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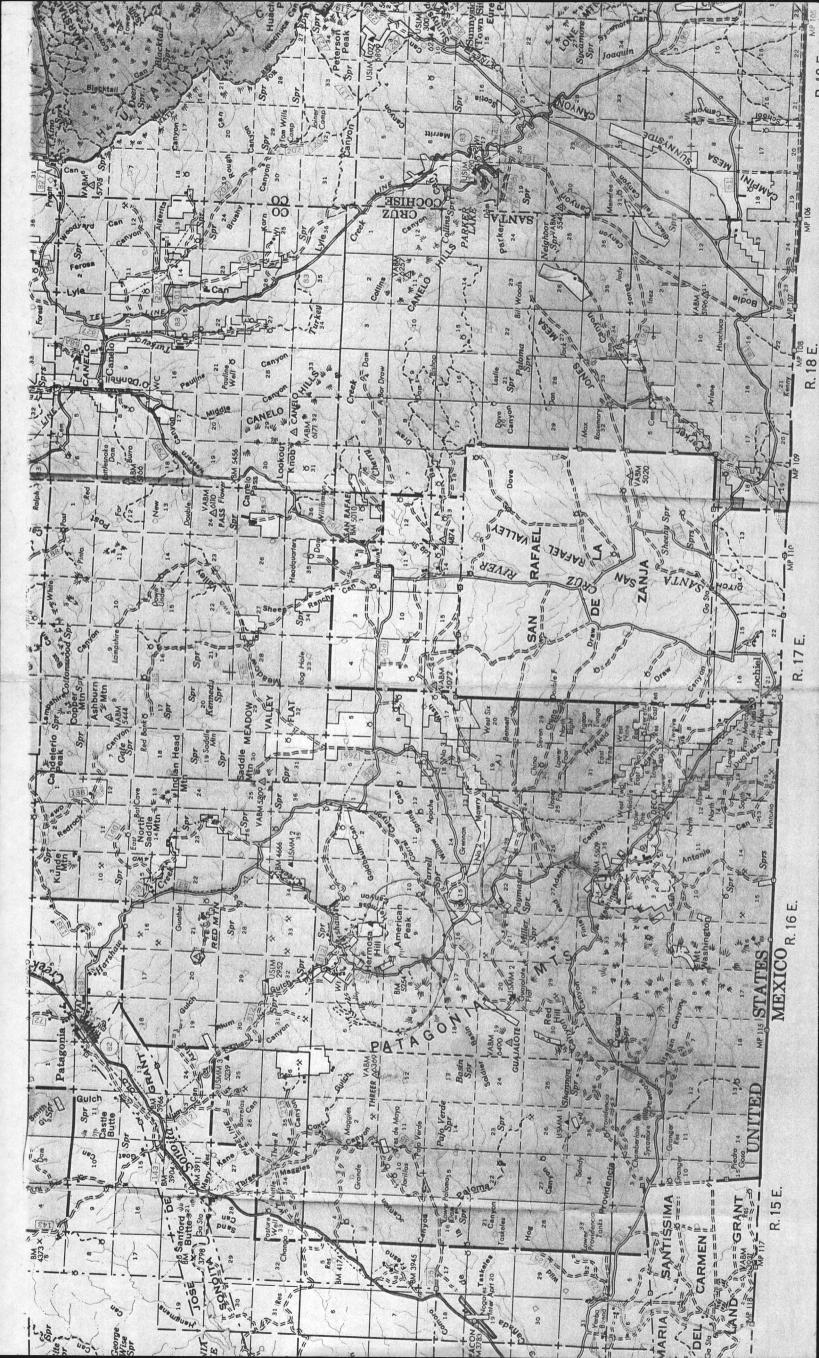
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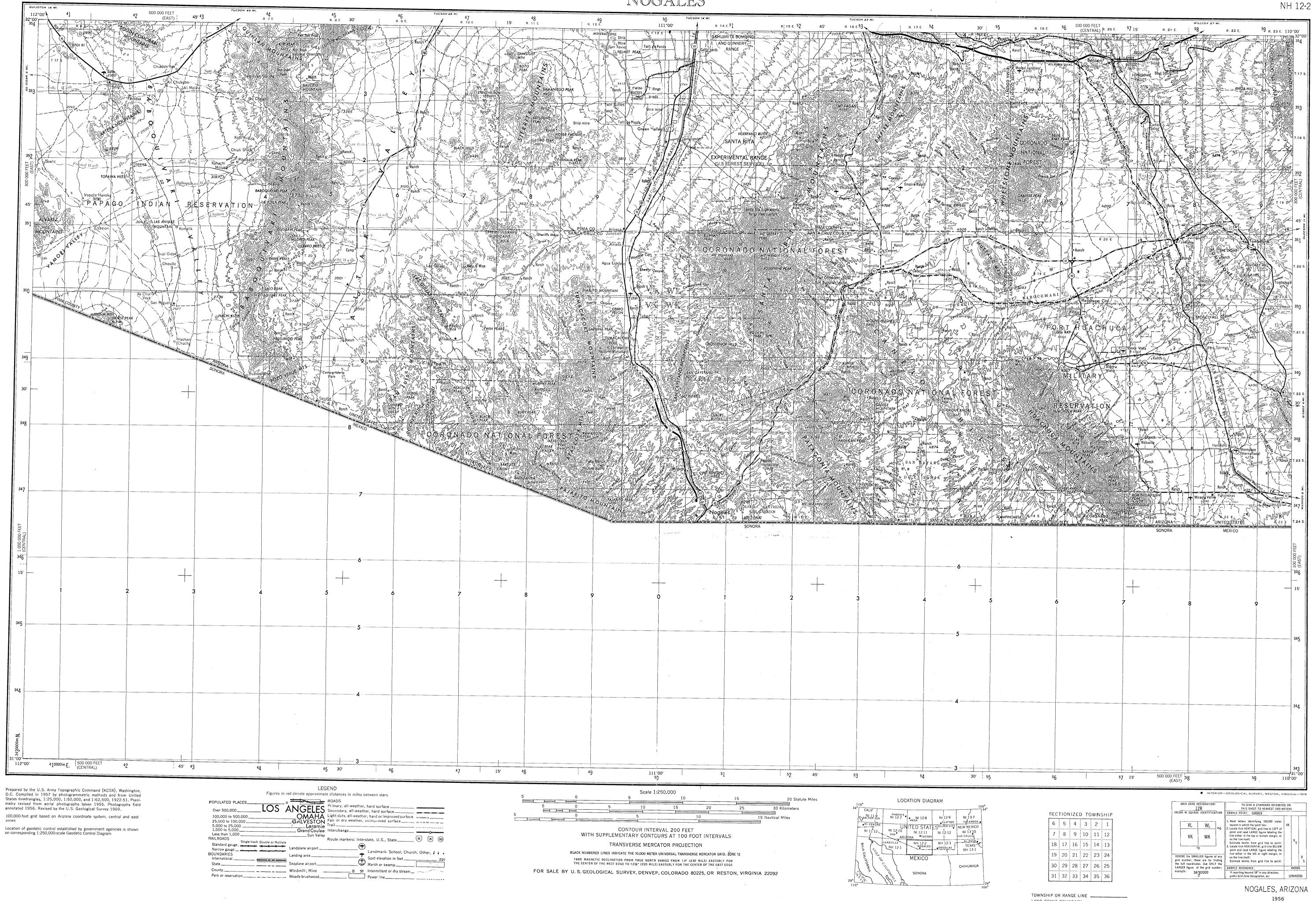
CMMBIOF	USA, INC., NO. 27449
SOIL: SED.: C	Date: $\frac{4/3}{4}$ State: $\frac{4/3}{4}$ County: $\frac{5 \text{ ante} (ruz)}{2}$ Project: $\frac{5 \text{ ante} (ruz)}{4}$ FROM $\frac{70}{4}$ R $\frac{E}{W}$; $\frac{5E}{4}$; $\frac{1}{4}$; $\frac{5}{8}$
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* Assays not located in files - - N.B.

REVISED 1969

LAND GRANT BOUNDARY





Road out Sampling Soldier Basin Area (Patagonia Mtns) Arizona Sec 18, T 235, R16 E. Harshaw 7.5 Quad Santa Cruz Co. 1"=1000 ft 4/3,4/4/92 20 sample intervals | Sec 17 | 7235, R16E (approx) unsurveyed JOB NO. SUBJECT.

SOLDIER BASIN

MANZANITA HILLS INC
JULY 12, 1991

SOLDIER BASIN

LOCATION

The Soldier Basin Project area is located approximately 60 miles southeast of Tucson, Arizona and 20 miles northeast of Nogales, Arizona. Soldier Basin is located just to the north of MHI's 4 Metals Project. MHI controls the mineral rights for portions of Sections 11,12,13,14,23 and 24 in Township 23 South and Range 15 East, and Sections 7,8,17,18,19,20,29 and 30 in Township 23 South and Range 16 East.

OWNERSHIP

MHI controls the mineral rights through lease/purchase agreements and staking. MHI is required to pay all holding fees to federal, state and local governments. In addition, MHI must pay annual advance royalty payments and once production commences a 3% net smelter royalty.

TOPOGRAPHY & CLIMATE

The topography of Soldier Basin Project area ranges from a elevation of 5000 feet on the west boundary to over 6200 feet on the east boundary. MHI will be able to maintain access throughout the year with minimal effort.

The temperature in the soldier basin area averages approximately 60°F., but varies from 100°F. in the summer to 0°F. in the winter with diurnal temperature range averaging greater than 30°F.

Precipitation around Soldier Basin ranges from 15 to 20 inches per year and flash floods can occur in the monsoon season of July and August. All drainage in the project is intermittent and there is no major drainage in the project area. Light snowfall may occur in the higher elevations from November to April.

The vegetation overlying the project area is pine, scrub oak,

juniper, manzanita, mesquite and various cactus species. Wildlife in the area include skunk, bobcat, coyote, rabbit, javelina and white tail deer. The area contains no known endangered specie.

HISTORY

The Soldier Basin area has been active in the past as there are two underground mines in Soldier Basin and one just to the northeast of the basin which are within MHI's claim group.

The first of these mines is the O'Mara mine (formally the Old Soldier Mine). This mine is located in the northwest side of Canada de la Paloma in Soldier Basin at an elevation of 5,500 feet. The Mine was first worked in 1888. The Mine consists of 2,000 feet of development work and is opened to a depth of 188 by two shafts, 200 feet of drifts on the 80 and 180 foot levels, a 187 foot crosscut on the 180 foot level, and several winzes. The main shaft is 250 feet south of the vein on its hangingwall side. The second shaft, 140 feet deep is sunk on an incline of 70°SE, following the vein. The latest work is an 50 foot shaft sunk in the gulch to the east of and 300 feet lower than the mine. This shaft is said to expose a 5 foot vein which parallels the main vein and contains similar pyrite-chalcopyrite ore, which assays 10 percent in copper, 21 ounces in silver and about a .10 ounce per gold per ton (Santa Rita and Patagonia Mountains, Arizona (P308-309).

The second mine in the Soldier Basin claim block is the Homestake Mine. This mine sits on the southern end of Soldier Basin. The dates that the mine was initially worked is unknown but is thought to be before the turn of the century. The Mine consists of three shafts, 60 feet, 200 feet, and 150 feet. The 150 foot shaft is inclined 30°. Sulfides are encountered at the 50 foot level in the shaft, and the shaft is presently full of water. The vein is 6 feet wide at the bottom of the shaft. There are two drifts off the bottom of the shaft for a total of about 300 feet and the vein still exists in both faces. The vein can be traced for about 3000 feet to the south but not into the basin to the north. The vein trends N35°E and dips 70°SE which is the same as the O'Mara Mine further to the north. Due to the topography there could be well over 600 feet of back as the vein proceeds to the south. According to the reports at the University of Arizona the vein ran 9% Lead,

3% Copper, 14% Zinc and 10 Ounces of Silver.

The last mine in the claim block is the Thunder Mine which is at the northeast edge of our claim block. The granite porphyry is silicified and altered and contains widely disseminated pyrite and chalcopyrite. The Shear zones trend northwest-southeast but the faults trend east-northeast with a flat southerly dip along which the ore minerals are concentrated. There is an 82 foot tunnel with all but the first twenty feet in the westward zone of mineralization which was regarded as low grade ore and said to average .6 per cent in copper and 2 ounces in silver and .02 in gold (40 cents per ton in 1915 when report was written) per ton. The metallic minerals are pyrite, chalcopyrite, with a little tetrahedrite and molybdenite.

Soldier Basin was held by the Bekins family from the early 1950's until 1988. The claims lapsed in the first part of 1989 and were subsequently staked by John Prochnau. Rio Algom leased the property from John Prochnau and drilled two holes for a total of 560 feet (285'& 275'). Rio Algom also did some initial sampling on the claims. The results of the drilling and sampling are included at the end of the text. Manzanita Hills leased the property from John Prochnau on the 29th day of April, 1991 and staked some additional claims to further incorporate additional breccia pipes that were found in the area.

GEOLOGY

Soldier Basin is located in a major mineral system within a northwesterly striking liniment that strikes for over 200 miles from Nacozari, Mexico to Silver Bell, Arizona. Soldier Basin is surrounded by the Mowry, Hardshell, and Trench Camp mines to the east; by the Flux, and 3R mines to the north; the Ventura mine to the west and 4 Metals to the south.

The geologic maps that show the Soldier Basin area show it as predominately Mesozoic Sediments and Volcanics, however the detailed geology shows the area as primarily Laramide Granodiorites with Quartz Monzonite intrusives. The east side of our claim group has a major fault which tends to dissect the range with the volcanics on the east side of the fault and the granodiorites on the west side of the fault. The Thunder prospect is barely on the

west side and does have Quartz Monzonite in the shear zones which seems to make up one of the ore hosts. The host rock is granodiorite. There are over ten breccia pipes located within the boundaries of our claim group which have the same consistencies as 4 Metals although they don't have the same magnitude, at least not at the surface. There are several quartz veins which also cut through the basin of which some were mined at the turn of the century. The majority of these veins trend northeast. Detailed mapping of this area may prove up additional features which may lead to further targets.

The Homestake property consists of a Quartz Monzonite porphyry with the quartz veins carrying the higher grade ore zones. The Old Soldier (O'Mara) Mine has several veins which occur near the middle of a lentil of quartz monzonite 1 mile wide that occupies the basin like head of the valley on the east and the mountains to the northwest. The intrusive is a fine grained granitoid rock composed of orthoclase and andesine labradorite in about equal amounts with quartz, biotite, hornblende, a little magnetite, and secondary chlorite, hematite, and epidote.

DATA

The current data package contains approximately 125 samples with assays, field notes in some cases, and maps showing the location of the samples. There is a map showing the location of the two drill holes drilled by Rio Algom with the logs and assays. The data follows this section.

Location	Sample Number	PPM AU	PPM CU	PPM MO	PPM PB	PPM ZN	PPM AG
PAT	296	0.129	168		3.70%	2900	137
Claims	297	0.002	15		68	2300	
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	300	0.002	47		26	22	0.9
	301	0.005	59		36	71	0.9
	302	(.001	40		12	37	⟨.2
	303	0.002	117		28	35	(.2
	304	0.003	50		41	28	0.3
	305	0.002	30		40	17	⟨.2
	306	0.004	60		73	47	0.5
	307	(.001	86		31	100	⟨.2
	308	0.001	75		9	53	(.2
	309	(.001	38		15	23	⟨.2
	310	(.001	107		11	46	⟨.2
	311	0.096	55		80	55	1.3
Thunder	166	0.005	470		33	47	⟨.2
Kine	167	0.003	810		30	230	⟨.2
	168	(.001	2400		11	51	⟨.2
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V	200	(.001	30		75	13	0.4
Claims	201	0.209	78		2000	13 77	10.2
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	203	(.001	33		30	81	0.5
	204	⟨.001	49		210	280	1.2
	205	⟨.001	92		19	13	0.8
٧	9941	0.09	11	29	38	25	2.4
Claims	9942	0.015	ġ	23	45	21	⟨.2
0.0.00	9943	0.026	3	13	63	42	⟨.2
	9944	0.051	8	37	43	17	
	9945	0.033	13	86	65	33	(.2 0.4
	9946	0.009	5	7	30	18	0.6
	9947	0.084	15	110	68	50	2.1
	9948	0.092	4	7	15	26	⟨.2
	9949	0.155	6	100	40	28	0.5
	9950	0.025	4	39	39	29	⟨.2
٠	9951	5.96	2	39	11	17	0.2
	9952	2.19	29	7	65	14	3.4
	9953	0.154	25	101	173	7	5.5
PAT	9954	3.61	173	39	3400	124	55.6
Claims	9955	18.6	800	1	4200	57	100.7
	9956	0.442	3100	1	1.41%	1.01%	105.2
	9957	0.429	7100	2	1220	2700	85.3
	9958	5.87	540	1	1180	177	32.8
	9959	2.12	124	4	8080	3100	13.4
	9960	1.86	8950	4	3150	2020	74.6
	9961	0.307	5700	1	152	290	28.8
	9962	2.01	4400	4	2300	1320	59.4
	9963	1.24	2100	12	1370	320	51.9
	9964	0.049	168	95	280	37	3.8

SOLDIER BASIN DATA

Location	Sample Number	PPM Au	PPM CU	PPM MO	PPN PB	PPN Zn	PPM AG
	9965	0.018	14	17	131	9	3.1
	9966	0.025	127	1100	146	71	1.2
PAT	9971	0.013	52	6	208	13	1.9
Claims	9972	0.008	66	130	139	11	2.8
	9973	2.14	60	1	370	9	7.1
	9974	0.639	101	1	2030	7	6.6
	9975	0.021	90	5	160	19	(.2
	9976 9977	0.014 0.017	67	1	30	9	⟨.2
	9978	0.005	230 12	57 35	18 95	29 13	(.2
	9979	0.012	19	3	70	28	<.2
	9980	0.099	172	93	42	19	0.9
	9981	0.01	180	1	49	18	⟨.2
	9982	0.004	54	10	450	14	1.5
	9983	0.013	56	1	390	14	0.5
	9984	0.019	63	31	1980	13	1.6
	9985	0.015	5	35	91	6	⟨.2
	9986	0.032	82	200	1000	30	8.8
	9987	0.012	31	1100	260	44	0.2
	9988	0.018	1	4	21	12	⟨.2
	9989 9990	0.012	82	18	44	12	⟨.2
	9991	0.015 0.012	21 28	1	12	10	⟨.2
	9992	0.012	53	6 7	20 10	7	(.2
	9993	0.014	54	8	84	13 12	⟨.2
	9994	0.021	79	5	60	12	0.3
	9995	0.138	42	5	2000	16	6.7
	9996	0.01	36	12	2100	12	1
	9997	1.53	96	1	5.50%	24	37.8
	9998	0.689	1410	160	2900	135	28.4
	9999	0.031	162	. 5	910	31	3.5
PAT	10016	0.009	58	110	240	15	1.8
Claims	10017	0.006	26	11	44	8	⟨.2
	10018	0.007	39	9	20	8	0.3
	10019	0.006	34	1	16	24	⟨.2
	10020 Pat 1	0.004	70	1	61	33	⟨.2
	PAT 2	(.001					⟨.2
	PAT 3	⟨.001					(.2
	PAT 4	⟨.001					<.2
	PAT 5	(.001					(.2
	PAT 6	0.011					0.8
	PAT 7	0.009					⟨.2
	PAT 8	(.001					⟨.2
	PAT 9	<.001					0.2
	PAT 10	⟨.001					2.1
	PAT 11	0.002					<.2
		⟨.001					⟨.2
		(.001					(.2
	PAT 14	0.002					1.4

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SOLDIER BASIN DATA

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PAT 18 (.001	. 2
PAT 19 (.001 0	.8
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- 6x gir w/200x gtz |vwing withox アルタ Locaticol Lpcatdd R# #14-16,19-21 W Koox & 12960-66 ON Red Hill Gr. 1.54-57 PAT 94-101, 73,75, 72, 29 11sited 17766 12-1 12-17 インタバ 8566 3354 3860 2966 7966 9953 9954 9955 19957

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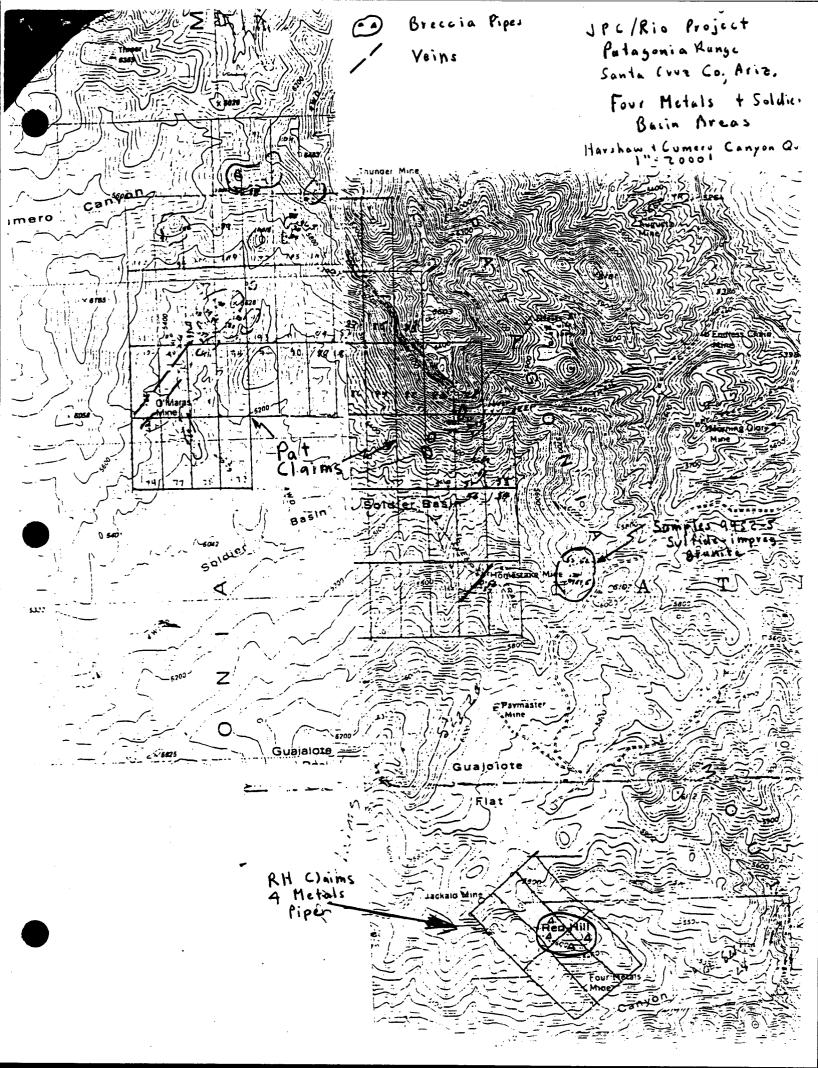
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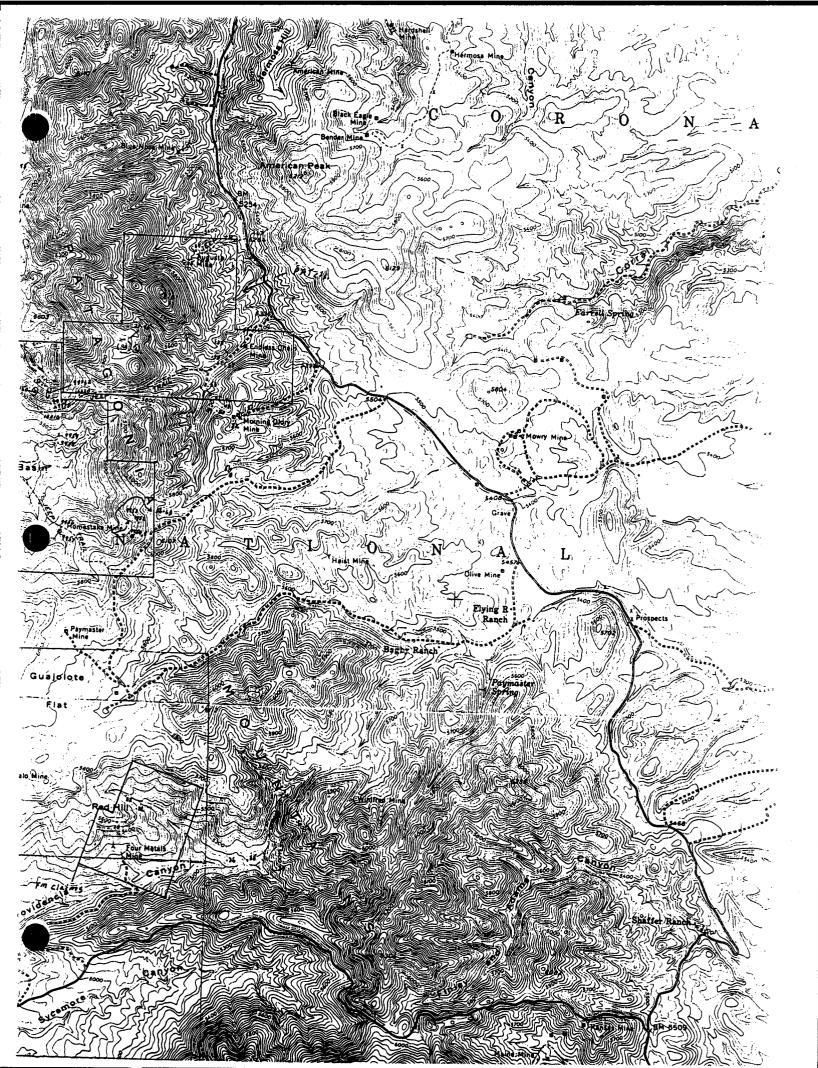
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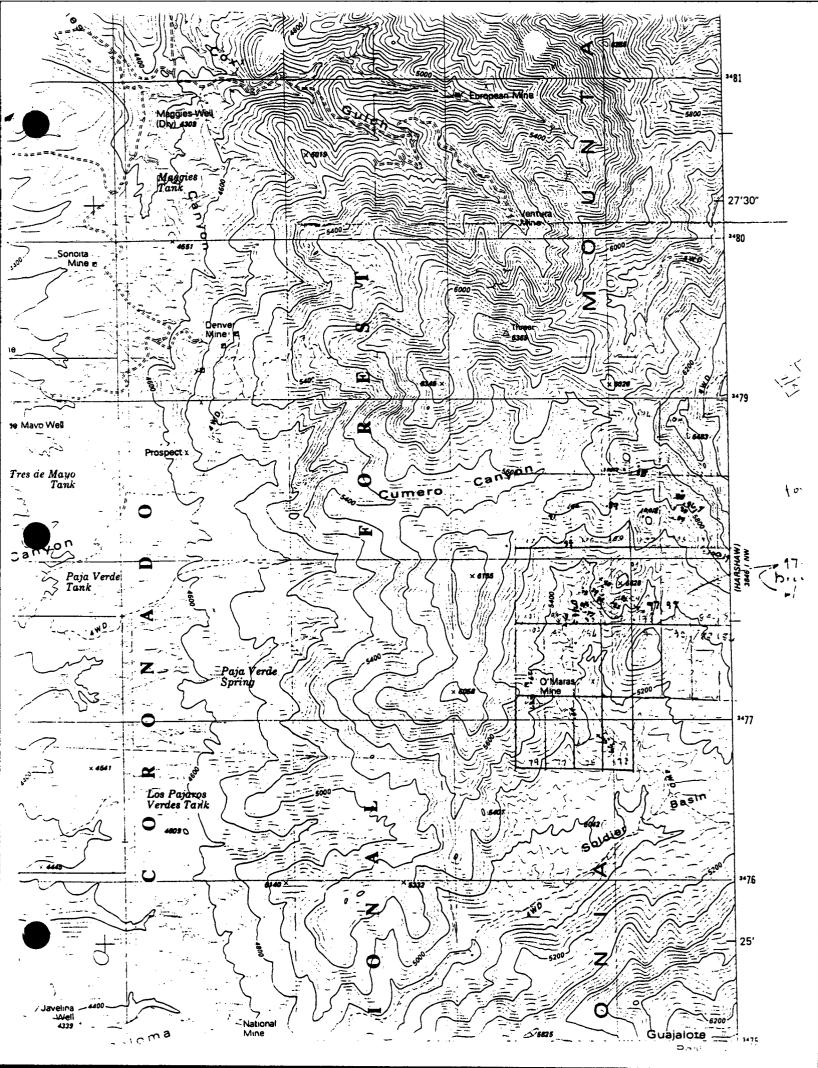
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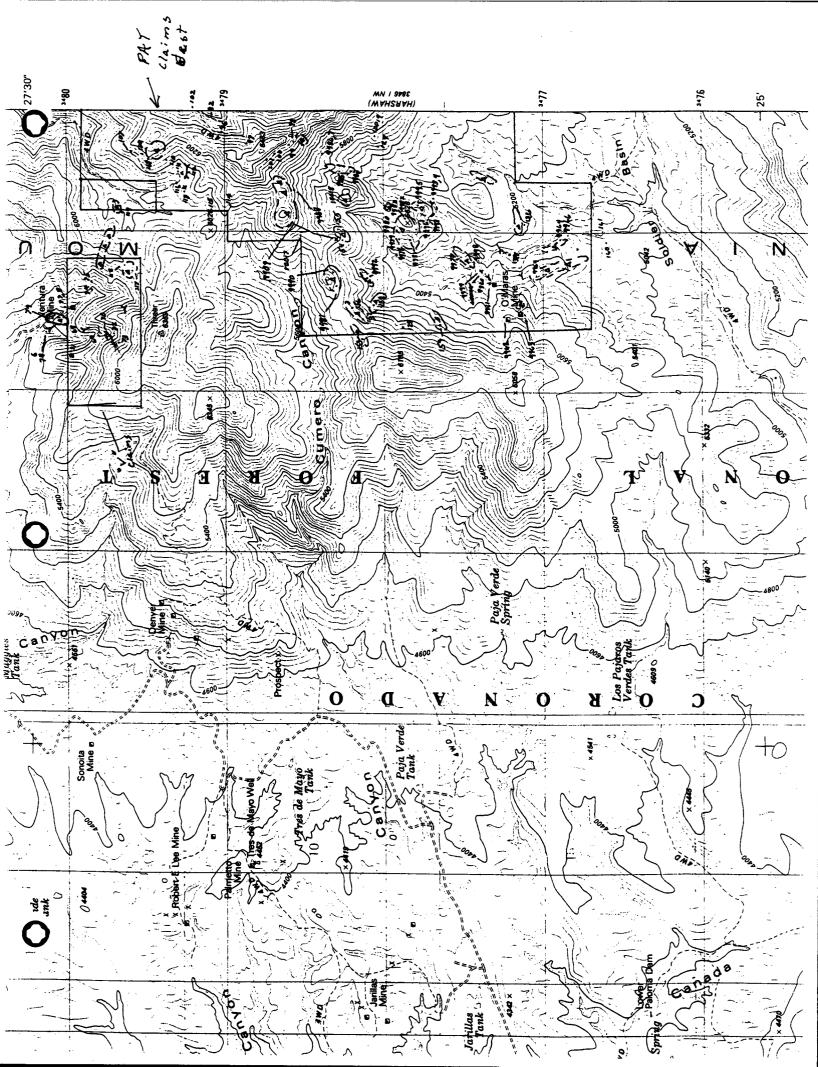
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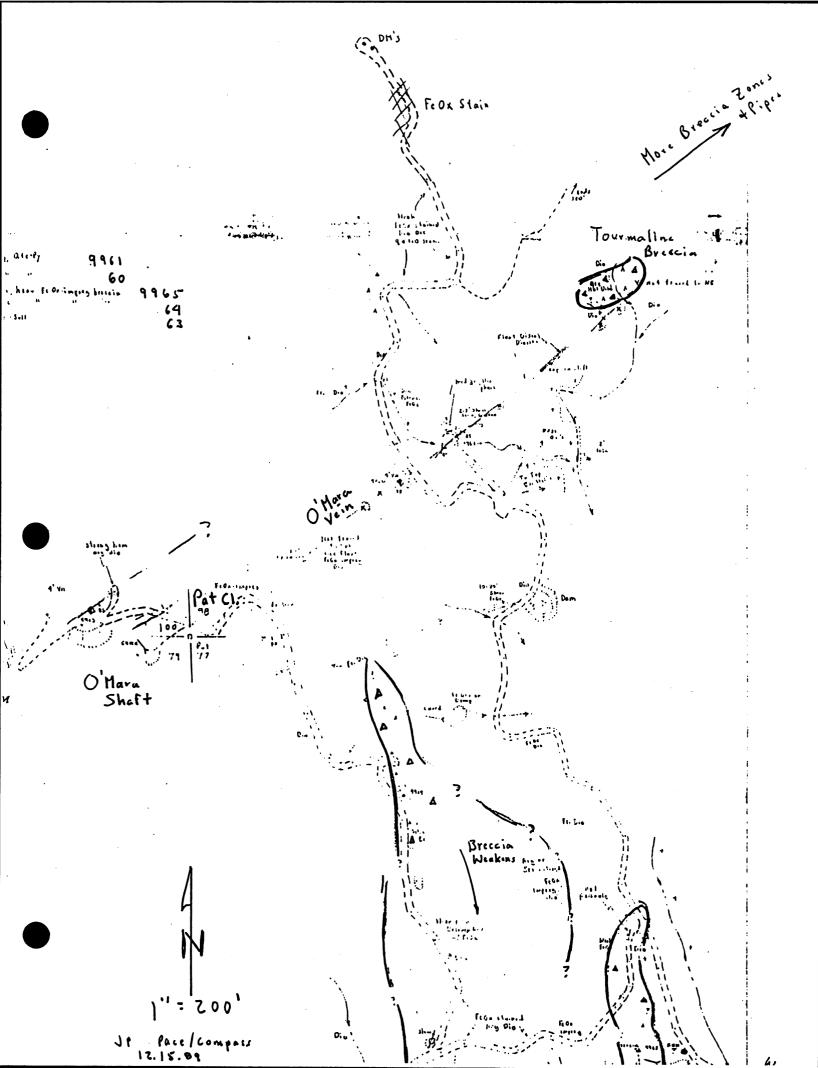
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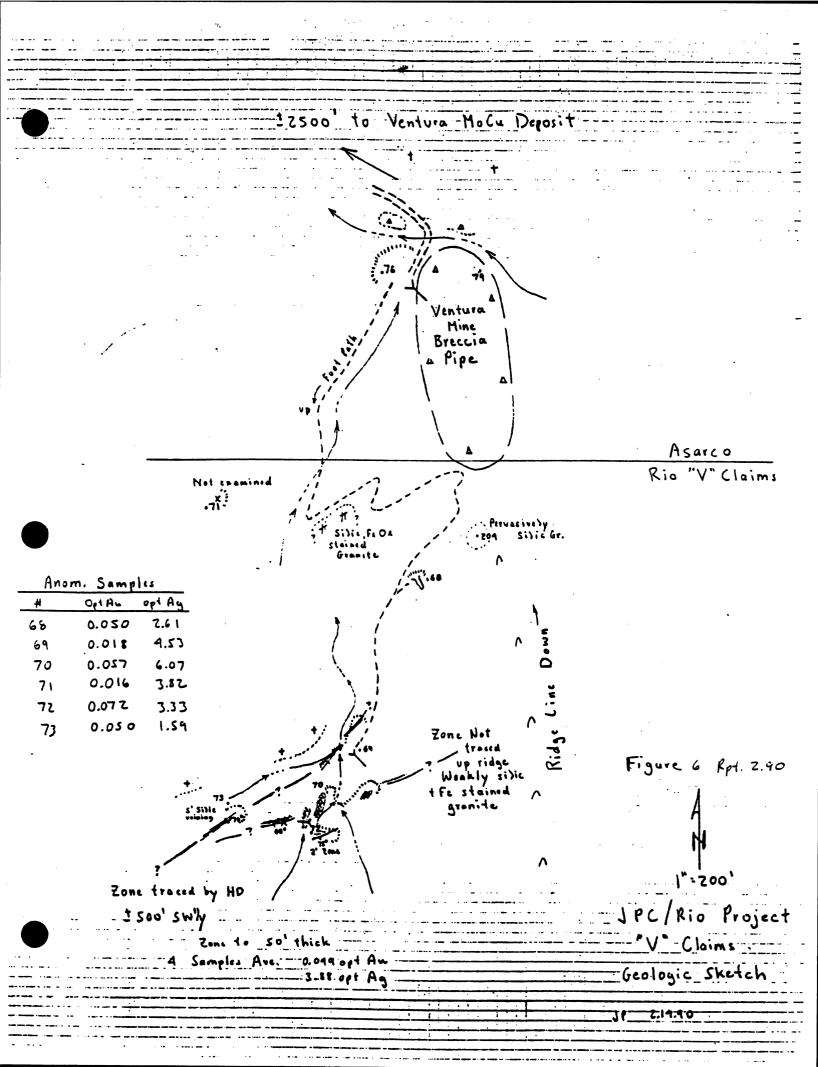


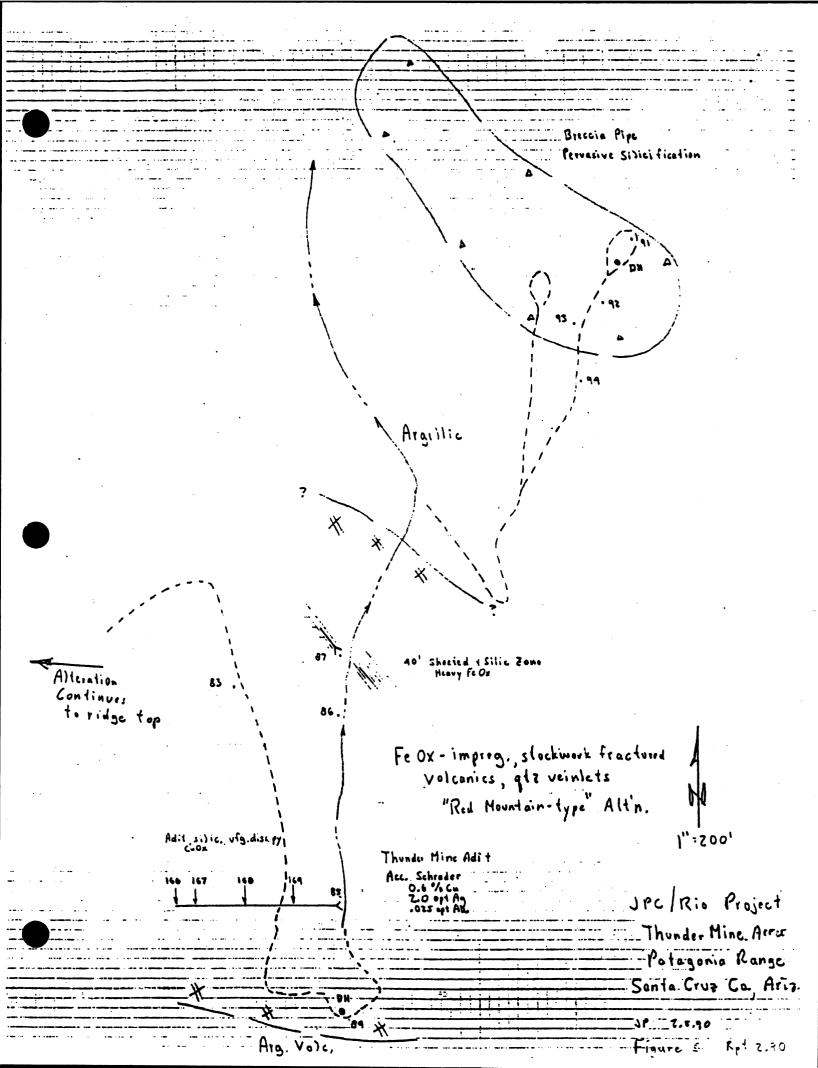












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	Comple	10d		_												P		or <u>3</u>	<u>; </u>
	LITH.	ALT.	% L T	m/	Hm	% T	М	A	COLOR	7. w	Pyv M	ite S	w	М	s	COMMENTS	PPB Au	Prin	CHECK
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210	+ .															30'; water starting to catch up			
15	+								lt-md							It gry = aplite ? (comit tell)	6	63	
220	+															2720			
25	+ 1								H 3 " Y							hint of pink color = K. spaic	6	65	
230	1								(pints							230			
	÷ 								Itym	П						cloudy whithsh rock-resembler a quartrite (?)	4	52	·
240	⋄				_				(perió)			<u> </u>				·24c vet samples			
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28	+			1				\perp	9,1	A			_	_		Hammer plugget up - strade i met to fight it trippedoct TD = 285' 420 pm	<	76	<u> </u>
Z 9				1			_			_	1				1	TU: 285' 423 PM			
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30																			
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METHOD

DIGESTION

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Job 90-2498 7-Jan-91 Page 1

ANALYTICĂL REPORT

George J. Eliopulos Rio Algom Exploration 245 E. Liberty, #200 Reno, NV 89501

PO # PROJECT PAT

SAMPLE NUMBER		PPM AU	PPM CU	PPM MO	PPM AG
SB-90-1	10- 20 20- 30 30- 40	<.001 0.005 0.003 0.042 0.031	52 65 60 71 111		,
SB-90-1 SB-90-1 SB-90-1 SB-90-1 SB-90-1	60- 70 70- 80 80- 90	0.012 0.007 0.008 0.004 0.004	104 112 67 71 57	•	
3B-90-1 5B-90-1 SB-90-1	100-110 110-120 120-130 130-140 140-150	0.003 0.006 0.004 0.003 0.005	84 74 60 74 106		
SB-90-1 SB-90-1 SB-90-1	150-160 160-170 170-180 180-190 190-200	0.002 0.001 <.001 <.001 0.003	45 50 61 59 56		
SB-90-1 SB-90-1 SB-90-1	200-210 210-220 220-230 230-240 240-250	0.004 0.006 0.006 <.001 <.001	61 63 65 52 51	7 23	<.2 <.2
SB-90-1 SB-90-1	250-260 260-270 270-280 280-285 0- 10	0.003 0.005 <.001 <.001 0.008	39 77 50 76 65	13 12 8 5	<.2 <.2 <.2 <.2
SB-90-2 SB-90-2 SB-90-2 SB-90-2 SB-90-2	10- 20 20- 30 30- 40 40- 50 50- 60	0.006 0.010 0.004 <.001	70 89 97 70 84		

A.A.

FA/20G

A.A.

4Acid

A.A.

4Acid

AA/BC

4Acid



Job 90-2498 7-Jan-91 Page 2

ANALYTICAL REPORT

George J. Eliopulos Rio Algom Exploration 245 E. Liberty, #200 Reno, NV 89501

PO # PROJECT PAT

Reno, NV 89501				
SAMPLE NUMBER	PPM AU	PPM CU	PPM MO	PPM AG
SB-90-2 60- 70 SB-90-2 70- 80 SB-90-2 80- 90 SB-90-2 90-100 SB-90-2 100-110	0.003 0.002 0.002 0.005 0.002	85 66 67 67 57		
SB-90-2 110-120 SB-90-2 120-130 SB-90-2 130-140 SB-90-2 140-150 SB-90-2 150-160	<.001 <.001 0.003 0.001 0.003	64 63 81 57 106	·	
SB-90-2 160-170 SB-90-2 170-180 3-90-2 180-190 B-90-2 190-200 SB-90-2 200-210 210-220	<.001 0.008 0.012 0.010 0.006	73 .68 1100 220 117		
SB-90-2 220-230 SB-90-2 230-240 SB-90-2 240-250 SB-90-2 250-260 SB-90-2 260-270	0.004 0.002 0.005 <.001 0.009	62 48 80 54 64	7 10	(.2 (.2
SB-90-2 270-275 PAT-90 PAT-91 PAT-92	0.004 0.025 / 0.014 / 0.250 /	87 59 27 380 -	11	⟨.2

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Job 91-0026 15-Jan-91 Page 1

ANALYTICAL REPORTN INC.

George J. Eliopulos Rio Algom Exploration 245 E. Liberty, #200 Reno, NV 89501 PO # PROJECT PAT

SAMPLE NUMBER		PPM PB	PPM ZN
SB-90-1 SB-90-1 SB-90-2 SB-90-2 SB-90-2	30- 40/ 40- 50/ 20- 30/ 30- 40/ 180-190/	75 59 95 112 83	107 117 93 118 144
SB-90-2		320 104 73 86 114	1230 720 260 153 174