BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	2001/2002
REPORT #:	PAP 01-15
NAME:	ROBERT RUSSELL

D. TECHNICAL REPORT

- One technical report to be completed for each project area.
- **Refer to Program Regulations 15 to 17, page 6.**

SUMMARY OF RESULTS

- This summary section must be filled out by all grantees, one for each project area

Information on this form is confidential for one year and is subject to the provisions of the *Freedom of Information Act.*

Name Robert M. Russell Reference Number P20

LOCATION/COMMODITIES

Project Area (as listed in Part A) 1040 0/8W MINFILE No. if applicable

Location of Project Area NTS RM Group of claims Lat 59° 25' Long 130° 20'

Description of Location and Access Access is by float plane from Watson Lake Yukon to a lake situated at the headwaters of the Cottonwood River a distance of 145KM. in a SW direction

Prospecting Assistants(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6)
Barry Dennis - has worked in the field with me For several seasons.

Main Commodities Searched For VMS - Au, Ag, Cu, Zn Pb Sedex Ag, Pb, Zn

Known Mineral Occurrences in Project Area Nil

WORK PERFORMED

1. Conventional Prospecting (area) RM Group 1400 hectares
2. Geological Mapping (hectares/scale)
3. Geochemical (type and no. of samples) 32 silt samples ; 33 Rock samples
4. Geophysical (type and line km)
5. Physical Work (type and amount) ribboning and flagging 20 staked units
6. Drilling (no. holes, size, depth in m, total m)
7. Other (specify)

FEEDBACK: comments and suggestions for Prospector Assistance Program The assistance given was very beneficial because of the unexpected increase in costs.

The Prospector Assistance Program is a valuable tool as an incentive to prospect remote areas that have mineral potential

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS

- Those submitting a copy of an Assessment Report or a report of similar quality that covers all the key elements listed below are not required to fill out this section.
- Refer to Program Regulation 17D on page 6 for details before filling this section out (use extra pages if necessary)
- **Supporting data must be submitted with the following TECHNICAL REPORT or any report accepted in lieu of.**

Information on this form is confidential for one year from the date of receipt subject to the provisions of the *Freedom of Information Act.*

Name Robert M. Russell Reference Number 2001/2002 P20

1. LOCATION OF PROJECT AREA [Outline clearly on accompanying maps of appropriate scale.]

The location of the project area is 104 0/8W at the head waters of the Cottonwood River. The RM Group of claims are situated immediately west of the lake at the headwaters of the Cottonwood River.

2. PROGRAM OBJECTIVE [Include original exploration target.]

My program objective was to prospect the area for hydrothermal alteration zones (quartz sericite schist pyritic) with follow up silt and rock sampling as well as staking claims immediately NW of the Mar claim where the geology is considered favourable for V.M.S deposits.

Lastly, to do a brief examination of the Earn GP for potential sedex mineralization

3. PROSPECTING RESULTS [Describe areas prospected and significant outcrops/float encountered. Mineralization must be described in terms of specific minerals and how they occur. These details must be shown on accompanying map(s) of appropriate scale; prospecting traverses should be clearly marked.]

The area prospected is contained within the RM group of claims. Mineralization, outcrops and float encountered are detailed in the accompanying 2001 Prospecting Report.

Several significant outcrops of hydrothermally altered pyrite rich quartz sericite schist were examined and tested. The assay results proved to be a disappointment. (10 samples were taken from the Mar claim and 5 samples from the Arm claim.

There are basically Four locations of one or more sample sites within the claim group that may be

3. PROSPECTING RESULTS (continued)

considered anomalous.
They are as follows:

1) Silt samples anomalous in ZN as well as a Cu, ZN anomaly are located along the lower slope of the east side of Mar MTN. These are for the most part seepage sites.

2) Two moss samples were taken near the headwaters of Pup 2 on the Mar claim. Sample M-1 had a return of 590ppm ZN and 4ppm Ag.

3) About 400m west of base camp (Mar claim) three small colluvial boulders of pyrite rich meta-quartzite or meta chert were sampled. All five samples are anomalous in Cu, ZN.

4) All the silt samples taken from Pup 3, Pup 4 and Pup 5 on the RAM claim are anomalous in either ZN Cu Au ± Ag or ZN only. The creek bed is floored by black graphitic argillite, siliceous argillite and slate at the above site locations representing the Earn Group.

In addition, Five rock samples of siliceous and graphitic argillite containing bands of massive pyrite up to 2cm wide were assayed.

Two of the samples were anomalous in Ag, Pb, As Mo W & Au.

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS (continued)

4. GEOCHEMICAL RESULTS [Describe all survey types done (rock, soil, silt) and their objective. Show clearly on accompanying map(s) of appropriate scale all sample sites along with all significant values. Any anomalous areas should be indicated on maps by the use of contouring, variable symbol sizes, or some other suitable technique. Include a discussion/interpretation of results. A copy of analysis/assay certificates **must** be included with sample numbers from map. Details of individual rock samples taken are encouraged. Significant geochemical values obtained must be stated.]

Rock and silt sampling were conducted on the RM group of claims to determine if any pathfinder elements relating to VMS type deposits do exist in sufficient quantity to warrant these specific sites as anomalous for a follow up survey.

Geochemical values considered anomalous are plotted on accompanying map along with all location sites for both rock and silt samples.

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS (continued)

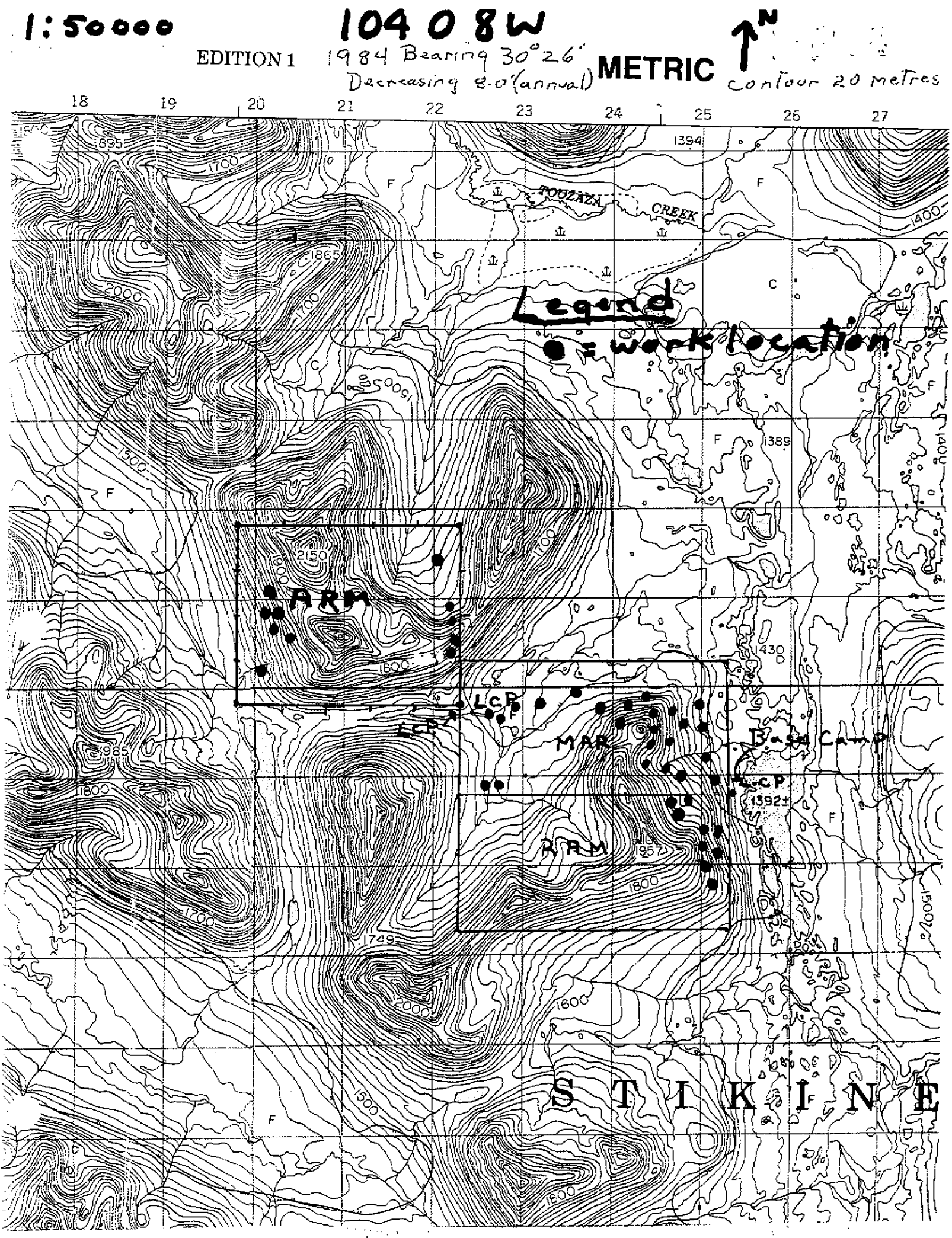
5. GEOPHYSICAL RESULTS [Specify the objective of the survey, the method used and the work done. Discuss the results and show the data on an accompanying map of appropriate scale. Any anomalous areas must be indicated on maps by the use of contouring, or some other suitable technique.]

5. OTHER RESULTS [**Drilling** - describe objective, type and amount of drilling done. Discuss results, including any significant intersections obtained. Indicate on a map of appropriate scale the drill-hole collar location, the angle of inclination and azimuth. Drill logs correlated with assay results must be included. **Physical Work** - describe the type and amount of physical work done and the reasons for doing it (where not self-evident). This includes lines/grids, trails, trenches, opencuts, undergound work, reclamation, staking of claims, etc. Discuss results where pertinent.]

Physical work comprised the staking of 20 units known as the ARM claim. Wire flag stakes were used for line.

Signature of Grantee Robert Russell Date Sept 24/01

Signature of person filling out Final Prospecting Report if other than grantee_____


1:50000
104 O 8W
EDITION 1
1984 Bearing 30°26'
Decreasing 8.0'(annual)
METRIC
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Contour 20 metres
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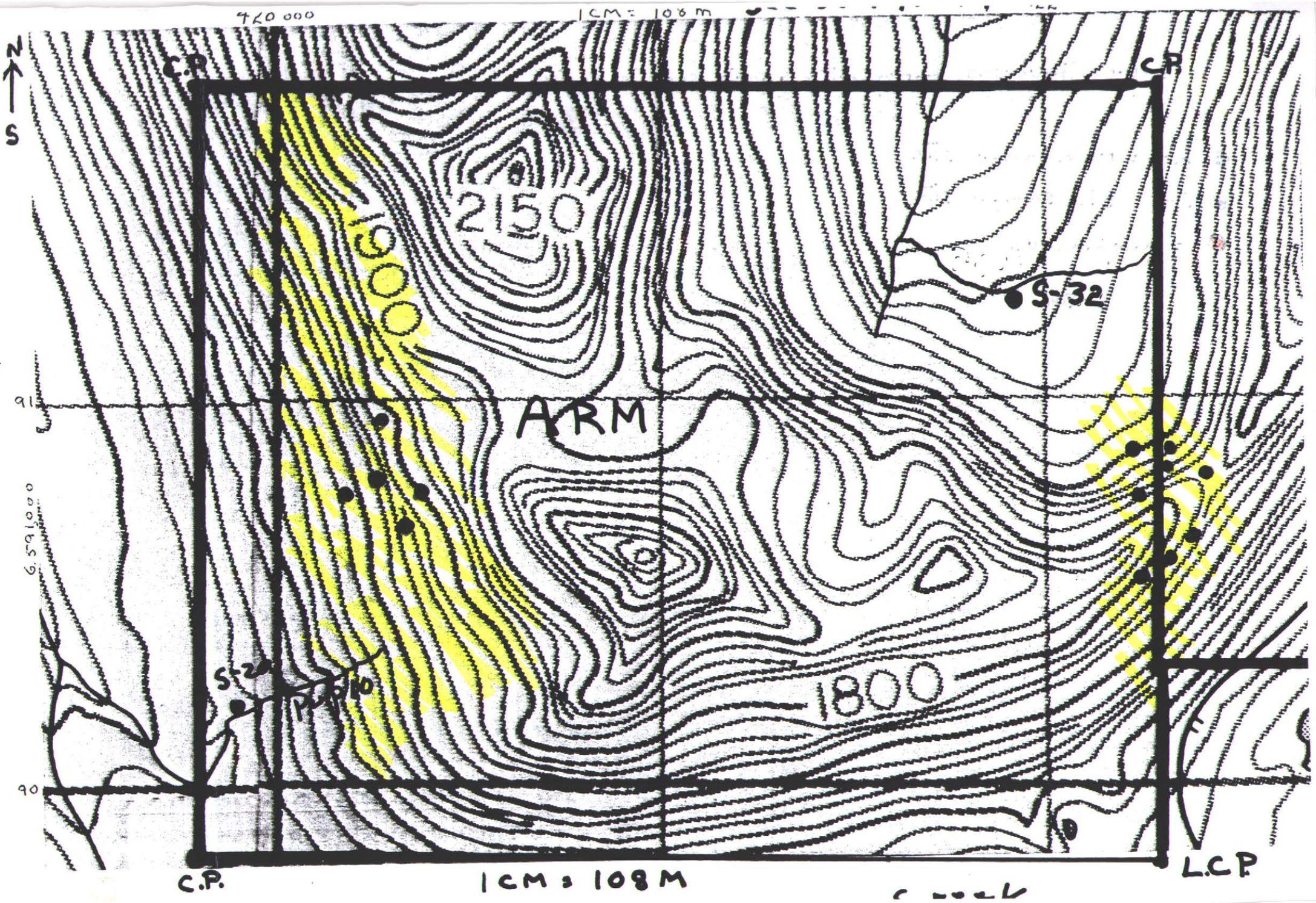
26
27
POOLAZA CREEK
Legend
= work location
ARM
LCP
LCP
MAR
Base Camp
LCP
1392±
RAM
1957
STIKINE

See Legend on back of Map



 = area traversed for pyritic quartz sericite schist of Ram Cr. Assemblage

● R-1 : rock sample site

● S-1 : silt sample site

S-32

R-31

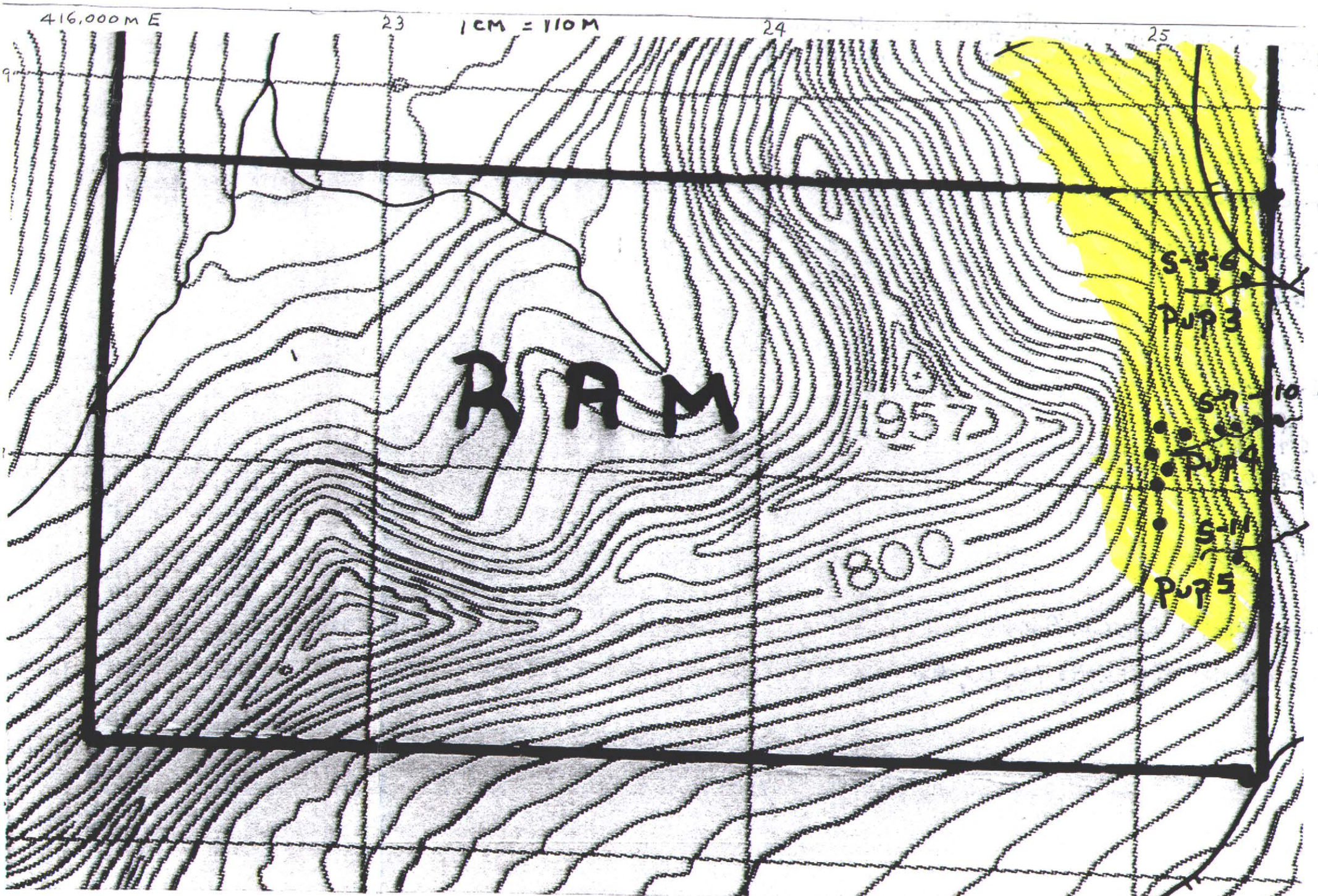
R-32

R-33

R-25

R-24

S-20

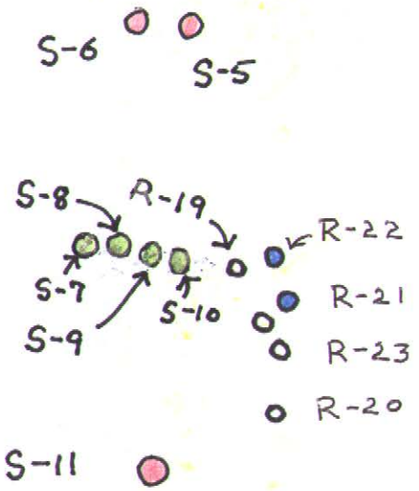

416,000 m E
23
1 CM = 110 M
24
25
N
RAM
1957
1800
S-5-6
PVP 3
S-5-7
10
PVP 4
S-11-5
PVP 5

= Traverse coverage for Earn GP. black graphitic argillite, siliceous argillite and slate

○ S-1 : silt sample site

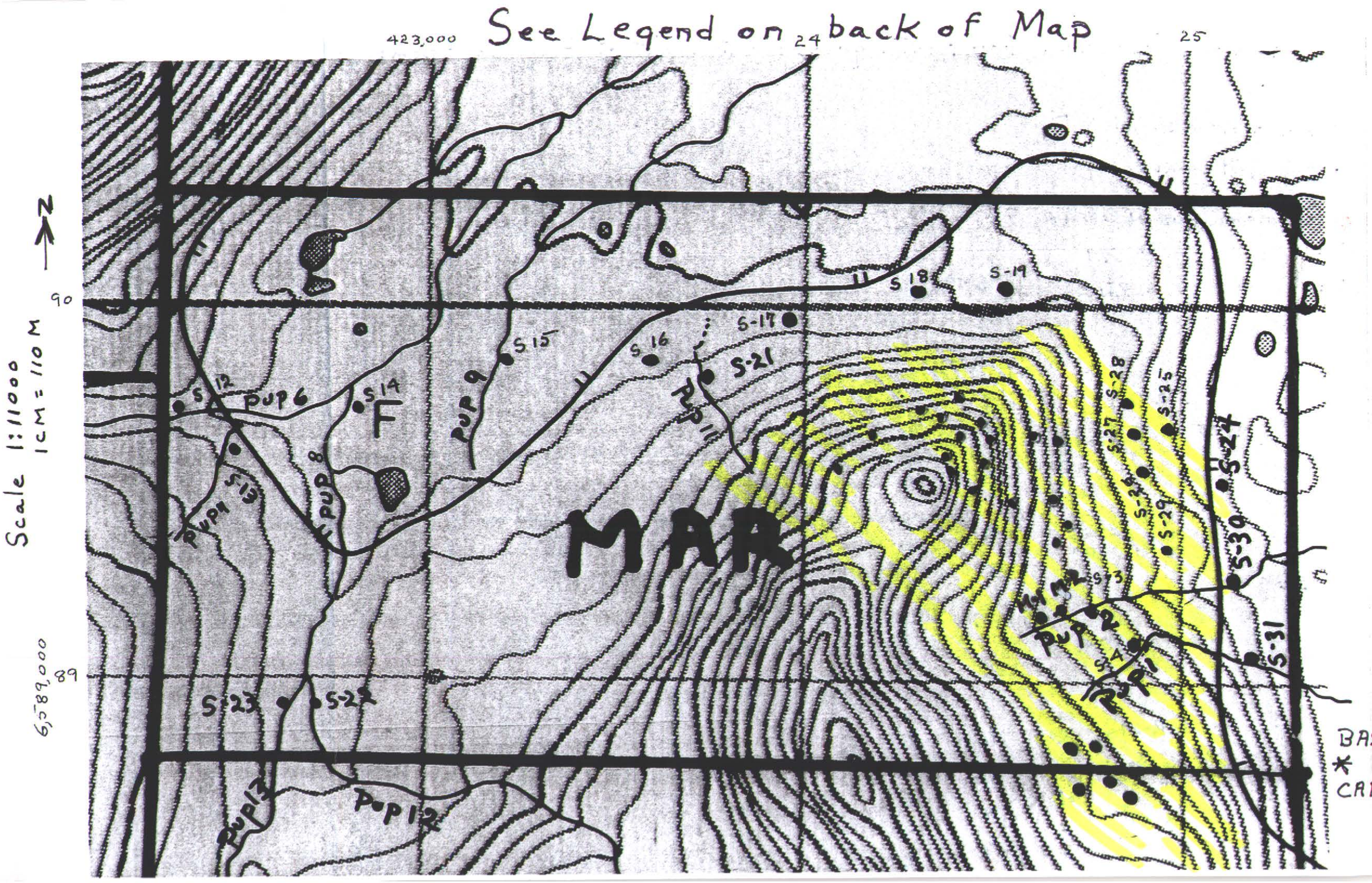
○ R-1 : rock sample site

● : anomalous in Zn



● : anomalous in Zn, Cu, Au

● : anomalous in Ag, Pb, As, Mo, W, Au


See Legend on back of Map
423,000
24
25
Scale 1:11000
1CM = 110 M
N
90
89
6,589,000
MAR
S-12
S-13
S-14
S-15
S-16
S-17
S-18
S-19
S-21
S-23
S-24
S-25
S-27
S-28
S-29
S-30
S-31
PUP6
PUP8
PUP9
PUP11
PUP12
PUP13
F
BASE
CAMP

: area traversed for pyritic quartz sericite schist of Ram Cr. Assemblage

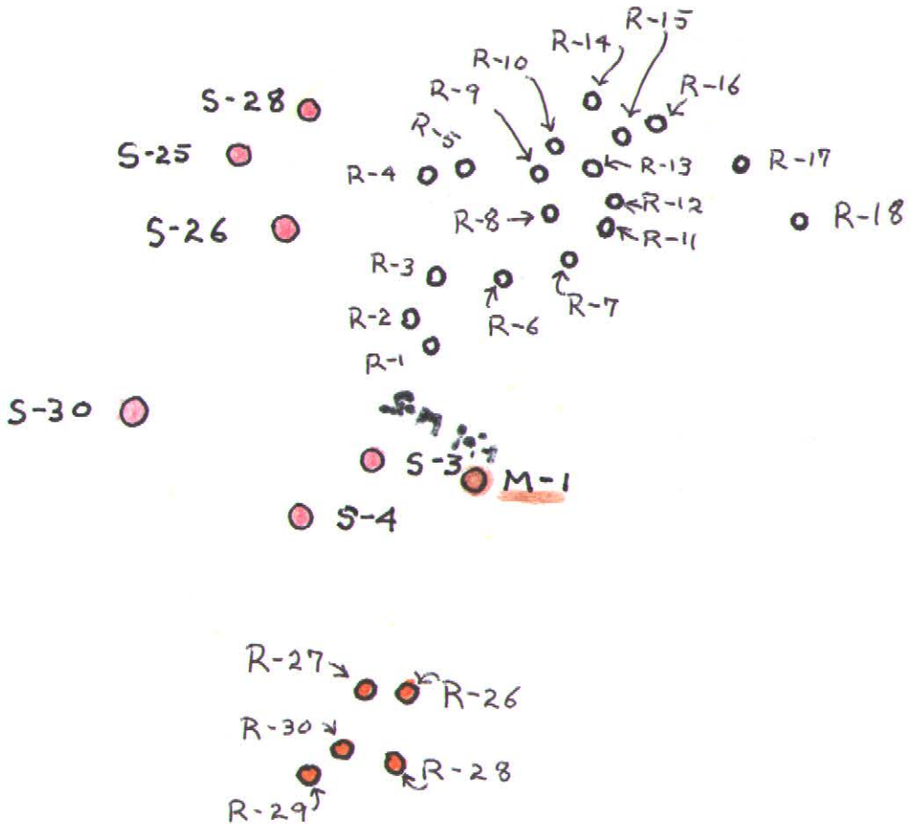
○ R-1 : Rock sample site

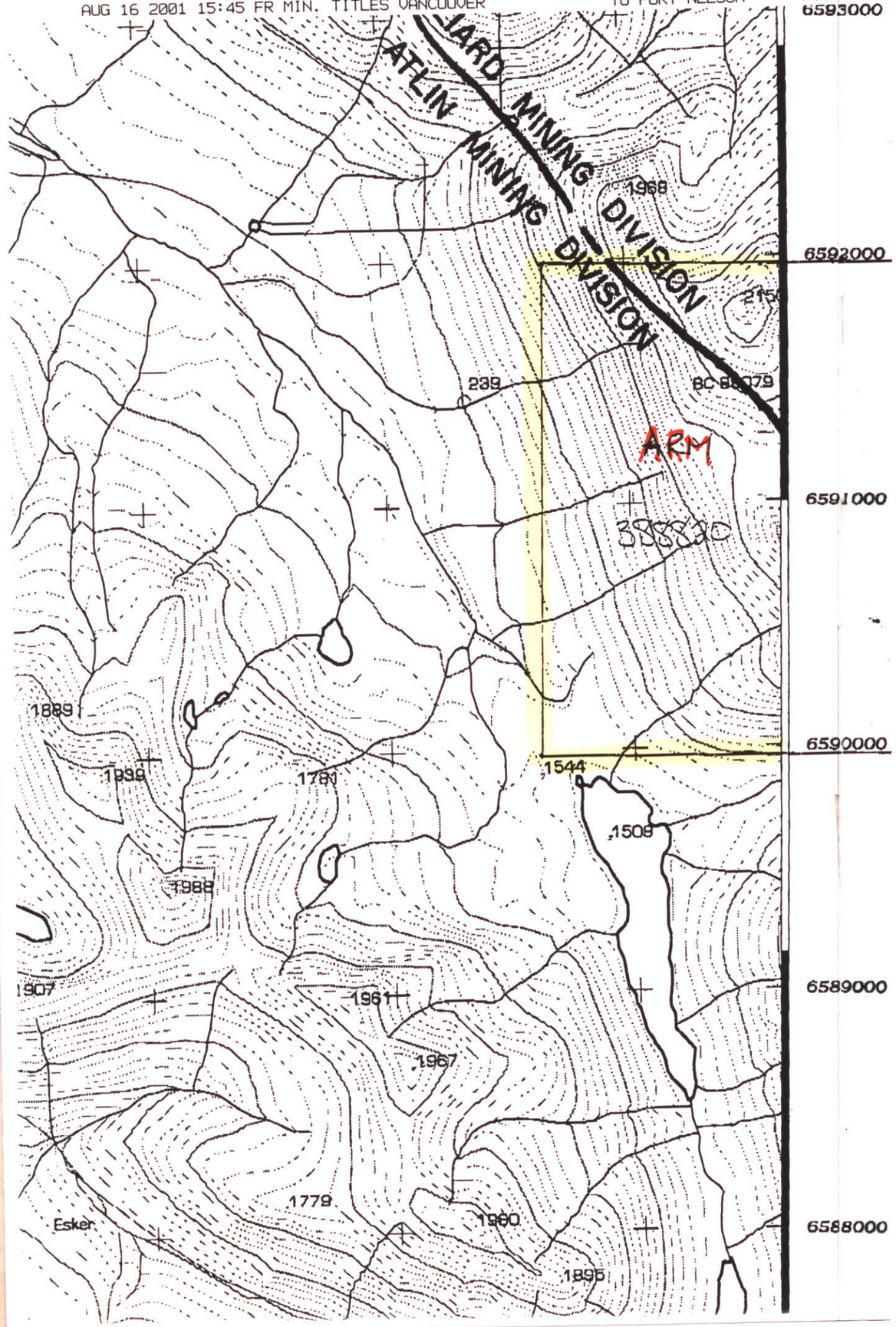
○ S-1 silt sample site

● : anomalous in Cu, Zn

● : " " Zn

● : " " Zn, Ag ● S-19

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ATLIN MINING DIVISION
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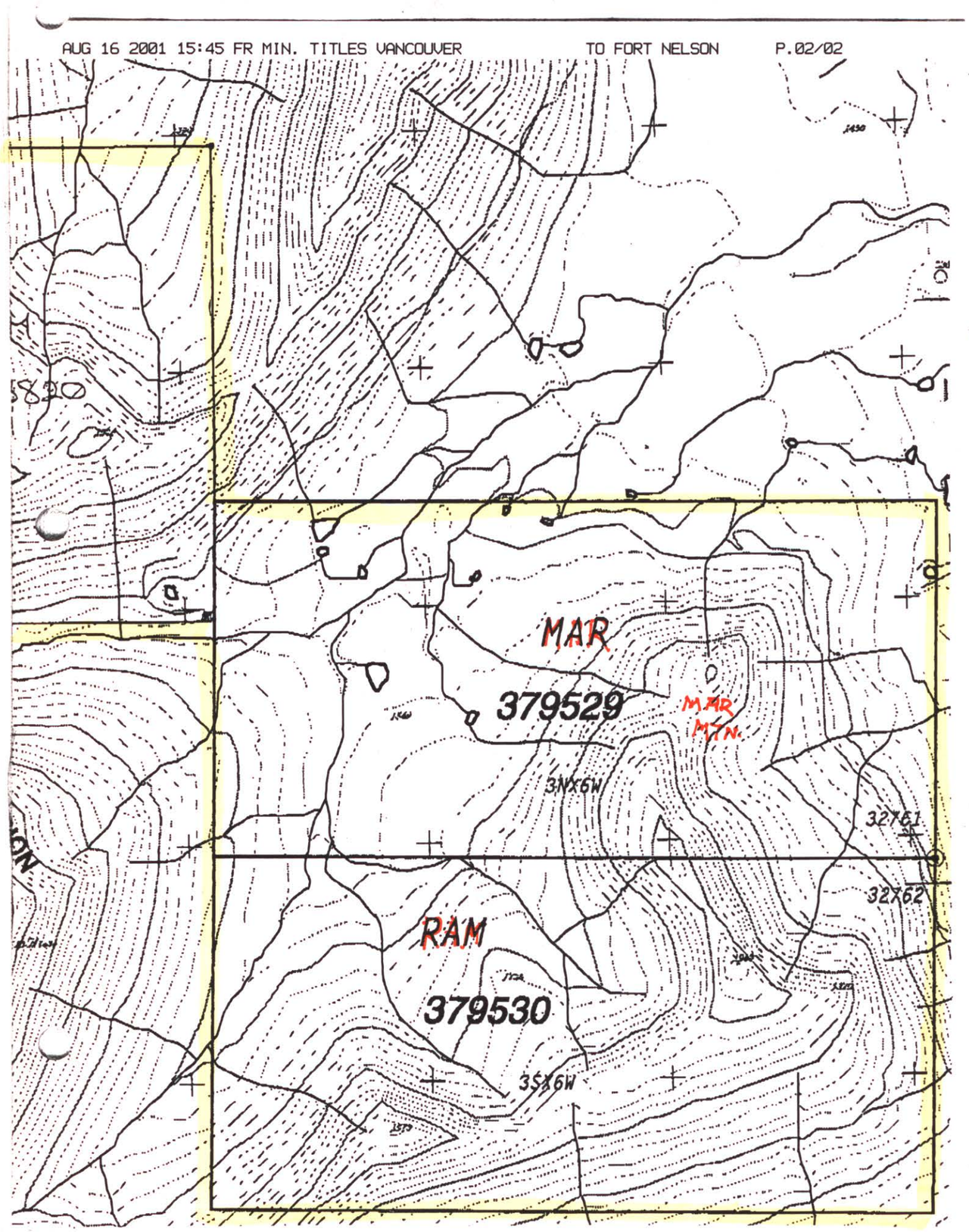
MAR
379529
MAR MTN.
3NX6W
32761
32762
RAM
379530
3SX6W

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

To: RUSSELL, ROBERT M.

P.O. BOX 894
FORT NELSON, BC
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Project :
Comments: ATTN: ROBERT M. RUSSELL

CERTIFICATE OF ANALYSIS A0122987

SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Mg %	Mn ppm	Mo ppm
R-1	94139402	0.46	< 5	< 1	1.78	20	< 20	< 5	< 10	0.14	< 5	< 5	50	35	9.68	< 10	0.02	0.36	310	15
R-2	94139402	0.70	< 5	< 1	1.77	30	< 20	< 5	< 10	0.20	< 5	< 5	50	35	12.05	< 10	0.02	0.31	320	20
R-3	94139402	0.68	< 5	< 1	1.11	50	20	< 5	< 10	0.14	< 5	5	40	35	3.71	< 10	0.16	0.96	270	5
R-4	94139402	0.60	< 5	< 1	0.89	30	20	< 5	< 10	0.22	< 5	5	50	30	3.50	< 10	0.26	0.82	130	10
R-5	94139402	0.42	10	< 1	2.76	10	160	< 5	< 10	0.50	< 5	15	10	5	6.42	< 10	0.46	2.67	1060	5
R-6	94139402	0.38	5	< 1	3.35	10	140	< 5	< 10	0.20	< 5	30	10	15	8.45	< 10	0.24	3.22	1270	< 5
R-7	94139402	0.48	< 5	< 1	0.39	30	80	< 5	< 10	0.82	< 5	5	30	105	2.74	< 10	0.18	0.31	530	10
R-8	94139402	0.70	< 5	< 1	1.57	40	60	< 5	< 10	0.15	< 5	5	30	20	4.00	< 10	0.31	1.40	270	5
R-9	94139402	0.64	< 5	< 1	1.35	10	40	< 5	< 10	0.41	< 5	5	30	50	2.44	< 10	0.22	1.27	280	10
R-10	94139402	0.48	< 5	< 1	0.92	40	60	< 5	< 10	0.10	< 5	5	50	20	3.96	< 10	0.31	0.74	210	5
R-11	94139402	0.56	< 5	< 1	1.32	30	20	< 5	< 10	0.12	< 5	10	30	40	4.04	< 10	0.21	0.99	210	5
R-12	94139402	0.38	< 5	< 1	0.27	40	20	< 5	< 10	0.01	< 5	< 5	60	15	2.16	20	0.20	0.03	< 10	5
R-13	94139402	0.46	< 5	< 1	1.81	30	40	< 5	< 10	0.14	< 5	15	50	65	3.86	< 10	0.24	1.75	490	5
R-14	94139402	0.48	< 5	< 1	0.29	50	20	< 5	< 10	< 0.01	< 5	< 5	60	5	1.88	10	0.20	0.04	10	5
R-15	94139402	0.40	< 5	< 1	0.77	30	20	< 5	< 10	0.07	< 5	5	40	30	3.16	< 10	0.15	0.52	170	5
R-16	94139402	0.56	< 5	< 1	1.09	10	20	< 5	< 10	0.08	< 5	5	50	40	3.36	< 10	0.17	0.79	250	10
R-17	94139402	0.50	< 5	< 1	0.06	30	100	< 5	< 10	4.22	< 5	5	100	30	2.81	< 10	0.04	0.61	1230	< 5
R-18	94139402	0.64	< 5	< 1	1.28	10	100	< 5	< 10	0.29	< 5	5	60	20	2.92	< 10	0.45	1.09	230	10
R-19 Earn	94139402	0.68	20	< 1	0.16	240	60	< 5	< 10	0.31	< 5	5	90	30	13.90	< 10	0.10	0.17	40	45
R-20	94139402	0.44	15	< 1	0.23	190	80	< 5	< 10	0.71	< 5	10	120	30	11.20	< 10	0.15	0.27	70	45
R-21 Earn	94139402	0.62	25	2	0.24	390	100	< 5	< 10	0.05	< 5	30	80	15	13.70	< 10	0.17	0.26	320	95
R-22	94139402	0.60	15	2	0.27	360	120	< 5	< 10	0.07	< 5	25	100	20	12.95	10	0.17	0.26	320	95
R-23	94139402	0.60	25	< 1	0.17	90	260	< 5	< 10	0.03	< 5	5	70	20	3.51	< 10	0.11	0.05	40	45
R-24	94139402	0.58	< 5	< 1	0.61	50	200	< 5	< 10	0.01	< 5	5	120	10	2.45	< 10	0.41	0.39	120	15
R-25	94139402	0.56	< 5	< 1	0.61	< 10	320	< 5	< 10	0.01	< 5	5	70	10	2.37	10	0.40	0.37	110	5
R-26 Quartzite	94139402	0.54	< 5	< 1	2.60	60	420	< 5	< 10	0.91	< 5	30	70	240	7.10	< 10	1.09	3.07	1350	15
R-27 west of	94139402	0.66	< 5	< 1	2.59	80	460	< 5	< 10	0.82	< 5	35	60	230	7.90	< 10	1.23	3.06	1490	15
R-28	94139402	0.56	< 5	< 1	3.00	50	480	< 5	< 10	0.83	< 5	35	60	240	6.51	10	1.34	3.75	1310	10
R-29 camp	94139402	0.72	< 5	< 1	2.59	80	420	< 5	< 10	0.87	< 5	35	50	240	7.39	< 10	1.16	3.08	1490	15
R-30	94139402	0.46	< 5	< 1	2.71	90	460	< 5	< 10	0.94	< 5	40	60	305	9.25	< 10	1.21	3.28	1600	15
R-31	94139402	0.64	< 5	< 1	1.91	30	300	< 5	< 10	0.20	< 5	30	60	30	7.44	< 10	0.72	2.06	700	10
R-32	94139402	0.54	< 5	< 1	1.00	30	200	< 5	< 10	0.11	< 5	20	50	15	5.50	< 10	0.31	0.89	290	5
R-33	94139402	0.60	< 5	< 1	1.81	30	260	< 5	< 10	0.20	< 5	30	60	35	9.03	< 10	0.57	1.87	620	10

CERTIFICATION:

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

To: RUSSELL, ROBERT M.

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Project :
Comments: ATTN: ROBERT M. RUSSELL

Page Number :1-B
Total Pages :1
Certificate Date: 03-SEP-2001
Invoice No. :I0122987
P.O. Number :
Account :ISL

CERTIFICATE OF ANALYSIS A0122987

SAMPLE	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	
R-1	94139402	0.08	< 5	700	20	10	5	< 5	0.02	< 20	< 20	80	< 20	30	
R-2	94139402	0.08	< 5	600	30	< 10	< 5	5	0.02	40	< 20	100	< 20	20	Mar MTN
R-3	94139402	0.11	5	700	30	< 10	< 5	< 5	0.03	< 20	< 20	20	< 20	40	
R-4	94139402	0.13	5	500	5	< 10	< 5	< 5	0.10	< 20	< 20	20	< 20	25	
R-5	94139402	0.12	< 5	900	5	< 10	< 5	5	0.11	20	< 20	60	< 20	155	
R-6	94139402	0.09	< 5	600	5	< 10	< 5	< 5	0.05	< 20	40	40	20	185	
R-7	94139402	0.08	5	300	25	< 10	< 5	20	< 0.01	20	< 20	< 20	< 20	130	
R-8	94139402	0.14	< 5	600	15	< 10	< 5	< 5	0.07	60	< 20	60	< 20	45	Mar MTN
R-9	94139402	0.13	< 5	600	< 5	< 10	< 5	5	0.08	< 20	< 20	20	< 20	30	
R-10	94139402	0.13	< 5	700	5	< 10	< 5	< 5	0.04	20	< 20	20	< 20	35	
R-11	94139402	0.12	< 5	800	15	< 10	< 5	< 5	0.01	20	< 20	20	< 20	45	
R-12	94139402	0.10	< 5	500	20	10	< 5	< 5	0.16	< 20	< 20	< 20	< 20	< 5	
R-13	94139402	0.11	5	600	5	10	< 5	< 5	0.04	< 20	< 20	20	< 20	65	Mar MTN
R-14	94139402	0.10	< 5	400	15	< 10	< 5	< 5	0.15	< 20	< 20	< 20	< 20	< 5	
R-15	94139402	0.09	< 5	900	10	< 10	< 5	< 5	< 0.01	< 20	< 20	< 20	< 20	50	
R-16	94139402	0.10	< 5	500	20	< 10	< 5	< 5	< 0.01	< 20	< 20	< 20	< 20	75	
R-17	94139402	0.10	< 5	200	< 5	< 10	< 5	25	< 0.01	< 20	< 20	< 20	< 20	30	Mar MTN
R-18	94139402	0.15	< 5	600	5	< 10	< 5	< 5	0.15	< 20	< 20	20	< 20	20	
R-19	94139402	0.10	30	2100	45	< 10	< 5	< 5	0.01	< 20	< 20	40	< 20	20	
R-20	94139402	0.10	25	4600	35	< 10	< 5	< 5	0.02	< 20	20	80	< 20	20	
R-21	94139402	0.12	85	400	90	< 10	< 5	< 5	0.03	< 20	< 20	40	40	20	
R-22	94139402	0.13	85	300	85	< 10	< 5	5	0.03	< 20	< 20	40	20	20	Earn
R-23	94139402	0.11	20	100	35	< 10	< 5	< 5	< 0.01	< 20	< 20	< 20	< 20	15	
R-24	94139402	0.16	< 5	< 100	30	< 10	< 5	5	0.06	< 20	< 20	< 20	< 20	55	
R-25	94139402	0.17	< 5	< 100	25	< 10	< 5	10	0.06	< 20	< 20	< 20	< 20	55	
R-26	94139402	0.20	20	2800	25	< 10	10	30	0.16	20	< 20	160	< 20	105	
R-27	94139402	0.18	25	3000	15	< 10	15	30	0.14	< 20	< 20	180	< 20	105	Quartzite west of camp
R-28	94139402	0.20	20	2600	10	< 10	20	30	0.17	20	< 20	220	< 20	100	
R-29	94139402	0.19	25	3200	5	< 10	15	30	0.14	< 20	< 20	180	< 20	125	
R-30	94139402	0.19	30	3400	40	< 10	15	30	0.15	< 20	< 20	180	< 20	165	
R-31	94139402	0.13	5	500	25	< 10	5	< 5	0.21	< 20	< 20	120	< 20	65	
R-32	94139402	0.13	5	500	5	20	< 5	< 5	0.11	20	< 20	40	< 20	30	
R-33	94139402	0.13	5	700	5	< 10	5	< 5	0.21	40	< 20	80	< 20	70	

CERTIFICATION:

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221 FAX: 604-984-0218

To: RUSSELL, ROBERT M.

P.O. BOX 894
FORT NELSON, BC
V0C 1R0

Project :
Comments: ATTN: ROBERT M. RUSSELL

Certificate Date: 06-SEP-2001
Invoice No. : I0122985
P.O. Number :
Account : ISL

CERTIFICATE OF ANALYSIS A0122985

SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Mg %	Mn ppm	Mo ppm
M-1 Moss	94069407	0.10	< 5	4	2.97	10	260	< 5	< 10	0.51	5	30	50	90	6.64	< 10	0.26	1.52	5630	15
M-2	94069407	0.26	< 5	< 1	3.00	10	260	< 5	10	0.82	< 5	25	40	125	4.63	< 10	0.41	1.77	1230	5
S-3	94069407	0.24	< 5	< 1	0.07	< 10	20	10	< 10	0.41	< 5	15	< 10	< 5	>30.0	< 10	< 0.01	0.04	1340	20
S-4	94069407	0.28	< 5	< 1	0.12	< 10	< 20	15	< 10	0.33	< 5	5	< 10	< 5	>30.0	< 10	0.01	0.05	800	20
S-5	94069407	0.16	< 5	< 1	2.01	< 10	320	< 5	< 10	2.16	5	15	140	75	2.19	< 10	0.13	0.63	1030	10
S-6	94069407	0.38	< 5	< 1	2.62	10	200	< 5	< 10	0.53	< 5	15	50	60	3.67	< 10	0.29	1.37	870	< 5
S-7 Fern	94069407	0.36	10	1	2.54	10	280	< 5	< 10	0.44	< 5	35	50	120	4.69	< 10	0.41	1.44	1190	20
S-8	94069407	0.42	10	< 1	2.38	10	280	< 5	20	0.38	< 5	35	50	125	4.94	< 10	0.42	1.34	1150	25
S-9	94069407	0.30	10	1	2.44	10	280	< 5	10	0.40	< 5	30	50	120	4.94	< 10	0.43	1.41	1090	20
S-10	94069407	0.24	10	< 1	2.72	10	280	< 5	< 10	0.48	< 5	30	50	120	4.64	< 10	0.38	1.60	1190	10
S-11	94069407	0.26	< 5	< 1	2.77	< 10	340	< 5	< 10	0.75	< 5	25	50	95	4.14	< 10	0.34	1.60	1050	5
S-12	94069407	0.30	< 5	< 1	1.95	10	200	< 5	40	0.40	< 5	20	70	60	3.00	10	0.27	1.35	580	< 5
S-13	94069407	0.24	< 5	1	2.58	10	220	< 5	< 10	0.55	< 5	30	130	60	4.40	< 10	0.19	1.74	1100	< 5
S-14	94069407	0.28	< 5	< 1	2.00	20	180	< 5	30	0.51	< 5	20	90	40	3.27	< 10	0.17	1.31	610	< 5
S-15	94069407	0.16	< 5	< 1	3.11	10	380	< 5	< 10	1.11	< 5	20	60	70	4.23	< 10	0.18	1.48	980	< 5
S-16	94069407	0.26	< 5	< 1	2.99	< 10	260	< 5	< 10	0.89	< 5	20	40	55	4.12	< 10	0.25	1.77	760	< 5
S-17	94069407	0.20	< 5	< 1	3.02	< 10	340	< 5	< 10	0.54	< 5	20	30	95	4.41	< 10	0.29	1.59	810	5
S-18 North of	94069407	0.14	15	1	2.32	20	180	< 5	30	0.24	< 5	10	10	125	4.37	< 10	0.26	1.04	470	15
S-19 Mar MTN	94069407	0.14	< 5	< 1	2.83	< 10	300	< 5	10	0.44	< 5	50	30	200	4.18	< 10	0.24	1.23	1770	10
S-20	94069407	0.24	< 5	< 1	2.50	< 10	180	< 5	< 10	0.50	< 5	20	90	45	3.26	< 10	0.24	1.40	680	< 5
S-21	94069407	0.26	< 5	< 1	3.02	< 10	240	< 5	10	0.72	< 5	20	30	70	4.30	< 10	0.39	1.97	1010	< 5
S-22	94069407	0.30	< 5	< 1	2.19	< 10	260	< 5	30	0.50	< 5	15	40	40	3.31	< 10	0.27	1.29	1190	< 5
S-23	94069407	0.24	< 5	< 1	2.30	30	220	< 5	10	0.65	< 5	25	130	55	3.77	< 10	0.23	1.56	700	< 5
S-24	94069407	0.20	< 5	1	1.93	10	120	< 5	< 10	0.47	< 5	20	50	50	3.01	< 10	0.15	0.84	1550	5
S-25	94069407	0.12	< 5	< 1	0.99	< 10	1240	< 5	< 10	1.34	< 5	55	< 10	10	23.7	< 10	0.07	0.25	36900	< 5
S-26	94069407	0.12	< 5	< 1	1.25	< 10	1400	< 5	30	0.91	< 5	120	< 10	20	19.65	< 10	0.08	0.28	>50000	< 5
S-27	94069407	0.10	< 5	< 1	0.11	< 10	420	< 5	< 10	0.54	< 5	35	< 10	< 5	>30.0	< 10	0.02	0.09	8070	< 5
S-28	94069407	0.10	< 5	< 1	3.18	30	680	< 5	20	0.66	15	20	60	65	2.92	< 10	0.18	0.91	26000	5
S-29	94069407	0.06	< 5	< 1	2.43	10	280	< 5	< 10	0.52	< 5	5	60	65	3.85	< 10	0.29	0.82	470	20
S-30	94069407	0.22	10	< 1	2.19	40	240	< 5	10	0.51	< 5	25	40	90	4.19	< 10	0.34	1.23	1190	15
S-31	94069407	0.12	< 5	< 1	2.17	< 10	200	< 5	10	0.66	< 5	15	40	70	3.58	< 10	0.15	1.26	530	5
S-32	94069407	0.20	< 5	< 1	2.94	< 10	200	< 5	< 10	0.67	< 5	15	30	40	3.52	< 10	0.18	1.30	680	< 5

CERTIFICATION:

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: RUSSELL, ROBERT M.

P.O. BOX 894
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Project :
Comments: ATTN: ROBERT M. RUSSELL

Certificate Date: 06-SEP-2001
Invoice No. : I0122985
P.O. Number :
Account : ISL

CERTIFICATE OF ANALYSIS A0122985

SAMPLE	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	
M-1	94069407	0.07	115	900	15	< 10	5	30	0.12	< 20	< 20	100	< 20	590	moss
M-2	94069407	0.07	40	900	< 5	20	5	50	0.11	< 20	< 20	100	< 20	240	
S-3	94069407	0.06	15	700	< 5	< 10	< 5	40	< 0.01	< 20	< 20	< 20	< 20	360	
S-4	94069407	0.06	20	700	< 5	< 10	< 5	40	< 0.01	< 20	< 20	< 20	< 20	425	west of base
S-5	94069407	0.08	125	2600	15	50	< 5	115	0.05	< 20	< 20	20	< 20	405	
S-6	94069407	0.07	45	1000	< 5	< 10	< 5	35	0.09	< 20	< 20	100	< 20	385	
S-7	94069407	0.08	90	900	15	40	5	40	0.10	< 20	< 20	100	< 20	355	
S-8	94069407	0.08	100	900	< 5	< 10	5	45	0.10	< 20	< 20	100	< 20	380	
S-9	94069407	0.08	90	1000	5	30	5	35	0.10	< 20	< 20	100	< 20	375	Earn
S-10	94069407	0.08	85	1000	< 5	10	5	40	0.11	< 20	< 20	100	< 20	325	
S-11	94069407	0.08	55	1200	15	40	5	30	0.12	< 20	< 20	100	< 20	240	
S-12	94069407	0.07	50	1100	10	10	< 5	5	0.10	< 20	< 20	60	< 20	75	
S-13	94069407	0.07	110	1400	10	< 10	5	25	0.09	< 20	< 20	100	< 20	135	
S-14	94069407	0.07	55	1300	10	10	< 5	15	0.08	< 20	< 20	60	< 20	85	
S-15	94069407	0.07	25	1400	10	30	< 5	40	0.10	< 20	< 20	100	< 20	80	
S-16	94069407	0.07	15	900	< 5	30	5	20	0.13	< 20	< 20	100	< 20	95	
S-17	94069407	0.07	15	1000	5	< 10	5	25	0.09	< 20	< 20	100	< 20	105	
S-18	94069407	0.08	5	900	10	30	< 5	10	0.06	20	< 20	40	< 20	75	
S-19	94069407	0.08	20	700	5	10	5	5	0.07	< 20	< 20	60	< 20	120	
S-20	94069407	0.07	50	900	5	10	< 5	15	0.09	< 20	< 20	80	< 20	75	
S-21	94069407	0.07	15	800	< 5	10	5	20	0.13	< 20	< 20	100	< 20	95	
S-22	94069407	0.07	15	900	5	< 10	5	15	0.10	< 20	< 20	80	< 20	75	
S-23	94069407	0.07	85	1500	15	30	< 5	20	0.09	< 20	< 20	80	< 20	105	
S-24	94069407	0.07	40	1100	5	10	< 5	5	0.08	< 20	< 20	60	< 20	120	
S-25	94069407	0.07	160	400	< 5	< 10	< 5	70	0.02	< 20	< 20	< 20	< 20	360	
S-26	94069407	0.07	330	600	5	< 10	< 5	55	0.03	< 20	< 20	< 20	< 20	555	Red seepage
S-27	94069407	0.07	50	200	5	< 10	< 5	45	< 0.01	< 20	< 20	< 20	< 20	165	
S-28	94069407	0.08	510	1200	15	< 10	5	20	0.07	< 20	< 20	40	< 20	570	
S-29	94069407	0.08	25	1800	25	< 10	< 5	35	0.08	< 20	< 20	60	< 20	95	
S-30	94069407	0.08	75	800	15	40	5	20	0.09	< 20	< 20	80	< 20	315	
S-31	94069407	0.08	35	900	15	20	< 5	35	0.08	< 20	< 20	80	< 20	185	
S-32	94069407	0.07	15	800	< 5	20	< 5	40	0.13	< 20	< 20	80	< 20	90	

CERTIFICATION:

2001 Prospecting Report

Robert Russell

Friday, July 13th, 2001

Left Watson Lake air base around 4:00 p.m. We touched down on the west side of a small lake at the headwaters of the Cottonwood River while Bill Seeley, the pilot of the Beaver aircraft maneuvered his way into a small bay at the upper end of the lake. By 5:30 p.m. we were unloaded and waving goodbye as Bill banked his plane towards the northeast.

Saturday, July 14th, 2001

The day was spent moving gear and setting up camp on a bench situated about 150 m up from the lake. This would be our new base camp location for the 2001 prospecting season.

Sunday, July 15th, 2001

Prospected along slope and base of south end of east facing side of Mar Mountain. A boulder field of coarse grained quartz diorite is prevalent along the lower slope. Higher up, greenstone, diorite and gabbro boulders were encountered. Along the base is a colluvial slide consisting of rusty weathering pyritic quartz sericite schist and yellow decomposed rock. Spent the rest of the day examining the slide area. Grab samples were taken.

Monday, July 16, 2001

Prospected along slope and base of northern portion of east facing side of Mar Mountain. Examined a colluvial slide containing abundant rusty reddish-brown and yellow weathering pyritic quartz sericite schist. Grab samples were taken.

Tuesday, July 17th, 2001

Prospected cliff face and ridge top on the southern end of east facing side of Mar Mountain. Fine grained diorite, greenstone and minor chlorite schist outcrop at the most southerly end and includes the highest peak. The ridge contains rusty red-brown and yellow weathering semi schistose metarhyolite and yellow brown weathering light gray quartz sericite schist with minor pyrite. Samples taken.

Wednesday, July 18th, 2001

Prospected along ridge and cliff face on the north end of the east facing side of Mar Mountain. Two main rock types encountered were highly epidotized medium grained quartz diorite that weathers grayish green, and rusty reddish brown and yellow weathering pyritic quartz sericite schist. Minor greenstone and white semi-schistose metarhyolite were observed. Green –gray weathering green stone at the north end of cliff face contains moderate amounts of disseminated pyrite. (pervasive)

In places, the highly epidotized fine grained diorite contains sheeted veins up to 4" wide. Random pyrite is scattered throughout. Semi schistose white pyritic meta rhyolite porphyry and pyritic quartz sericite schist outcrop along the contact of a greenish gray diorite at the north end of the cliff face. Being recessive in nature, it has produced a deep depression within the cliff face. Samples taken.

Thursday, July 19th, 2001

Continued prospecting the yellow weathering highly schistose rock along the cliff face on the east side of the Mar Mountain. Samples taken.

Friday, July 20th, 2001

Prospected cliff area along the north face of Mar Mountain. Semi-schistose, highly schistose and decomposed yellow and red-brown weathering rock types outcrop along precipitous cliff faces right to the top of the mountain. Generally, testing showed moderate to highly pyritized material. Samples taken.

Saturday, July 21st, 2001

Returned to cliff area on north face of Mar Mountain and continued prospecting the heavily gozzaned portions where accessible. Samples taken.

Sunday, July 22nd, 2001

Prospected an extension of rusty yellow weathering schist on west side of Mar Mountain. Samples taken.

Monday, July 23rd, 2001

Prospected lower slope of NW portion of Mar Mountain. Epidotized green-gray weathering fine grained quartz diorite with rare traces of pyrite were examined as well as rusty weathering pyritic light gray quartz sericite schist float and minor gray limestone. Samples taken.

Tuesday, July 24th, 2001

Continued prospecting along lower slope of Mar Mountain towards SW. Samples taken.

Wednesday, July 25th, 2001

Prospected numerous outcroppings of rusty red-brown and yellow weathering light gray pyritic quartz sericite schist and semi schistose white meta rhyolite porphyry. Samples taken.

Thursday, July 26th, 2001

Moss samples and seepage samples taken on the upper reaches of Pup 1 and Pup 2. Prospected the outside perimeter of the basin at the head waters of Pup 1. Encountered mostly dark gray weathering gray quartz diorite containing sporadic pyrite crystals. Crystals measuring up to ½ cm across. (NE corner of Ram claim). Some quartz veins contain rare clots of chalco pyrite rimmed with malachite. Samples taken.

Friday, July 27th, 2001

Prospected between Pup 3 and Pup 4 south of camp. Light gray weathering medium grained dark gray diorite boulders were located between Pup 3 and Pup 4. Some of these boulders contain quartz veins from 6" wide to hairlike veinlets. Several veins have sericite pyrite wall rock alteration as wide as the veins. One boulder contained a small clot (6cm x 6cm) of quartz rich diorite with 7 blobs of chalcopyrite. Silt sampled Pup 3.

Saturday, July 28th, 2001

Prospected up Pup 4 and surrounding headwaters. The upper reaches contain rock types that are for the most part reddish brown weathering siliceous hornfelsic argillite, black slate, black argillite and graphitic argillite. At the headwater of Pup 4, a cliff face is weathered to a green and yellow brown and is highly decomposed. It is mostly black graphitic and siliceous argillite containing generous amounts of disseminated pyrite. 2cm wide massive sulphide bands paralleling the contorted and wavy cleavage planes were noted in a couple boulders near the foot of the cliff.

Mineralization is more abundant within the core of an axial zone as evidenced by rod like pencil fragments of argillite. Graphite is conspicuous along drag folds. Samples taken.

Sunday, July 29th, 2001

Silt sampled along an approx E-W line from Mar Mountain to proposed fly camp.

Monday, July 30th, 2001

From base camp we followed the pack trail to the western boundary of the Mar claim and placed a L.C.P. at 6 W 2 N on the Mar claim boundary. 1.5km of claim line was run in a westerly direction. Returned to base camp.

Tuesday, July 31st, 2001

Working from base camp we ran in 1.5km of claim line starting from I.D. post 3 W on the Arm claim to 1N 5W on the Arm claim. Returned to base.

Wednesday, August 1st, 2001

Working from base camp we staked 1.5km of claim line commencing at 1N 5w and terminating at 4N 5W. Returned to base.

Thursday, August 2nd, 2001

Working from base camp we staked 1km of claim line starting at 4N 1W and terminating at 3N. Returned to base camp.

Friday, August 3rd, 2001

Working from base camp we staked 1.5km of claim line starting at 3N and terminating at L.C.P. on Arm claim. Took a silt sample approx. 300m west of 3N I.D. post on the Arm claim. Returned to base.

Saturday, August 4th, 2001

Prospected the headwaters of Pup 6 and adjacent southern slope of Mountain. Spent the day examining numerous quartz stained boulders scattered along the divide between Pup 6 and a small creek that flows west into the head of the lake near the SW corner post of the Arm claim. The quartz veins are hosted by fine grained meta diorite. No sulphides were found.

Sunday, August 5th, 2001

From base camp we followed a pack trail in a southerly direction to a small kettle pond that is fed by underground water from Pup 4. We headed up Pup 4 to the rusty weathered cliffs and then began prospecting the cliff area working in a southerly direction.

Graphitic and siliceous rusty brown-red and yellow-green weathering argillite and slate occupy the cliff area. This is part of the Earn GP. Close to the thrust fault where the quartz diorites of the Ram Assemblage have overridden the argillites, the argillites appear to be highly brecciated and dragfolded.

Small boulders (several) weighing up to 100lbs located in the cliff area contain massive sulphide layers and are folded parallel to the axial plane cleavage. The sulphides appear to be mostly pyrite. Abundant pyrite with rare streaks of zinc blende are fairly common in the slate and argillites in colluvial material, however, no sulphides were found in place mainly due to limited access of the cliffs. Samples were taken.

August 6th, 2001

From fly camp situated near the north end of the lake we prospected the southwest corner of the Arm Claim. Spent the entire day prospecting colluvial material via slide area that is fairly extensive along the length of the claim. (westside) Greenstone, quartz diorite, fine grained amphibolite, micaceous quartzite and quartz muscovite schist were examined. Rare traces of pyrite within quartz diorite and occasioned rusty weathering quartz vein material barren of sulphides are fairly common. Minor leaching of pyrite cubes is evident.

August 7th 2001

From fly camp at southwest corner of Arm claim we continued prospecting along the slide areas directly up from 5W 2N I.D. post to approximately 200 m below cliff areas. The colluvial material contains numerous yellow weathering quartz sericite schist and red-brown weathering resistant light gray non-schistose meta rhyolite. The meta rhyolite is rich in disseminated pyrite throughout and has a very strong sulphur odour upon breaking. The yellow weathering quartz sericite schist also contains abundant disseminated pyrite. Sampled.

August 8th 2001

From fly camp at southwest corner of Arm Claim we spent the day prospecting the slide areas along the western portion of the claim as far as the corner post. Yellow weathering quartz sericite schist and light gray meta rhyolite containing abundant disseminated pyrite in colluvial material below the cliffs was the main highlight. Large boulders of pale gray-green weathering chlorite sericite schists were encountered in one slide area directly east of 5W 3N I.D. post a few hundred feet below the cliffs. Samples taken of pyrite rich quartz sericite schist.

August 9th, 2001

From base camp we silt sampled Pup 11, 12, and 13 at the SW corner of the Mar claim. Returned to base.

August 10, 2001

From base camp silt sampling was conducted in a northerly direction to the end of the Mar Mountain. Returned to base via pack trail.

August 11th, 2001

Prospected along the assumed south eastern contact of the greenstone intrusive unit on the Ram claim west of the base camp. Area covered consists of colluvial slides. Small boulders of meta quartzite with gozzanous rinds up to 1cm thick contain pyrite and as disseminations throughout rock. Rare malachite staining was observed.

August 12, 2001

Continued to examine the area west of camp covering the SE extension of greenstone intrusive unit (Ram Creek Assemblage). Main rock types encountered were:

1) Mild to good concentrations of pyrite in siliceous graphitic argillite which outcrop sporadically as small ledges.
2) Numerous larger boulder of greenstone and chlorite biotite schist that contain traces of pyrite
3) Large boulders of quartz carbonate rock with traces of pyrite
4) Medium to coarse grain quartzite. Two rusty boulders contain very high concentrations of sulphides, largely pyrite. Chalco pyrite was noted in one piece that was broken off. Unable to locate source of rich sulphides.
5) Rusty weathering coarse grained tonalite boulders containing random blobs of iron sulphides throughout.

P.S. The argillites contain vuggy quartz vein material that hosts rare traces of zinc and copper. Samples were taken.

August 13th, 2001

Prospected a highly gozzaned and decomposed area located in a mountain saddle along the east side of the Arm claim. The rock type is for the most part a pyrite rich quartz sericite schist. Highly decomposed yellow-green material blends in with more resistant reddish brown weathering, platy to schistose, pyrite rich quartz sericite schist. Samples were taken.

This concludes a very interesting prospecting season with plenty of sulphides encountered. Tomorrow we will tear down camp and head back to Watson Lake on the morning of the 15th.