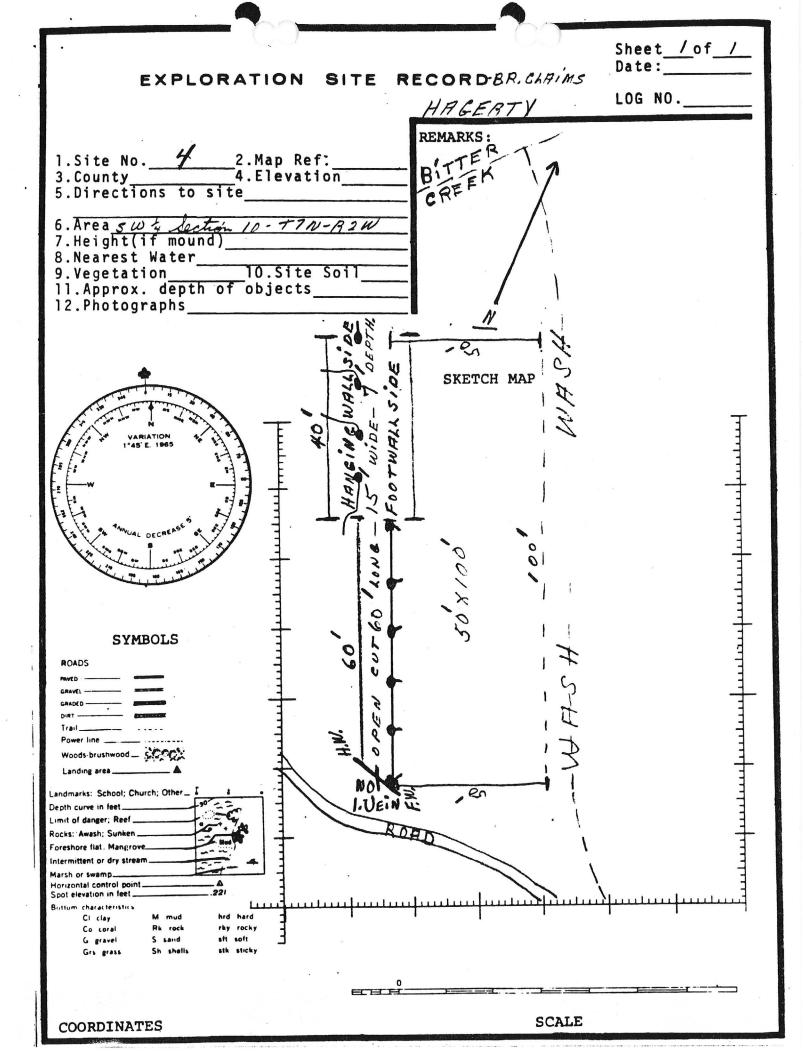
BIBLIOGRAPHY: ADMMR BIG RUTH FILE

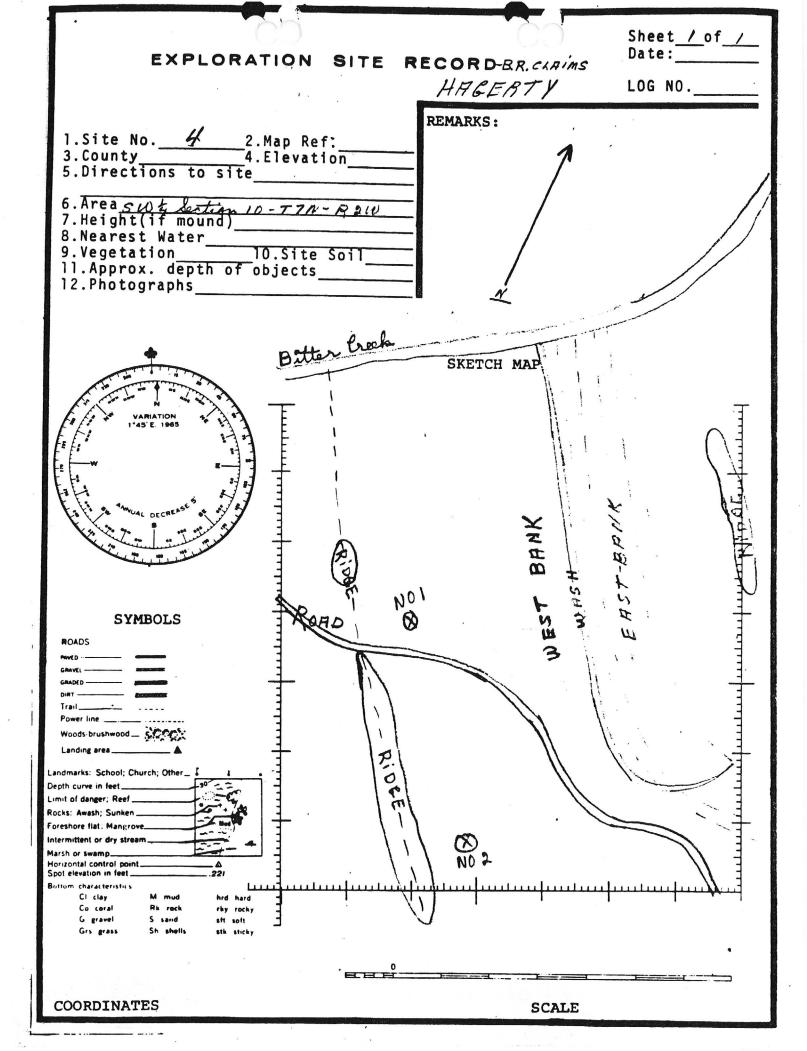


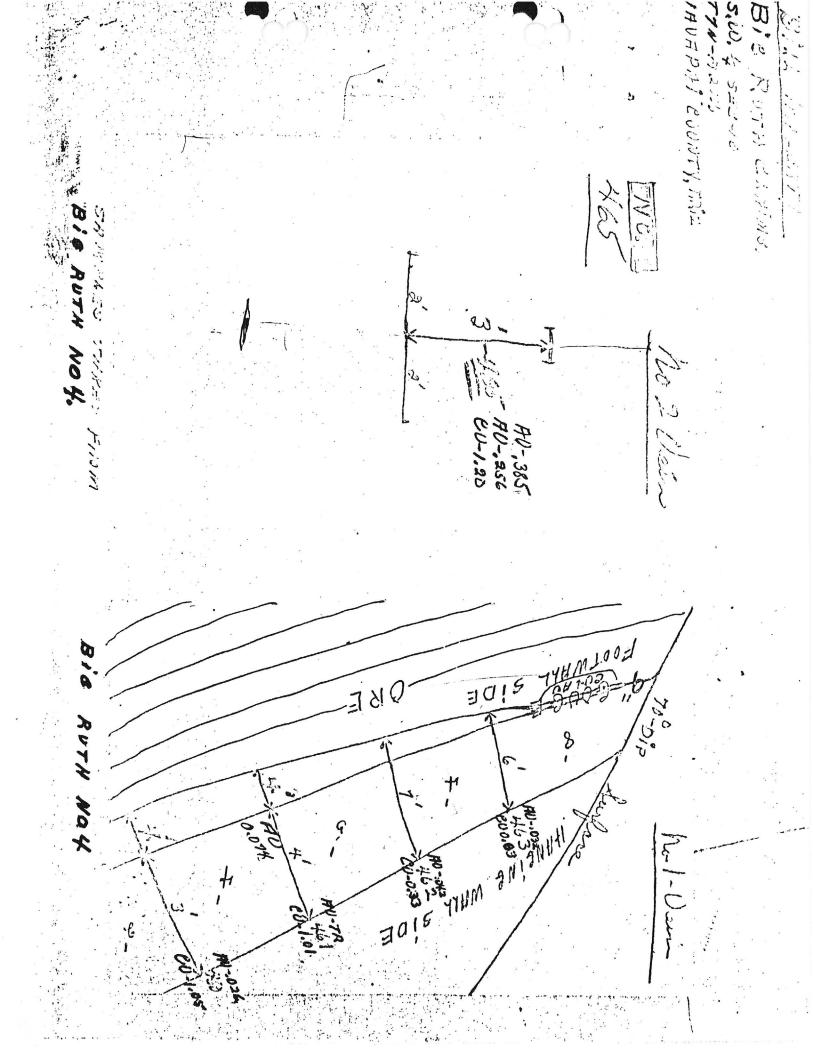


COORDINATES



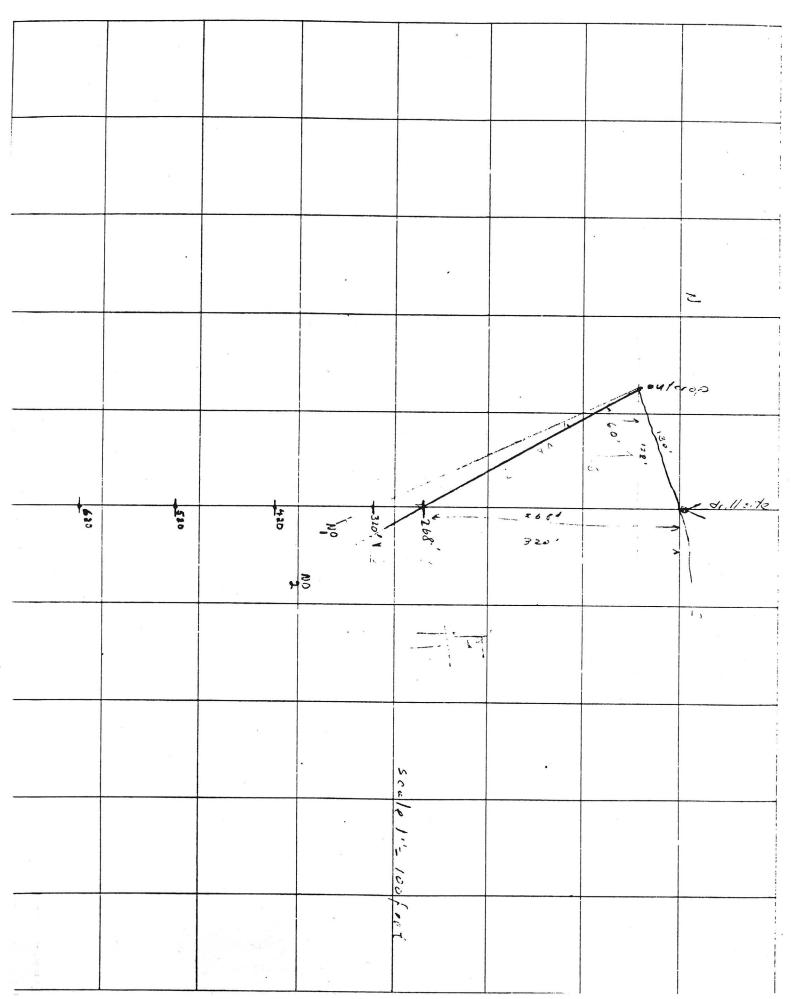


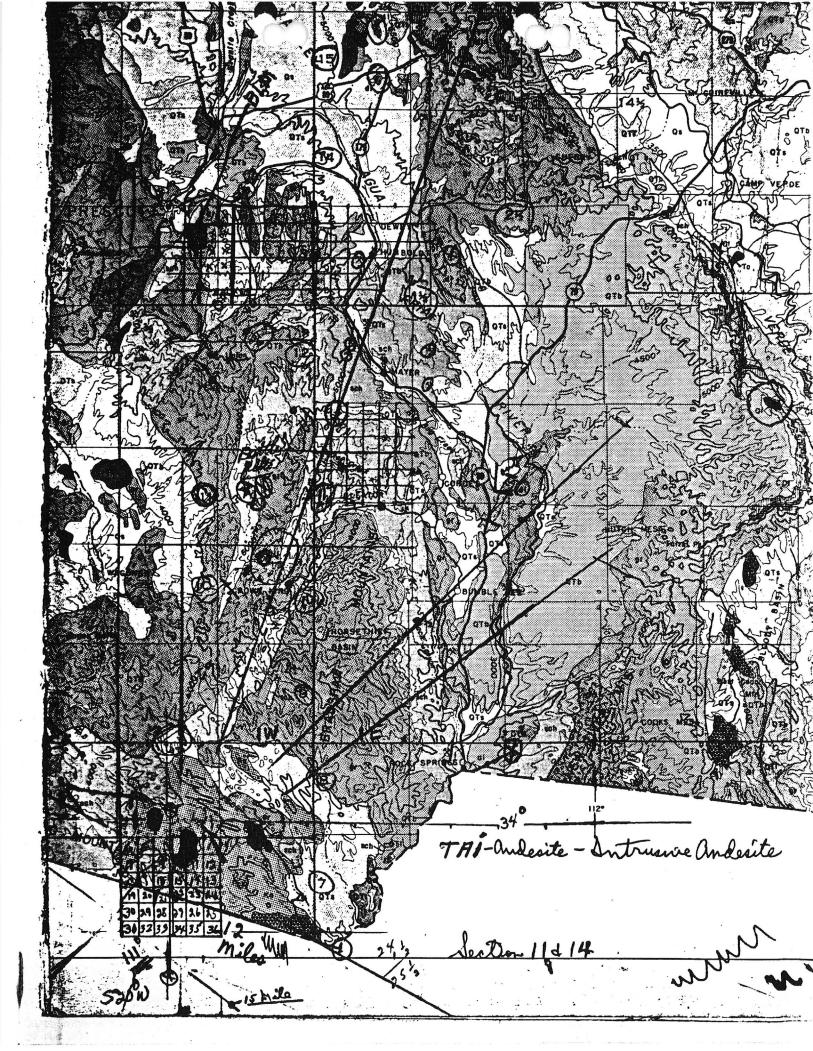


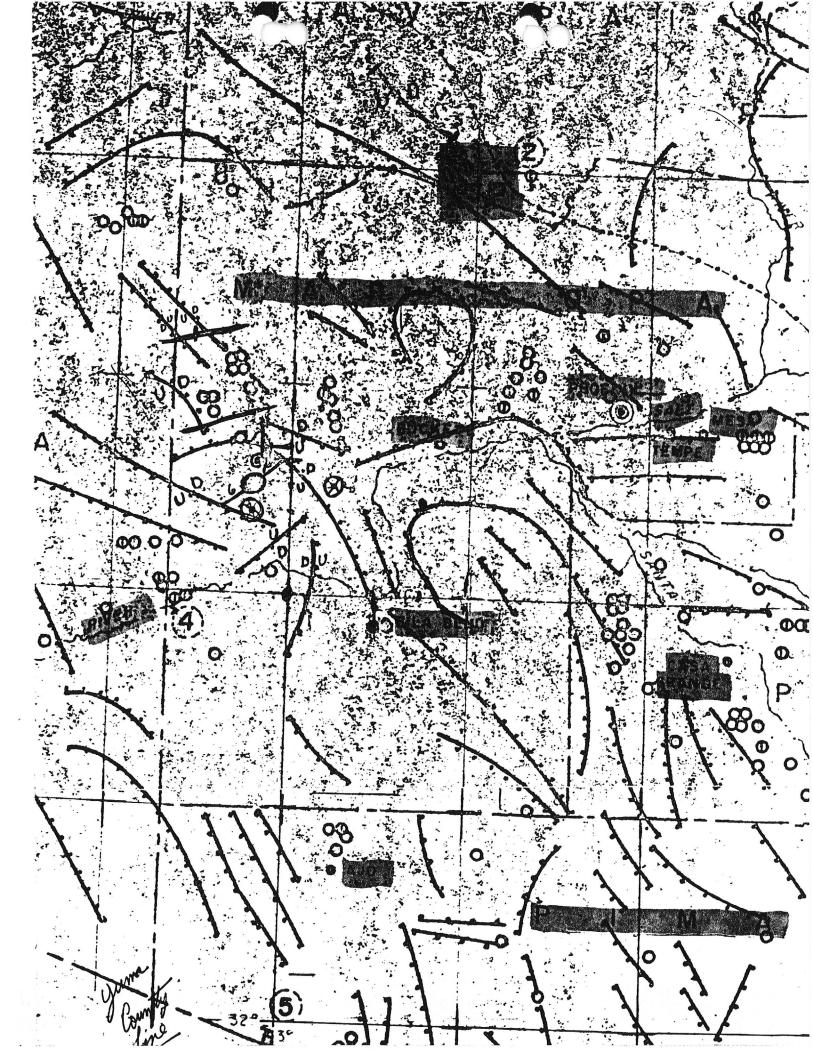


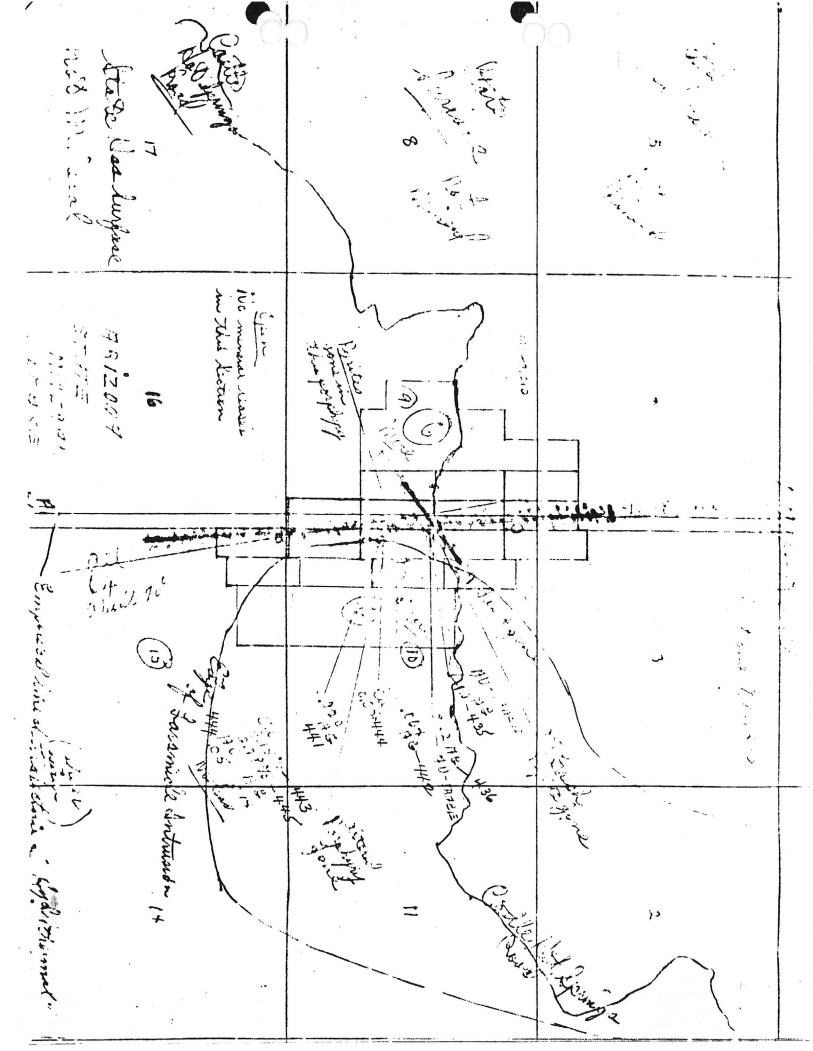


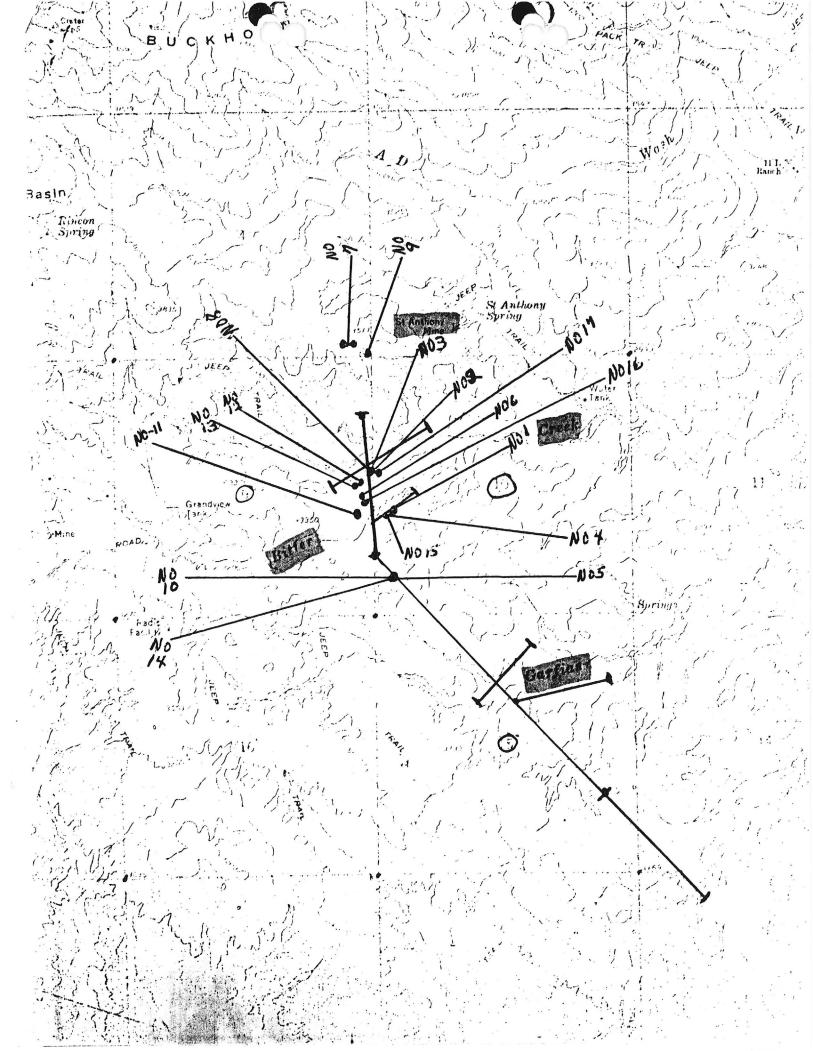


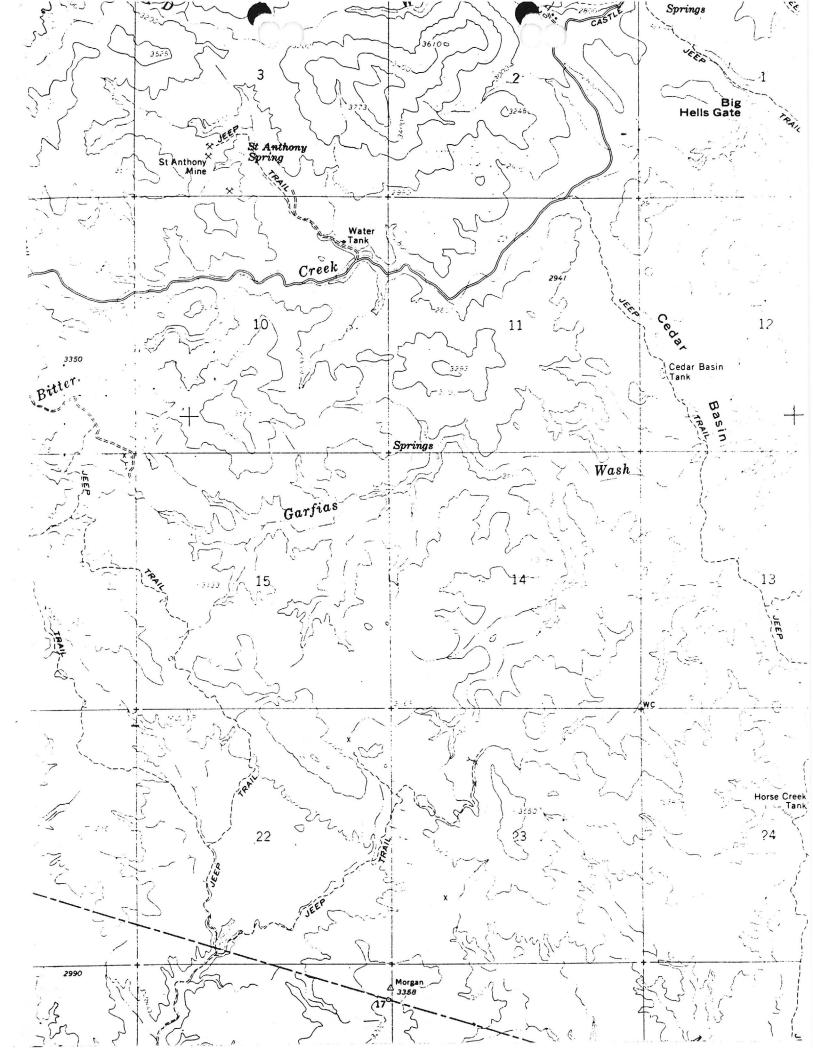


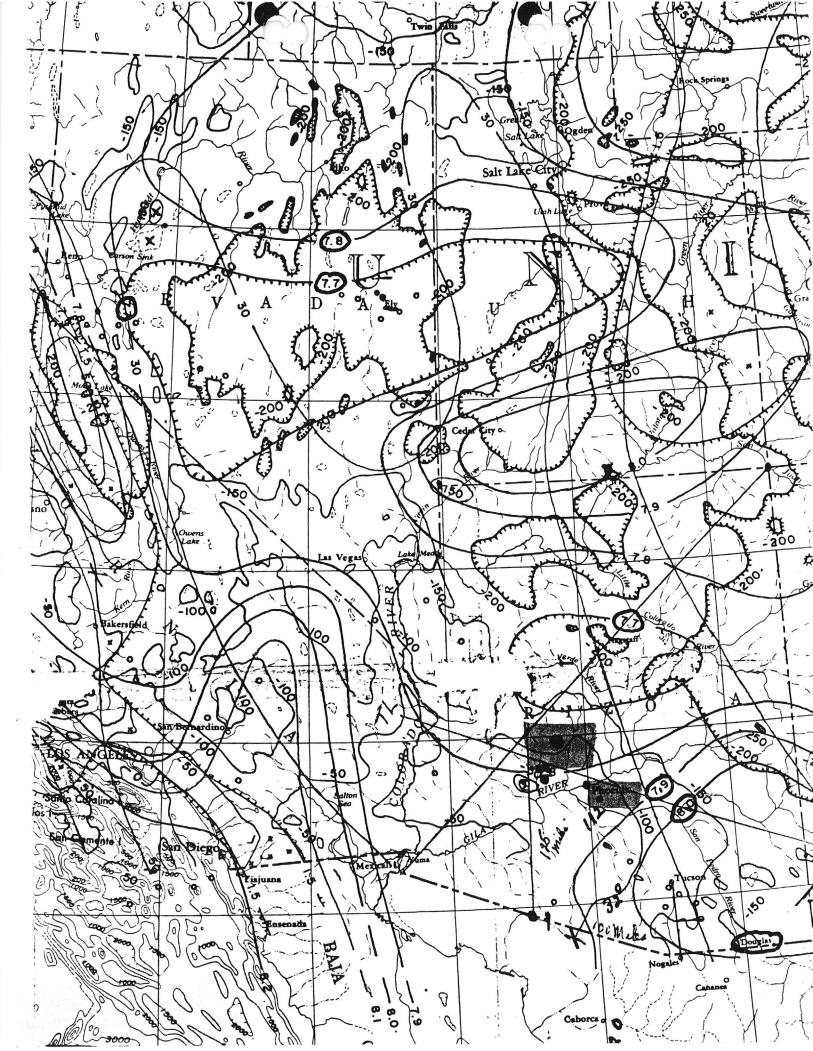


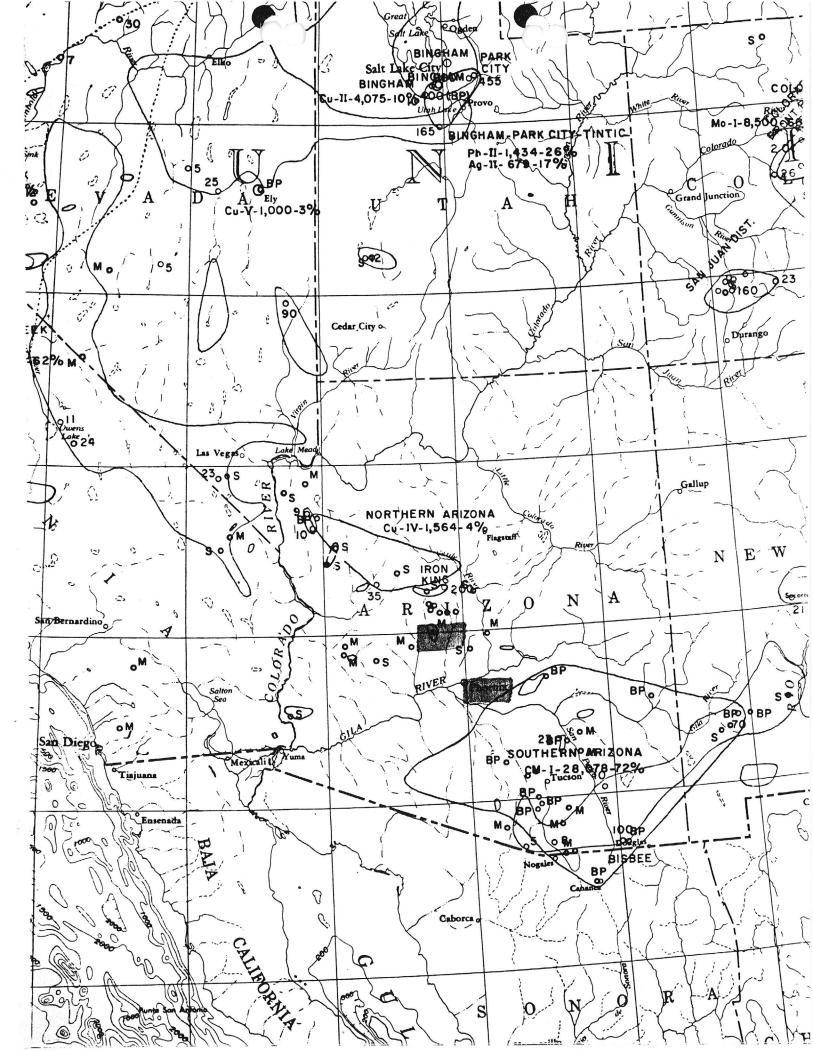


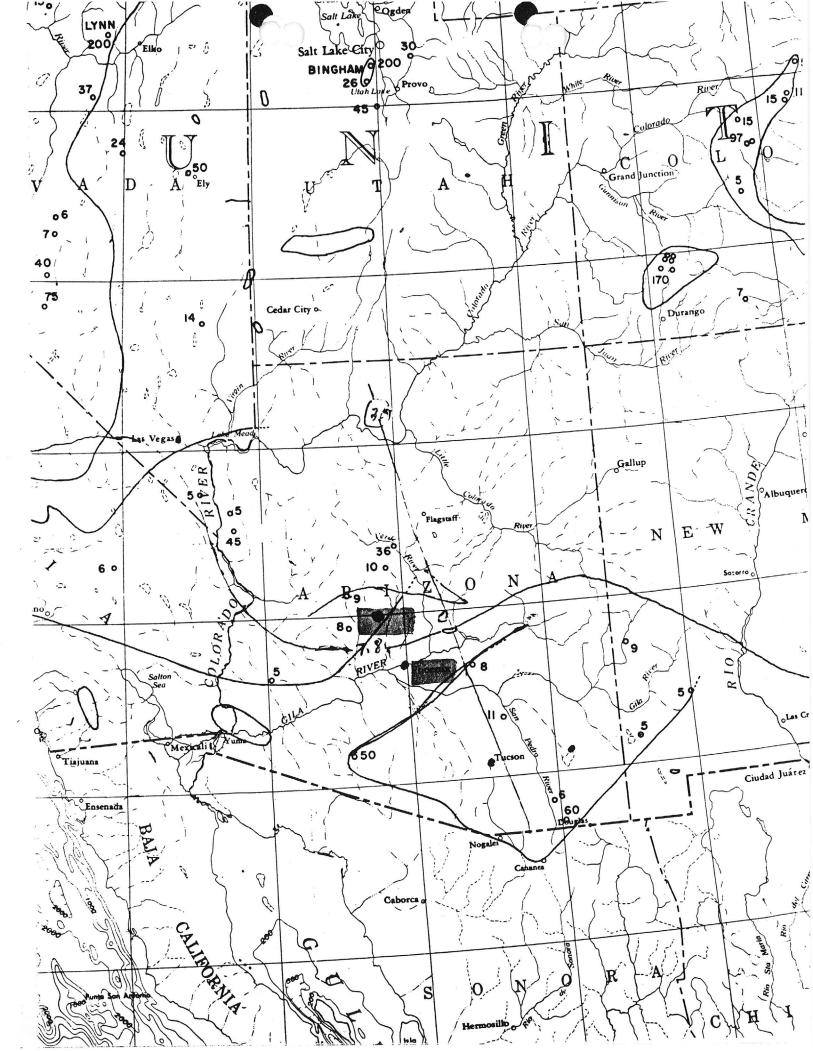


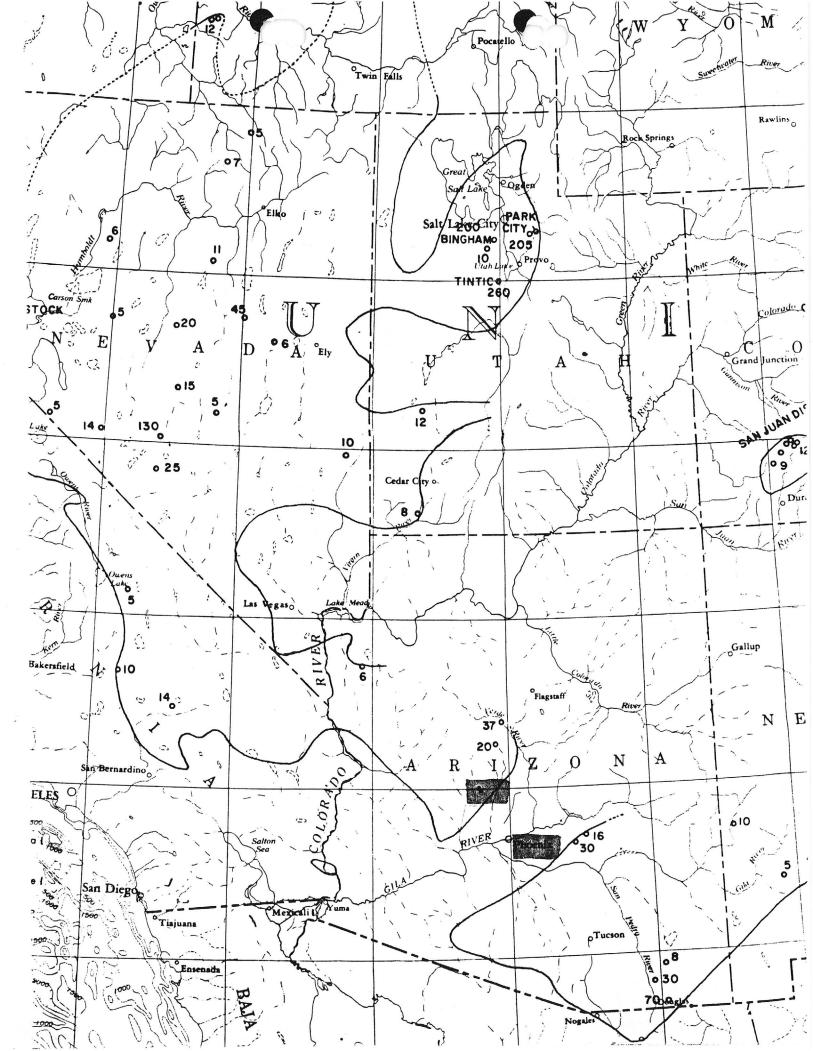


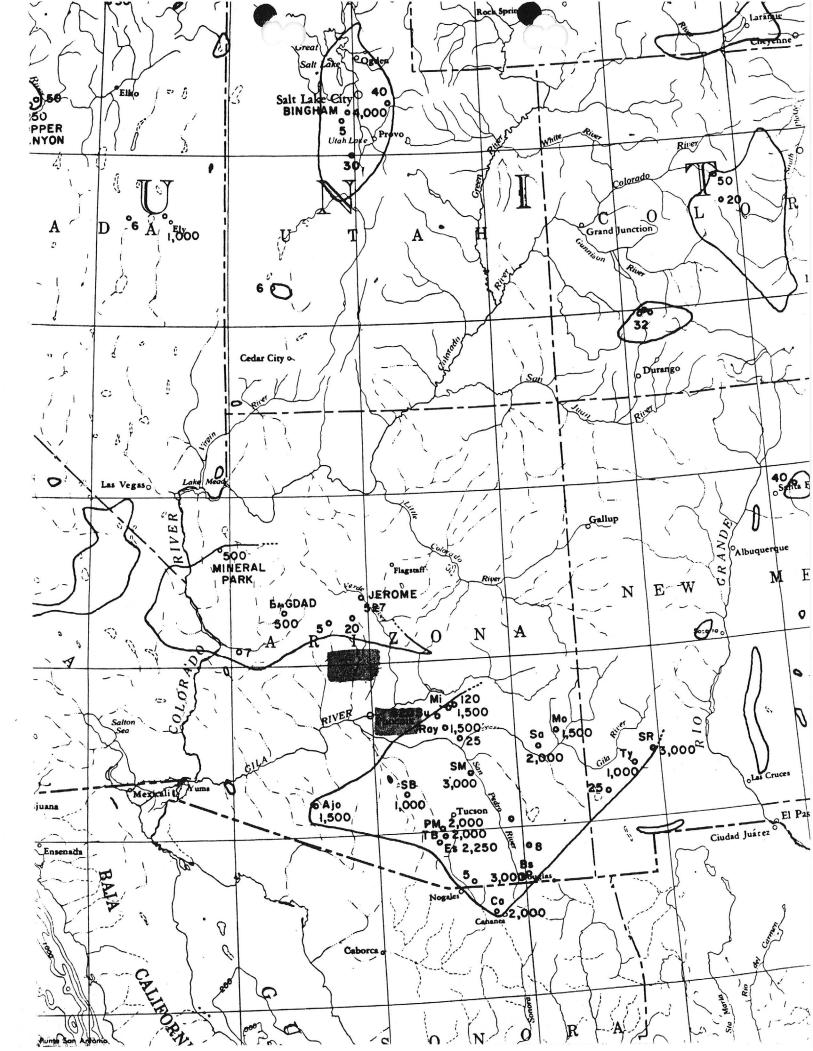


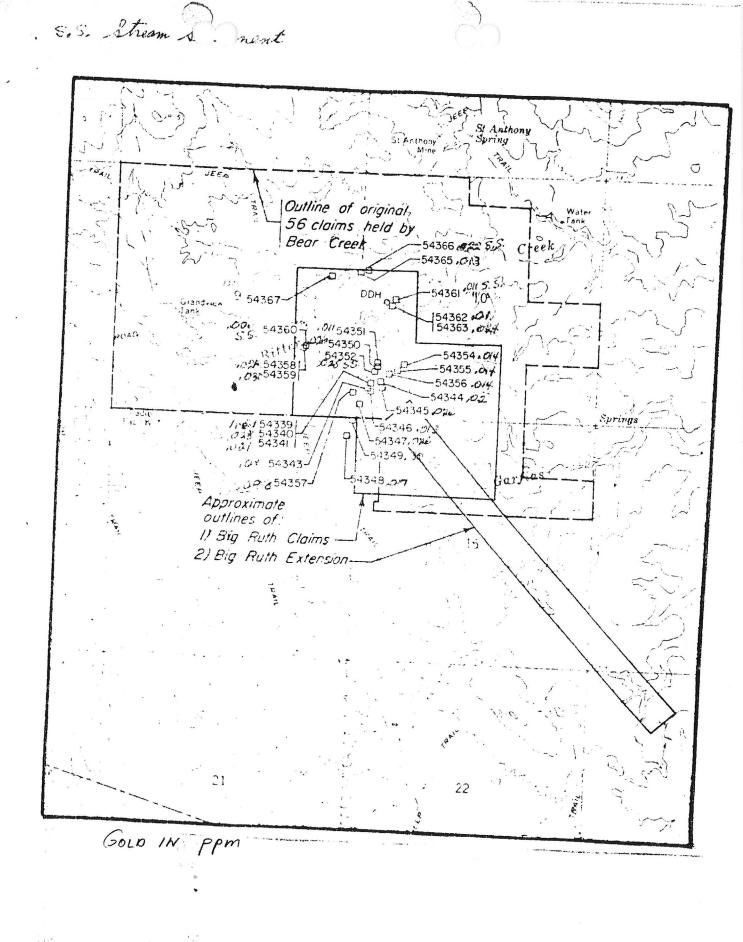










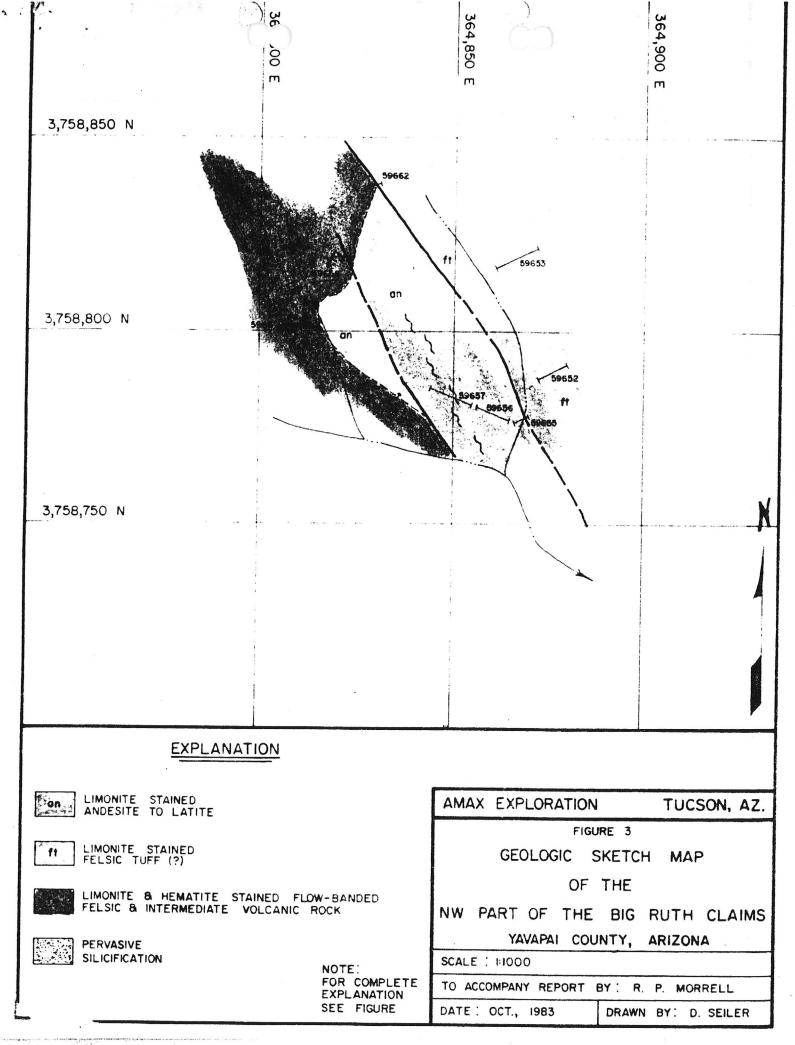


BIG RUTH MINE-ANALY. SAL RESULTS-ALL VALUES PPM

S#	RUCK-TYPE	AU	A G	CU	MO	PB	ZN
T54339	CU OXIDE MINER- Alized shear zone	1.610	0.94	12560.0	21.0	26.0	51.0
T54340	ANDESITE FOUTWALL	0.028	-0.51	712.0	17.0	30.0	38.0
T54341	AND. HANGING WALL	0.021	0.50	444.0	25.0	30.0	30.0
T54343	ANDESITE	-0.010	-0.51	42.8	21.0	31.0	29.0
T54344	PYRITIC FELSIC TUF		-0.51	50.4	25.0	37.0	70.4
					-	27.0	
T54345	PYRITIC TUFF AND TUFFACEOUS CONGL.	0.026	-0.51	37.0	16.0	21.0	21.0
T54346	FLOW-BANDED LATITE	0.013	-0.51	33.0	23.0	33.0	31.0
154347	CU UXIDE STAINED QTZ LATITE PORPHYR	0.020 Y	-0.51	2160.0	50.0	58.0	32.0
T54348	HEMATITIC LATITE/ ANDESITE	0.017	-0.51	112.0	25.0	35.0	49.6
T54349	DUMP-OTZ VEIN	0.300	-0.51	147.0	12.0	27.0	25.0
	MATERIAL	6 6 2		70 0		24	• • •
T54350	WTZ-PYRITE VEIN	0.020	1.90	72.0	16.0	26.0	18.0
T54351	FRAC. LIMONITE	0.011	-0.51	252.0	27.0	38.0	68.0
	STAINED FELSIC TUF						and the second second
T54352	STREAM SEDIMENT	0.025	-1.02	196.0	1.6	47.9	148.0
T54354	LIMUNITE STAINED	0.014	2.50	45.0	4.0	104.0	139.0
	RHY/LATITE TUFF						
T54355	PYR. RHY/LAT TUFF	0.014	-1.28	160.0	7.3	89.0	153.0
T54356	PYR. RHY/LAT TUFF	0.014	-1.28	68.0	4.7	73.0	185.0
T54357	HEMATITIC QTZ/LAT	0.093	-1.28	1830.0	11.0	85.0	157.0
T54358	LIMONITE STAINED	0.021	-1.28	62.0	6.1	160.0	108.0
	RHYOLITE TUFF						
T54359	SILICIFIED,	0.030	1.50	86.0	20.0	108.0	98.0
	PYRITIC RHYULITE					-	-
T54360	STREAM SEDIMENT	0.010	0.80				
T54361	STREAM SEDIMENT	0.010	0.10				
T54362	LAT/DAC PORPHYRY	-0.010	3.30	88.0	5.7	83.0	158.0
T54363	STREAM COBBLE -	0.024	2.60	98.0	10.0	162.0	
134303		0.024	2.00	70.0	10.0	102.0	200.0
7 C 4 7 / C	RHYULITE BRECCIA	0 0 1 7	7. 40	7 4 0	0 0	60 0	160 0
154365	PYRITIC BLEACHED	0.013	3.80	36.0	8.8	88.0	169.0
	SCHIST	<b>A</b> (1.3)	0 • 0				
	STREAM SEDIMENT	0.020	0.10				
	FERRICRETE	0.011	NO DA	1A RECEI 916.0	VED FOR	THESE EL	EMENTS.
T54384	FAULT BRECCIA		1.20	916.0	3.3	51.5	27.0
	COLLECTED BY MR. H			1 Mile 10		20 (Area 204) - 20	
T54386	PYRITIC BLEACHED			17:0	1.9	129.0	64.6
	SCHIST COLLECTED B						
154387	PYRITIC BLEACHED	-0.010	1.30	11.0	2.0	46.1	65.9
	SCHIST COLLECTED B	Y MR. HAI	GERTY				
T54652	LIMONITE-STAINED	0.018	0.90	11.0	21.0	9.9	15.0
	RHYOLITE TUFF						
T59653	LIMUNITE-STAINED	0.014	1.50	23.0	12.0	36.0	45.9
	RHYULITE TUFF						
159655	FAULT BRECCIA	-0.010	1.00	25-0	4 - 3	47.4	45.6
	HEMATITIC AND/LAT		1.40			40.2	
	HEMATITIC AND/LAT	0.016	1.40		3.4	41.8	50.8
159658	ANDESITE & ASH-	0.019	1.20	25.0			
0000	FLOW TUFF(?)	0.017	4 6 C V		C • 4		
T59660		0.014	1.40	12 0	4.9	40.0	71.9
137000		0.014	7.40	4 C • V	4.7	40.0	11.7
TE () (	FLOW TUFF (?)	0 0 1 7	1 70	74 0		15 0	33 0
	SIL. VOLC. ROCK						
T59662	FAULT BRECCIA	-0.010	0.90	28.0	4.8	38.0	53.2

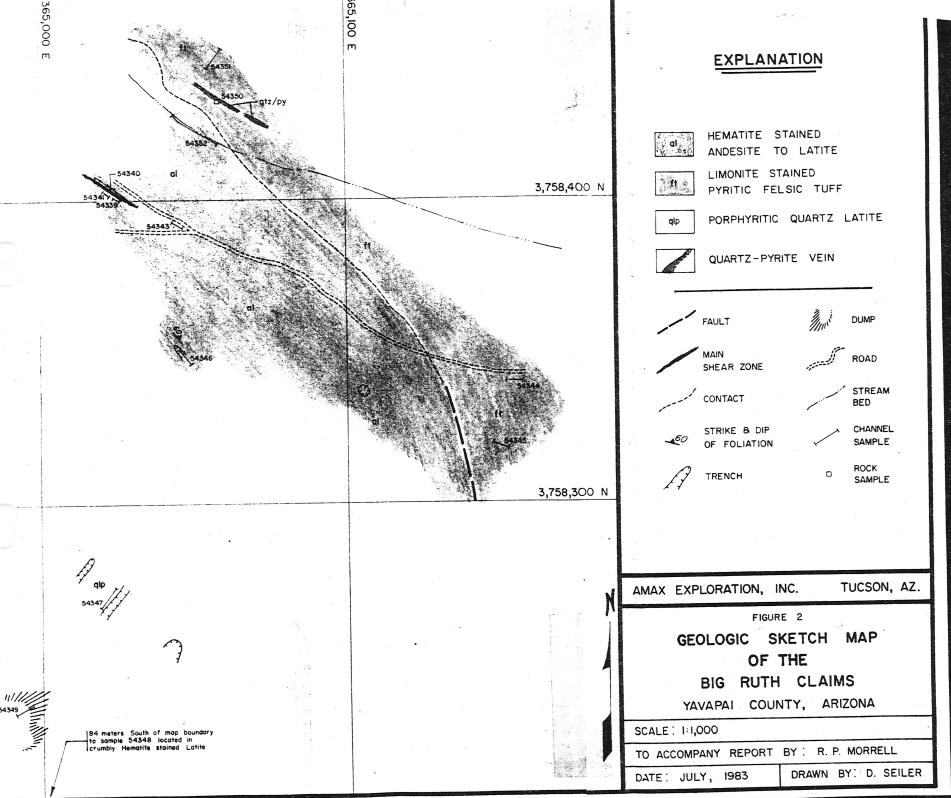
						()			
		rd.				12ho			
S#	BI	CO	FE	MN	N 1	W	Ď	SN	AS
T54339	32.0	8.0	66800	488.0	27.0	36.0	68.0	*****	7 ^
T54340	5.9	3.7	22880	277.0	8.2	10.0	20.0	1.4	7.0
T54341	6.2	2.1	21160	99.6	10.0	11.0	40.0	1.7	7.0
T54343	5.2	2.0	18560	74.0	9.8	11.0	80.4	2.1	5.0
T54344	24.0	30.0	49600	364.0	100.0	39.0	260.0	0.4	8.0
T54345	7.6	2.6	35480	63.2	9.0	21.0	58.8	0.6	5.0
T54346	5.7	2.5	16160	81.6	8.9	8.1	27.0	2.1	5.0
T54347	10.0	3.2	28760	83.6	13.0	18.0	32.0	2.3	6.0
T54348	18.0	10.0	49600	88.8	39.0	33.0	244.0	0.4	24.0
T54349	5.2	7.4	29560	215.0	37.0	19.0	104.0	2.9	7.0
T54350	4.4	6.7	35760	140.0	32.0	21.0	207.0	0.6	7.0
T54351	25.0	20.0	60800	353.0	52.4	43.6	151.0	0.4	6.0
T54352	19.7	49.9	72700	755.0	107.0	47.5	62.9	0.8	20.0
T54354	27.0	15.0	55050	149.0	21.0	-1.8	288.0	0.01	301.0
T54355	49.0	42.0	116200	424.0	61.1	6.7	1180.0	0.01	321.0
T54356	43.0	36.0	108100	1170.0	148.0	14.0	548.0	0.01	268.0
T54357	20.0	7.5	63650	218.0	24.0	4.0	805.0	12.0	257.0
T54358	24.0	5.8	63400	137.0	20.0	4.9	290.0	2.3	271.0
T54359	17.0	6.3	73330	205.0	38.0	6.8	2420.0	4.3	149.0
T54362	17.0	20.0	42870	458.0	69.0	19.0	4150.0	2.2	308.0
T54363	38.0	25.0	122800	501.0	92.0	21.0	3870.0	0.01	353.0
154365	22.0	25.0	57560	564.0	71.0	16.0	3280.0	1.0	328.0
T54384	-2.7	1.8	138000	99.2	4.0	5.7	533.U	5.6	(NOL 1993)
T54385	-2.7	0.8	4020	40.0	2.1	8.5	6750.0	4.2	
T54386	4.6	9.2	38040	144.0	26.0	4.8	5410.0	-0.4	
T54387	4.3	12.0	33570	201.0	32.0	4.5	5620.0	-0.4	
T59652	4.7	0.6	10830	12.0	2.2	2.4	335.0	2.0	
T59653	10.0	2.2	35960	50.5	9.1	9.1	1480.0	2.1	
T59654	9.7	0.5	1280	40.0	3.6	8.7	823.0	2.0	
T59655	9.8	2.2	14450	154.0	14.0	5.3	912.0	5.3	
159050	10.0	2.1	16760	210.0	16.0	5.0	1450.0	3.3	
T59657	9.0	2.8	15760	178.0	16.0	6.6	4500.0	3.7	
T59658	9.0	3.1	11960	150.0	19.0	5.9	4460.0	2.6	
159659	8.4	0.7	3340	54.0	3.4	7.6	5020.0	4.4	
T59660	9.9	3.9	19010	217.0	24.0	7.4	4060.0	7.7	
T59661	6.6	3.8	19350	157.0	22.0	3.5	263.0	6.2	
T59662	12.0	4.0	13960	133.0	17.0	7.6	2370.0	3.9	

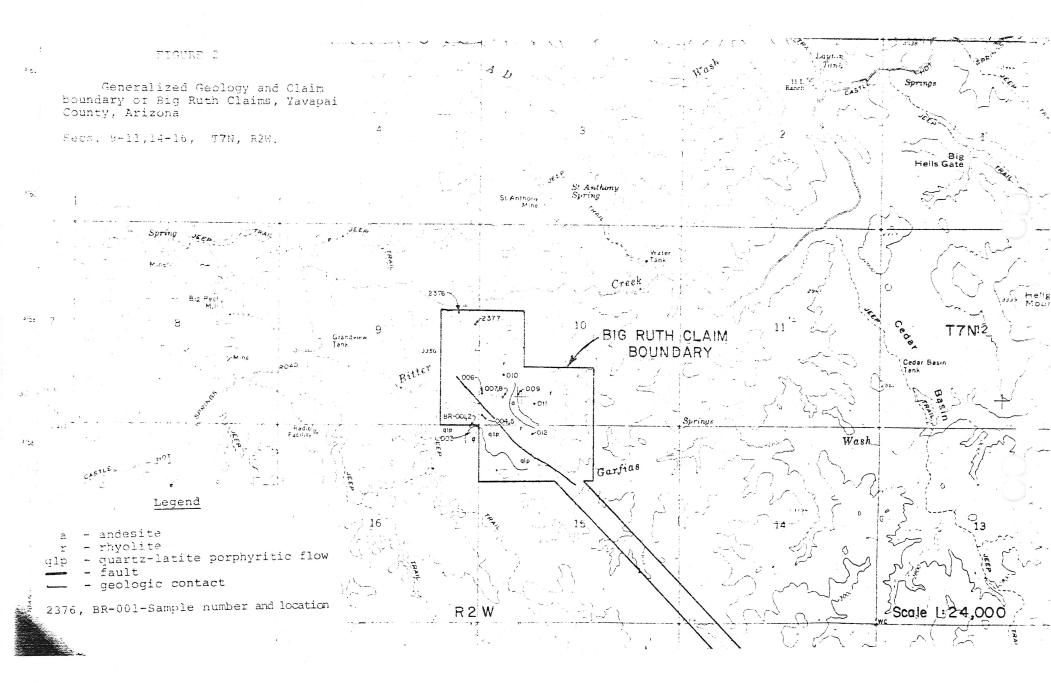
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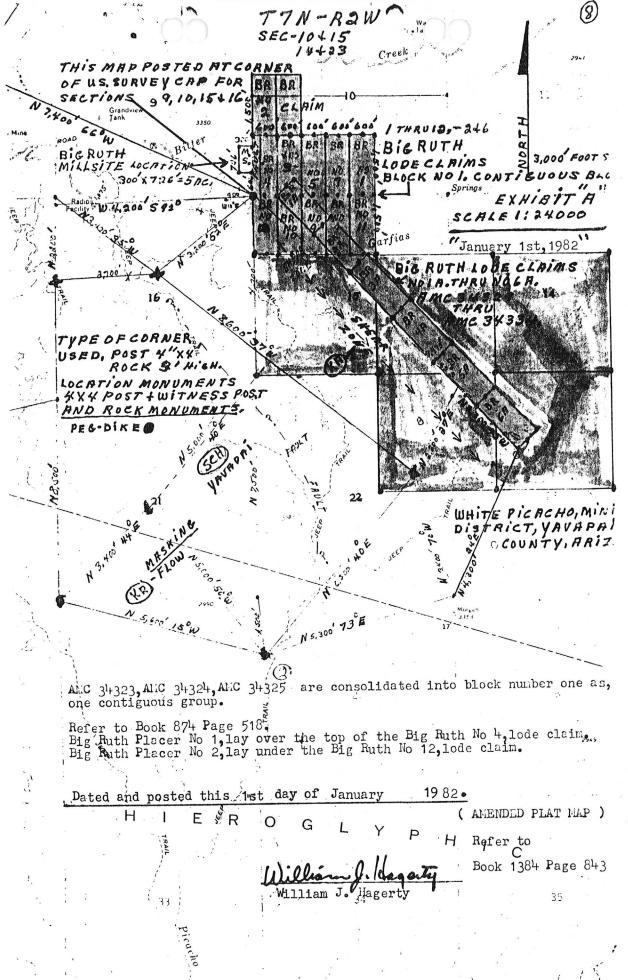


4-5" 460 - . 026 Au, 1,05% Con 461 - Tr Aa 1,01 Ca 462 - . 042 Au 0.33 Cu 463 - 1032 Au 0,63 Cm 465(2)-0.756 Au 1.20 Cu D.65 Ag 1.20 Cu Hagesty - Big Ruth claims

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## PRINTED: 11/27/2002

## ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: BIG RUTH CLAIMS (2. . ٤)

ALTERNATE NAMES:

YAVAPAI COUNTY MILS NUMBER: 967

LOCATION: TOWNSHIP 7 N RANGE 2 W SECTION 10 QUARTER W2 LATITUDE: N 33DEG 57MIN 53SEC LONGITUDE: W 112DEG 27MIN 38SEC TOPO MAP NAME: GARFIAS MOUNTAIN - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY: GOLD COPPER OXIDE SILVER

BIBLIOGRAPHY: ADMMR BIG RUTH FILE

#### YAVAPAI

Went with William Haggerty to his two unpatented Big Ruth claims in Sec. 9 & 10, T7N, R2W, Yavapai County, where a bluff about 75 feet high shows considerable alteration due probably to pyrite mineralization. A out 20 feet below the top of the hill a 4" - 6" streak of quartz striking north and dipping  $15^{\circ}-20^{\circ}$  W bounds the pyrite mineralization. It was suggested that because his finances are limited, he confine his sampling and other work to the narrow quartz streak which appears favorable for Au deposition. His old pick up would not make it up the Canyon toward Paul Harris's diggings. GW WR 8/23/72

William Haggerty called to report that the sample we took from his narrow a quartz vein didn't show any appreciable gold when panned. GW WR 8/24/72

William Haggerty brought in a box of sample from his copper claims near the Maricopa-Yavapai County line 10-11 miles east of Morristown. There was a considerable amount of oxide copper minerals in some highly altered igneous rock. It was suggested he trench the deposit which he said exceeds 100 feet in width. GW WR 8/28/72

Mrs. Haggerty called to say she had an assay result from a deposit in White Picacho area that showed 2.76 oz. Au, 0.14 oz. Ag, 10.68% Cu and a Tr of Zn. It was suggested he trace the deposit by trenching and sample it in a number of locations. GW WR 11/27/72

Mrs. Haggerty said that Inspiration had been doing some geophysical prospecting on their Cu claims about 12 miles east of Morristown and had retained the option. GW WR 12/29/72

Mrs. William Haggerty, Phoenix, called to say that although Kerr-McGee had turned their Cu property east of Morristown down, Inspiration was continuing their exploration. GW WR 1/5/73

Mrs. William Haggerty called to report that Inspiration Copper Corp. had rejected their copper prospect about 11 miles east of Morristown saying it was of the vein type. She will make available to this office the data released to them by Inspiration. GW WR 1/9/73

Accompanied William Hagerty to his 14 unpatented Big Ruth claims in Sec. 9,10, 14 & 15, T7N R2W. Here an extensive outcrop of sheared andesite crops out. This formation extends from a ½ mile south of the Castle Hot Springs road to more than a mile in a S25-30°E direction. It is in excess of 1000 feet wide. For the most part it is porphyritic but in small areas it is felsitic and everywhere hematitic. Along the northeast side and roughly parallel to the outcrop a shear zone 15-20 feet wide contains Cu and Au mineralization which is 6" - 3 feet thick. An excavation 35 feet long and 15 feet deep partially uncovers the vein where it is at least 3 feet wide and assays 10.65% Cu and 2.65 oz. Au/ton. The mineralization here is highly oxidized and porous containing a great deal of hematite, pyrolusite with some copper carbonates.

( continue?)

#### YAVAPAI

The vein strikes N45W and dips about  $70^{\circ}$  to the southwest. Approximately 200 feet to the southeast of this excatation another smaller one reveals 8" - 1 feet of good mineralization assaying 1.055 oz. Au per ton. Here the vein matter strikes N25W and dips steeply to the southwest and has the general appearance of that in the larger pit. A out 200 feet further southeast along the shear zone a very small dig has been made which doesn't disclose the full width of the mineralization, however, material from this hole panned Au. It was suggested that Mr. Hagerty cut trenches at intervals of about 50 feet between the two larger pits and sample the vein matter uncovered. He stated that he was in contact with Homestake Mining Company, Lead, South Dakota, and that they were sending a geologist to examine the property in 2 to 3 weeks. It was suggested that the amount of mineralization presently available for examination wasn't impressive and that an examination by a major company should be delayed until considerably more additional work was done. GW WR 2/2/73

Mrs. William Hagerty called to say Mr. Gillette of AMEX will examine their Big Ruth claims shortly. GW WR 2/6/73

Mrs. William Haggerty phoned to say her husband had opened the vein on their BiG Ruth Cu-Au claims east of Morristown for over 100 feet and that it was about 5 feet in width. No samples have been taken for assay but all exposures pan Au and indicate considerable oxide Cu minerals. GW WR 2/26/73

Mrs. William Haggerty called to know the significance of water rushing into their prospect pits. The pit is only about 5 feet deep, therefore, it must be surface water. GW WR 3/6/73

Mrs. Haggerty called to say Fremont Clarke of Moutain States Exploration Company of Tucson had reported the samples he took averaged 1.5 oz. Au/t and that the copper was amendable to their leaching.process. GW WR 4/6/73

Mrs. Haggerty phoned to report they had a slight reaction for uranium in their ore from 11 miles east of Morristown. GW WR 4-13-73

Mrs. William Haggerty called to say that Mr. Gillette of Placer Amex krought had examined their Au-Cu prospect 11 miles east of Morristown and had run two IP lines across it besides taking several large samples. She also said Mr. Clarke of Mountain States Exploration Company had returned to get more samples also. Inspiration was returning Wednesday and wanted to know what kind of deal they wanted. GW - WR 4-27-73

Returned Mrs. Haggerty's call. She said Mr. VonBeck, geologist for Inspiration Copper Company told her husband last Wednesday they were definitely interested in the property but couldn't get their geophysical crew from Alaska here until November. This was Mr. VonBeck's third visit to the property ll miles east of Morristown. GW - WR 5-4-73 Mrs. Haggerty called to say hugh Olmstead, Inspiration Coppe. Company said their prospect 11 miles NE of Morriwtown warranted at least 3 core holes. GW - WR 5-4-73

Big Ruth '

Mrs. Haggerty called to ask the size of auger for her husband to use on the Au-Cu vein east of Morristown. GW WR 5-11-73.

1 1

Yavapai

William Haggerty took me to his Big Ruth Cu-Au claims 11 miles east of Morristown where he has completed 3 more trenchs across the fault structure. Mr. Von Beck of Inspiration has shown considerable interest in this prospect recently and has told Mr. Haggerty that by fall when their exploration crew returns from Alaska that they will conduct and extensive exploratory campaign if the property is available. Both Messrs. Gillette of Placer Dev. Company and Clarke of Rocky Mtn. Exploration have visited the claims twice and taken samples on both occasions. GW WR 5-18-73

Mrs. William Haggerty called for advice on incorporating a company and selling stock in their Cu-Au prospect east of Morristown. It was pointed out the cost of incorporation as well as the time necessary to obtain permission to sell stock outside the state. Mrs. Haggerty called again to say that Mr. Jones of Essex International had contacted them regarding the examination of their Big Ruth Au-Cu claims east of Morristown. GW WR 5-25-73

Mrs. William Haggerty called to say that Mr. Gillette of Placer Development had submitted some results of his geochem sampling of their Big Ruth claims, they are: Au 0.2, 0.3, 0.4, 0.9 ppm and Zn 110 ppm. Mr. Gillette told them the deposit was too small to be of interest to his firm. GW WR 5/30/73

Mrs. William Haggerty called to say Mr. Dressler of Norandex will examine their Big Ruth Cu-Au claims east of Morristown next week. GW WR 5/31/73

Mrs. William Haggerty, Phoenix, phoned to say Mr. Haggerty now has his wet placering machine on their Big Ruth claims 11 miles east of Morristown. GW WR 6/25/73

William Haggerty brought in some concentrates he had made with his wet placer machine from his Au-Cu prospect east of Morristown. It was very fine (-30 mesh?) as the machine is a series of shaking screens. It was suggested he discard all the screens except the  $\frac{1}{4}$ " and in their place install a 12 foot sluice box. GW WR 6/29/73

Mrs. Haggerty called to report an assay of surface material from their Big Ruth claims east of Morristown ran 0.02 Au/ton. GW WR 7/13/73

Bill Haggerty regarding placer operation; apparently slimes interference. Suggested mixing barrel addition and steeper gradient for the sluices. FTJ WR 8/7/73

#### YAVAPAI

Mrs. Hagerty called and said she and her husband Wm. had searched the records and found that Mr. Cousins et al had originally staked about 100 claims (including the ground they are claiming) in 1960 but had not kept the annual assessment work up to date until 1968 when he, Cousins, restaked them. Records also show that Cousins did \$10,000 worth of work in 1972. She, therefore, wanted to know if they (Hagerty) had a right to their claims. It was suggested the burden of proof of abandonment was probably on them but they should consult a lawyer, such as Mr. Mackenzie. GW WR 12/10/73

In the office Mrs. Hagerty called to say their suit against Cousins was due to oopen soon and wanted me to make a written statement as to the lack of location notices on their claims 11 miles east of Morristown. I told her I was sorry, but I couldn't truthfully say I looked for location notices. GW WR 7/8/75

Mr. Haggerty is continuing exploration work on his claims west of Crown King. KAP WR 10/3/75

Bill Haggerty came in to discuss the lawsuit involving 14 claims he staked in 1973 that are claimed by Art Cousins..GW WR 10/6/75

Mrs. Haggerty called to say the Yavapai County judge instructed her husband, Bill, to get an attorney to present his case in court. GW WR 10/9/75

Mr. William Haggerty came in to further discuss his upcoming lawsuit with Arthur Cousins. Mr. Haggerty has discovered that some 30 felonies have bee committed by Cousins including a dishonorable discharge from the army during the last war for being AWOL. GW WR 10/22/75

Mrs. William Haggerty called to report they had retained Albert Mackenzie to represent them in the suit initiated by Art Cousins on claims 11 miles east of Morristown. GW WR 11/18/75

Mrs. Haggerty, Phoenix, called for the identification of a Mr. Mahan who had staked the ground they are claiming ll miles east of Morristown, prior to Mr. Cousins in 1960. She was told we had no information on the man, but it was suggested she contact Mr. Wm. Slatten of Morristown. GW WR 1/5/76

KAP WR 6/6/80: Phil Swogger was in for information on developing prospects. He reported he is a real estate agent (no mining expertise) and is trying to sell Art Cousins and Joe Hughes claims in the Castle Creek area, Yavapai County.

## YAVAPAI COUNTY

RRB WR 12/25/81: William Hagerty, 101 N. 32nd Place, Sp. 30B, Phoenix, AZ 85034 - phone (602) 244-8500 brought in some samples from the Big Ruth in Section 10, T7N R2W White Picacho District, Yavapai County.

Chris and I crushed and split them for him and he is taking them to the Iron King Assay Office. They contained considerable hematite and some oxide copper.

KAP WR 10/22/82: Mr. and Mrs. Fom Hagerty, owners of the Big Ruth Group in T7N R2W, White Picacho District, Yavapai County, were in to discuss their property. The litigation on the claims has ended in their favor. They would like to interest an exploration company in their holdings. Their current address is 101 N. 32nd. St., Space 30B, Phoenix, AZ 85034, phone 244-8500.

kap wr 11/5/82: Mr Hagerty reported he has finally gotten a clear title to his Big Ruth claim group. The property has been evaluated as a porphyry copper target by some of the majors. He feels the property may have gold potential. Suggested he contact NRG, Ranchers and Santa Fe all of which have a current interest in the area.

KAP WR 1/14/83: Bill Hagerty reported he is assembling a submittal package for his Big Ruth claim group.

NJN WR 1/28/83: William Haggerty visited and reported that Santa Fe Mining Company will visit and examine his Big Ruth property in Yavapai County in early February. Mr. Haggerty also reported receiving a couple of other interested replies from his property submittals.

## YAVAPAI COUNTY

KAP WR 4/8/83: William Hagerty reported that both Newmont Exploration and Houston International Minerals have expressed an interest in his Big Ruth property.

RRB WR 11/11/83: Bill Hagerty, owner of the Big Ruth Claims, Yavapai County, reports that Newmont is still very interested in them as are AMAX and Sante Fe. Fischer-Watt is also showing some interest in them.

NJN WR 12/2/83: Bill Hagerty visited and supplied a geologic map along with a geochem map and results, all done by AMAX, Inc. for the Big Ruth Claims, Maricopa County.

KAP WR 4/6/84: Richard Taylor, Geologist, Rea Gold, Vancouver, B.C. Ph (604) 684-7527 inquired about the Big Ruth property of Mr. Haggerty. It was suggested that he might want to look at the property when he was in the area.

KAP WR 8/3/84: Mr. Haggerty was in to read and study about cyanide heap leaching. One of the geologists from an exploration company which turned down the property suggested to Mr. Haggerty that he should heap leach the property himself, Big Ruth (f) Yavapai County.

Arizona Department of Mines and Mineral Resou .es

(\* )

VERBAL INFORMATION SUMMARY

May be Reproduced

/ /

1.	Information from: <u>Claude Mattox</u> - Realtor Ph: 955-0505	
0	Address:	
2.	Mine: Big Ruth 3. ADMMR Mine File Same	
4.	County: Yavapai 5. District	
6.	Township Range Sec(s)	
	Location:	
8.	No. of Claims - Patented Unpatented	
	Owner (if different from above) William Haggerty	
	Address: 101 N. 32nd Place, sp.30B Phoenix 85034	
11.	Operating Company:	
12.	Pertinent People and/or Firm:	
13.	Commodities:	
	Operational Status:	
15.	Summary of information received, comments, etc.:	
	Was asked by Mr. Haggarty to market the property as a gold mine. The	
	claims are currently leased to a mining company ( unnamed)which would be	part
	of the deal. Mr. Mattox has concluded there is insufficient evidence of	
	economic value.	
	Pj	
	Date: 10/26/89 Leroy E. Kissinger, Director	
	Date: 10/26/89 Leroy E. Kissinger, Director (Signature) ADMMR	

 REPORT OF PROPERTY EXA NATION

 BY SAMA FE INDUSTRIES

 Date of report: 8/9/83

 Index no.:

 Date of exa

 Date of exa

 4, -9/83

 Commodity: Au, Ag

 Fxamined by: JRL, TNT

 State: AZ

 Topographic sheet:

 Garfias Mtn. 7.5' quad

 Block no.:

Name of property: Big Ruth Claims Fice

Summary of conclusions & recommendations: Anomalous gold and silver mineralization is associated with narrow, widely spaced silica veins cutting locally argillized and FeOx-stained rhyolites and andesites. Widespread disseminated Au/Ag, however, is not indicated on the property; bulk mineable potential is low. Recommend no further action.

## K GENERAL

Location, general: Approximately 40 mi NE of Phoenix; 15 SE of Wickenburg

State: Arizona County: Yavapai Mining Dist. White Picacho District Section, township, range: Secs. 9-11,14-16, T7N, R2W

Accessibility: Access to property is good along Castle Hot Springs Road about 12 mi NE of Morristown; turn right.on dirt road (opposite Big Reef Mill road) 1 mi to claim block area.

Size of property: No. Claims: No. Acres: approx. ½ section 22 claims approx. 350 acres

legal status of property: Unpatented lode claims located on BLM controlled land.

Ownership of property: William J. Haggerty, owner 101 N. 32nd Street, Space 30B Phoenix, Arizona 85034

Owner's proposed terms: Unknown

History & production: Unknown

Development: Minor shafts and adits (caved) are located near the claim block.

#### +GEOLOGY

Regional geology: The Big Ruth claims are situated near the northwest terminus of the Heiroglyphic Mountains, west of Lake Pleasant. This region is underlain by Precambrian Yavapai Series schist and overlying Cretaceous(?)-Teritary volcanics of andesitic to rhyolitic composition (Wilson and others, 1969). Rhyolite intrusive units locally cut the volcanics.

Geology of the prospect: Rocks underlying the Big Ruth claims include andesite, quartz latite, flow banded rhyolite and rhyolite tuff. These units are flat lying to steeply, dipping where deformed along a major northwest-trending fault which transects the claim block.

All units observed display hydrothermal alteration effects to varying degress. Weak to strong hematite/limonite and argillic alteration is locally present; however, silicification is confined to narrow (max. 2 feet wide), widely spaced silica veins containing chalcedoney, druzy quartz and minor brecciation. Mineralization, consisting of minor chalcopyrite and arsenopyrite, is spatially associated with these silica veins. Apart from a 20-ft-thick conglomeratic unit seen on the property, the rocks are generally not altered sufficiently, nor porous enough to suggest the presence of widespread disseminated mineralization.

Anomalous gold (.03-.95 ppm Au) and weakly anomalous silver (<.2-3.2 ppm Ag) was det**acted** in virtually all samples. However, as shown in Table 2, precious metal values are generally concentrated in the previously described narrow silica veins. A bulk mineable disseminated precious metal orebody is not indicated on the property. Mercury values (.03-4.30 ppm Hg) are strongly anomalous throughout the area: arsenic also appears anomalous.

# CONCLUSIONS & RECOTTENDATION

- 1) The Big Ruth claims are underlain by intermediate to felsic volcanic rocks which are locally argillized, iron-stained and contain minor silica veins parallel to a major northwest-trending fault.
- 2) Anomalous gold, silver, arsenic(?) and mercury indicates the proper geochemical environment for precious metal mineralization of the epithermal, hot springs type. However, gold-silver mineralization of note appears confined to narrow, widely spaced silica veins. The bulk mineable potential of the claim area is low.
- 3) Recommend no further action be taken on the Big Ruth claims at the present time.

ACTION TAKEN

#### · REFERENCES

Wilson, E. D., Moorse, R. T., and Copper, J. R., 1969, Geologic map of Arizona: Arizona Bur. of Mines and U.S. Geol. Survey

PROPERTY SUBMITTED BY Own

Owner, Mr. William J. Haggerty

#### APPENDICES

Figure	1.	Location map of the Big Ruth claim area.
Figure	2.	Sample location map.
Table	1.	Table of Assay results and sample descriptions.
		Summary of assay data.

Sound the second second second	e i Pag E <u>8/8/83</u>		. TNT		te Picac ing Dist		/ PLOTTE	D Garfi	las Mtn.	_ <u>7</u> ½'Q	PROJECT <u>Big Ruth Clai</u>
SAMPL	E	LOCATION	SAMPLE	DESCRIPTION	1	1	ASSA'	Y DATA (	(ppm)	REFER.	PEMARKS
NO.	TYPE	GENERAL-SAMPLE SITE	FIELD NAME	TEXTURE	COLOR	Au/Ag	As/Hg	Sb/Cu	Pb/Zn	REFER. FIELD NOTES	rumanno
BR-001	R V SS S W (D)	Big Ruth	Qtz-rich Intermediate Volcanic			.45	264 .75	<1 5 410	2 102		coarsely prophyritic possible qtz latite. mod hmt on weathered surfaces wk argillic altin of feldspars
BR-002	R V SS S ₩ (D)	Big Ruth	Vein Rock			.95	129 4.30			5	chalcedony, vuggy tex ures, druży gtż crust: fication in minoramou minor limonite, hmt, MnOx rare CuOx stains
BR 13	(R) ∨ SS S ₩ D	Big Ruth	Andesite			.17	V	<1	<5 28		Strly bleached, argillized and strly stained w/earthy, clay rich hmt.
BR-604		Big Ruth	Rhyolite			.53	602 1.50	<1	13		moderate argillic alt and red hmt staining ( fract's.
BR-005	(R) ∨ ss s ₩ D	Big Ruth	Vein Rock			.07	377	<1 9300	X.		Presumed fault contac between rhyolitic and upthrown qlp. Minor C Ox on fract. Mod hmt stains, wk/mod arg. a
BR-006		Big Ruth	Rhyolite			.07	317	<1	<5 8 90	2	Flow-banded Rhyolite, modly argillized w/ moderate hmt on fract
BR-007		Big Ruth	Vein Rock			.86	182	<1	539 6 12	1	Silica vein 1-2 Wide contact betw near ver flow-banded rhyolite strly limonitic, bleac rhyolite tuff.
BR	(R) ∨ SS S ₩ D	Big Ruth	Vein Rock		•	.04	.68	<1 22	2 <u>35</u>		arsenopyrite (<3%). Intrudes into pebble conglomerate rock
BR-009		Big Ruth	Vein Rock			.08		<1 530	81		1-2' wide at NE conta betw andesite (prophy llitic alt) and limon itic, bleached rhyoli
BR-010	(R) V SS S W D	Big Ruth	Rhyolite			.10	X			2	moderately argillized mod/strong limonite a wk hematite oxides in fractures, rare sulfi assoc/w silica-filled
BR-011		Big Ruth	Rhyolite			.06	283	<1 35	14 5 69	9	Moderate argillic alteration, surface Fe Ox stains
	Rock	V = Vecetation			<u>a la sur a sur a</u>	<u></u>		- Annonen - Hert	<u></u>		

R = Rock V = Vegetation

PEWARKS	REFER. FIELD NOTES		DATA (p				DESCRIPTION	SAMPLE	LOCATION	.Ε	SAMP
	NOTES		Sb/Cu		standard a subliding	COLOR	TEXTURE	FIELD NAME	GENERAL-SAMPLE SITE	TYPE	NO.
Moderate argillic alteration, surface Fe Ox stains		101 310		3.05	.03			Rhyolite	Big Ruth		BR-012
Flat-lying intensely i Ox-stained breccia. 2 angular to rounded sch silipa fragments, in bright red matrix of hmt - limonite-in Ox.		<5 390	<1 290	.12	.08			Breccia	Big Ruth	<pre>     R v     ss s     w D </pre>	2376
Rock strly leached, vuggy. No Description		9	<1 49	.03	.08	×			Big Ruth	R v SS S W D	2377
										R V SS S W D	
										R V SS S W D	
										R V SS S W D	
										R V SS S W D	$\cap$
,									•	R V SS S W D	0
										R V SS S W D	
										R V SS S W D	
										R V SS S W D	•

Precious, Trace, and Base Metal Assay Data from 14 rock chip and dump samples on the Big Ruth claims, Yavapai County, Arizona

Gold No. of samples: 14 Range: .03-.95 ppm Au Average of vein samples: .40 ppm Au Average of altered rock samples: .17 ppm Au

#### Copper

No. of samples: 14 Range: 22-9300 ppm Cu Average (excluding hi-grade sample of 9300 ppm Cu): 143 ppm Cu

#### Zinc

No. of samples: 14 Range: 12-390 ppm Zn Average: 91 ppm Zn

#### Antimony

No. of samples: 14 Range: all <1 ppm Sb Average: <1 ppm Sb Silver No. of samples: 14 Range: <.2-3.2 ppm Ag Average of vein samples: 1.1 ppm Ag Average of altered rock samples: .2 ppm Au

Lead No. of samples: 14 Range: <5-539 ppm Pb Average: 59 ppm Pb

Arsenic\* No. of samples: 14 Range: 107-777 ppm As Average: 288 ppm As

Mercury No. of samples: 14 Range: .03-4.30 ppm Hg Average: 1.19 ppm Ag

\*Arsenic values are suspect, because of probable lab error.

#### TABLE 2

Geology of the prospect (colonued)

Samples taken: The results of 14 rock chip and dump samples collected on the Big Ruth claim are shown in Tables 1 and 2.

Estimate of reserves: None indicated

### KECONOMIC CONSIDERATION

Environmental impact:

Mining methods indicated:

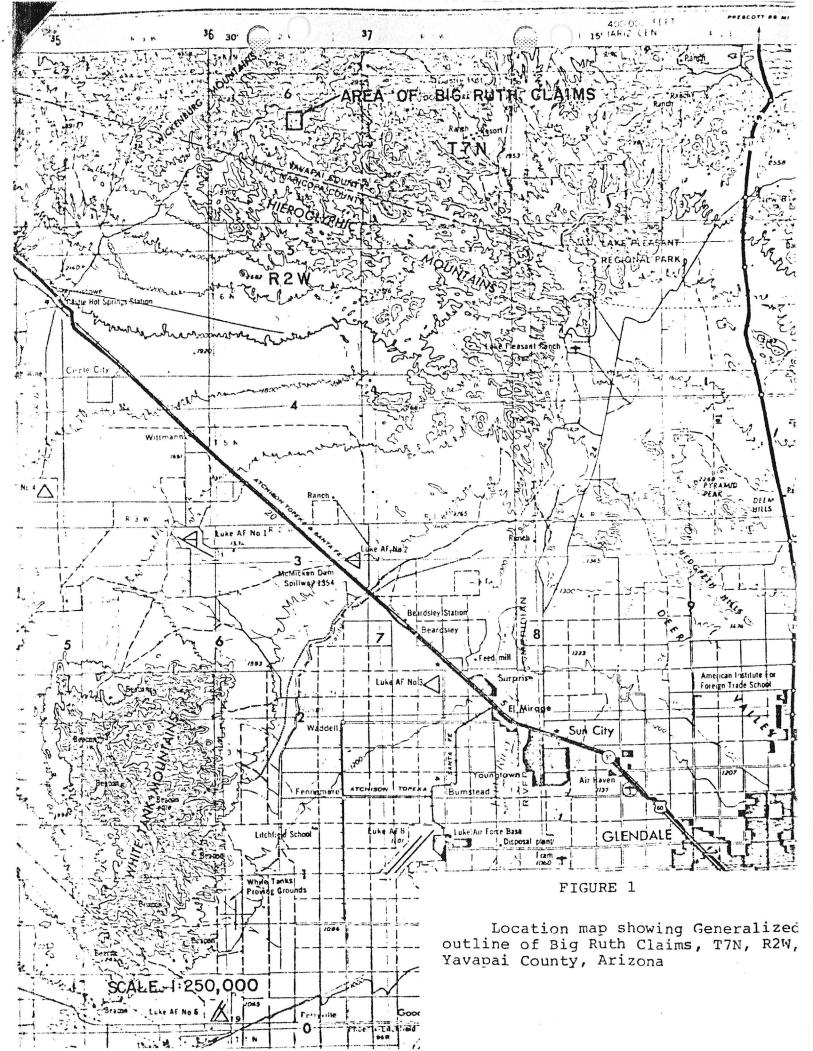
Reserves

Improvements & equipment:

Power & water supply:

Pailhead & supply points:

Marketing conditions:



#### DEPARTMENT OF MINERAL RESOURCES state of arizona field engineers report

Mine Big Ruth Calims

Date May 5, 1974

District White Pichacho

Engineer Glen Walker

Subject: MIne Visit

Accompanied William Hagerty to his 14 unpatented Big Ruth claims in Section 9, 10, 14 and 15 T7N R2W. Here an extensive outcrop of sheared andesite crops out. This formation extends from a 4 mile south of the Castle Hot Springs road to more than a mile in a S 25-30 E direction. It is in excess of 1000 feet wide. For the most part it is porphyritic but in small areas it is felsitic and everywhere hematitic. Along the northeast side and roughly parallel to the outcrop a shear zone 15-20 feet wide contains Cu and Au mineralization which is 6" - 3' thick. An excavation 35 feet long and 14 feet deep partially uncovers the vein where it is at least 3 feet wide and assays 10.65% Cu and 2.65 oz Au/ton. The mineralization here is highly oxidized and porous containing a great deal of hematite, pyrolusite with some copper carbonates.

The vein strikes N45W and dips about 70° to the southwest. Approximately 200 feet to the southeast of this excatation another smaller one reveals 8" - 1 foot of good mineralization assaying 1.055 oz. Au per ton. Here the vein matter strikes N25°W and dips steeply to the southwest and has the general appearance of that in the larger pit. About 200 feet further southeast along the shear zone a very small dig has been made which doesn't disclose the full width of the mineralization, however, material from this hole panned Au. It was suggested that Mr. Hagerty cut trenches at intervals of about 50 feet between the two larger pits and sample the vein matter uncovered. He stated that he was in contact with Homestake Mining Company, Lead, South Dakota and that they were sending a geologist to examine the property in 2 to 3 weeks. It was suggested that the amount of mineralization presently available for examinationg wasn't impressive and that an examination by a major company should be delayed until considerably more additional work was done.

	OR THE COUNTY OF YAVAPAI BIG RUTH
	BARBARA BOYLE, Clerk of the Superior Court
ON. JAMES B. SULT (Judge)	By: <u>Agnes Curtis</u> (Deputy)
ASE NUMBER:	DATE: July 2, 1982
	COUNSEL:
A. W. COUSINS et al	John Hughes
	•
(Plaintiff)	(For Plaintiff)
VS:	and
WILLIAM J. HAGERTY et ux	Chester Lockwood, Jr.
(Defendant)	(For Defendant)
ING ON:	NATURE OF PROCEEDINGS
ING ON:	
Formal Written an Berein, now therefore, it is ORd Partial Summary Judgment is gran Schibit A are null and void; min are vested in Defendant as of De	d signed Partial Summary Judgment having been filed ered Judgment enter Defendant's Motion for ted; mining claims of Plaintiff as set forth in ing claims as set forth in Partial Summary Judgment cember 31, 1981 and plaintiffs are barred from ng claims; further ordered quieting title in the
Formal Written an Berein, now therefore, it is ORd Bartial Summary Judgment is gran Schibit A are null and void; min re vested in Defendant as of De Esserting any right in said mini	d signed Partial Summary Judgment having been filed ered Judgment enter Defendant's Motion for ted; mining claims of Plaintiff as set forth in ing claims as set forth in Partial Summary Judgment cember 31, 1981 and plaintiffs are barred from
Formal Written an erein, now therefore, it is ORd artial Summary Judgment is gran whibit A are null and void; min re vested in Defendant as of De sserting any right in said mini	d signed Partial Summary Judgment having been filed ered Judgment enter Defendant's Motion for ted; mining claims of Plaintiff as set forth in ing claims as set forth in Partial Summary Judgment cember 31, 1981 and plaintiffs are barred from
Formal Written an erein, now therefore, it is ORd artial Summary Judgment is gran whibit A are null and void; min re vested in Defendant as of De sserting any right in said mini	d signed Partial Summary Judgment having been filed ered Judgment enter Defendant's Motion for ted; mining claims of Plaintiff as set forth in ing claims as set forth in Partial Summary Judgment cember 31, 1981 and plaintiffs are barred from
Formal Written an erein, now therefore, it is ORd artial Summary Judgment is gran whibit A are null and void; min re vested in Defendant as of De sserting any right in said mini	d signed Partial Summary Judgment having been filed ered Judgment enter Defendant's Motion for ted; mining claims of Plaintiff as set forth in ing claims as set forth in Partial Summary Judgment cember 31, 1981 and plaintiffs are barred from

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1	CHESTER R. LOCKWOOD, JR.
2	117 East Gurley Street, Suite 205 Prescott, Arizona 86301 (602) 445-9405
3	
4	Attorney for Defendants
5	
6	IN THE SUPERIOR COURT OF THE STATE OF ARIZONA
7	IN AND FOR THE COUNTY OF YAVAPAI
8	A.W. COUSINS (deceased); JOHN )
9	C. HUGHES, a single man; ) PHILLIP WICKSTRUM, a single ) man; and CASTLE MINING CORP., ) No. 29062
10	Plaintiffs,
11	V. PARTIAL SUMMARY JUDGMENT
12	WILLIAM J. HAGERTY and RUTH )
13	HAGERTY, husband and wife, )
14	Defendants.
15	/
16	DEFENDANTS, WILLIAM J. and RUTH HAGERTY, having pre-
17	viously filed Motion for Summary Judgment on the 10th day of
18	March, 1982, and the Court having considered said Motion and
19	Response thereto and the Supplemental Memorandum Affidavits,
20	Exhibits and Agruments of Counsel, and having been fully advised
· 21	in the premises, the Court makes the following findings:
22	1. Defendants' Motion should be construed as a Motion
23	for Partial Summary Judgment and limited to the question of title
24	to the disputed mining claims which are the subject of this
25	action on or after December 31, 1981;
26	
27	2. That the issue as presented on Motion for Partial Summary Judgment, and as presented to the Count is fairly with
28	Summary Judgment, and as presented to the Court, is fairly within the pleadings of the particle.
	the pleadings of the parties;

· · · · ·

and a shortest

3. There is no issue of material fact as to the title of subject disputed mining claims on or after December 31, 1981;

1

2

3 The ninety-four (94) mining claims herein, as set 4. forth in Exhibit A to Defendants' Motion for Summary Judgment, 4 5 dated December 31, 1981 are null and void and Defendants are entitled to a Decree of this Court quieting their title as to 6 7 mining claims set forth in Exhibit B to the Defendants' Motion 8 for Summary Judgment, in and to said subject mining claims and 9 as to their right to the land encompassed by said claim as against 10 the Plaintiffs and each of them as of December 31, 1981 and 11 thereafter;

12 5. That the above findings of fact do not effect 13 Plaintiffs' entitlement to damages, if any, for Defendants' 14 action vis-a-vis the subject disputed mining claims prior to 15 December 31, 1981.

16 WHEREFORE, IT IS ORDRED, ADJUDGED and DECREED as
17 follows:

The Defendants' Motion for Partial Summary Judgment
 and limited question of title to subject disputed mining claims
 on and after December 31, 1981 is hereby granted;

21 2. That the mining claims of the Plaintiffs herein,
22 which were set forth in detail in Exhibit A to Defendants' Motion
23 for Summary Judgment and were the subject of the disputed claims
24 herein, are as of on and after December 31, 1981 null and void;

3. That it is hereby ordered, adjudged and decreed
that mining claims as herein set forth with the corresponding
docket and page number of the Location Notices recorded in the
Office of the Yavapai County Recorder, to-wit:

-2-

## LOCATION NOTICE RECORDED IN THE OFFICE OF THE YAVAPAI COUNTY RECORDER

1

2

1			
3	NAME OF CLAIM	DOCKET	PAGE
4	BIG RUTH NUMBER 1	1437	76-762
5	BIG RUTH NUMBER 3	1441	69 <b>6-69</b> 7
6	BIG RUTH NUMBER 4	1441	698-699
7	BIG RUTH NUMBER 5	1441	700-701
8	BIG RUTH NUMBER 7	1437	763-764
9	BIG RUTH NUMBER 8	1437	765-766
10	BIG RUTH NUMBER 9	1437	767-768
11	BIG RUTH NUMBER 10	1437	769-770
12	BIG RUTH NUMBER 11	1437	771-772
13	BIG RUTH NUMBER 12	1437	773-774
14	hereby vested in the Defendants as	of December 21 10	

14 hereby vested in the Defendants as of December 31, 1981, and 15 thereafter, and the Plaintiffs, and each of them, and any person 16 or organization claiming under them, are hereby barred from 17 asserting any right, claim or title adverse to the Defendants' 18 title in said mining claims as granted herein;

19 4. The quieting of title to the above mentioned mining
20 claims in the Defendants herein does not affect the Plaintiffs'
21 entitlement to damages, if any there may be, for Defendants'
22 actions vis-a-vis the subject mining claims prior to December
23 31, 1981.

DONE IN OPEN COURT this 2 day of July 24 1982 25 26 HONØRABLE JAMES Β. SULT 27 Judge of Superior Court, Div. II 28 A COPY OF THE FOREGOING JUDGMENT

-3-

mailed this 39 day of June, 1982, to: JOHN C. HUGHES, Esq. 1501 North Seventh Avenue Phoenix, Arizona 85006 Attorney for Plaintiffs Mysin A By: -4-





## United States Department of the Interior

BUREAU OF LAND MANAGEMENT ARIZONA STATE OFFICE 2400 VALLEY BANK CENTER PHOENIX, ARIZONA 85073

APR 0 5 1979

March 13, 1979

IN REPLY REFER TO

A MC 34321 thru A MC 34336 (952)

10:00 A.M. Phoenix; Arizona

Mr. William Hagerty 311 S. 18th Street Phoenix, AZ 85034

Dear Mr. Hagerty:

This letter is to identify the serial numbers we have assigned to your mining claim location notices filed in this office on February 20, 1979.

#### Serial Number

Name of Claim

A MC 34321 A MC 34322 thru 34325 A MC 34326 A MC 34327 and 34328 A MC 34329 thru 34334 A MC 34335 and 34336

Big Ruth Big Ruth No. 2 thru 5 Big Ruth Extention Big Ruth Extention No. 1 & 2 Big Ruth Number 1A thru 6A Big Ruth Placer No. 1 and 2

Please refer to the claim names and the respective serial numbers in any future correspondence.

Enclosed is a chart showing requirements for filing affidavits of assessment work or notice of intention to hold mining claims.

Sincerely,

Valle

Chief, Branch of Records and Data Management

Enclosures



### THE UNIVERSITY OF ARIZONA

TUCSON, ARIZONA 85721

ARIZONA BUREAU OF MINES

TEL. (602) 884-2733

20 September 1972

Sample No. 53954

William Hagerty 757 East Adams Phoenix, Arizona 85034

Dear Mr. Hagerty:

<u>Sample No. 1</u>, submitted to the Arizona Bureau of Mines for examination is a weathered igneous rock called a felsite porphry composed of orthoclase feldspar (common rock-forming mineral), muscovite mica, biotite mica, limonite (hydrous iron oxide), and clay minerals.

<u>Sample No. 2</u> is an altered felsite composed of orthoclase feldspar, sericite (fine grained muscovite mica), quartz, pyrite (iron sulfide), and limonite.

<u>Sample No. 3</u> is a rock called hornfels composed of quartz, feldspar, sericite, pyrite, and limonite.

Spectroscopic analyses were performed on the samples and traces X of copper were detected in Sample Nos. 2 and 3, but no other Y metals of direct economic interest were detected.

In answer to your questions, the term potash is commonly used in connection with any material containing the element potassium. All three samples submitted contain potassium as shown by mineralogical and spectroscopic analyses. The presence of potassium was to be expected because orthoclase, muscovite, sericite, and biotite all contain this element. Many areas and their rocks contain potash minerals. In fact, the lithosphere contains approximately 3.10 percent potash. Therefore the presence of potash minerals alone does not indicate the presence of an ore body.

In regard to sericite, its presence in rocks can also be misleading. For example, most magmas and their hydrothermal solutions did not have sufficient metal content to form ore deposits; however, as these solutions intruded the earth they did help form a great deal of sericite and/or other alternation minerals. Therefore, the presence of sericite or other alteration minerals does not necessarily indicate the presence of an ore body.





William Hagerty Page 2 20 September 1972

Silicification is the entire or partial replacement of rocks and fossils with silica, either as quartz, chalcedony, or opal. No silicification was noted in Sample No. 1; Sample No. 2 had some in the form of quartz veins; Sample No. 3 had a minor amount.

Metasomatism is the process of practically simultaneous solution and deposition, through small openings, usually submicroscopic, and mainly by hypogene water solutions by which a new mineral of partly or entirely different Composition may grow in an old mineral or in an old mineral aggregate. Potash metasomatism is the above process whereby the new mineral formed contains potassium or more potassium than the mineral it has replaced.

Much has been written about hydrothermal alteration, silicification, and metasomatism. I am enclosing xerox copies of the literature cited in S. C. Creasey's paper entitled <u>Hydrothermal Alteration</u> to be found in the University of Arizona Press publication <u>Geology</u> of the Porphyry Copper Deposits-Southwestern North America. Alteration can only be used as a guide to finding ore bodies, and geologists and others have been using it for years. However, it is my opinion that the use of alteration, or better yet the misuse of alteration studies, have misguided more than guided people to finding ore bodies. But one seldom writes of their misfortunes, especially in technical publications.

I sincerely hope this information will be helpful to you.

Yours very truly,

TCIAtire

Robert T. O'Haire Associate Mineralogist

RTO:rj



## THE UNIVERSITY OF ARIZONA

TUCSON, ARIZONA 85721

ARIZONA BUREAU OF MINES

TEL. (602) 884-2733

17 October 1972

William Hagerty 757 East Adams Street Phoenix, Arizona 85034

Dear Mr. Hagerty:

In regard to Arizona Bureau of Mines Sample No. 53963 and in answer to your request for further information, the unlabeled rock containing the malachite appears to be an altered and/or weathered and site (?). Evidence leading to a positive identification of the rock by petrologic methods is lacking due to its altered and/or weathered condition.

The rock is composed of feldspars, clay minerals, hematite, limonite (5) - 3 sericite, malachite, and calcite.

The other unlabeled rock submitted is an altered and site porphyry and is in much better condition than the above rock. It is composed  $\oplus$  -.05 of plagioclase, orthoclase, limonite, clay, sericite, quartz, and manganese oxide.

Spectroscopic analyses on the sample containing malachite showed that copper was present but no other metals of direct economic interest were detected.

No metals of direct economic interest were detected in the andisite porphyry.

I sincerely hope this information will be helpful to you.

Yours very truly,

Robert T. O'Haire Associate Mineralogist

RTO:rj



### THE UNIVERSITY OF ARIZONA

TUCSON, ARIZONA 85721

ARIZONA BUREAU OF MINES

TEL. (602) 884-2733

3 November 1972

William Hagerty 757 East Adams Phoenix, Arizona 85034

Dear Mr. Hagerty:

Sample No. 53993

<u>Sample No. 6</u> submitted to the Arizona Bureau of Mines for examination is composed of clay minerals, limonite (hydrous iron oxide), <u>hematite</u> (iron oxide), manganese oxide, sericite (fine grained muscovite mica), quartz, orthoclase feldspar (common rock-forming mineral), and calcite (calcium carbonate).

X <u>Sample No. 7</u> is predominantly clay minerals with some leucoxene (litanium oxide) and <u>iron oxide</u>. Some <u>chromium</u> was detected by spectroscopic analysis. However chromium in this form is not of economic interest.

<u>Sample No. 8</u> is composed of quartz, orthoclase feldspar, plagioclase feldspar, sericite, pyrite (iron sulfide), and limonite.

- X Sample No. 9 is composed of sericite, clay minerals, limonite, quartz, and a spectroscopic analysis revealed some chromium was present.
- <u>Sample No. 10</u> is composed of <u>hematite</u>, limonite, quartz, feldspars, sericite, malachite (basic copper carbonate), and calcite.

<u>Sample No. 11</u> is composed of <u>hematite</u>, limonite, quartz, feldspars, sericite, manganese oxide.

Sample No. 12 is composed of clay minerals, feldspars, quartz, hematite, limonite, and manganese oxide.

<u>Sample No. 13</u> is predominantly quartz, stained with <u>hematite</u> and limonite, some feldspar and manganese oxide is also present.

<u>Sample No. 14</u> is composed of <u>bematite</u>, limonite, quartz, sericite, malachite, and calcite.

Sample No. 15 is composed of quartz, feldspars, limonite, sericite, and clay minerals.



**?** 

William Hagerty Page 2 3 November 1972

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Sample No. 16 is sericite, feldspars, quartz, calcite, and a little limonite and manganese oxide.

Sample No. 17 is composed of quartz, feldspars, sericite, chlorite (hydrous magnesium-iron-aluminum silicate), limonite, clay minerals, and a little manganese oxide and hematite.

No sulfide minerals were found, including pyrite and chalcopyrite, nor was I able to confirm their former presence by inspection and tests.

I sincerely hope this information has been helpful to you.

Yours very truly,

Robert T. O'Haire Associate Mineralogist

RTO:rj

September 24, 1973

Mr. William Hagerty 757 East Adams Phoenix, Arizona 85034

Dear Mr. Hagerty:

I finally got around at examining the rocks that you sent us a few weeks ago. The first box contained four rocks which were not marked. I will call these samples 1, 2, 3, and 4. The following is their description:

- 1. Limonite stained weathered rhyolite. Limonite is derived from magnetite in the fresh rock. Thin quartz veinlets have pyrite remnants.
- 2. Limonite stained clay with quartz fragments.
- 3. Fragment of quartz breccia. Abundant pyrite boxworks.
- 4. A fragment of fresh andesite and two pieces of cemented alluvium.

The second box contained only one sample of altered serpentinized andesite. Quartz invaded through fractures and deposited copper sulfides which are now oxidized to chrysocolla. This sample was the only one assayed. The results are: 0.08 oz silver, trace of gold, 0.57% copper and 0.27% lead.

Sincerely yours,

June von Beech.

Rene von Boeck

RvB/am

Mariposa Spectrographic Laboratory

Mariposa, California 95338

4.40

Telephone 966-2591

December 22nd, 1973 PM

William Hagerty 757 East Adams Phoenix, Arizona 85034

Dear Mr. Hagerty:

Enclosed, find spectrographic analysis report #21884, covering the analysis of your submitted sample, unmarked.

The sample is principally composed of Magnetite Iron, along with some Ilmenite(Iron-Titanium-Oxide), a mineral that appears to be a Pyroxene(perhaps Augite), and other elements as shown.

Platinum was not detected in the sample down to 20 parts per million, nor were any of the other Platinum group elements detected at their respective spectrochemical detection limits. Gold is present, however, and in good amount, Mr. Hagerty.

After we scanned the filmed spectra of your sample and noted the Gold present, we concentrated the unused portion that we had not pulverized and examined the concentrate under the microscope. We noted that your Gold is quite rough and does not appear to have traveled far from it's original source. Perhaps some prospecting of the nearby rock formations should be considered.

Our sincere thanks to you Mr. Hagerty and our good wishes in your

Sincerely,

1cc

mining.

LABORATORY REPORT

Mariposa Spectrographic Laboratory

CHARGES: \$5.00 LAB NO. 21884 SUBMITTED BY: Star Route, Mariposa, California 95338 Telephone 966-2591

Date 12/22/73 PM

### **Qualitative Spectrographic Analysis**

'illiam Hagerty '57 East Adams 'hoenix, Arizona 85034 ELEMENTS FOUND AND ESTIMATED PERCENTAGE RANGE OF CONCENTRATION

SAMPLE MARK

No mark

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum	0.5	1.5	Lithium			Thallium		
Antimony			Magnesium	0.30	0.70	Thorium		
Arsenic			Manganese	0.03	0,10	Tin	.002	.007
Barium	.0008	.004	Mercury			Titanium 🗸	2.0	4.0
Beryllium			Molybdenumy	.0008	.004	Tungsten		
Bismuth			Nickel	.005	0.01	Uranium		
Boron			Osmium Not dete	cted in	sample	Vanadium	.003	.009
Calcium 🗸	0.5	1.5	PalladiumNot det	ected i	n sample	Zinc	0.03	0.10
Cadmium			Phosphorus			Zirconium	0.01	0.05
Cesium			PlatinumNot dete	cted in	sample	RARE EARTHS:		
Chromium	0.08	0.20	Potassium 🗙		-	Cerium		
Cobalt V	.005	0.01	Rhenium			Dysprosium		
Columbium			Rhodium Not det	ected i	n sample	Erbium		
Copperi	.005	0.01	Rubidium			Europium		
Gallium		Trace	Ruthenium Not de	tected	in sampl	e Gadolinium		
Germanium			Scandium			Holmium		
Gold	.0015	.0035	Silicon (as Si02)	2.0	4.0	Lanthanum		
Hafnium			Silver	.0001	.0004	Neodymium		
ndium			Sodium	0.01	0.05	Praseodymium		
ridium Not detec	ted in s	ample	Strontium	.0006	.002	Samarium		
Iron	40.0	60.0	Tantalum			Ytterbium		
Lead	0.01	0.04	Tellurium			<sup>•</sup> Yttrium		

marks: See letter.

percent to ton (2,000 lbs.) .0% = 20.0 Lbs. AVOIR. .10% = 2.0 Lbs. AVOIR. .01% = 3.2 oz. AVOIR .001% = 0.32 oz. AVOIR. .0001% = 0.032 oz. AVOIR.

Respectfully Submittee

(Spectrographer)

MARIPOSA SPECTROGRAPHIC LABORATORY

ARIZONA BUSINESS EXCHANGE, Inc.

8100 EAST INDIAN SCHOOL ROAD / SUITE 3 WEST / SCOTTSDALE, ARIZONA 85251 / (602) 949-0343

February 24, 1978

To: Mr. John Hughes Mr. Art Cousins

pig Inuin

From: Mr. Frederic Brown

Re: Castle Mining lode claims

The following list of companies have expressed interest in obtaining as much information as possible on Castle Mining lode claims in Yavapai County, Ariz. As of this date, all have received from me various reports, list of claims, and the location of the lode claims. This memo is strictly a Status Report.

- 1. Placer Amex Inc. Tucson, Arizona Mr. Christopher Gillette
- 2. Freeport Exploration Company Tucson, Arizona Mr. Joseph Kantor
- 3. C.R. Ward Corporation Phoenix, Arizona Mr. Ray Ward
- (4.) Duval Corporation Tucson, Arizona Mr. R.A. Metz or Mr. Clancey Windt

- 5.) Newmont Exploration Limited Tucson, Arizona Mr. Byron S. Hardie
- Amax Exploration, Inc. Tucson, Arizona Mr. M.R. Stauffer
- (7.) Day Mines, Inc. Wallace, Idaho Mr. James L. Browne
- 8. Keradamex, Inc. Albuquerque, New Mexico Mr. Jim Smid

It should be noted that companies Number 5, 6, and 7 have requested that John Hughes telephone them direct to discuss technical questions.

There are a few other companies that have expressed <u>no interest</u> in the lode claims after receiving information that I mailed to them, however, I shall not include them on this Status Report.

Yours truly, Frederic Grows

Frederic Brown

ADMR Engineers Note: 1/10/1983

Mr. Haggerty reported this list was received by him during his court proceedings with Mr. Hughes and Cousins over title to his Big Ruth Claims, which he explained had been overstaked by Hughes and Cousins Castle Claims.

Mariposa Spectrographic Laboratory

Mariposa, California 95338

· Sue activity

Telephone 966-2591

January 4<sup>th</sup>, 1974 PM

William Hagerty 757 E. Adams Phoenix, Arizona 85034

Dear Mr. Hagerty:

Enclosed, find spectrographic analysis report #21884, covering the analysis of your submitted sample as marked.

Spectrographically, we did not detect Gold in your sample Mr. Hagerty. However, upon completion of the analysis, we concentrated the unused portion of your material down to about 150 mg and examined the concentrate under the microscope. Here, we did detect several small "colors" of Gold. We also noted that they were quite rough and were not abrasively worm. Perhaps your Gold is closer than you estimate it to be. It still looks good to us.

Again, our sincere thanks to you Mr. Haggerty.

Sincerely. Stauet

1cc

LABORATORY REPORT

Mariposa Spectrographic Laboratory

Star Route, Mariposa, California 95338 Telephone 966-2591

Date 1/4/74 PM

CHARGES: \$5.00 LAB NO. 21884 SUBMITTED BY:

**Qualitative Spectrographic Analysis** 

illiam Hagerty 57 E Adams hoenix, Arizona 85034 ELEMENTS FOUND AND ESTIMATED PERCENTAGE RANGE OF CONCENTRATION SAMPLE MARK

No. 9

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum Al <sub>2</sub> 0 <sub>3</sub> Antimony	3.0	6.0	Lithium Magnesium MgO	•008 1•0	0 <b>.01</b> 2 <b>.</b> 0	Thallium Thorium		
Arsenic Barium	0.01	0.06	Manganese Mercury	0.10	0.30	Tin Titanium/	•002 0•5	•007 1•5
Beryllium Bismuth			Molybdenum√ Nickel≁	•0005 •002	.001 .008	Tungsten Uranium		000
Boron Calcium Ca0 🗸 Cadmium	3.0	6 <b>.</b> 0	Osmium Palladium Phosphorus			Vanadium Zinc <i>u</i> Zirconium	.002 0.03	•008 0•10
Cesium Chromium	0.02	0.08	Platinum Not det Potassium	ected ir 0.30	sample 0.60	RARE EARTHS: Cerium		
Cobalt Columbium	.001	•006	Rhenium Rhodium			Dysprosium Erbium		
Copper / Gallium	•005 •002	0.01 .008	Rubidium Ruthenium			Europium Gadolinium		
Germanium Gold√		.0015	Scandīum Silicon (as SiO2)	30.0	50.0	Holmium Lanthanum Neodymium		
Hafnium Indium Iridium			Silver Sodium Strontium	•0001 0•5 •0007	•0004 1•5 •003	Praseodymium Samarium		
Iron / Lead /	20.0 0.02	40.0 0.07	Tantalum Tellurium			Ytterbium Yttrium		

marks: See letter.

percent to ton (2,000 lbs.) 1.0% = 20.0 Lbs. AVOIR. 0.10% = 2.0 Lbs. AVOIR. 0.01% = 3.2 oz. AVOIR 0.001% = 0.32 oz. AVOIR. 0.0001% = 0.032 oz. AVOIR.

al 🗰 or Later

Respectfully Submitted

(Spectrographer

MARIPÓSA SPECTROGRAPHIC LABORATORY

Mariposa Spectrographic Laboratory

Mariposa, California 95338

Telephone 966-2591

February 22nd, 1974 PM

William Hagerty 757 E. Adams St. Phoenix, Arisona 85034

Dear Mr. Hagerty:

Enclosed, find spectrographic analyses reports 22116 and 22117, covering the analyses of your submitted samples as marled.

The "200" sample is principally composed of an altered Quartz vein, with mimor Pyrite and mimor Copper that appears to be present in the form of Chalcopyrite. Silver is quite low in the sample and Gold was not detected at it's detection limit of 15 parts per million.

Your 2017 sample is similar to the 2007 sample, but contains more Orthoclase feldspar, Iron, less Copper, slightly more Silver and a small quantity of Mercury. Gold was not detected in the sample analysed.

We also concentrated both samples down to about 50 milligrams and examined the concentrate under the microscope. Here again, we were not able to detect Gold, we are sorry to report.

We must apologize to you about the conversation in which we stated that your sample did not arrive until the 20<sup>th</sup>, Mrs. Hagerty. The sample arrived on February 11<sup>th</sup>, however, the letter did not arrive until the 20<sup>th</sup>. Since we noted that you did not mail the letter until the 16<sup>th</sup>, we would suggest sending smaller ore samples, sending them by first-class mail and include your check with the samples.

A sample of about 1.5 ounces is adequate for a complete analysis, which can be sent in a heavy manila envelope or small package. The cost may be less than a larger sample sent by parcel post and will most certainly arrive sooner.

Again, our sincere thanks to you Mr. Hagerty, again, our apologies to Mrs. Hagerty.

Sincerely,

Hand

George R. Graves

100

Mariposa Spectrographic Laboratory

Star Route, Mariposa, California 95338 Telephone 966-2591

Date 2/22/74 PM

**XHARGES:** \$5.00 **.AB NO.** 22116 **JUBMITTED BY:** 

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## **Qualitative Spectrographic Analysis**

lliam Hagerty 7 E. Adams St. Denix, Arizona 85034 ELEMENTS FOUND AND ESTIMATED PERCENTAGE RANGE OF CONCENTRATION

SAMPLE MARK

1200

		Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
luminum Intimony	A1203	0.5	1.5	Lithium Magnesium	0.01	0.06	Thallium Thorium		
vrsenic				Manganese	.0008	.004	Tin		
arium		.0004	.0009	Mercury			Titanium	.0006	.002
eryllium				Molybdenum	9		Tungsten		
Ismuth				Nickel		.0004	Uranium		
oron				Osmium			Vanadium	.0004	.0009
alcium		.001	.006	Palladium			Zinc		
admium				Phosphorus		-	Zirconium		
esium				Platinum Not det	ected in	sample	RARE EARTHS:		
hromium		•0005	•001	Potassium	0.10	0.30	Cerium		a 14
obalt				Rhenium			Dysprosium		
olumbium				Rhodium			Erbium		
opper		0.04	0.12	Rubidium		-	Europium		
allium			.002	Ruthenium			Gadolinium		
ermanium				Scandium			Holmium		
	t detect	ed in s	ample	Silicon (as SiO2)	85.0	95.0	Lanthanum		
afnium	•			Silver		.0002	Neodymium		
dium				Sodium	0.10	0.30	Praseodymium		
dium				Strontium			Samarium		
<b>SU</b>		1.0	3.0	Tantalum			Ytterbium		
ad			.008	Tellurium			Yttrium		

arks: See letter.

rcent to ton (2,000 lbs.) % = 20.0 Lbs. AVOIR. 1% = 2.0 Lbs. AVOIR. 1% = 2.2 oz. AVOIR 11% = 0.32 oz. AVOIR. 001% = 0.032 oz. AVOIR.

Respectfully Submitted aus

(Spectrographer)

MARIPOSA SPECTROGRAPHIC LABORATORY

LABORATORY REPOR

Mariposa <

osa Spectrographic Laboratory

Star Route, Mariposa, California 95338 Telephone 966-2591

Date 2/22/74 PM

CHARGES: \$5.00 LAB NO. 2211 JUBNITTED BY:

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**Qualitative Spectrographic Analysis** 

illiam Hagerty 57 E. Adams St. hoenix, Arizona 85034 ELEMENTS FOUND AND ESTIMATED PERCENTAGE RANGE OF CONCENTRATION

SAMPLE MARK

× rost ×

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum A1203 Antimony	3.0	6.0	Lithium <sup>.</sup> Magnesium	0.30	0.60	Thallium Thorium		
Arsenic Jarium Jeryllium	.0008	•004	Manganese Mercury Molybdenum	.007	0.03 .008	Tin Titanium Tungsten	.008 🗸	0.04
ismuth oron Calcium Cadmium Casium	0.30	0.60	Nickel Osmium Palladium Phosphorus Platinum Not det	•0005	•001	Uranium Vanadium Zinc Zirconium RARE EARTHS:	.0004	.0009
hromium obalt olumbium	.0006	.002 .0004	Potassium Rhenium Rhodium	0.5	1.5	Cerium Dysprosium Erbium		
iop <b>per</b> jallium jermanium jold Not detecte	.005 .002 d in sa	0.01 .005 mple	Rubidium Ruthenium Scandīum Silicon (as SiO2)	65.0	85.0	Europium Gadolinium Holmium Lanthanum		
afnium Idium Idium Ion	2.0	4.0	Silver Sodium; Strontium Tantalum	•0001 0•20	•0004 0 <sub>•</sub> 40	Neodymium Praseodymium Samarium Ytterbium		
ad	.008	4.0 0.02 /	Tellurium			Yttrium		

arks: See letter.

srcent to ton (2,000 lbs.) 9% = 20.0 Lbs. AVOIR. 10% = 2.0 Lbs. AVOIR. 11% = 3.2 oz. AVOIR 101% = 0.32 oz. AVOIR. 0001% = 0.032 oz. AVOIR.

Respectfully Submitted raues

MARIPOSA SPECTROGRAPHIC LABORATORY

(Spectrographer)



## THE UNIVERSITY OF ARIZONA

TUCSON, ARIZONA 85721

ARIZONA BUREAU OF MINES

TEL. (602) 884-2733

February 27, 1974

William Hagarty

757 E. Adams

Phoenix, AZ 85034

Sample No. 54682

Dear Mr. Hagarty:

Sample No. 1 submitted to the Arizona Bureau of Mines for examination is composed of azurite (hydrous copper carbonate), malachite (basic copper carbonate) and limonite (hydrous iron oxide.)

**22**/1/6 Sample No. 200 is composed of quartz, feldspar, clay minerals, limonite, pyrite and gypsum.

menice and gypsum. This composed of clay minerals quartz, feldspar,

Sample 9D is a volcanic rock called andesite composed of plagioclase feldspar, hematite and hornblende (calcium-magnesium-ironaluminum silicate).

Sample No. 1 has copper in it, but nothing of direct economic interest was detected in the other samples.

I sincerely hope this information has been helpful to you.

Yours very truly,

OHaire

Robert T. O'Haire Associate Mineralogist

RTO:nb

Mariposa Spectrographic Laboratory

Mariposa, California 95338

Telephone 966-2591

March 9", 1974

Wm. Hagerty 757 E. Adams St. Phoenix, Arizona 85034

Dear Mr. Hagerty:

Enclosed, find spectrographic analyses reports #22200 and 22201, covering the analyses of your submitted samples as marked.

The #4 is a dandy mineralization in secondary Copper, Mr. Hagerty. Copper is present in the forms of Malachite and an oxide mineral that appears to be Cuprite. Silver and Gold are quite low.

In quantity, the #4 sample would no doubt be "bonanza" ore, Mr. Hagerty. Perhaps some rpospecting of this area is in order.

Again, our sincere thanks.

Sincerely,

Graves George

100

LABORATORY

Mariposa Spectrographic Laboratory

CHARGES: \$5,00 LAB NO. 22200 SUBMITTED BY:

1

Star Route, Mariposa, California 95338 Telephone 966-2591

Date 3/9/74

## **Qualitative Spectrographic Analysis**

a. Hagerty 57 E. Adams St. 10enix, Ariz. 85034

**ELEMENTS FOUND** AND ESTIMATED PERCENTAGE RANGE OF CONCENTRATION

SAMPLE MARK

B.M.C. B.R. No. 2

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum	0.30	0.60	Lithium			Thallium		
Antimony			Magnesium	0.10	0.30	Thorium		
Arsenic			Manganese	.006	0.02	Tin		
Barium	.005	0.01	Mercury			Titanium	.001	.006
Beryllium			Molybdenum			Tungsten		•
Bismuth			Nickel		.0004	Uranium		
Boron			Osmium			Vanadium	.0007	.003
Calcium	0.08	0,20	Palladium			Zinc		
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum Not det	ected i	n sample	RARE EARTHS:		
Chromium	.0007	.003	Potassium	0.10	0.30	Cerium		
Cobalt			Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	0.03	0,10	Rubidium			Europium		
Sallium		.002	Ruthenium			Gadolinium		
<b>Jermanium</b>			Scandium	8		Holmium		
id Not detect	ed in sa	mple	Silicon (as SiO2)	75.0	90.0	Lanthanum		
lafnium			Silver	.0001	.0005	Neodymium		
ndium			Sodium	0.03	0.10	Praseodymium		
ridium			Strontium	.0008	.004	Samarium		
ron	4.0	8.0	Tantalum			Ytterbium		
bse		.008	Tellurium			Yttrium		

narks: This sample is essentially composed of ocherous Hematite and Quartz, along with minor soda-orthoclase feldspar.

**Respectfully Submitted** 

percent to ton (2,000 lbs.) = 20.0 Lbs. AVOIR. .0% = 2.0 Lbs. AVOIR. .10% 01% = 3.3 or. AVOIR 001% = 0.32 or. AVOIR. 0001% = 0.022 or. AVOIR.

(Spectrographer) MARIPOSA

SPECTROGRAPHIC LABORATORY

LABORATORY REPOR

Mariposa Spectrographic Laboratory

 CHARGES:
 \$5.00

 LAB NO.
 22201

 SUBMITTED
 BY:

Star Route, Mariposa, California 95338 Telephone 966-2591

Date 3/9/74

# **Qualitative Spectrographic Analysis**

.Hagerty 7 E. Adams St. oenix, Ariz. 85034

ELEMENTS FOUND AND ESTIMATED PERCENTAGE RANGE OF CONCENTRATION

SAMPLE MARK

B.M.C. No 4

ELEMENT	Not Less Than %	Not More Than %	RLEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Then %
Aluminum Al203 Antimony Arsenic Barium Beryllium Bismuth Koron Calcium Ca0 Cadmium Calcium Ca0 Cadmium Calcium Calcium Ca0 Cadmium Calcium Ca0 Cadmium Cadmium	Less Than % 3.0 .001 .0007 1.0 .0006 .005 8.0 .002 ction 1:	More Than % 7.0 .006 .003 3.0 .002 0.01 20.0 .005 .mit	Lithium Magnesium Manganese Mercury Molybdenum Nickel / Osmium Palladium Phosphorus PlatinumNot dete Potassium Rhenium Rubidium Rubidium Rubidium Scandīum Silicon (as SiO2) Silver Sodium Strontium	Less Than % 0.20 0.08 .0005 .005	More Than % 0.40 0.20 .001 0.01	Thallium Thorium Tin Titanium Tungsten Uranium Vanadium Zincı⁄ Zirconium RARE EARTHS: Cerium Dysprosium Erbium Europium Gadolinium Holmium Lanthanum Neodymium Praseodymium Samarium	Less	
on V ad V	··15.0	30.0 .008	Tantalum Tellurium			Ytterbium Yttrium		

harks: See letter.

srcent to ton (2,000 lbs.) 5% = 20.0 Lbs. AVOIR. 10% = 2.0 Lbs. AVOIR. 11% = 2.3 oz. AVOIR 101% = 0.32 oz. AVOIR. 1001% = 0.033 oz. AVOIR.

Respectfully Submitted MARIPOSA SPECTROGRAPHIC LABORATORY

(Spectrographer)

Mariposa Spectrographic Laboratory

Mariposa, California 95338

Telephone 966-2591

May 1st, 1974 PM

William Hagerty 757 E. Adams Phoenix, Arizona 85034

Dear Mr. Hagerty:

Enclosed, find spectrographic analysis report #22549, covering the analysis of your submitted sample as marked.

The sample is principally composed of Quartz, along with some Orthoclase feldspar and Iron largely in the mineral form of Hematite, with very little Magnetite and Pyrite.

We concentrated your material down to about 50mgs and examined the concentrate under the microscope. Here, we noted much of the Copper is present in the form of Malachite. We also noted a beautiful red mineral that we were not able to identify. It does not appear to be Mercury, since we ran some of the concentrate in our direct reading instrument with no Mercury found.

Gold was not detected in the sample, also, we were surprised that Silver was below eight/tenths of one part per million, or less than 0.03 cents per ton.

It is not necessary to send such large samples, Mr. Hagerty, We only employ about 150mgs in the sample and we only need about two or so ounces of your sample to run in our bench pulverizer.

Again, our thanks to you, Mr. Hagerty.

Sincerely.

Fines re R. Graves

1cc

LABORATORY REPOI

Mariposa Spectrographic Laboratory

CHARGES: \$5.00 LAB NO. 22549 SUBMITTED BY: Star Route, Mariposa, California 95338 Telephone 966-2591

Date 5/1/74 PM

# **Qualitative Spectrographic Analysis**

lliam Magerty 7 E. Adams oenix, Ariz. 85034

ELEMENTS FOUND AND ESTIMATED PERCENTAGE RANGE OF CONCENTRATION

SAMPLE MARK

O.P. Conc.

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not Mere Than %
Aluminum AL	03 2.0	4.0	Lithium		Trace	Thallium		Inan %
Antimony			Magnesium	.007	0.03	Thorium		
Arsenic			Manganese	.001	.005	Tin		
Barium	.000	6 .002	Mercury			Titanium	.0007	<b>.0</b> 03
Beryllium			Molybdenum			Tungsten	.0007	.005
Bismuth			Nickel	.0005	.001	Uranium		
Boron			Osmium			Vanadium	.0004	.0008
Calcium	0.0	0.15	Palladium			Zinc	.0004	.0008
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum Not det	ected in	n <b>sam</b> ple			
Chromium		.0004	Potassium	0.30	0.60%			
Cobalt		*	Rhenium		-	Dysprosium		
Columbium			Rhodium		-	Erbium		
Copper	0.15	0.40%				Europium		
Sallium	.002	.004	Ruthenium			Gadolinium		
Sermanium			Scandium			Holmium		
old Not detected in sample			Silicon (as SiO2)	80.0	00.0	Lanthanum		
lafnium			Silver	00.0	90.0			
ndium			Sodium	0.07	.00008	Neodymium		
idium			Strontium	0.03	0.10	Praseodymium		
						Samarium		
ron	2.0	4.0	Tantalum	ť		Ytterbium		
bse	.008	0.02	Tellurium			Yttrium		

narks: See letter.

ercent to ton (2,000 lbs.) 0% = 20.0 Lbs. AVOIR. 10% = 2.0 Lbs. AVOIR. 01% = 3.2 oz. AVOIR 01% = 0.32 oz. AVOIR. 0001% = 0.032 oz. AVOIR.

Respectfully Submitted

MARIPOSA SPECTROGRAPHIC LABORATORY

(Spectrographer)



## THE UNIVERSITY OF ARIZONA

TUCSON, ARIZONA 85721

ARIZONA BUREAU OF MINES

TEL. (602) 884-2733

May 10, 1974

William Hagerty 757 E. Adams Phoenix, AZ 85034

Dear Mr. Hagerty:

Sample No. 54844

The sample submitted to the Arizona Bureau of Mines for examination is composed of quartz, feldspar (common rock forming mineral), magnetite (iron oxide), ilmenite (iron-titanium oxide), hematite (iron oxide), biotite mica, malachies (basic copper carbonate), chrysecolie (hydrous copper silicate), and a few grains of galena (lead sulfide) were detected.

The red materials in sample are iron stained quartz, iron stained feldspar, and specular hematite. No gem material was detected in the sample.

I sincerely hope this information has been helpful to you.

Yours very truly,

Robert T. O'Haire Associate Mineralogist

RTO:nb



### THE UNIVERSITY OF ARIZONA

TUCSON, ARIZONA 85721

ARIZONA BUREAU OF MINES

TEL. (602) 884-2733

June 10, 1974

William Hagarty 757 E. Adams Phoenix, AZ 85034

Dear Mr. Hagarty:

Sample No. 1 submitted to the Arizona Bureau of Mines for examination is an igneous rock called quartz monzonite which is composed of quartz, orthoclase and plagioclase feldspar, biotite mica and a little limonite (hydrous iron oxide).

Sample No. 2 is a pegmatite composed of quartz, orthoclase and plagioclase feldspar (common rock forming minerals), muscovite mica, biotite mica and garnet (complex silicate of calcium, magnesium, aluminum, and iron).

Sample No. 3 is a granite composed of quartz, orthoclase and plagioclase feldspar, biotite mica and limonite (hydrous iron oxide).

Sample No. 4 is a quartz mozonite composed of quartz, orthoclase and plagioclase feldspar, garent, biotite mica and a little limonite.

Sample No. 5 is composed of fine grained hornblends (calcium-magnesiumiron-aluminum silicate), quartz, feldspar, chlorite, (hydrous magnesiumiron aluminum silicate with a little chromium) and a little limonite. Chromium bearing chlorite is not of commercial interest at the present time.

The difference between sample 2 and sample 3 is predominantly grain size as sample 2 is much coarser grained than sample 3. Sample 2 has much more muscovite than 3 and 2 has a little garnet. Sample 3 has much more iron staining.

Nothing of direct economic interest was detected in the sample by microscopic and visual spectroscopic analyses. It may interest you if you plan to send samples that I will be on vacation for about a month starting June 10. I sincerely nope this information has been of help to you.

Very truly yours, faire

Robert T. O'Haire Associate Mineralogist

RTO:nb

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· ....



Date:



2050 E. 14TH STREET . TUCSON, ARIZONA 85719 . PHONE: (602) 622-5702

# Certificate of Analysis

Page 1 of
RMGC Numbers:
Local Job No.:7.3-5-3T
Foreign Job No.:
Invoice No.: T-4302

May 3, 1973

Client:	William Hagerty . 757 E. Adams St
	Phoenix, Arizona
	85034

Client Order No.:	870
Report On:	35 Samples
Submitted by:	Mr. W.J.Hagerty
Date Received:	April 20, 1973
Analysis:	Copper, lead, zinc, gold and silver
	All analyses determined by atomic absorption.
Analytical Metho	ds:
Remarks:	

CC:

Enc. RMGC: SLC

file

#### MHH:rg

All values are reported in parts per million unless specified otherwise. A minus sign (--) is to be read "less than" and a plus sign (+) "greater than." Values in parenthesis are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission. ND = None Detected 1 ppm = 0.0001% 1 Troy oz./ton = 34.286 ppm 1 ppm = 0.0292 Troy oz./ton

lient - Hager	tyr Waster, State	L <u></u>	DateMay	3, 1973	RMGC	Job No. 73-5-	3T
		$\bigcirc$				Page 2	of <u>3</u>
•	Sample No.	ppm Copper	ppm Lead	ppm Zinc	ppm Gold	ppm Silver	
	6760 0+00	60	20	20	0.2	-1	
	6761	55	20	10	-0.1	-1	
	6762 LINE 3	50	30	15	-0.1	-1	
	6763	15	30	20	0.2	-1	
	6764	30	40	20	-0.1	-1	
	6765	105	10	-5	0.1	-1	
	676 <b>6</b>	70	20	-5	-0.1	-1	
та на арали <b>т</b>	6767 2+00	75	10	-5	-0.1	- 1	1
	6768 0+25	20	-10	-5	-0.1	-1	
	6769	35	10	-5	-0.1	-1	
	6770 · NE <sup>3</sup>	15	-10	-5	-0.1	-1	
	0//1	20	10	-5	-0.1	-1	
	6772 W	10	-10	-5	-0.1	-1	
	6773	15	10	-5	-0.1	-1	
	6774	10	10	-5	-0.1	-1	
	6775 2+00	10	-10	-5	-0.1	-1	
	6776 0+00 E +	5	10	-5	0.2	-1	
	6777 LI	110	10	110	-0.1	-1	
	6778 E	90	-10	30	-0.1	-1	
	6779 3+00	85	10	-5	0.3	1./	**
	6780 1+00	25	-10	-5	-0.1	-1	
	6781 LINE	55	-10	-5	-0.1	-1	
	6782 W	30	-10	-5	-0.1	-1	
	6783	10	-10	-5	-0.1	. –1	
	678 <b>4</b>	10	-10	-5	-0.1	-1	



SALT LARE CITY, UTAM . RENO, NEVADA . SPOKANE, WASHINGTON . TUCSON, ARIZONA

Page 3\_\_\_\_ of 3\_\_\_\_

	Sample No.	ppm Copper	ppm Lead	ppm Zinc	ppm Gold	ppm Silver	
,	6785 6+00W	-5	-10	10	-0.1	-1	_/
	6786	435	-10	-5	-0.1	-1	
	678 <b>7</b>	0.42%	-10	10	0.9	-1	
	6788	0.15%	-10	-5	0.4	-1	
	6789	45	-10	-5	-0.1	-1	
Γ	6790	35	20	10	0.2	-1	
	6791	10	10	-5	-0.1	-1	
	6792	5	-10	20	-0.1	-1	
	6793	15	-10	10	-0.1	-1	
2	6794	5	-10	-5	-0.1	-1	

## ROCKY MOUNTAIN GEOCHEMICAL CORPORATION

Tucson, Arizona May 3, 1973 By

Martin H. Hibbetts



ALT LAKE CITY

Rocky Mountain Geochemical Corp.

757 E. Adams St Thoenix, Arizona 85034

a.

NOTICE OF SAMPLE SHIPMENT

Shipped To:	ROCKY MOUN	TAIN GEOCHEMIC	CAL C	ORPORATI	ON Date: Apr	il 20. 1973
Via:	Hand Carry	F	rom: <u>T</u>	ucson	By: <u>\</u>	J Haganty
Series:	Hagerty, Big. B	uth Grow			Assay	Geochem.
Remarks:						
Attn: Analy	identi: above	copy the series man fication and billing address - Attn: Exp arbons to:	g purpo ploratio	ses. Send	analysis cert original cert	ificate for ificate to
Sample No.	Analyse For			Descriptio		
B-6760	Au, Ag, Cu, Zn,	Pb Rock Chip	Line	3 0+00 1	Fract. & Fe	Ox stnd rhyo.
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				<u>1+00 E</u>		
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67	11	11	11	2+00 E		
68	11	11	н	0+25 W		
69	11	11	н	0+50 W		
<b>7</b> 0	11	11	11	0+75 W	11	
71	11		11	1+00 W		
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73	11	11		1+50 W		
74	11	11	11	1+75 W		
75			Line 3	the second s	V	· · · · · · · · · · · · · · · · · · ·
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78	11			2+00 E		
79	11	Rock Chip		3+00 E		
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81	11	11	11	2+00 W		
82	11	11	11	3+00 W		
83	11	11	11	4+00 W		
84	11	11	. 11	5+00 W		
85	11	11	Line 4			
86	11		No. 1	Vn Pit	H.W. Fac	8
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	to to					

RONALD D. KARVINEN CONSULTING GEOLOGIST

4625 E. BROADWAY - BUITE 119-C TUCSON, ARIZONA 85711

January 6, 1975

BUS. (602) 327-7729 RES. (602) 297-1675

4 112

TO:

FROM: Ronald D. Karvinen

SUBJECT:

Garfias Wash Property

U.S.G.S. Garfias Mountain Quad (7-1/2')

LOCATION: White Picacho Mining District Yavapai County, Arizona. Sections 9, 10, 11, 14, 15, and 16, T. 7 N., R. 2 W.

The property consists of a sulfide system trending east-west with dimensions of 3 by 1-1/2 miles. Host rocks are Cretaceous volcanics (mostly rhyolites and andesites) overlying a Precambrian schist. A few basic post-mineral dikes are also present:

Most striking is the pervasive nature of the hydrothermal alterationmineralization within the system. The alteration is predominantly phyllic or quart-zericite. Sulfide content, mostly pyrite, ranges up to as much as 10% of the rock, mostly as disseminations. Sulfides are evident in all of the more deeply incised drainages.

Iron oxides or limonites after copper sulfides are scarce, but these features could be masked by the high ratio of pyrite to any other sulfides that might have been present. The foregoing is not to say this is a porphyry copper prospect as such, though one should think of vertical zonation as he examines the property.

The size of the system is impressive as is the character of the pyrite wherever observed, i.e., the disseminated crystals of pyrite do not have the bright, brassy appearance as exhibited when they are barren. In other words, the pyrites could be auriferous, cupriferous or otherwise enriched.

To best grasp the feel for rock types and mineralization intensities, one should traverse both the Bitter Creek and Garfias Wash drainages.

January 6, 1975

Note that a cube 500 feet on a side contains in excess of 10,000,000 tons. Given the size of this sytem, it becomes evident that more than 400 of these cubes could be placed within the surface traces of the zone. In other words, one could easily overlook an area this size which could contain gold assays of 0.05 oz/ton which at today's prices could become a viable "porphyry gold" deposit.

As described in our personal communications of January 2nd last, the possibility of commercial gold accumulation would seem to be in the soil mantle as found within the sulfide system. These accumulations would be the product of the residual concentration of heavy minerals while normal erosion ensues.

The foregoing conclusion is based on assays of numerous samplings of the bedrock, however, one must remain aware of the 500 foot cube aforementioned.

A conservative estimate allows for 5,000,000 tons of residual soll material and if bulk sampling of the soils in the system can verify grades of .02 Au and 0.15 Ag, further work is warranted.

Attached is a map roughly outlining the area of interest.

Respectfully submitted,

Ronald D. Karvinen

RDK: jp

#### MAGNETOMETER STUDY

## OF THE HOT SPRINGS AREA CLAIM GROUP

#### YAVAPAI COUNTY, ARIZONA

#### INTRODUCTION

The services of Carpenter Development, Inc., consulting geologists/geophysicists, were retained to conduct a magnetometer survey of the Hot Springs area claim group located in Yavapai County, Arizona. All data was gathered along predetermined data lines in the general area.

This claim group is located in Section 10, T 7N, R 2 W of Yavapai County, Arizona. No topographic maps of the area were available, however, detailed aerial photo coverage was furnished as a base for the laying out of survey data gathering points and survey lines. Figure 1 shows the general layout of the claims and the area of study for this report.

#### DATA PROCEDURES

Data was gathered in the field by a continuous recording process in which both magnetic and radiometric instruments operated simultaneously. Data stations were spaced at approximately 1320' intervals. The data gathering technique is a combination of new data reduction techniques with old gathering principals. By combining the two techniques it is possible to locate previously hidden mineralization zones.

Both the magnetic and radiometric systems are instrumented for instant recording of all data and have designed and modified for operation from moving vehicles. , Page Two

## HOT PRINGS AREA CLAIM GROUP

The system utilized for this work are custom built geophysical apparatus based on the primary design functions of the Sharpe Magnetometer and precision radiation simulation equipment. All equipment has been custom re-designed and transistorized for the specific uses to which it has been placed.

The nature of the sensing systems are such that true magnetic north orientation of the equipment is not necessary. The magnetic portion of the system is designed to give the relative magnetic variations of the total vertical magnetic field rather than an absolute value for the vertical field. Since these data are acquired for the purpose of economic evaluation and exploration work, it is not necessary that the absolute value for the vertical intensity be measured, only the relative changes of same, which are significant when determining mineralization zones and potential economics of a mineral deposit.

All data was brought back to the Phoenix Office, and necessary corrections for terrain, diurnal variations, and instrument corrections were applied before data was reduced through computerized technique formulas for plotting.

#### RESULTS OF STUDY

#### Vertical Magnetics

The results of the Magnetic portion of the survey are presented in Figure 2. This is a plot of the residual vertical force magnetics as computed from the field data with all of the regional effects removed.

Examination of Figure 2 indicates that there are two large anomalous areas in the general area of the claim group. The highest residual reading of 800 gammas in the western portion of the claim group is significant and it is felt that the 600 gamma residual anomaly in the eastern section is also of importance. Because of the nature of

#### Page Three

## HOT LAINGS AREA CLAIM GROUP

the distribution of the anomaly, it is felt that this anomaly represents some type of disseminated mineralization, as opposed to veins or dikes in the area.

This disseminated mineralization could be a sulfide body at depth or some other type of metalic ore occurance. It is felt by this writer that the anomaly represents a disseminated mineralized zone at a depth greater than 300'. If the zone were shallower than 300', and highly mineralized it is felt that the residual anomaly in this particular area would have been considerably higher than is evidenced at this point. It is felt that anything below the 200 gamma anomaly line would be insignificant with respect to ore d\_position or mineralization at any depth practical to mining.

#### Radiometric Data

Residual Radiation data as accumulated in the area is plotted in Figure 3. This data was acquired in order to maintain a check on the region to determine if high radiation was found associated with any of the mineralization. It can be seen by a study of this figure that little radiation was evidenced in the region. There is no general pattern which can be attributed to mineralization in the region which has any association with high radiation activity.

#### CONCLUSIONS AND RECOMMENDATIONS

After a study of the data the following conclusions may be derived from this study:

- 1. There is indication of a disseminated mineralized zone underlying the major portions of the claim area.
- 2. The heaviest concentration of this mineralized zone is located in the western half of the claims with an equally good zone located in the eastern half.
- 3. The rock appears to be mineralized at a depth greater than 300'.
- 4. There is no significant radiation activity associated with these zones which would aid in determining depth or extent of the area.

Page Four

HOT

5. No major faults were evidenced in the data gathered, however it is possible that numerous minor faults exist in the region.

IT IS THEREFORE RECOMMENDED, that this property be more fully examined by a core drilling with at least one core hole extending to 500 feet in the vicinity of the 800 gamma residual anomaly in the western portion and the 600 gamma residual anomaly in the eastern portion.

It is possible that low grade disseminated sulfide ores may be wide spread in this area and these two core holes would certainly give an accurate indication of this existance.

If the core holes show reasonable mineralization to be of commercial value, it is then recommended that a detailed core drilling program be laid out in conjunction with a detailed assay program for proving up the extent of mineralization on the property.

Respectfully Submitted,

CARPENTER DEVELOPMENT, INC.

Gene C. Carpenter

Registered Geologist

GENE C. ARPENTER

DATE 5-07.2, 1980

## **ASSAY CERTIFICATE**

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BOX 14 - PHONE 632-7410 HUMBOLDT, ARIZONA 86329

SUBMITTED BY:			OA	2:4,	1972	-	
DESCRIPTION	oz/ton Au	oz/ton Ag		% Fe	% РЬ	% Zn	% Cu
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## ASSAY CERTIFICATE

BOX 14 - PHONE 632-7410 HUMBOLDT, ARIZONA 86329

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## ASSAY CERTIFICATE

BOX 14 — PHONE 632-7410 HUMBOLDT, ARIZONA 86329

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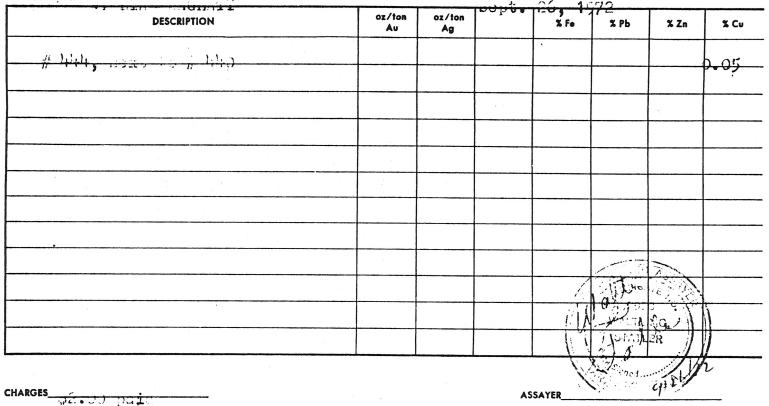
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## **ASSAY CERTIFICATE**

BOX 14 - PHONE 632-7410 HUMBOLDT, ARIZONA 86329



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## **ASSAY CERTIFICATE**

BOX 14 - PHONE 632-7410 HUMBOLDT, ARIZONA 86329

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## **ASSAY CERTIFICATE**

BOX 14 - PHONE 632-7410 HUMBOLDT, ARIZONA 86329

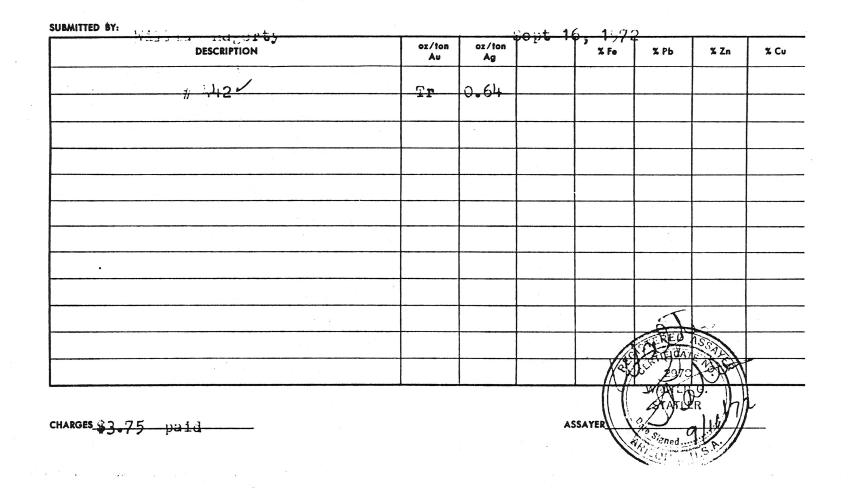
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## **ASSAY CERTIFICATE**

BOX 14 - PHONE 632-7410 HUMBOLDT, ARIZONA 86329



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## **ASSAY CERTIFICATE**

BOX 14 - PHONE 632-7410 HUMBOLDT, ARIZONA 86329

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## **ASSAY CERTIFICATE**

BOX 14 - PHONE 632-7410 HUMBOLDT, ARIZONA 86329

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	MALLIN.		
ASSAY			

MADE 757 E. Adass

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L Phoenix, Ariz. 85304 \_

		December 5, 1:72								
DESCRIPTION	oz/ton Au	oz/ton Ag		% Fe	% Pb	% Zn	% Cu			
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## **ASSAY CERTIFICATE**

BOX 14 - PHONE 632-7410

HUMBOLDT, ARIZONA 86329

	Phoenix, Ariz. 8	35034	
ASSAY MADE FOR	WILLIAM HAGERTY 757 E. Adams		

Car Marine

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		<u>March 7, 1973</u>										
•	DESCRIPTION	oz/ton Au	oz/ton Ag		% Fe	х РЬ	% Zn	% Cu				
Big Ruth	# 460	.026						1.05				
11	# 461	Tr		· ·				1.01				
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MEMORANDUM OF ASSAY

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I do hereby certify the within instrument was filed and recorded at the 10-83 o'clock Book 1027 Official on AUG 2 ; Page Records of Yavapai County, Arizona. WITNESS my hand and official seal the day and year first above written. PATSY C. JENNEY, County Recorder INDEX.FT. MICONIA ., Deputy IN REPLY REFER TO United States Department of the Interio A 8473 Petition for BUREAU OF LAND MANAGEMENT Deferment (943)ARIZONA STATE OFFICE 2400 VALLEY BANK CENTER PHOENIX, ARIZONA 85073 (602) 261-4774

July 27, 1976

#### DECISION

William J. Hagerty, Petitioner

Petition for Deferment A 8473

#### Renewal of Temporary Deferment of Annual Assessment Work Granted

Pursuant to the Act of June 21, 1949 (63 Stat. 214; 30 U.S.C. 28b-c), on July 21, 1976, William J. Hagerty, the owner of unpatented lode and placer mining claims in Yavapai County, Arizona, filed a petition for renewal of temporary deferment of annual assessment work for the year ending September 1, 1976, at 12 noon, for the following listed claims:

#### Lode Claims

<u>Name</u> Big Ruth Lode Claims No. 2 Lode Claim No. 3 Lode Claim No. 4 Lode Claim	Date of Location July 12, 1972 Sept. 5, 1972 Sept. 5, 1972 Sept. 9, 1972	<u>Book</u> 765 776 776 776 776	<u>Page</u> 338 257 259 859
No. 5 Lode Claim	Sept.13, 1972	780	121
Big Ruth Extension Lode	Aug. 15, 1972	771	743
Claims			
No. 1 Lode Claim	Sept. 5, 1972	776	261
No. 2 Lode Claim	Sept. 5, 1972	776	263
Big Ruth Lode Claims			
1-A	Oct. 1, 1972	805	89
2-A	Oct. 1, 1972	805	91
3-A	Oct. 1, 1972	805	93
4-A	Oct. 15, 1972	805	95
5-A	Oct. 15, 1972	805	97
6-A	Oct. 15, 1972	805	99
	<u>cer Claims</u>		
Big Ruth Placer No. 1	Oct. 15, 1973	874	517
Big Ruth Placer No. 2	Oct. 15, 1973	874	519

BOOK 1027 PAGE 447

ARIZ DEPARTMENT OF MINERAL OURCES **Mineral Building, Fairgrounds** Phoenix, Arizona 1. Information from: Examination + interview with owner Address: 2. Mine: Big Ruth \_\_\_\_\_ 3. No. of Claims - Patented\_\_\_\_ Unpatented\_14 4. Location: 15 mi, E. Morristown on Castle Hot Spgs. Rd. 5. Sec 9.10.14.15 Tp\_7 N\_\_\_ Range 2 W 6. Mining District\_\_\_\_\_ 7. Owner: Win Hagerty 7 Address: 1×1 E. Adams, Phx 8 9. Operating Co.:\_\_\_\_\_ 10. Address:\_\_\_ President:\_\_\_\_\_\_12. Gen. Mgr.:\_\_\_\_\_\_ 11. 13. Principal Metals: Co + AU, 14. No. Employed: 15. Mill, Type & Capacity:\_\_\_\_\_ 16. Present Operations: (a) Down 🗌 (b) Assessment work 🔲 (c) Exploration 🗹 \_\_tpd. (d) Production □ (e) Rate\_\_\_\_\_ 17. New Work Planned: Trenching of vein @ 50ff. intervals + Sampling 18. Miscl. Notes: 15-20 wide shear zone in a hematitic + porphysitic andesite contains a vein of highly oxidized Cut Fe minerals. Two samples hom pits = 200ft. apart assay from 1.055 og to 2.65 og Au + up to 10.65% e vein strikes N25- 40 W (parallel to formation outcrop) Haips TO to SW. gwalker Date: 2-2-73 (Signature) (Field Engineer)

## SKYLINE LABS, INC.

SCECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST BOTH PLACE · WHEAT RIDGE, COLORADO 80033 · TEL.: (303) 424-7718 REPORT OF ANALYSIS

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Job No. 45101 January 2, 1973

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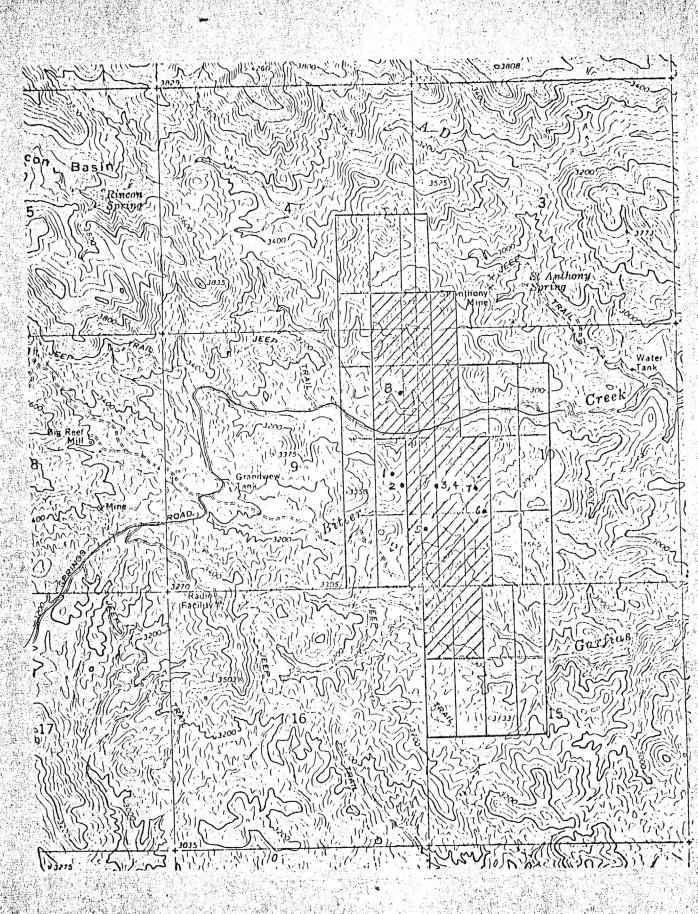
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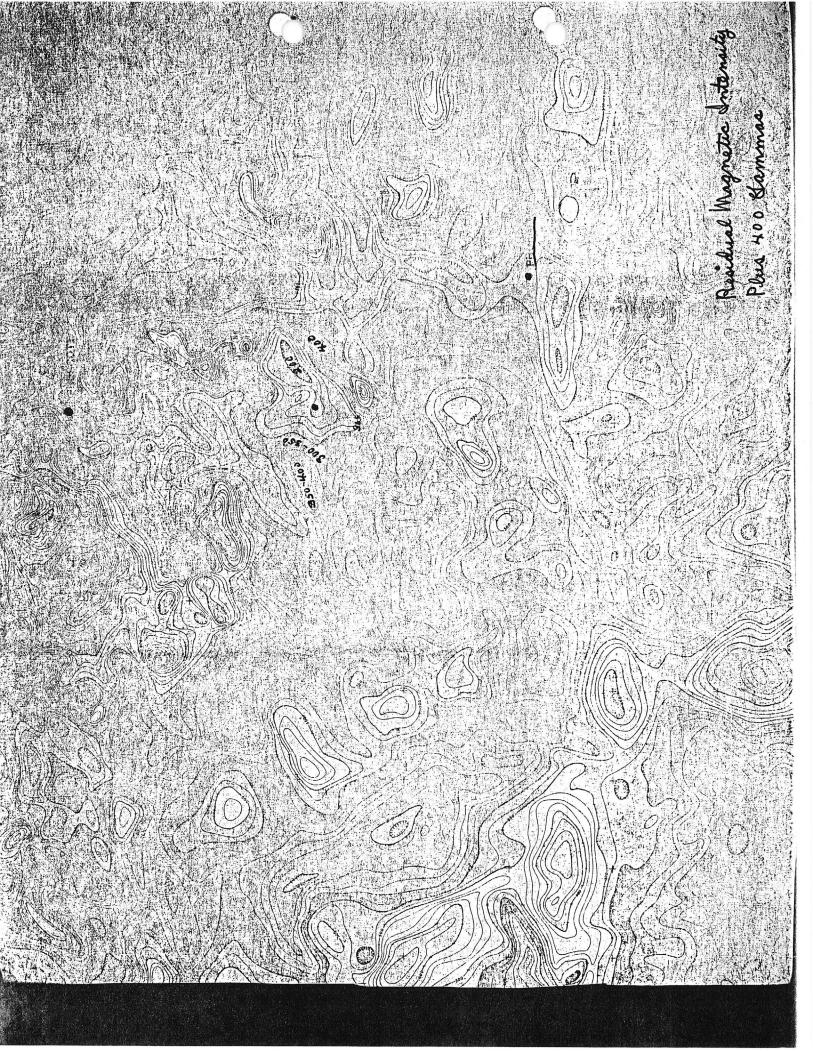
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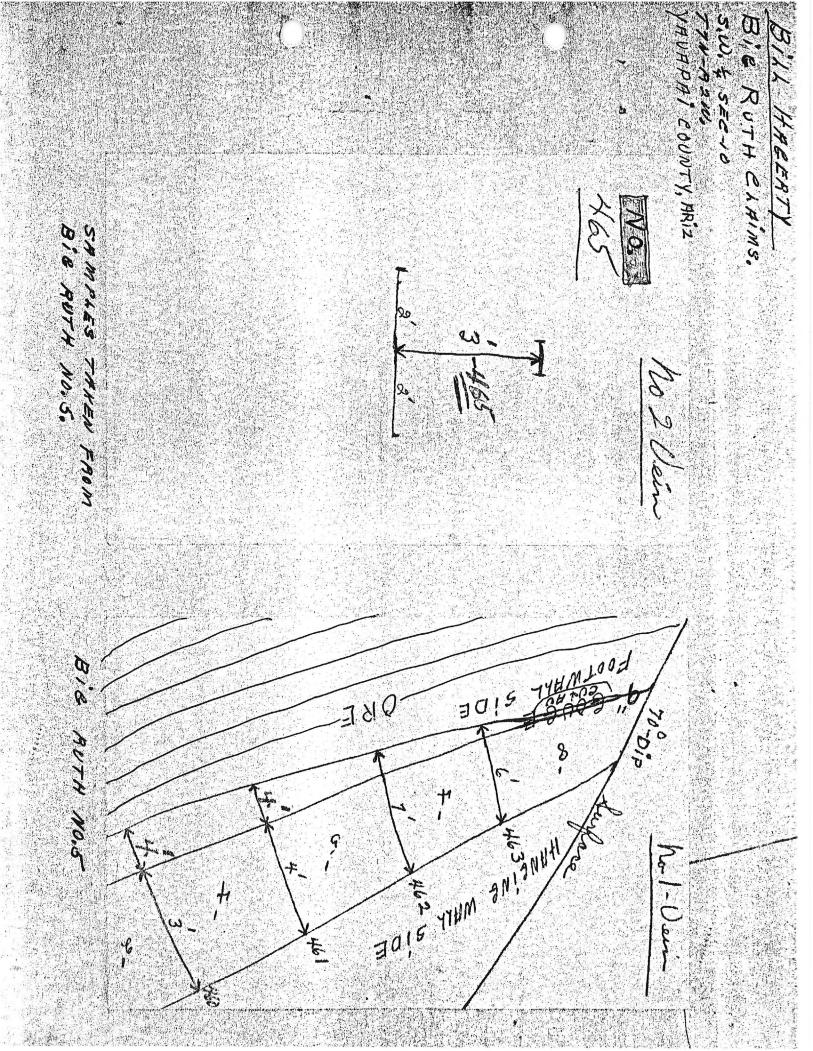
51 Rock Chip Samples

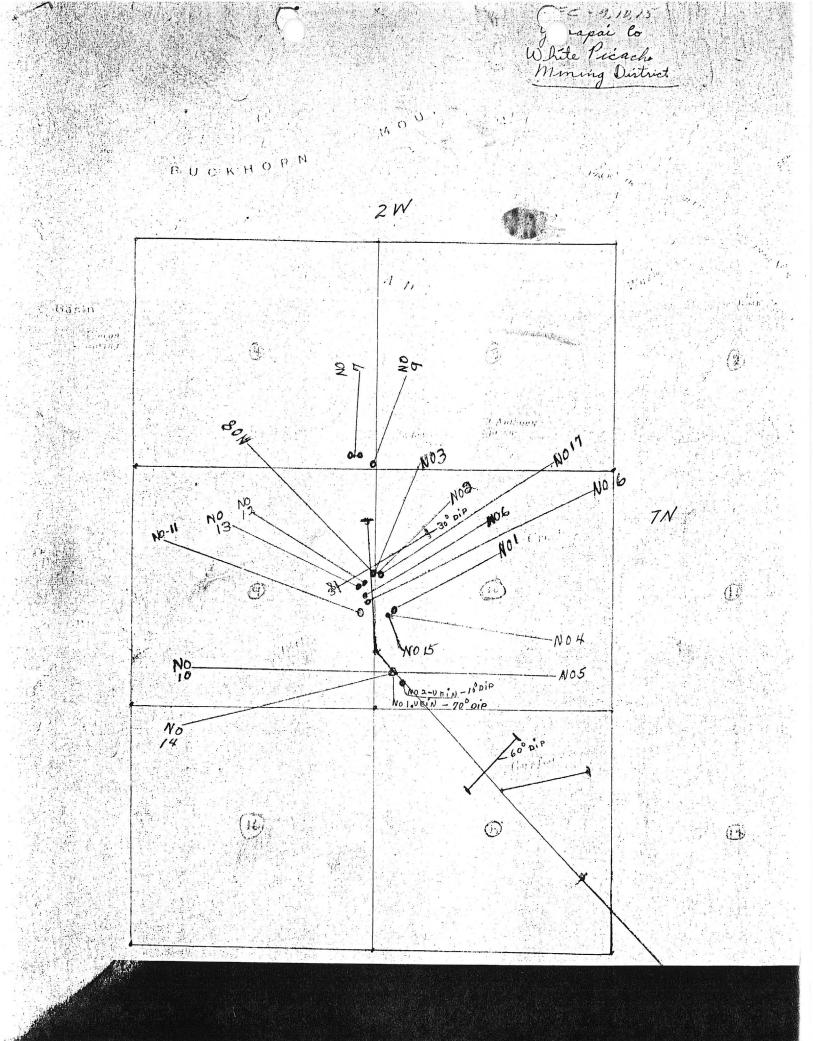
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Charles E. Thompson Chief Chemist 







## THE UNIVERSITY OF ARIZONA

TUCSON, ARIZONA 85721

ARIZONA BUREAU OF MINES

RSITAT

THL. (602) 884-2733

20 September 1972

William Hagerty 757 East Adams Phoenix, Arizona 85034

Dear Mr. Hagerty:

Sample No. 53954

<u>Sample No. 1</u>, submitted to the Arizona Bureau of Mines for examination is a weathered igneous rock called a felsite porphry composed of orthoclase feldspar (common rock-forming mineral), muscovite mica, biotite mica, limonite (hydrous iron ozide), and clay minerals.

Sample No. 2 is an altered felsite composed of orthoclase feldspar, sericite (fine grained muscovite mica), quartz, pyrite (iron sulfide), and limonite.

Sample No. 3 is a rock called hornfels composed of quartz, feldspar, sericite, pyrite, and limonite.

Spectroscopic analyses were performed on the samples and traces of copper were detected in <u>Sample Nos. 2 and 3</u>, but no other metals of direct economic interest were detected.

In answer to your questions, the term potash is commonly used in connection with any material containing the element potassium. All three samples submitted contain potassium as shown by mineralogical and spectroscopic analyses. The presence of potassium was to be expected because orthoclase, muscovite, sericite, and biotite all contain this element. Many areas and their rocks contain potash minerals. In fact, the lithosphere contains approximately 3.10 percent potash. Therefore the presence of potash minerals alone does not indicate the presence of an ore body.

In regard to sericite, its presence in rocks can also be misleading. For example, most magmas and their hydrothermal solutions did not have sufficient metal content to form ore deposits; however, as these solutions intruded the earth they did help form a great deal of sericite and/or other alternation minerals. Therefore, the presence of sericite or other alteration minerals does not necessarily indicate the presence of an ore body. William Hagerty Page 2 20 September 1972

Silicification is the entire or partial replacement of rocks and fossils with silica, either as quartz, chalcedony, or opal. No silicification was noted in Sample No. 1; Sample No. 2 had some in the form of quartz veins; Sample No. 3 had a minor amount.

Metasomatism is the process of practically simultaneous solution and deposition, through small openings, usually submicroscopic, and mainly by hypogene water solutions by which a new mineral of partly or entirely different Composition may grow in an old mineral or in an old mineral aggregate. Potash metasomatism is the above process whereby the new mineral formed contains potassium or more potassium than the mineral it has replaced.

Much has been written about hydrothermal alteration, silicification, and metasomatism. I am enclosing xerox copies of the literature cited in S. C. Creasey's paper entitled <u>Hydrothermal Alteration</u> to be found in the University of Arizona Press publication <u>Geology</u> of the Porphyry Copper Deposits-Southwestern North America. Alteration can only be used as a guide to finding ore bodies, and geologists and others have been using it for years. However, it is my opinion that the use of alteration, or better yet the misuse of alteration studies, have misguided more than guided people to finding ore bodies. But one seldom writes of their misfortunes, especially in technical publications.

I sincerely hope this information will be helpful to you.

Yours very truly,

Tillary

Robert T. O'Haire Associate Mineralogist

RTO:rj



## THE UNIVERSITY OF ARIZONA

TUCSON, ARIZONA 85721

ARIZONA BUREAU OF MINES

TEL (602) 884-2733 17 October 1972

William Hagerty 757 East Adams Street Phoenix, Arizona 85034

Dear Mr. Hagerty:

In regard to Arizona Bureau of Mines Sample No. 53963 and in answer to your request for further information, the unlabeled rock containing the malachite appears to be an altered and/or weathered and isite (?). Evidence leading to a positive identification of the rock by petrologic methods is lacking due to its altered and/or weathered condition.

The rock is composed of feldspars, clay minerals, <u>hematite</u>, limonite (5) sericite, malachite, and calcite.

The other unlabeled rock submitted is an altered and site porphyryand is in much better condition than the above rock. It is composed of plagioclase, orthoclase, limonite, clay, sericite, quartz, and manganese oxide.

Spectroscopic analyses on the sample containing malachite showed that copper was present but no other metals of direct economic interest were detected.

No metals of direct economic interest were detected in the andisite porphyry.

"T-sincerely hope this information will be helpful to you.

Yours very truly,

网络小学学校

Robert T. O'Haire Associate Mineralogist

R'PO:rj



## THE UNIVERSITY OF ARIZONA

TUCSON, ARIZONA 85721

ARIZONA BUREAU OF MINES

TIL. (602) 884-2733

3 November 1972

Sample No. 53993

William Hagerty 757 East Adams Phoenix, Arizona 85034

Dear Mr. Hagerty:

<u>Sample No. 6</u> submitted to the Arizona Bureau of Mines for examination is composed of clay minerals, limonite (hydrous iron oxide), hematite (iron oxide), manganese oxide, sericite (fine grained muscovite mica), quartz, orthoclase feldspar (common rock-forming mineral), and calcite (calcium carbonate).

A <u>Sample No. 7</u> is predominantly clay minerals with some leucoxene (litanium oxide) and iron oxide. Some chromium was detected by spectroscopic analysis. However chromium in this form is not of economic interest.

Sample No. 8 is composed of quartz, <u>orthoclase feldspar</u>, <u>plagioclase</u> feldspar, sericite, <u>pyrite (iron sulfide</u>), and limonite.

 $\mathcal{N}$  <u>Sample No. 9</u> is composed of sericite, clay minerals, limonite, quartz, and a spectroscopic analysis revealed some chromium was present.

Sample No. 10 is composed of hematite, limonite, quartz, feldspars, sericite, malachite (basic copper carbonate), and calcite.

Sample No. 11 is composed of hematite, limonite, quartz, feldspars, sericite, manganese oxide.

Sample No. 12 is composed of clay minerals, feldspars, quartz, hematite, limonite, and manganese oxide.

Sample No. 13 is predominantly quartz, stained with hematite and limonite, some feldspar and manganese oxide is also present.

Sample No. 14, is composed of hematite, limonite, quartz, sericite, malachite, and calcite.

Sample No. 15 is composed of quartz, feldspars, limonite, sericite, and clay minerals.

William Hagerty Page 2 3 November 1972

Sample No. 16 is sericite, feldspars, quartz, calcite, and a little limonite and manganese oxide.

Sample No. 17 is composed of quartz, feldspars, sericite, chlorite (hydrous magnesium-iron-aluminum silicate), limonite, clay minerals, and silittle manganese oxide and hematite.

No sulfide minerals were found, including pyrite and chalcopyrite,  $-\frac{108}{10.2}$ , nor was I able to confirm their former presence by inspection and tests.

I sincerely hope this information has been helpful to you.

Yours very truly,

Robert T. O'Haire

Associate Mineralogist

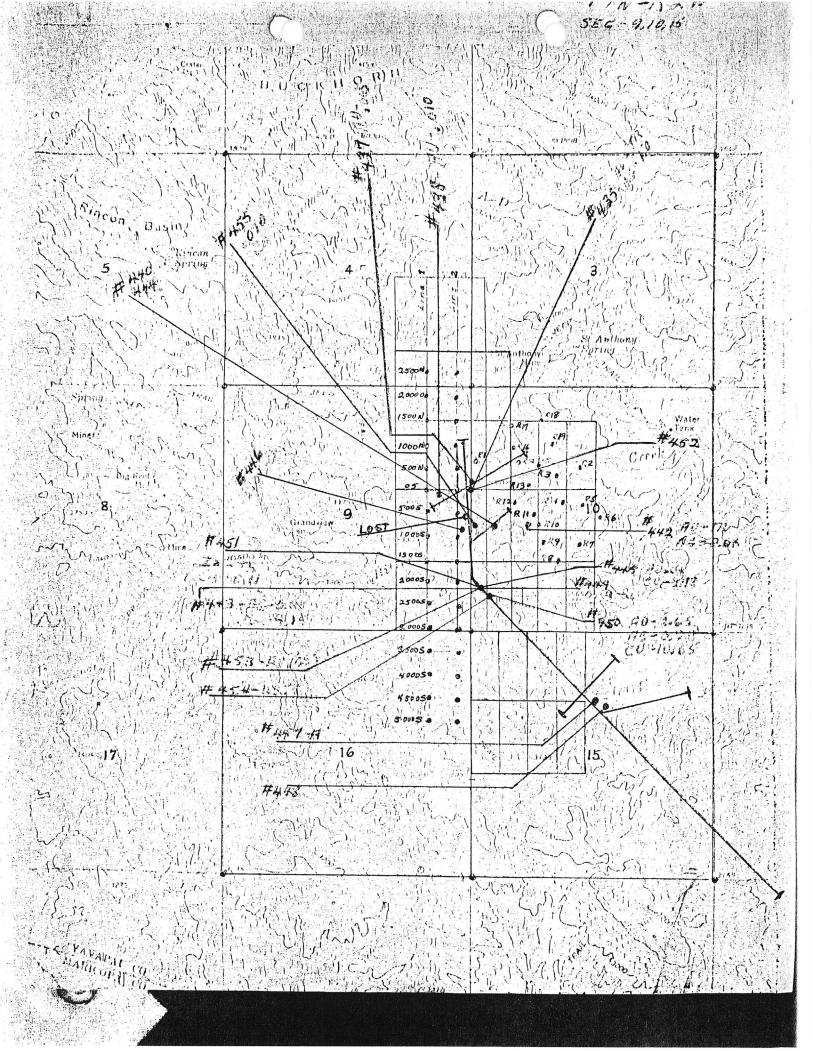
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## IRON KING ASSAY OFFICE ASSAY CERTIFICATE BOX:14, - PHONE 632-7410 HUMBOLDT, ARIZONA 86329

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Listed below is a list of assay results of geochem samples taken at the Big Ruth Claims, White Picacho District, Yavapai County, on October 24, 1972.

Sample #	Description	Assay	values ppm-
		Cu	Mo
BR#1	Rock chip sample in brecciated schist next to andesite porphyry outcrop.	50	2
BR∦2	Rock chip sample in same type or rock as BR#1.	25	2
br#3	Rock chip sample in small structure in diorite showing considerable ironoxidation	. 5	2
BR#4	Rock chip sample in apparently barren diorite about 20 ft. away from previous sample.	190	2
BR <b>#</b> 5	Rock chip sample in schist with abundant ironoxidation.	- 95	2
BR#6	Rock chip sample in oxidized andesite.	225	2
BR∦7	Rock chip sample in pyritic fine grained, volcanic rock. Probably altered andesite.	30	2
BR#8.	Rock chip sample in quartz vein. The vein is in schist.	20	6

In addition to the above samples, one sample taken from the dump at the workings showing copper mineralization assayed as follows:

0.38% copper, 0.020 oz. gold and trace of silver.



## William Hagerty 757 E. Adams Phoenix, Arles 034

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## ASSAY CERTIFICATE

BOX 14" - PHONE 632-7410 HUMBOLDT, ARIZONA 86329

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#### IRON KING ASSAY OFFICE 的情况可以认识。但我 ASSAY CERTIFICATE

#### BOX 14 - PHONE 632-7410 HUMBOLDT, ARIZONA 86329

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## **ASSAY CERTIFICATE**

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80X 14; --- PHONE 632-7410 HUMBOLDT, ARIZONA 86329 

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80X 14 - PHONE 632-7410 HUMBOLDT, ARIZONA 86329

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Jan . CHARGES 416.75 ASSAYER Sand Markey

IRON KING ASSAY OFFICE ASSAY CERTIFICATE

## BOX 141 - PHONE 6327410 HUMBOLDT, ABIZONA 86329

2027 2017

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## ASSAY CERTIFICAT

BOX 14 - PHONE 632-7410 HUMBOLDT, ARIZONA 86329

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# IRON KING ASSAY OFFICE ASSAY CERTIFICATE BOX 14 — PHONE 632-7410 HUMBOLDT, ARIZONA 86329

SUBMITTED BY, WILLIAM HAGERTY							が許な
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#### ASSAY CERTIFICATE

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#### WILLIAM HAGERTTY 757 E. Adams St. Phoenix, Ariz, 85304

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#### IRON KING ASSAY OFFICE

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## **ASSAY CERTIFICATE**

BOX 14 - PHONE 632-7410

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WILLIAM HAGERTY

757 E. Adams

Phoenix, Ariz, 85304

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