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**GEOLOGY • GEOPHYSICS  
MINING ENGINEERING**

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LOG NO: 0810

ACTION:

FILE NO:

**ASSESSMENT REPORT  
GEOLOGICAL AND GEOCHEMICAL SURVEY**

on the

**BARB PROPERTY**

Atlin Mining Division

Lat. 132° 53'W

Long. 58° 45'N

N.T.S. 104K/10 & 104K/15

Claim Owner - Ron Dale

Operator - Cyprus Gold (Canada) Ltd.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**18,945**

by

Tor Bruland, Consulting Geologist

A & M EXPLORATION LTD.

July 26, 1989

Vancouver, B.C.

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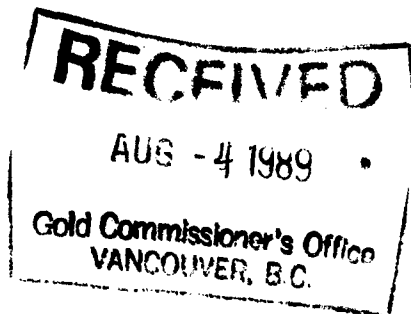
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## INTRODUCTION

At the request of Cyprus Gold (Canada) Ltd. the writer examined the Barb property from July 12 to July 15, 1989. The purpose of this examination was to assess the potential for skarn and porphyry gold and copper mineralization.

Previous copper mineralization has been identified in prophyry breccia in the western part of the property and gold mineralization has been identified in magnetite skarn in the central part of the property.

Both rock and soil samples were collected to add information to the existing data file. The samples were analysed by ICP in addition to gold to see if known skarn pathfinder elements could help define the mineralization on this property.

## LOCATION, ACCESS, TOPOGRAPHY

The Barb claims are situated at  $132^{\circ}53'W$  and  $58^{\circ}45'N$ , approximately three kilometres north of King Salmon Lake (Figures 1 and 2). Access to the property is by float-plane or helicopter from Atlin, B.C., about 100 kilometres to the north, or by helicopter or float-plane from Juneau, Alaska, about 100 kilometres to the west.

Topography is mountainous. The property ranges, in elevation from 850 to 1465 metres. The vegetation is alpine on the ridges, coniferous in the valleys and thick underbrush on the higher slopes.

## HISTORY

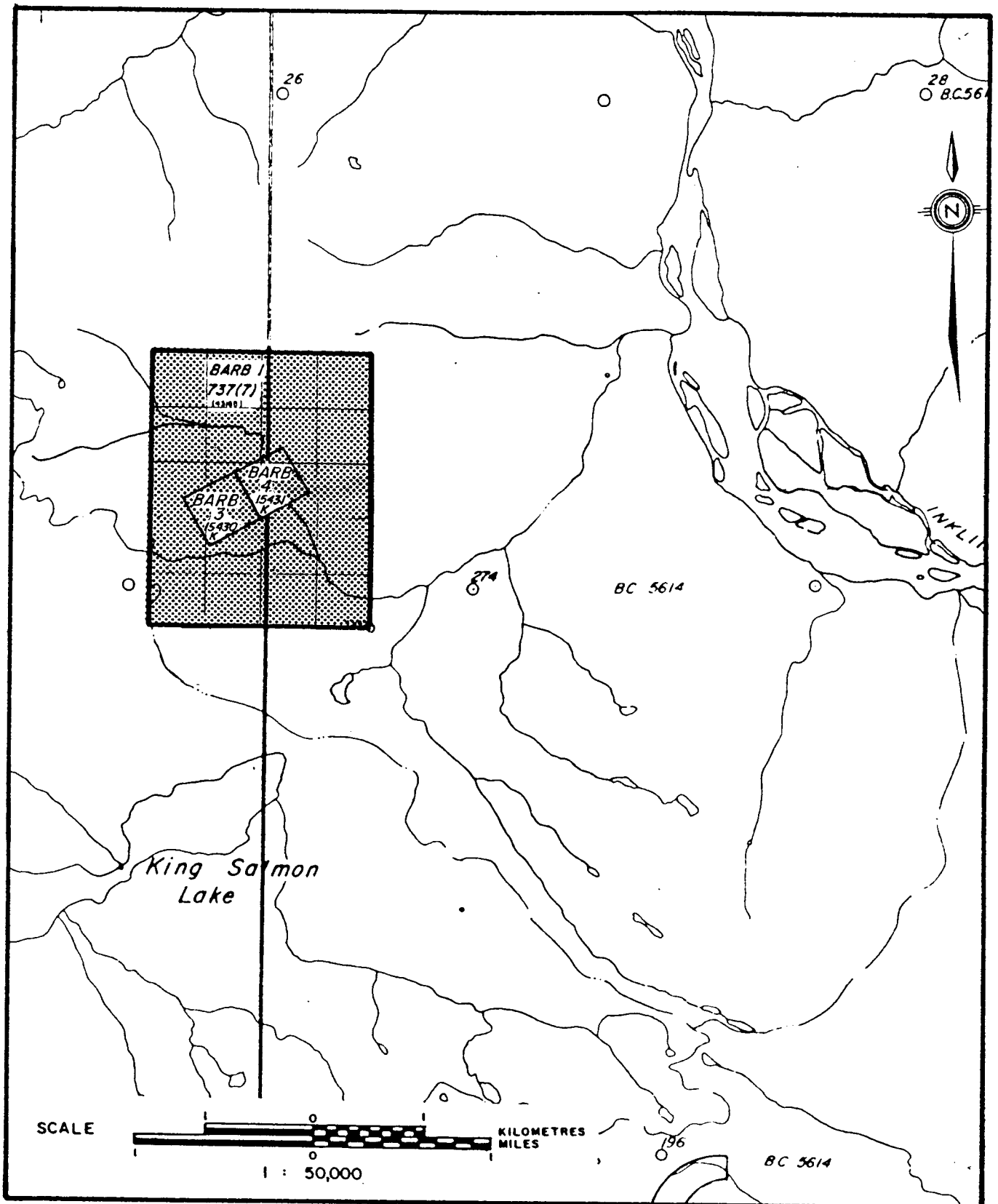
1930

- discovery of the original (BMW) showing by George Bacon.

1947.

- property was staked for Consolidated Mining and Smelting Ltd. by G. Bacon.
- trenching.





N.T.S. 104K/10W 15W

**BARB PROPERTY  
CLAIM MAP**

Atlin Mining Division - British Columbia

1949-1950

- property was optioned to Hudson Bay Mining and Smelting by CM & S.
- trenching and 943 feet of EX drilling by Hudson Bay.

1964

- small airborne and ground magnetometer survey by Newmont Mining Co. Ltd.

1967

- examination of porphyry copper potential by Kennco.

1981-1984

- property optioned to Chevron Standard Ltd. of Vancouver by owner Ron Dale of Victoria.
- geological mapping, soil geochemical and geophysical (magnetometer programs were undertaken).

1988 (July 24)

- a "one-day" property examination by Westmin Resources Ltd., which was cut short by poor flying conditions (fog and rain).

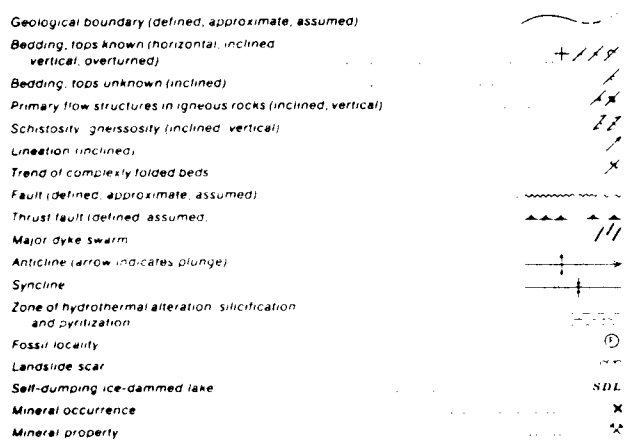
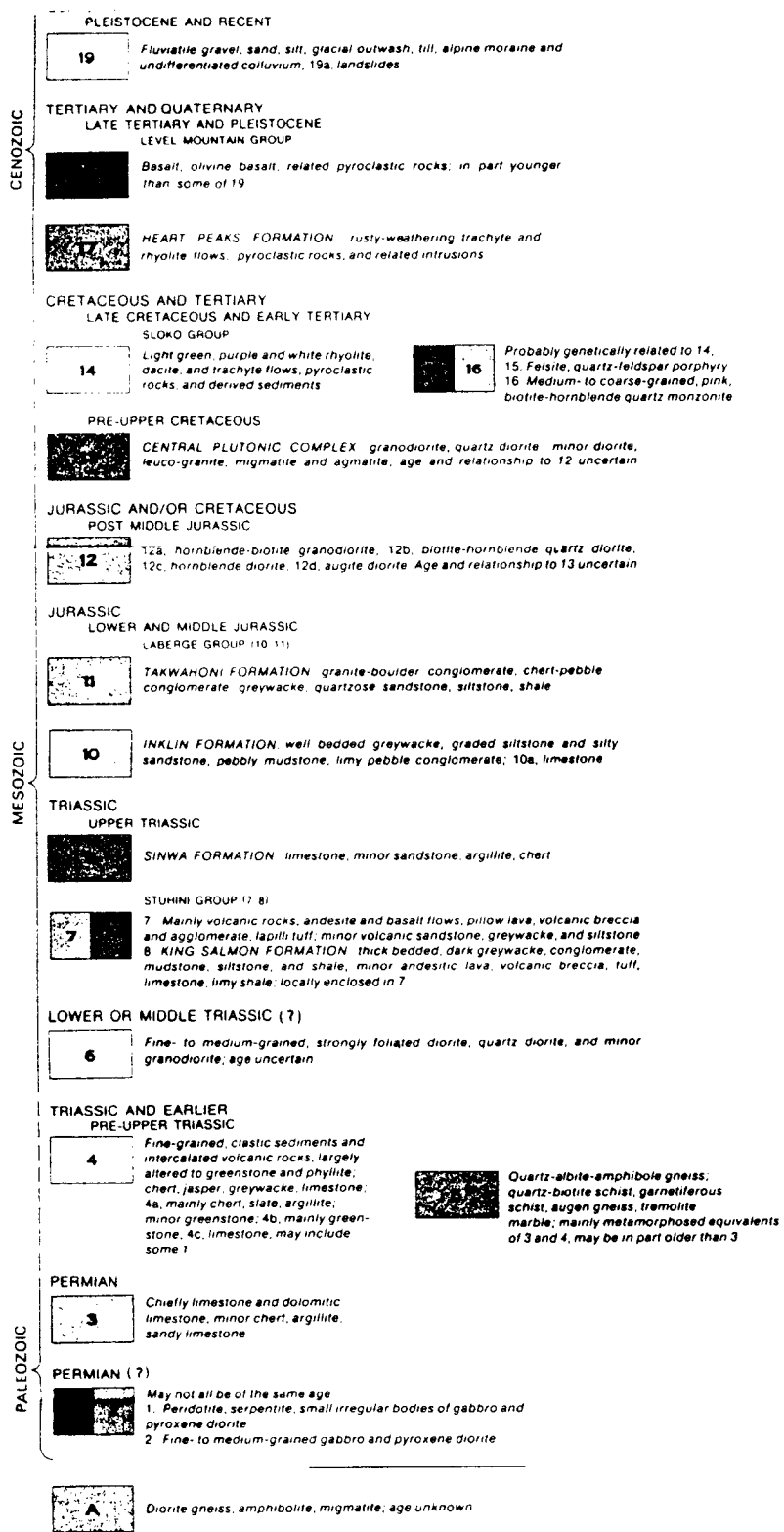
#### CLAIM DATA

Ron Dale of Victoria staked the Barb 1 claims in 1979. They overlie the pre-existing Barb 3 and Barb 4 claims staked in 1970.

<u>Claim Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Recording Date</u>	<u>Expiry Date</u>
Barb 1	20	737	July 26, 1979	1989
Barb 3	1	15430	August 12, 1970	1989
Barb 4	1	15431	August 12, 1970	1989

#### REGIONAL GEOLOGY

The Barb claims are situated on the east margin of the Coast Plutonic Complex, as mapped by Souther, 1971 (Figure 3). Most of the claims are underlain by Upper Triassic King Salmon Formation, which is a mixed



Regional Geology of Taku River Area (Souther, 1971)

Legend for Figure 3



Regional Geology of Taku River Area (Souther, 1971)

Figure 3



assemblage of sediments, andesitic volcanic and volcanoclastic rocks and limestone.

On the northeast part of the claims Upper Triassic Sinwa Fm. limestone occurs underlain by the northeast dipping King Salmon thrust fault.

The rocks are intruded by intermediate composition plutons and porphyritic dykes of Jurassic or Cretaceous age, which are responsible for partial quartz-epidote-magnetite skarnification of some of the sediments and volcanics.

Structure in the area is dominated by the NW-trending NE-dipping Salmon thrust fault, associated smaller faults, and a perpendicular set of NE trending faults.

#### THE 1989 PROGRAM

Geological mapping and collection of rock samples was carried out, on the property to be analyzed for gold, in order to verify and establish the extent of previous known mineralization. In addition, ICP analyses of these samples would show if trace elements would be useful pathfinder elements.

Soil samples were collected to the west and up-slope from the previous geochemical coverage to better define and close up the anomalies. In addition, soil samples were collected from the porphyry breccia area to see if this area has an anomalous geochemical signature for either major or trace elements.

#### Geochemical Analysis

A total of forty rock samples and sixty-nine soil samples were collected and all samples were submitted to Rossbacher Laboratory Ltd. of Burnaby, B.C. for analysis. The samples were analyzed for gold by aqua regia atomic absorption method, and for an additional thirty-two elements by ICP-aqua regia extraction.

### Rock Geochemistry

A total of forty rock samples were collected from the property. Four samples were from the porphyry breccia pipe and six samples were from the old EX drill core from the porphyry breccia. All these samples were collected to establish the extent of the known copper mineralization. The copper mineralization (up to 2.68%) was found to locally be associated with subeconomic silver (72.5 g/tonne). See Appendix I, Figure 4. The relative low Cu and Ag mineralization in the drill core could be due to the drill holes location peripheral to the main mineralization in the porphyry breccia.

The remaining thirty samples were collected from the known skarn mineralization and sulphide-rich beds and dykes adjacent to the skarn to see if precious metals and trace elements could indicate the presence of a PME skarn. Isolated high gold and silver values were found (Figure 4 and Appendix I). Several trace elements (Bi, Mn, As, Co, Cu and Sb) known to be associated with PME skarn were found to return anomalous values from a significant number of the samples indicated the possible presence of this type of deposit here (Appendix I)

### Soil Geochemistry

Sixty-nine soil samples were collected from the B horizon/talus fines at 5 to 20 centimetres depth to the west of the previous geochemical coverage. In addition some of the previous anomalous sample locations were resampled. The purpose was to close off the existing anomalies as well as establishing if known PME skarn trace elements would be useful pathfinder elements on soil surveys on this property. The results confirmed both of these objectives (Figures 5 and 6; Appendix I). It seems that the best suitable trace elements on the property are Bi, Co and Mn and to a lesser extent Cu and Fe.

In addition to the previous known anomalies, the survey outlines a multielement trace element anomaly to the west covering the porphyry breccia indicating that a PME skarn could be located under the ridge separating these two anomalies.

## CONCLUSION AND RECOMMENDATION

Both soil and rock geochemistry have previously shown the presence of precious metal mineralization on the property. This years survey shows that this mineralization could be from a PME mineralized skarn. The skarn mineralization found on the property is low in garnets and PME skarn have been found to contain more pyroxene than garnets.

The discrepancy between the magnetometer survey completed by Chevron and the magnetite outcrop could be an edge effect from the strong dipole ( 30,000 gammas) found in this area. This could indicated a sizable magnetite body to the west of the known outcrops of magnetite.

A follow-up program on the property is warranted. It should include a complete geochemcial survey of the grid area to define the precious and trace element anomalies located to date. In addition, a detailed magnetometer survey is needed over the existing anomalies to better define these anomalies.

To better understand the geology of the property detailed mapping should be done with an emphasis on the structures to clarify the relation between the sediment, the massive sulphide beds and the skarn. A VLF-electromagnetic survey covering the grid area would define the larger structures on the property. This mapping will also establish whether or not the precious metal mineralization is structurally controlled.

## REFERENCES

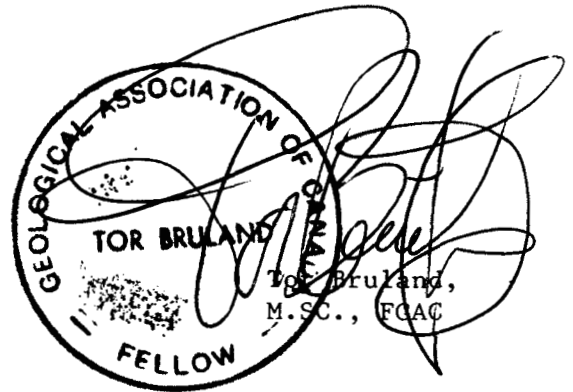
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- Walton, G. (1984). Geophysical Survey Magnetometer, Barb 1, 3, 4. Internal Chevron Report. Assessment Report.

STATEMENT OF QUALIFICATIONS

I, Tor Bruland, certify that:

1. I am a Consulting Geologist, at A & M Exploration Ltd., with offices at #704-850 West Hastings Street, Vancouver, B.C.
2. I am a graduate of the University of Bergen, Norway, with a Cand. Mag. (B.Sc.) degree in Geology (1977), and a Cand. Real. (M.Sc.) degree in Geology (1980).
3. I have been practising my profession in Norway between 1977 and 1980, and since 1980 in British Columbia, Yukon and Nevada.
4. I am a Fellow of the Geological Association of Canada.
5. This report is based on field work carried out by personal examination and supervision between July 12 to July 15, 1989 and on information listed under References.

July 26, 1989  
Vancouver, B.C.



**APPENDIX I**

**Analytical Results**

**F. JSSBACHER LABORATORY LTD.**

2225 S. Springer Ave., Burnaby,  
British Columbia, Can. V5B 3N1  
Ph: (604)299-6910 Fax: 299-6252

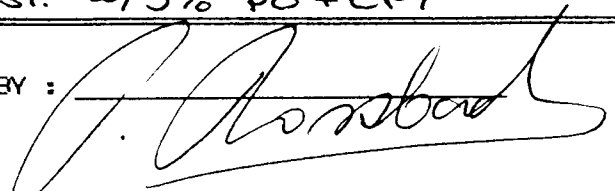
**CERTIFICATE OF ANALYSIS**

TO : A&M EXPLORATION LTD.  
#714-850 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : 504  
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 89218  
INVOICE # : 90391  
DATE ENTERED : 89-07-21  
FILE NAME : A&M89218  
PAGE # : 1

PRE FIX	SAMPLE NAME	PPB Au	
A	900089	4600	FLOAT, INTRUSIVE TRACE PY
A	900090	20	QUARTZ VEIN WITH CPY & MAGNETITE
A	900091	20	LIMONITE STAINED QUARTZ VEIN
A	900092	10	QUARTZ VEIN & BANDED PO (15%)
A	900093	5	1950 EX DRILL CORE
A	900094	5	1950 EX DRILL CORE
A	900095	5	1950 EX DRILL CORE
A	900096	5	1950 EX DRILL CORE
A	900097	5	1950 EX DRILL CORE
A	900098	5	1950 EX DRILL CORE
A	900099	150	INTENSE ALTERED INTRUSIVE, 3% PY+PO+CPY
A	900100	260	INTENSE ALTERED INTRUSIVE WITH MAGANESE STAINING
A	900101	5	SILIC. ANDESITIC TUFF, 3% DISS PY
A	900102	5	GARNET SKARN WITH BLEBS OF PO
A	900103	20	LIMESTONE WITH HEMATITE & LIMONITE STAINING
A	900104	5	INTENSE OXIDIZED LIMESTONE
A	900105	5	MASSIVE MAGNETITE
A	900106	90	MASSIVE MAGNETITE WITH SIDERITE VEINS
A	900107	5	MASSIVE MAGNETITE WITH HEMATITE BLEBS
A	900108	110	MASSIVE MAGNETITE WITH SIDERITE VEINS
A	900109	5	MASSIVE MAGNETITE WITH SIDERITE STRINGERS
A	900110	30	MASSIVE MAGNETITE WITH SIDERITE STRINGERS
A	900111	40	MASSIVE MAGNETITE IN LIMESTONE
A	900112	5	MASSIVE MAGNETITE
A	900113	5	MASSIVE MAGNETITE
A	900114	240	MASSIVE MAGNETITE w/ PY & CPY
A	900115	20	INTENSE OXIDIZED PORPHYR INTRUSIVE
A	900116	3800	MASSIVE PO WITH PY & CPY, INTENSE OXIDIZED
A	900117	10	INTENSE OXIDIZED INTRUSIVE
A	900118	20	INTENSE OXIDIZED TUFF WITH DISS SULPHIDES
A	900119	50	FLOAT OF MASSIVE PO
A	900120	20	INTENSE OXIDIZED TUFF w/ 15% PO+PY+CPY
A	900121	10	FLOAT, INTENSE OXIDIZED INTRUSIVE w/MALARCITE
A	900122	10	INTENSE OXIDIZED TUFF WITH PY+PO+CPY
A	900123	100	MASSIVE MAGNETITE WITH CARB. STRINGERS
A	900124	120	INTENSE OXIDIZED SIDERITE
A	900125	5	MASSIVE MAGNETITE WITH 5% HEMATITE
A	900126	5	INTENSE OXIDIZED SIDERITE
A	900127	20	CARB. MAGNETITE BRECCIA
A	900128	30	CALC. SILTST. w/5% PO+CPY

CERTIFIED BY :



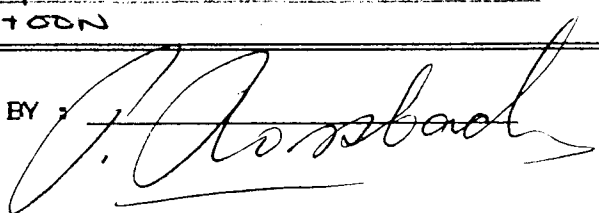
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PRE FIX	SAMPLE NAME	FPB Au
S	951001	5 SOIL L 23+50 N
S	951002	5
S	951003	250
S	951004	260 SOIL L 23+30 N
S	951005	5 SOIL L 22+00 N
S	951006	5
S	951007	5
S	951008	70
S	951009	50
S	951010	5
S	951011	50
S	951012	5
S	951013	5
S	951014	5
S	951015	5
S	951016	5
S	951017	5 SOIL L 22+00 N
S	951018	30 SOIL L 21+50 N
S	951019	10
S	951020	5
S	951021	30
S	951022	5
S	951023	5
S	951024	10
S	951025	5
S	951026	5
S	951027	5
S	951028	5
S	951029	5 SOIL L 21+50 N
S	951030	30 SOIL L 23+50 N
S	951031	270
S	951032	5
S	951033	5
S	951034	5 SOIL L 23+50 N
S	951035	310 SOIL L 23+00 N
S	951036	60
S	951037	10
S	951038	110
S	951039	5
S	951040	5 SOIL L 23+00 N

CERTIFIED BY :





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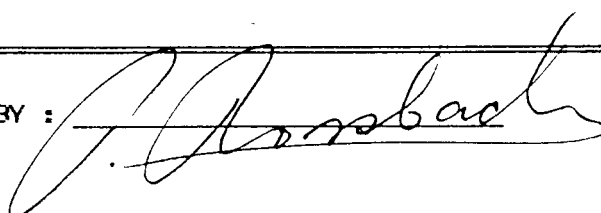
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PAGE # : 3

PRE FIX	SAMPLE NAME	FPB Au
S	951041	5 SOIL L 23+00N
S	951042	5
S	951043	20
S	951044	5
S	951045	5
S	951046	5
S	951047	5
S	951048	5
S	951049	5 SOIL L 23+00N
S	951050	5 SOIL L 22+50N
S	951051	20
S	951052	390
S	951053	160
S	951054	20
S	951055	10
S	951056	200
S	951057	130
S	951058	1980
S	951059	140
S	951060	10
S	951061	5
S	951062	20
S	951063	5
S	951064	5
S	951065	5
S	951066	130
S	951067	5
S	951068	5
S	951069	5 SOIL L 22+50N

CERTIFIED BY :



ROSSBACHER LABORATORY LTD.

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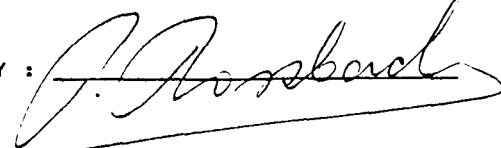
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INVOICE # : 90391  
DATE ENTERED : 89-07-21  
FILE NAME : A&M89218.I  
PAGE # : 1

PROJECT : 504  
TYPE OF ANALYSIS : ICP

PRE FIX	SAMPLE NAME	PPM MO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CO	PPM Mn	I FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	I CA	I P	PPM LA	PPM CR	I MG	PPM BA	I TI	PPM B	I AL	I MA	I SI	PPM W	PPM BE	
A	900089	12	420	5	72	13.9	19	1	736	11.47	68	NA	ND	ND	69	1	10	5	187	0.98	0.08	2	107	0.91	37	0.35	5	1.56	0.01	0.01	1	3	
A	900090	2	3884	2	90	6.6	12	37	819	5.00	27	NA	ND	ND	10	1	2	8	52	0.66	0.05	7	106	0.10	160	0.01	84	0.30	0.01	0.01	10	1	
A	900091	2	26808	187	628	72.5	17	93	1023	10.13	434	NA	ND	ND	7	10	52	1916	52	0.10	0.04	8	123	0.07	214	0.01	241	0.34	0.01	0.02	22	1	
A	900092	1	919	7	31	2.6	15	151	129	17.99	218	NA	ND	ND	6	2	9	81	93	0.12	0.03	2	206	0.07	23	0.03	2018	0.60	0.01	0.01	1	2	
A	900093	1	1909	2	98	7.6	6	17	2792	8.68	15	NA	ND	ND	481	1	2	52	122	13.15	0.05	3	84	3.98	758	0.01	63	0.68	0.01	0.01	1	2	
A	900094	1	459	2	104	0.6	20	17	1507	7.68	9	NA	ND	ND	90	1	2	2	173	2.84	0.06	2	152	1.56	414	0.04	32	1.35	0.01	0.01	1	3	
A	900095	1	334	1	121	0.4	6	16	1738	7.93	38	NA	ND	ND	134	1	2	2	141	4.52	0.06	6	102	2.08	334	0.01	27	0.84	0.01	0.01	1	2	
A	900096	1	6850	2	94	3.0	7	14	1498	6.04	6	NA	ND	ND	110	1	2	2	148	5.32	0.07	1	115	1.86	109	0.03	127	0.65	0.01	0.01	1	2	
A	900097	1	74	1	111	0.1	4	16	2431	7.76	2	NA	ND	ND	523	1	2	2	193	13.67	0.05	1	62	4.14	1210	0.01	5	0.34	0.01	0.01	1	3	
A	900098	2	52	13	50	0.2	8	16	767	3.93	13	NA	ND	ND	94	1	2	20	61	2.46	0.06	13	90	1.02	130	0.01	49	0.39	0.01	0.01	2	1	
A	900099	8	440	226	379	2.8	9	8	2297	6.89	1713	NA	ND	ND	141	4	76	10	23	13.61	0.04	10	54	2.34	116	0.01	49	0.27	0.01	0.02	1	1	
A	900100	4	241	13	57	2.6	14	25	2050	4.92	5357	NA	ND	ND	30	149	1	45	7	37	20.75	0.03	1	42	1.74	318	0.01	16	0.21	0.01	0.01	1	2
A	900101	4	177	11	55	0.4	28	19	626	4.74	66	NA	ND	ND	48	1	2	15	185	3.05	0.14	7	54	0.68	46	0.50	156	0.94	0.01	0.01	2	4	
A	900102	8	35	13	84	0.2	8	6	292	0.96	112	NA	ND	ND	29	2	4	17	26	1.07	0.09	9	35	0.38	90	0.15	24	0.50	0.01	0.01	6	1	
A	900103	1	24	1	77	0.1	1	1	952	2.25	226	NA	ND	ND	222	1	2	2	22	20.72	0.05	1	14	9.57	6	0.01	16	0.15	0.01	0.01	2	2	
A	900104	1	1	1	35	0.1	1	1	1195	1.64	10	NA	ND	ND	249	1	2	2	13	23.16	0.04	1	8	9.07	5	0.01	5	0.11	0.01	0.01	2	2	
A	900105	1	15	23	2438	0.1	6	6	880	29.12	97	NA	ND	ND	6	22	19	49	16	0.30	0.04	1	197	8.15	24	0.01	25558	0.25	0.01	0.01	9	1	
A	900106	1	798	24	1606	0.1	9	8	941	28.93	125	NA	ND	ND	8	16	5	49	15	0.75	0.05	1	199	7.12	25	0.01	11546	0.18	0.01	0.01	3	1	
A	900107	1	54	32	198	0.1	5	6	852	29.89	345	NA	ND	ND	40	13	29	46	12	0.31	0.03	1	210	10.70	26	0.01	10640	0.25	0.01	0.01	3	1	
A	900108	2	313	39	8432	0.1	9	13	1146	31.13	85	NA	ND	ND	6	82	10	63	13	0.29	0.03	2	215	2.78	22	0.01	3192	0.09	0.01	0.01	12	1	
A	900109	1	3	6	307	0.1	3	1	896	25.77	225	NA	ND	ND	4	7	11	7	17	0.11	0.05	1	170	11.97	24	0.01	40019	0.26	0.01	0.01	3	1	
A	900110	2	315	13	8806	0.1	4	1	960	27.38	67	NA	ND	ND	4	65	2	26	11	0.33	0.03	1	184	2.57	18	0.01	2411	0.15	0.01	0.01	11	1	
A	900111	1	45	16	5023	0.1	4	1	826	24.75	156	NA	ND	ND	24	39	4	17	14	2.53	0.05	1	169	9.10	19	0.03	9706	0.63	0.01	0.01	9	1	
A	900112	1	74	7	160	0.1	4	1	948	25.72	50	NA	ND	ND	3	7	4	17	46	0.12	0.07	1	182	8.53	22	0.06	253	1.30	0.01	0.01	1	2	
A	900113	1	45	13	163	0.1	5	14	1404	32.63	42	NA	ND	ND	2	12	4	48	28	0.01	0.03	1	226	1.52	24	0.01	42	0.20	0.01	0.01	1	1	
A	900114	1	1623	18	234	1.0	5	17	1252	29.35	773	NA	ND	ND	130	15	4	40	11	8.51	0.05	1	202	3.22	25	0.01	692	0.24	0.01	0.01	1	2	
A	900115	1	34	10	46	0.4	2	1	1039	2.31	421	NA	ND	ND	115	1	3	2	15	15.48	0.07	10	35	2.44	494	0.01	14	0.38	0.01	0.01	1	1	
A	900116	17	4672	52	526	27.5	51	142	518	18.91	1615	NA	ND	ND	12	4	3	26	22	2.11	0.06	1	143	0.10	26	0.06	2310	0.49	0.01	0.01	119	1	
A	900117	4	231	13	31	0.9	6	5	147	4.33	11	NA	ND	ND	22	1	2	6	154	0.31	0.07	4	51	0.74	38	0.12	238	0.99	0.01	0.01	1	2	
A	900118	1	402	7	41	0.2	24	19	218	6.34	15	NA	ND	ND	67	1	2	2	208	1.47	0.11	2	98	1.48	55	0.25	699	3.32	0.01	0.01	1	4	
A	900119	25	1566	42	71	2.4	31	366	198	22.74	260	NA	ND	ND	13	5	2	54	10	0.29	0.04	5	166	0.02	17	0.02	3299	0.17	0.01	0.01	15	1	
A	900120	27	598	72	35	2.0	20	63	242	7.60	183	NA	ND	ND	35	1	8	39	35	0.85	0.07	8	74	0.14	70	0.13	524	0.46	0.01	0.01	8	1	
A	900121	3	13600	53	280	36.3	13	52	711	6.74	125	NA	ND	ND	5	9	4	13	274	40	0.34	0.06	17	103	0.04	294	0.01	147	0.35	0.01	0.01	17	1
A	900122	3	243	32	32	1.6	22	12	300	4.95	28	NA	ND	ND	79	1	2	36	144	1.16	0.11	10	69	1.01	72	0.30	210	2.43	0.01	0.01	1	3	
A	900123	1	106	19	5854	0.2	8	1	1035	22.79	118	NA	ND	ND	7	30	15	40	55	0.13	0.06	2	165	15.04	93	0.06	22712	0.95	0.01	0.01	21	2	
A	900124	1	157	18	202	0.1	5	1	632	13.08	115	NA	ND	ND	115	4	2	27	34	17.36	0.04	2	89	7.86	22	0.01	164	0.16	0.01	0.02	75	2	
A	900125	2	49	37	1357	0.1	9	16	918	29.21	87	NA	ND	ND	54	17	2	71	20	1.26	0.04	4	204	5.37	25	0.01	534	0.23	0.01	0.01	28	1	
A	900126	22	61	1	113	0.1	10	1	1505	5.92	48	NA	ND	ND	121	1	2	2	7	17.77	0.04	3	68	7.30	26	0.01	108	0.10	0.01	0.01	2	1	
A	900127	1	17	4	5163	0.1	4	3	756	1.89	241	NA	ND	ND	6	125	30	2	2	23	21.84	0.06	4	18	10.24	10	0.02	631	0.46	0.01	0.05	11	2
A	900128	3	224	30	60	0.6	5	10	331	4.97	65	NA	ND	ND	5	84	1	4	33	60	2.68	0.12	13	43	0.32	18	0.16	318	0.90	0.01	0.03	8	2

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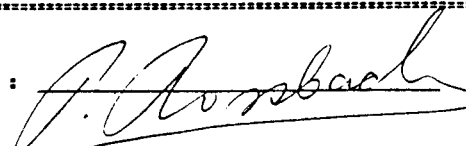
CERTIFICATE OF ANALYSIS

TO : A&M EXPLORATION LTD.  
#714-850 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : 504  
TYPE OF ANALYSIS : ICP

CERTIFICATE # : 89218  
INVOICE # : 90391  
DATE ENTERED : 89-07-21  
FILE NAME : A&MB9218.I  
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM MO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CD	PPM MN	PPM FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	PPM CA	PPM P	PPM LA	PPM CR	PPM MG	PPM BA	PPM TI	PPM B	PPM AL	PPM MA	PPM SI	PPM W	PPM BE
S	951001	2	80	20	158	0.2	26	19	1559	5.96	458	NA	ND	ND	24	1	2	2	217	0.96	0.10	4	61	0.94	109	0.20	7	2.35	0.01	0.01	2	4
S	951002	6	337	8	94	0.6	49	72	2335	9.41	321	NA	ND	ND	36	1	2	2	200	0.97	0.12	5	78	0.83	50	0.31	5	2.21	0.01	0.03	2	4
S	950113	2	124	18	91	0.2	39	22	1182	6.51	122	NA	ND	ND	28	1	2	2	139	0.67	0.09	7	79	0.77	78	0.13	5	2.88	0.01	0.02	2	3
S	951004	7	399	56	107	1.1	39	96	2480	8.46	340	NA	ND	ND	18	1	2	2	139	0.45	0.20	6	93	0.59	55	0.15	13	2.71	0.01	0.03	2	3
S	951005	1	86	4	166	0.3	15	17	1616	9.26	65	NA	ND	ND	4	1	2	2	364	0.13	0.05	1	78	3.00	102	0.39	5	4.14	0.01	0.01	2	5
S	951006	1	45	40	172	0.4	19	13	3119	7.61	173	NA	ND	ND	16	1	2	2	243	0.39	0.12	4	80	1.04	137	0.19	5	2.61	0.01	0.01	2	4
S	951007	1	130	32	154	0.5	34	36	3676	6.53	257	NA	ND	ND	23	1	2	2	178	0.56	0.15	9	90	0.99	136	0.09	5	2.84	0.01	0.01	2	3
S	951008	1	172	24	218	0.3	20	30	3529	7.81	367	NA	ND	ND	32	1	2	6	203	0.94	0.16	8	72	0.63	154	0.04	5	2.59	0.01	0.01	2	3
S	951009	1	1219	1	157	1.2	11	68	3181	12.35	446	NA	ND	ND	17	1	2	14	232	0.89	0.13	4	83	0.24	451	0.01	5	0.92	0.01	0.03	2	3
S	951010	1	2075	1	154	1.9	15	70	3369	11.32	49	NA	ND	ND	10	1	2	2	245	0.09	0.13	3	84	0.34	195	0.01	5	1.35	0.01	0.02	2	4
S	951011	1	263	10	190	0.2	10	7	1296	10.92	24	NA	ND	ND	16	1	2	19	273	0.30	0.15	5	80	0.25	305	0.01	5	1.30	0.01	0.02	2	4
S	951012	1	602	13	150	0.7	17	14	1469	9.80	42	NA	ND	ND	18	1	2	18	230	0.29	0.10	5	84	0.44	331	0.02	5	1.65	0.01	0.02	2	3
S	951013	1	687	13	128	0.1	12	25	2448	10.00	19	NA	ND	ND	17	1	2	86	250	0.35	0.11	5	78	0.26	365	0.02	5	1.40	0.01	0.02	2	4
S	951014	1	170	11	99	0.3	23	8	965	7.31	87	NA	ND	ND	15	1	2	7	159	0.13	0.09	5	85	0.61	95	0.08	5	2.74	0.01	0.01	2	3
S	951015	1	1478	17	120	1.0	45	29	1000	6.77	119	NA	ND	ND	19	1	2	28	146	0.23	0.05	18	92	1.16	222	0.08	5	2.98	0.01	0.01	2	3
S	951016	1	1063	21	121	0.7	30	10	886	7.81	70	NA	ND	ND	17	1	2	62	187	0.18	0.07	7	90	0.93	138	0.07	5	3.07	0.01	0.01	2	3
S	951017	1	76	16	79	0.2	21	9	975	5.04	73	NA	ND	ND	17	1	2	2	141	0.24	0.08	6	73	0.53	98	0.08	5	2.34	0.01	0.01	2	2
S	951018	1	135	12	94	0.2	15	36	4844	9.76	215	NA	ND	ND	56	1	2	25	143	1.31	0.17	8	73	0.25	1122	0.01	5	1.89	0.01	0.02	2	3
S	951019	1	260	16	139	0.1	21	40	5817	10.42	254	NA	ND	ND	31	1	2	4	226	0.64	0.25	12	83	0.60	770	0.02	5	2.28	0.01	0.01	2	4
S	951020	1	640	17	133	0.5	15	30	4644	7.78	61	NA	ND	ND	29	1	2	28	145	0.47	0.22	19	64	0.53	620	0.02	5	2.36	0.01	0.02	2	3
S	951021	2	1914	17	153	1.0	16	46	3018	10.34	99	NA	ND	ND	19	1	2	82	172	0.58	0.11	16	76	0.24	674	0.01	5	1.05	0.01	0.03	2	3
S	951022	1	240	2	130	0.6	10	6	1193	10.89	14	NA	ND	ND	8	1	2	16	225	0.04	0.12	4	78	0.35	126	0.02	5	2.06	0.01	0.02	2	3
S	951023	1	688	4	129	0.6	8	20	1438	13.54	47	NA	ND	ND	5	1	2	18	233	0.05	0.15	7	91	0.17	130	0.01	5	1.26	0.01	0.04	2	4
S	951024	1	2205	10	168	3.8	21	101	3052	15.27	278	NA	ND	ND	8	1	2	56	247	0.10	0.19	7	105	0.22	198	0.01	5	1.39	0.01	0.03	2	4
S	951025	1	192	34	126	0.6	17	28	3379	8.19	117	NA	ND	ND	18	1	2	2	186	0.31	0.13	5	69	0.73	156	0.05	5	2.36	0.01	0.01	2	3
S	951026	1	147	5	149	0.4	15	61	14156	8.35	272	NA	ND	ND	30	1	2	2	247	0.85	0.15	4	66	0.81	454	0.08	5	2.75	0.01	0.01	2	4
S	951027	1	82	1	124	0.5	9	11	2948	6.80	48	NA	ND	ND	13	1	2	2	230	0.23	0.14	1	60	0.78	98	0.11	12	2.38	0.01	0.01	2	4
S	951028	1	81	1	373	0.2	9	12	1507	7.60	181	NA	ND	ND	36	1	2	2	247	1.30	0.09	1	61	1.87	163	0.12	5	3.19	0.01	0.01	2	4
S	951029	1	230	14	387	0.8	30	57	5784	7.49	224	NA	ND	ND	49	5	2	6	156	1.27	0.19	11	68	0.63	142	0.04	15	2.15	0.01	0.01	2	3
S	951030	2	110	10	115	0.1	33	22	1468	7.53	383	NA	ND	ND	25	1	2	2	283	0.76	0.09	4	67	1.50	115	0.37	5	3.72	0.01	0.01	2	4
S	951031	1	308	27	107	0.9	55	36	2167	9.70	847	NA	ND	ND	48	1	2	7	261	1.12	0.11	12	87	1.33	114	0.24	5	2.82	0.01	0.04	2	4
S	951032	12	185	21	154	0.5	36	17	1744	8.92	437	NA	ND	ND	51	1	2	2	220	1.13	0.13	11	78	0.87	222	0.10	12	2.52	0.01	0.03	3	4
S	951033	1	322	7	154	0.6	25	35	2139	10.11	239	NA	ND	ND	24	1	2	2	266	0.96	0.11	9	82	1.50	142	0.09	9	2.45	0.01	0.02	2	4
S	951034	1	111	50	442	0.1	50	9	903	6.63	486	NA	ND	ND	24	1	2	2	166	0.31	0.05	7	86	1.54	187	0.09	5	4.00	0.01	0.02	2	3
S	951035	15	554	124	323	0.7	64	60	1769	10.25	1174	NA	ND	ND	20	2	2	7	103	0.40	0.11	14	110	0.88	130	0.06	9	2.82	0.01	0.01	2	3
S	951036	5	127	13	295	0.5	28	8	406	4.61	93	NA	ND	ND	19	1	2	2	93	0.20	0.09	9	70	0.79	86	0.06	14	2.50	0.01	0.01	2	2
S	951037	5	83	27	178	0.1	12	11	610	6.88	183	NA	ND	ND	19	1	2	2	77	0.25	0.13	8	59	0.41	136	0.05	25	2.05	0.01	0.01	2	2
S	951038	7	104	20	252	0.1	64	22	1815	7.15	1542	NA	ND	ND	30	1	2	2	110	0.59	0.14	14	79	0.84	111	0.05	19	2.41	0.01	0.02	2	3
S	951039	3	84	1	106	0.1	45	15	927	4.98	289	NA	ND	ND	63	1	2	2	58	0.82	0.13	2	44	0.38	69	0.07	8	2.37	0.01	0.05	1	2
S	951040	4	72	8	152	0.3	22	19	4645	4.58	100	NA	ND	5	23	1	2	2	117	0.14	0.11	8	55	0.44	154	0.06	18	2.14	0.01	0.01	1	2

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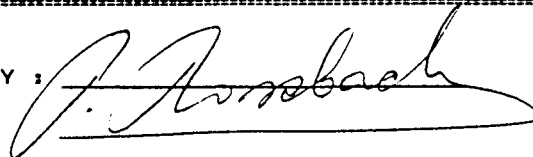
CERTIFICATE OF ANALYSIS

TO : A&M EXPLORATION LTD.  
#714-850 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : 504  
TYPE OF ANALYSIS : ICP

CERTIFICATE # : 89218  
INVOICE # : 90391  
DATE ENTERED : 89-07-21  
FILE NAME : A&M89218.I  
PAGE # : 3

PRE FIX	SAMPLE NAME	PPM MO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CO	PPM MN	I FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	I CA	I P	PPM LA	PPM CR	I MG	PPM BA	I TI	PPM B	I AL	I NA	I SI	PPM W	PPM BE
S	951041	1	101	14	162	0.3	21	18	1213	4.17	197	NA	ND	ND	73	1	2	2	111	0.70	0.11	13	37	0.62	129	0.09	5	2.30	0.01	0.02	1	2
S	951042	1	101	16	206	0.2	35	4	862	5.59	334	NA	ND	ND	26	1	2	2	114	0.30	0.07	3	81	0.80	146	0.05	5	2.20	0.01	0.01	1	2
S	951043	1	144	5	291	0.4	39	6	1714	6.48	1189	NA	ND	ND	22	1	2	2	142	0.23	0.12	7	94	0.89	166	0.07	5	3.35	0.01	0.02	1	2
S	951044	1	99	5	412	0.6	45	1	796	5.18	203	NA	ND	ND	18	1	2	2	110	0.19	0.06	7	88	1.22	84	0.08	7	3.35	0.01	0.02	1	2
S	951045	1	107	1	215	0.2	14	3	1788	8.04	52	NA	ND	ND	6	1	2	2	315	0.08	0.08	3	72	2.63	92	0.26	5	3.78	0.01	0.01	1	5
S	951046	1	61	3	231	0.1	29	1	690	4.35	176	NA	ND	ND	20	1	2	2	113	0.27	0.11	7	70	0.84	108	0.04	13	2.90	0.01	0.01	1	2
S	951047	1	106	1	156	0.1	17	4	1397	7.24	73	NA	ND	ND	13	1	2	2	276	0.36	0.07	5	69	1.88	111	0.22	5	3.16	0.01	0.01	1	4
S	951048	1	126	1	168	0.1	10	2	1558	8.45	45	NA	ND	ND	4	1	2	2	331	0.03	0.07	1	67	2.36	56	0.18	5	3.74	0.01	0.01	1	5
S	951049	1	71	1	130	0.1	43	1	381	4.49	56	NA	ND	ND	26	1	2	2	121	0.60	0.05	3	86	1.05	86	0.09	5	2.51	0.01	0.01	1	2
S	951050	8	46	5	247	0.3	17	1	711	3.60	87	NA	ND	ND	18	1	2	6	109	0.16	0.07	1	62	0.50	68	0.06	5	2.18	0.01	0.01	1	2
S	951051	3	45	1	356	0.2	15	1	458	3.66	76	NA	ND	ND	17	1	2	3	122	0.11	0.06	1	60	0.56	51	0.08	5	2.46	0.01	0.01	1	2
S	951052	17	163	48	197	0.8	18	13	982	6.82	1762	NA	ND	ND	13	1	2	59	144	0.18	0.07	2	74	0.35	65	0.03	5	2.02	0.01	0.01	1	2
S	951053	28	298	28	146	1.1	15	1	534	7.42	382	NA	ND	ND	14	1	2	27	140	0.10	0.08	1	83	0.71	64	0.07	8	3.41	0.01	0.02	1	2
S	951054	22	184	33	134	1.0	21	1	439	6.23	191	NA	ND	ND	15	1	2	26	128	0.13	0.08	2	89	0.69	47	0.08	5	2.39	0.01	0.01	1	2
S	951055	3	177	2	130	0.4	17	1	208	4.16	56	NA	ND	ND	8	1	2	13	139	0.08	0.07	6	62	0.82	30	0.05	5	3.45	0.01	0.02	1	2
S	951056	6	318	23	425	1.0	46	27	1141	6.44	1133	NA	ND	ND	19	1	2	32	102	0.22	0.06	11	86	1.05	85	0.08	5	2.96	0.01	0.01	1	2
S	951057	81	1131	254	433	3.3	42	88	6086	11.18	1434	NA	ND	ND	27	3	2	48	114	0.67	0.10	1	113	0.64	201	0.07	5	1.96	0.01	0.01	1	3
S	951058	93	4390	370	405	12.7	52	242	7369	15.56	1764	NA	ND	ND	46	6	2	80	104	0.93	0.10	1	124	0.78	99	0.12	5	2.17	0.01	0.05	1	3
S	951059	85	1095	258	232	9.5	23	73	3357	19.38	1841	NA	ND	ND	11	6	2	100	77	0.22	0.09	1	165	0.32	58	0.08	66	0.92	0.01	0.02	1	2
S	951060	10	116	103	264	1.2	20	3	1218	7.12	609	NA	ND	ND	23	1	2	19	111	0.25	0.05	6	85	0.50	94	0.08	5	1.71	0.01	0.01	1	2
S	951061	1	72	1	134	0.3	26	3	852	4.04	124	NA	ND	ND	113	1	2	14	97	1.80	0.08	6	55	0.95	72	0.05	5	3.51	0.01	0.05	1	2
S	951062	9	61	28	252	0.4	21	11	2060	5.94	626	NA	ND	ND	24	1	2	15	136	0.21	0.05	7	81	0.45	103	0.08	5	1.91	0.01	0.01	1	2
S	951063	1	125	27	151	0.3	19	19	2606	7.46	205	NA	ND	ND	64	2	2	24	172	0.76	0.07	7	70	0.58	126	0.11	5	2.33	0.01	0.02	1	3
S	951064	4	105	13	124	0.3	27	13	1203	5.84	220	NA	ND	ND	46	1	2	15	151	0.42	0.05	7	60	0.47	82	0.08	5	2.22	0.01	0.01	1	2
S	951065	1	157	58	421	0.5	45	14	1415	6.54	180	NA	ND	ND	33	2	2	12	135	0.38	0.06	11	84	0.82	98	0.07	5	3.01	0.01	0.02	1	3
S	951066	1	127	51	2502	0.9	38	1	612	6.45	466	NA	ND	ND	41	6	2	15	119	0.82	0.08	18	87	1.35	107	0.07	5	2.48	0.01	0.01	1	2
S	951067	1	147	1	595	0.5	22	6	1910	6.71	68	NA	ND	ND	29	1	2	11	232	0.29	0.05	7	78	0.92	288	0.07	5	3.86	0.01	0.01	1	3
S	951068	1	78	16	470	0.2	21	4	1378	6.18	78	NA	ND	ND	14	2	2	10	178	0.11	0.04	6	76	0.82	91	0.06	5	2.57	0.01	0.01	1	3
S	951069	3	76	42	373	0.2	41	7	985	5.34	92	NA	ND	ND	26	1	2	11	113	0.33	0.04	12	80	0.82	156	0.15	5	2.65	0.01	0.01	1	3

CERTIFIED BY :



**APPENDIX II**

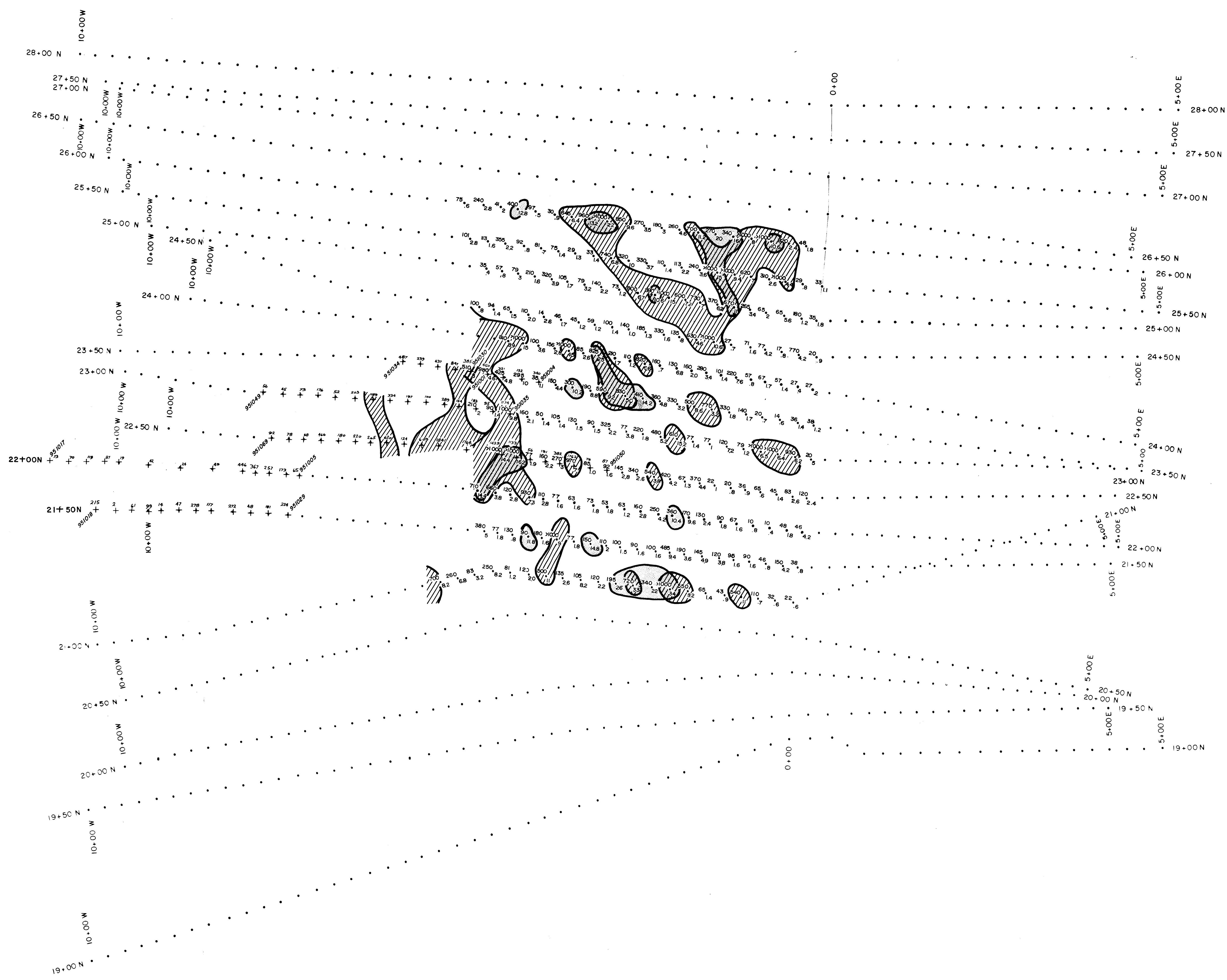
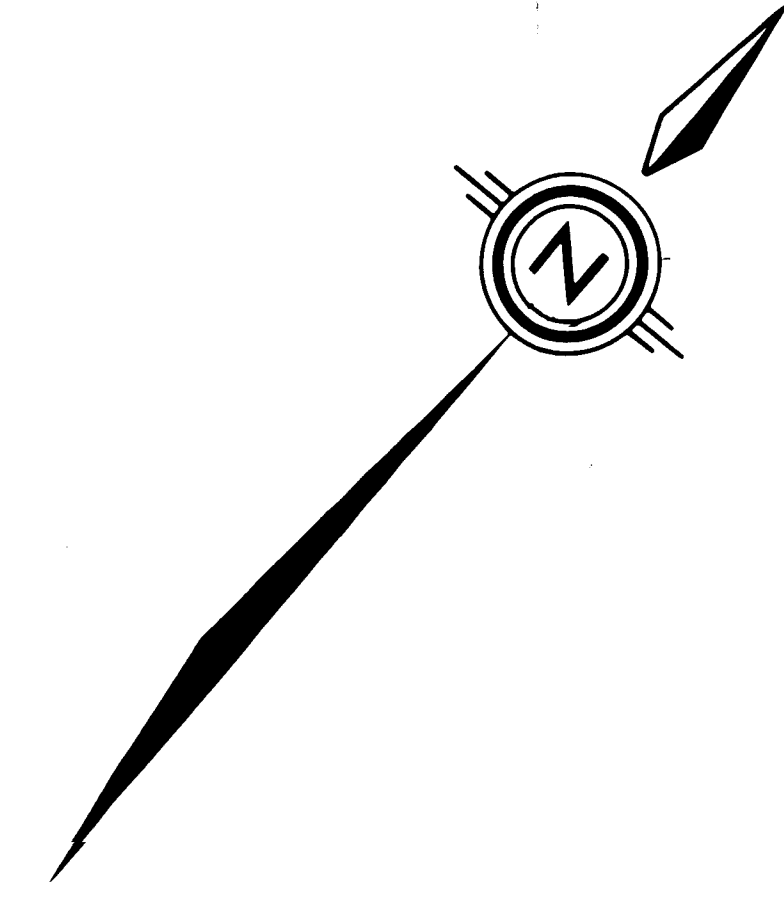
**Affidavit of Expenses**

AFFIDAVIT OF EXPENSES

This will certify that prospecting, rock and soil sampling was carried out on the Barb Property, Atlin Mining Division, British Columbia to the value of the following:

Salaries

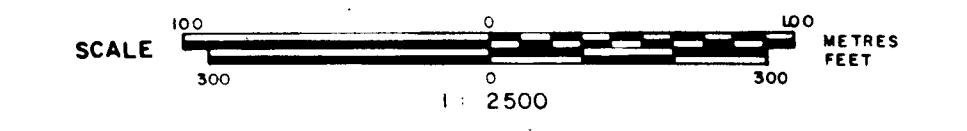
Tor Bruland, Consulting Geologist		\$ 3,200.00
A. Jackson, Exploration Manager		400.00
M. Murrell, Assistant		800.00
Camp Transportation		361.20
Groceries		98.30
Radio Rental		60.00
Field Supplies		71.36
Helicopter - Atlin/King Salmon Lake		1,765.38
Airfare - Vancouver/Whitehorse	3 people @ \$734/person	2,202.00
Assays	40 rock @ \$15.25	610.00
	69 soil @ \$12.75	<u>879.75</u>
		10,447.99
Drafting, Typing, Compilation, Printing etc.		<u>400.00</u>
	<b>TOTAL</b>	<b>\$10,847.99</b>



**LEGEND.**  
As (ppm)  
Sb (ppm)  
○ Sb > 10 ppm  
▨ As > 5000 ppm

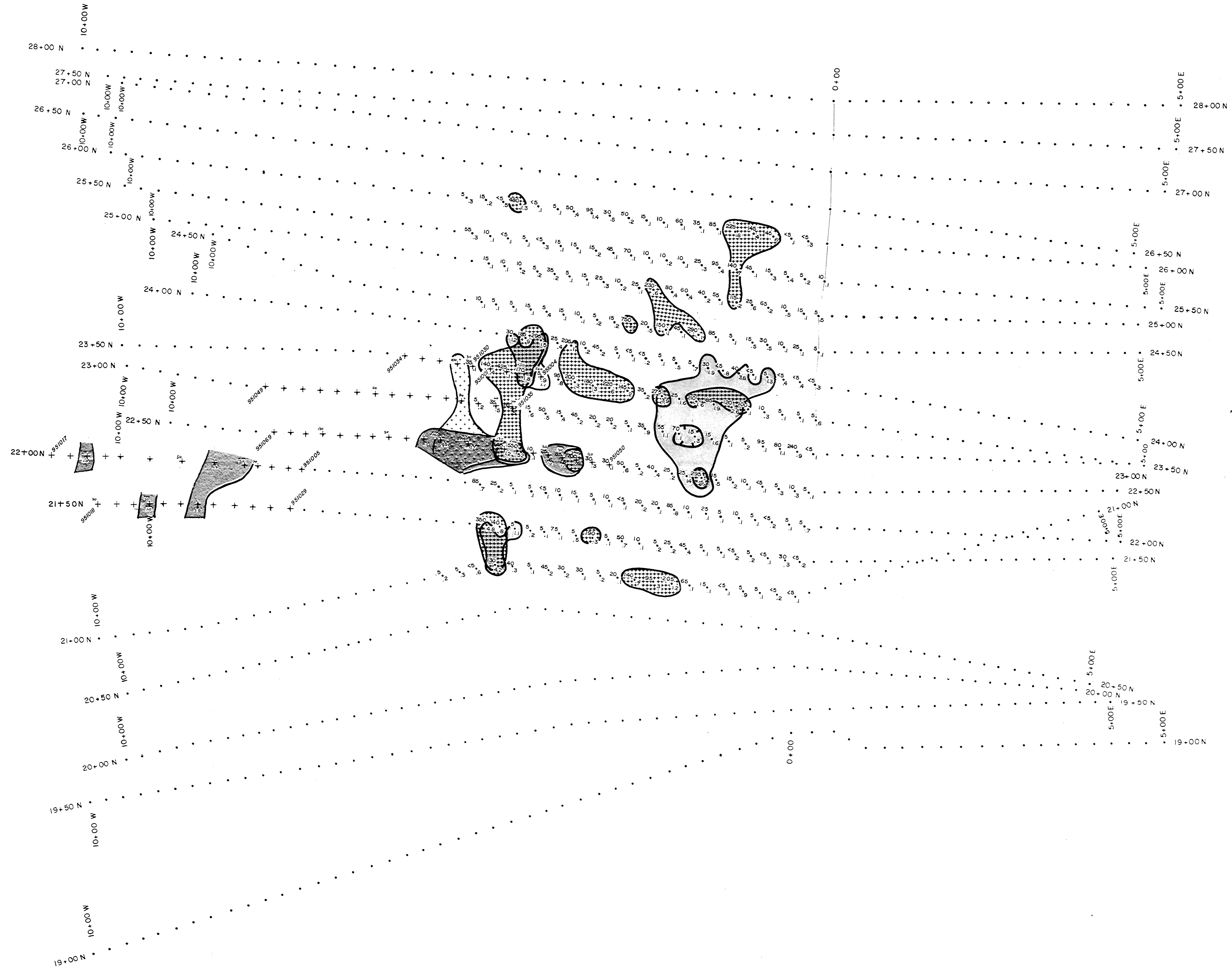
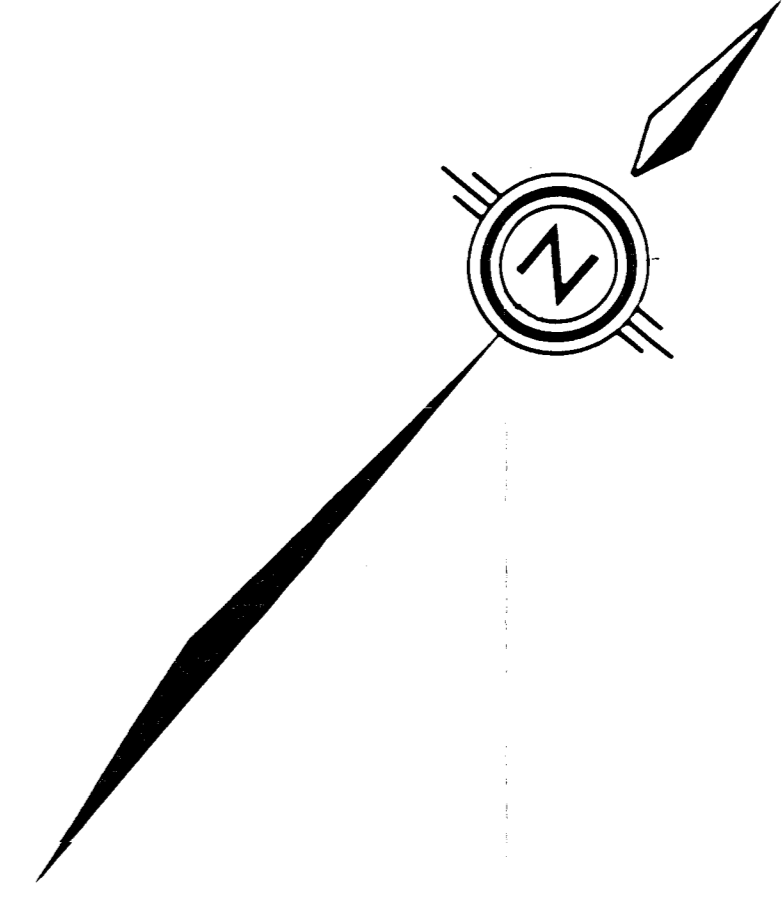
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**18,945**  
As  
Sb  
1989 Soil sample, ppm Sb, ppm As.



**BARB CLAIMS  
SOIL GEOCHEMISTRY**  
As-ppm Sb-ppm

FIGURE No. <b>6</b>	PRINTING No. <b>504</b>
DATE <b>JULY, 1989</b>	
BY <b>IO4 K/IO, 15</b>	
BY <b>T.B.</b>	

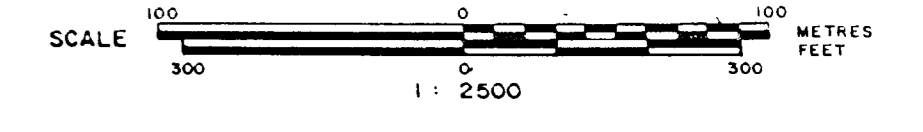


**LEGEND**

- Au (ppb)
- Ag (ppm)
- Au > 100 ppb
- Ag > 1 ppm
- Au<sub>100</sub>Ag<sub>1</sub> 1989 Soil sample, ppb Au, ppm Ag.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

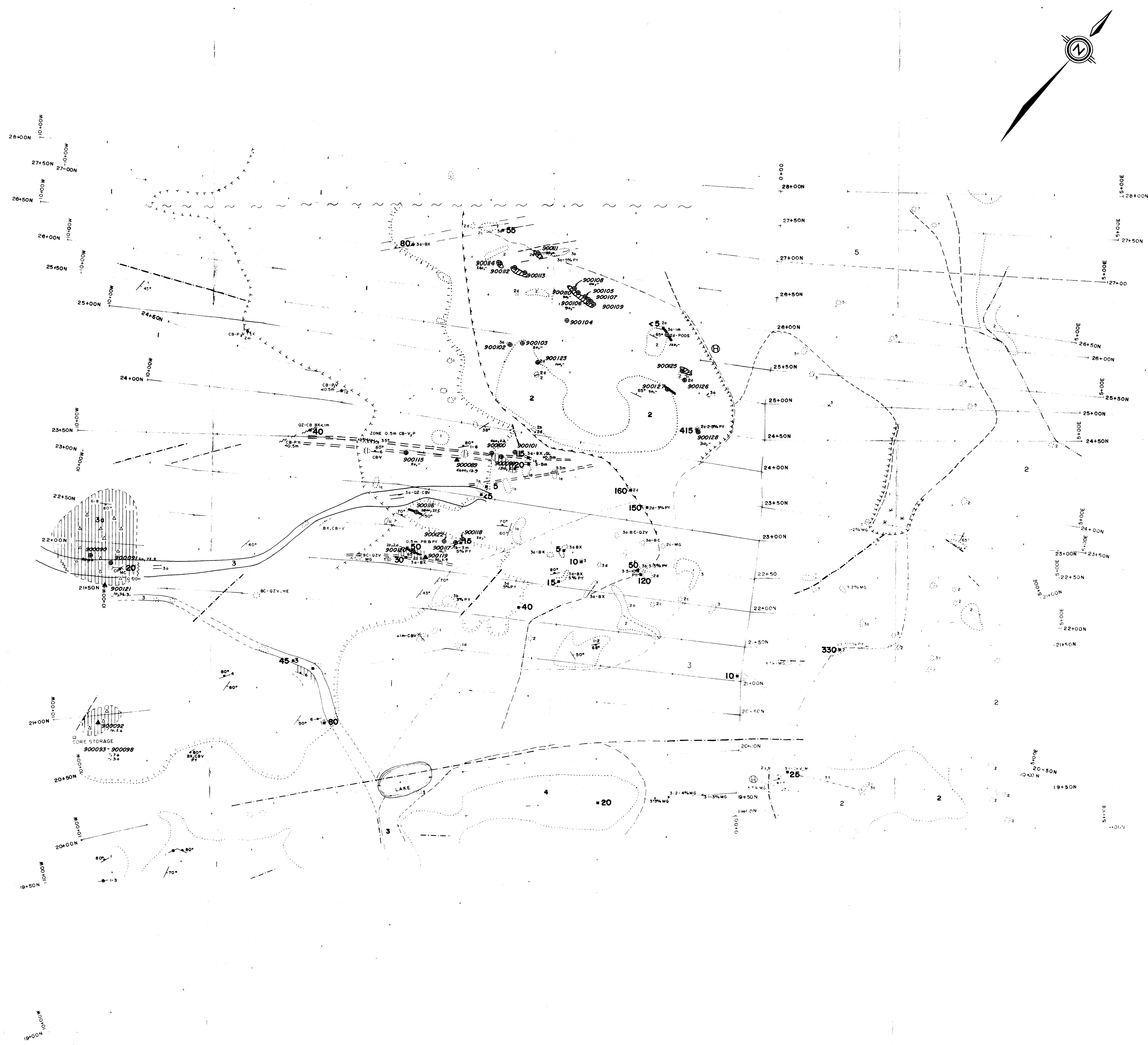
**18,945**



**BARB CLAIMS  
SOIL GEOCHEMISTRY  
Au-ppb, Ag-ppm**

FIGURE No	5	PROJECT No	504
DATE	JULY, 1989		
SHEET	104K/10, 5		
PROJECT	T.B.		





**LEGEND**

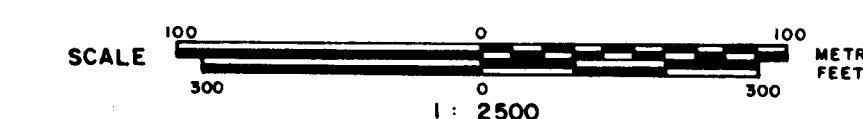
- CENOZOIC** **PLEISTOCENE**
- 5 GLACIAL TILL
- MESOZOIC** **JURASSIC AND/OR CRETACEOUS**
- POST MIDDLE JURASSIC**
- 4 QUARTZ DIORITE - LIGHT GRAY, INEQUIGRANULAR, MEDIUM GRAINED WITH 15-20% HORNBLLENDE-BIOTITE
  - 3 QUARTZ DIORITE PORPHYRY - FINE TO MEDIUM GRAINED FELDSPAR, HORNBLLENDE-BIOTITE, MINOR QUARTZ PHENOCRYSTS
  - 3a QUARTZ FELDSPAR PORPHYRY
  - 3b QUARTZ FELDSPAR BIOTITE PORPHYRY
- TRIASSIC**
- UPPER TRIASSIC**
- SINWA FORMATION**
- 2 LIMESTONE - WHITE, LIGHT GRAY, WEATHERING THICK BEDDED, MINOR NARROW CHERT BEDS, RARE INTERFORMATIONAL BRECCIA
  - 2a STRONG PERSASIVE BROWN DOLOMITIZATION
  - 2b INTERFORMATIONAL BRECCIA - NARROW BEDS, UP TO 10cm WHITE & BLACK CHERT CLASTS
  - 2c SKARN - EPIDOTE, DIOPSIDE, TREMOLITE IN CALCITE MATRIX, TREMOLITE OFTEN ASSOCIATED WITH MASSIVE MAGNETITE
  - 2d MAGNETITE - MASSIVE ZONES OFTEN ASSOCIATED WITH TREMOLITE, MINOR BLEBBY PYRITE NEAR CONTACTS
- STUHINI GROUP**
- KING SALMON FORMATION**
- 1 CALCAREOUS SILTSTONE AND SHALE - BROWN WEATHERING THICK BEDDED CALC-SILICATE SKARN NEAR INTRUSIVES, MINOR NARROW BEDS TUFFS, MINOR LIMESTONE
  - 1a SKARN - PALE GREEN, FINE GRAINED CALC-SILICATE, MINOR EPIDOTE IN FRACTURES
  - 1b SKARN - FINE GRAINED, DARK GREEN DIOPSIDE AND EPIDOTE
  - 1c LIMESTONE - DARK GRAY, THIN BEDS

**SYMBOLS**

- CONTACTS - APPROXIMATE, DEFINED
  - - - FAULT - ASSUMED, DEFINED
  - TOPOGRAPHIC LINEAMENT - ASSUMED FAULT
  - BEDDING - STRIKE & DIP - INCLINED AND VERTICAL
  - JOINTS, FRACTURES, STRIKE & DIP - INCLINED AND VERTICAL AND DENSITY PER FOOT
  - OUTCROP
  - OUTCROP - AREA WITH >50% OUTCROP AND NEAR BEDROCK FLOAT
  - BRECCIA - GOSSAN IN BRECCIA WITH QUARTZ-CARBONATE VEINING
  - GOSSAN - FRACTURED WITH MINOR QUARTZ-CARBONATE VEINING
  - BREAK IN SLOPE
  - HELICOPTER PAD
  - CREEK
  - KING SALMON CREEK THRUST FAULT APPROX. DEFINED
  - 20 ROCK SAMPLE GEOCHEMISTRY (ppb Au)
  - 300116 1989 ROCK SAMPLE GEOCHEMISTRY (ppb Au, ppm Ag)
  - 300098 1989 FLOAT SAMPLE GEOCHEMISTRY (ppb Au, ppm Ag)
  - ▨ MASSIVE MAGNETITE
  - ▨ MASSIVE SULPHIDE WITH SCORODITE
- PY - PYRITE
  - MG - MAGNETITE
  - BX - BRECCIATED
  - CP - CHALCOPYRITE
  - PR - PYRRHOTITE
  - HE - HEMATITE
  - LI - LIMONITE
  - MS - SPECULARITE
  - MC - MALACHITE
  - OZ - QUARTZ
  - CB - CARBONATE
  - V - VEINLETS
  - BC - BRECCIATED-CRACKLED
  - BL - BLEACHED
  - P - PERSASIVE
  - X - FLOAT
  - TR - TRACE

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**18,945**



**AM** exploration Ltd.

**BARB CLAIMS  
GEOLOGY & ROCK GEOCHEM.**

FIGURE No. <b>4</b>	PROJECT No. <b>504</b>
DATE <b>JULY, 1989</b>	REVISIONS
NTS No. <b>104 K/10, 15</b>	
COMPILED BY <b>T.B.</b>	