BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	2000/2001
REPORT #:	PAP 00-28
NAME:	DAN BLOWER

D. TECHNICAL REPORT

- One technical report to be completed for each project area.
- **Refer to Program Regulations 15 to 17, pages 6 and 7.**

BRITISH COLUMBIA
Ministry of Energy and Mines
Energy and Minerals Division

Information on this form is confidential subject to the provisions of the *Freedom of Information Act.*

SUMMARY OF RESULTS

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

Name DAN BLOWER Reference Number 00/01 P-121

LOCATION/COMMODITIES

Project Area (as listed in Part A) SWIFT R./TESLIN LK. MINFILE No. if applicable

Location of Project Area NTS 104 O 13 / 104 N 16 Lat 132° 00' W Long 59° 50' N

Description of Location and Access LOCATION IS APPROXIMATELY 200 KILOMETERS WEST OF WATSON LK., YUKON IN THE SWIFT RIVER AREA OF NORTHERN B.C. THE ALASKA HIGHWAY PROVIDES THE ONLY SIGNIFICANT VEHICLE ACCESS ROAD IN THE PROJECT AREA.

Prospecting Assistants(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6)
KEN BLOWER - EX MINE MANAGER; EXTENSIVE MINING + GEOLOGY EXPERIENCE.
DEL LAMONT - PART TIME PROSPECTOR; SEVERAL YEARS PROSPECTING EXPERIENCE.

Main Commodities Searched For BASE METALS + ASSOCIATED PRECIOUS METALS

Known Mineral Occurrences in Project Area COPPER + ASSOCIATED MINERALS IN THE ARSENAULT PROSPECT AREA (EAST OF SWIFT LK.). TUNGSTEN + ASSOCIATED MINERALS IN THE LOGTUNG MINE AREA (WEST OF LOGTUNG CK.). COPPER - GOLD SHOWING (EAST OF SKART R. + N. OF ALASKA HWY.)

WORK PERFORMED

1. Conventional Prospecting (area) 2500 HECTARES
2. Geological Mapping (hectares/scale) N/A
3. Geochemical (type and no. of samples) ROCK SAMPLES ANALYSED = 50; SILT SAMPLES = 13
4. Geophysical (type and line km) N/A
5. Physical Work (type and amount) N/A
6. Drilling (no. holes, size, depth in m, total m) N/A
7. Other (specify)

Best Discovery

Project/Claim Name SWIFT R./TESLIN LK. Commodities COPPER, ZINC, GOLD

Location (show on map) Lat. 131° 40' W Long 59° 55' N Elevation 3500'

Best assay/sample type CU 5734 PPM, ZN 148 PPM, AU 189 PPB.

Description of mineralization, host rocks, anomalies SULPHIDE MINERALIZATION WITH BORNITE STAINING IN A COURSE GRAINED GREY + WHITE HOST ROCK. GEOLOGICALLY WITHIN THE BIG SALMON COMPLEX AND AT A CONTACT ZONE BETWEEN A CARBONACEOUS SCHIST AND QUARTZITE ROCK TYPE AND A CRINKLE CHERT ROCK TYPE.

FEEDBACK: comments and suggestions for Prospector Assistance Program.

- I BELIEVE THIS ASSISTANCE PROGRAM IS A GOOD ONE. FOR EXAMPLE THE VERY HIGH TRANSPORTATION/TRAVEL COSTS ASSOCIATED WITH THIS PROJECT WOULD HAVE PRECLUDED CARRYING IT OUT WITHOUT SUCH ASSISTANCE.
- THE MODIFICATIONS TO THIS YEARS REPORTING FORMS AND THE RECENT CHANGE TO A SLIGHTLY REDUCED MINIMUM NUMBER OF PROSPECTING DAYS (TO 21 FROM 30) ARE GOOD IMPROVEMENTS.

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS

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Energy and Minerals Division

- 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 DAN BLOWER Reference Number 00/01 P-121

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

THE SWIFT R./TESLIN LK. AREA IS LOCATED IN NORTHWESTERN B.C. BETWEEN 59°45' AND 60°00' N. AND 131°10' AND 132°35'W, AND INCLUDES PORTIONS OF NTS 50,000 MAPSHEETS 104 O 13 & 14 AND 104 N 15 & 16. SEE ATTACHED MAP (FIGURE 1).

2. PROGRAM OBJECTIVE [Include original exploration target.]

THE OBJECTIVE WAS TO UTILIZE CONVENTIONAL PROSPECTING METHODS TO LOOK FOR ECONOMICALLY VIABLE POLYMETALLIC MINERAL DEPOSITS SUCH AS VMS TYPE DEPOSITS. THREE GENERAL AREAS WERE INITIALLY IDENTIFIED FOR COVERAGE (AREAS 1, 2, & 3), HOWEVER A FOURTH AREA WAS ADDED WHILE THE PROJECT WAS UNDERWAY (SEE FIGURE 1). PROGRAM EMPHASIS WAS PLANNED FOR 3 LOCATIONS: 1/ THE AREA ADJACENT TO A CU-AU SHOWING EAST OF THE SMART RIVER; 2/ THE AREA ABOVE A TUNGSTEN GEOCHEM ANOMOLY ON WEST LOGJAM CK.; 3/ THE AREA ADJACENT TO THE NORTH OF THE ARSENAULT COPPER PROSPECT.

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 PROSPECTING WAS CARRIED OUT DURING TWO TIME PERIODS: EARLY TO MID JULY; AND, MID TO LATE SEPTEMBER.

MINARALIZED ROCK SPECIMENS WERE COLLECTED AT APPROPRIATE SITES THROUGHOUT THE AREA TRAVERSED. SILT SAMPLES WERE ONLY TAKEN AT SELECT LOCATIONS.

A TOTAL OF 50 ROCK SPECIMENS AND 13 SILT SAMPLES WERE SELECTED FOR ASSAY, THE LOCATIONS OF WHICH ARE SHOWN ON MAPS AS FIGURES 2, 3, 4 & 5. THE ASSAY RESULTS ARE CONTAINED IN FIGURES 6, 7, 8, 9 & 10.

SPECIFIC RESULTS SUMMARIZED BY AREA ARE AS FOLLOWS:

AREA #1 (SMART/LOGJAM)

THE AREA WAS PROSPECTED BY RUNNING VARIOUS GROUND TRANSECTS FROM ROAD ACCESS POINTS ALONG THE SMART R. AND LOGJAM CK. ROADS.

- SIGNIFICANT CU, ZN, MN, BA, AU MINERALIZATION WAS ENCOUNTERED IN A NARROW QUARTZ VEIN ON A ROCK RIDGE TO THE EAST OF THE

3. PROSPECTING RESULTS (continued)

SMART RIVER (SPECIMEN R5; FIGURE 2+6). THE MINERALIZATION APPEARS TO BE IN THE CONTACT ZONE A CARBONACEOUS SCHIST AND QUARTZITE ROCK TYPE AND A CRINKLE CHERT ROCK TYPE. SOME BORNITE STAINING WAS PRESENT WITH THE MINERALIZATION. THE MINERAL OCCURRED IN A VERY NARROW ZONE AND COULD NOT BE TRACED ANY DISTANCE UP OR DOWN STRIKE.

- SIGNIFICANT W, MO MINERALIZATION WAS ENCOUNTERED ADJACENT TO THE SOUTH OF THE LOGTUNG YUKON - B.C. BORDER PROPERTY (SPECIMEN R46, FIGURE 2+9). THE MINERALIZATION WAS CONTAINED IN A COURSE GRAINED BLACK + WHITE ROCK, POSSIBLY A HORNBLENDE AND QUARTZ DIORITE. THE MINERALIZATION COULD NOT BE TRACED SOUTH OF THE B.C. - YUKON BORDER. A SILT SAMPLE TAKEN FROM WEST LOGJAM CREEK (SAMPLE S 9, FIGURES 2+9) ALSO ONLY RECORDED A SLIGHTLY ELEVATED TUNGSTEN VALUE.

AREA #2 (SWIFT LAKE EAST)

THE AREA WAS PROSPECTED PRIMARILY FROM A FLY-CAMP LOCATION IN THE VALLEY TO THE NORTH OF MT. FRANCIS. DUE TO A LACK OF USEABLE ROAD IN THE AREA ACCESS USED WAS A HELICOPTER FROM SWIFT LK. THE MAIN PROSPECTING EMPHASIS WAS ON THE ROCK OUTCROPS AND TALUS SLOPES ON THE NORTH EDGE OF MT. FRANCIS. 1735 ppm Cu, 192 ppm Zn

- SIGNIFICANT CU, ZN MINERALIZATION WAS LOCATED ON THE NORTHERN FACE OF MT. FRANCIS (SPECIMENS R 21, 22, 25; FIGURE 3, 6+7). THE MINERALIZATION OCCURRED IRON STAINED FINE GRAINED GREY ROCKS AND WITH CONSIDERABLE YELLOWISH SURFACE STAINING.
- ANOMOLOUS GOLD MINERALIZATION WAS ALSO ENCOUNTERED ALONG A SMALL CREEK IN THE VALLEY TO THE NORTH OF MT. FRANCIS (SPECIMEN R 13; FIGURE 3+6). THE SPECIMEN WAS AN IRON STAINED LIGHT GREY ROCK WITH PYRITE EVIDENT.

156 ppb

AREA #3 (TESLIN LK.)

THIS AREA WAS ONLY EXPOSED TO VERY LIMITED PROSPECTING BECAUSE OF TIME AND ACCESS CONSTRAINTS. NO ROADS TOUCH THE AREA AND THE ACCESS WAS BY BOAT DOWN TESLIN LAKE FROM DAWSON PEAKS RESORT (YUKON).

- ONLY TWO TRANSECTS WERE UNDERTAKEN AND 3 ROCK SPECIMENS WERE TAKEN FOR ASSAY (FIGURE 4), WITH NO SIGNIFICANT VALUES NOTED.

AREA #4 (REDFISH CK.)

THIS AREA WAS PROSPECTED IN ONLY TWO SITE SPECIFIC LOCATIONS: 1/ A BEDROCK ROADCUT ALONG THE ALASKA HIGHWAY (2 IRON STAINED SPECIMENS COLLECTED FOR ASSAY) AND, 2/ THE ROCKFISH CK. CANYON AREA (FIGURE 5). THIS LATTER LOCATION WAS CHOSEN BASED ON ITS PROXIMITY DOWNSTREAM FROM A HIGHLY ANOMOLOUS AU READING SHOWN IN THE RECENTLY RELEASED GSB GEOCHEMICAL RESULTS.

- PANNING OF THE CREEK GRAVEL TURNED UP A FLAKE OF GOLD, BUT A SILT SAMPLE TAKEN WAS NOT ANOMALOUS (S 11 FIGURE 5+8). IT IS BELIEVED THAT A "NUGGET EFFECT" PROBABLY ACCOUNTED FOR THE HIGH GSB GEOCHEMICAL SURVEY GOLD READING.

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.]

AREA #1 (SMART/LOGJAM) - SEE FIGURE 2 FOR SAMPLE LOCATIONS

ROCK SPECIMEN NOTES: (SEE FIGURES 6, 7 + 9 FOR ASSAY RESULTS)

R 1 - FINE GRAINED MEDIUM GREY BEDROCK. ELEV. 3700'

R 2 - COURSE GRAINED WHITE WITH BLACK MINERALIZATION, BEDROCK. ELEV. 3700'

R 4 - DARK GREY BEDROCK WITH PINK CRINKLE CHERT + QUARTZ. ELEV. 3550'

R 5, 5A, K1, 2 - MOTTLED GREENISH GREY + WHITE VEIN MATERIAL CONTAINING SULPHIDES, WITH COPPER STAINING EVIDENT. ELEV. 3600'

R 6, 7 - COURSE GRAINED GREYISH BEDROCK NEXT TO QUARTZ VEIN. BORNITE STAIN. 3650'

R 8, 9 - RUSTY TALUS FLOAT, MEDIUM TO DARK GREY SHALE WITH FINE PYRITE. ELEV. 4900'

R 10 - GREENISH-GREY COURSE GRAINED BEDROCK. FLUORESCES UNDER BLACKLIGHT. ELEV. 4000'

R 27 - RUSTY FINE GRAINED SLATE FLOAT WITH PYRITE. ELEV. 4350'

R 28 - COARSE GRAINED ORANGE, WHITE + BLACK BEDROCK. ELEV. 4400'

R 40, 41 - FINE GRAINED MEDIUM GREY IRON STAINED BEDROCK. ELEV. 4800'

R 46 - BLACK + WHITE COURSE GRAINED MINERALIZED FLOAT SPECIMEN. ELEV. 4600'

SILT SAMPLE NOTES: (SEE FIGURES 8 + 10 FOR ASSAY RESULTS)

S 1 - FROM VERY SMALL WEST FLOWING STREAM ON LOWER EDGE OF ORGANICS. EL. 3100'

S 2 - " SMALL CREEK FLOWING SOUTH INTO WEST LOGJAM CK. ELEV. 4000'

S 3 - " SMALL FLOWING EAST INTO WEST LOGJAM CK. EL. 3850'

S 4 - " SMALL CREEK FLOWING WEST INTO THE SMART RIVER. EL. 3200'

S 5 - " VERY SMALL CREEK FLOWING WEST INTO SMART RIVER. EL. 3450'

S 6 - " VERY SMALL CREEK FLOWING NORTH TOWARDS SMART RIVER. ELEV. 3400'

S 8 - " MAIN LOGJAM CREEK (LG. + FAST FLOWING) ABOVE WEST LOGJAM CK. JUNCTION EL. 3400'

S 9 - " WEST LOGJAM CREEK JUST ABOVE JUNCTION WITH MAIN LOGJAM CK. ELEV. 3400'

S 10 - " SMALL DRY STREAM BED JUST NORTH OF 2-LADDER CK. ELEV. 4500'

L 1 - " VERY SMALL SOUTH FLOWING CREEK DRAINING ORGANIC SITE. ELEV. 4100'

L 2 - " VERY SMALL CREEK IN ORGANIC AREA + FLOWING TOWARDS 2-LADDER CK. EL. 3900'

AREA #2 (SWIFT LAKE EAST) - SEE FIGURE 3. FOR SAMPLE LOCATIONS

ROCK SPECIMEN NOTES: (SEE FIGURES 6, 7 + 9 FOR ASSAY RESULTS)

K 3 - LIGHT GREY FINE-GRAINED BEDROCK / IRON STAINED. EL. 4150'.

K 4, 5 - GREENISH-GREY TALUS ROCK WITH PYRITE MINERALIZATION. EL. 5200'

K 6, R 26 - GREY + WHITE FINE GRAINED TALUS ROCK WITH PYRITES. EL. 4700'

R 11, 12 - YELLOWISH-GREY LAYERED BEDROCK WITH SULPHIDES. EL. 4300'

R 13 - RUSTY LIGHT GREY + BUFF COLOURED BEDROCK. FINE MINERALIZATION. EL. 4200'

R 14 - FINE GRAINED GREY BEDROCK WITH IRON STAINING + PYRITE. EL. 4800'

R 15 - RUSTY QUARTZ BEDROCK WITH PYRITE INCLUSIONS - EL. 4400'

R 16 - COARSE GRAINED GREY + WHITE TALUS ROCK. EL. 4450'

R 21, 22, 23, 23A - RUSTY BEDROCK WITH YELLOW + GREEN STAINING. SULPHIDES SHOWING. EL. 5200'

R 24, 25, 25A - RUSTY GREY BEDROCK + TALUS WITH YELLOW + ORANGE STAINS. EL. 5350'

R 42 - FINE GRAINED BLACK SLATE GREY FLOAT WITH FINE MINERALIZATION. EL. 2800'

(CONTINUED ON FOLLOWING PAGE) →

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.]

NO GEOPHYSICAL SURVEYS UNDERTAKEN

(GEOCHEMICAL RESULTS CONTINUED FROM PREVIOUS PAGE)

SILT SAMPLE NOTES: (SEE FIGURE 8 FOR ASSAY RESULTS)

S7 - FROM VERY SMALL STREAM FLOWING SOUTH THROUGH ORGANICS. EL. 4250'.

AREA #3 (TESLIN LK.) - SEE FIGURE 4 FOR SAMPLE LOCATIONS.

ROCK SPECIMEN NOTES: (SEE FIGURES 7+9 FOR ASSAY RESULTS)

K8, R30 - DARK GREY IRON STAINED TALUS. EL. 5500'.

K29 - FINE GRAINED GREENISH-GREY BEDROCK. NO VISIBLE MINERALS. EL. 3100'

AREA #4 (REDFISH) - SEE FIGURE 5 FOR SAMPLE LOCATIONS

ROCK SPECIMEN NOTES: (SEE FIGURES 6+7 FOR ASSAY RESULTS)

K9 - QUARTZ LIKE ROCK WITH RED STAINING (BEDROCK) EL. 3700'

K10 - DARK UNSTRATIFIED ROCK TALUS WITH IRON STAINING. EL. 3400'

R31, 32 - GREY + WHITE COARSE GRAINED BEDROCK VEIN MATERIAL. EL. 3500'

SILT SPECIMEN NOTES: (SEE FIGURE 8 FOR ASSAY RESULTS)

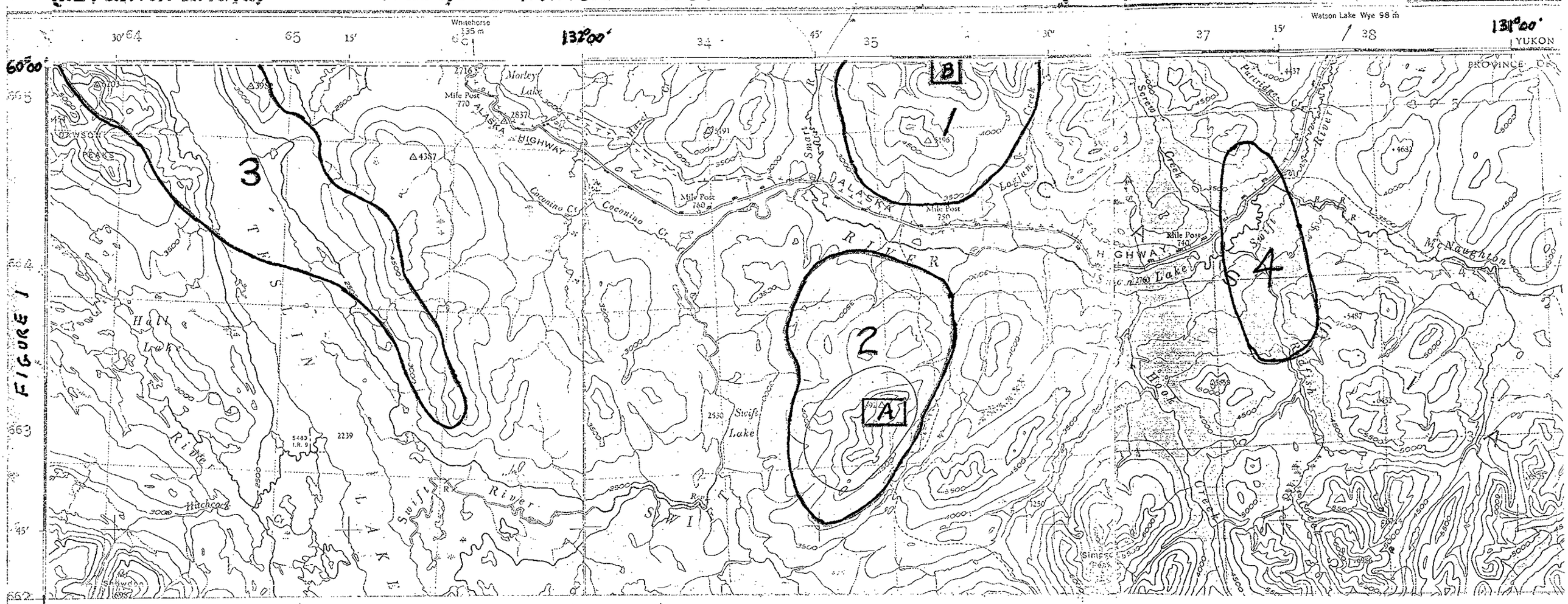
S11 - FROM LARGE FAST FLOWING REDFISH CK. ELEV 3450'.

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.]

NO DRILLING OR PHYSICAL WORK UNDERTAKEN.

Signature of Grantee Dan Blanchflower Date Jan. 29/01

(NE PORTION OF 104N) 1:250,000 NATIONAL TOPOGRAPHIC SERIES (NW PORTION OF 1048)



SWIFT RIVER / TESLIN LK. PROJECT AREA

AREA #1 - SMART/LOGJAM
AREA #2 - SWIFT LK. EAST
AREA #3 - TESLIN LAKE
AREA #4 - REDFISH

EXISTING MINERAL PROPERTIES
A - ARSENAULT
B - LOGTUNG (B.C.)

FIGURE #1

Scale 1:250,000
1 Inch to 4 Miles Approximately

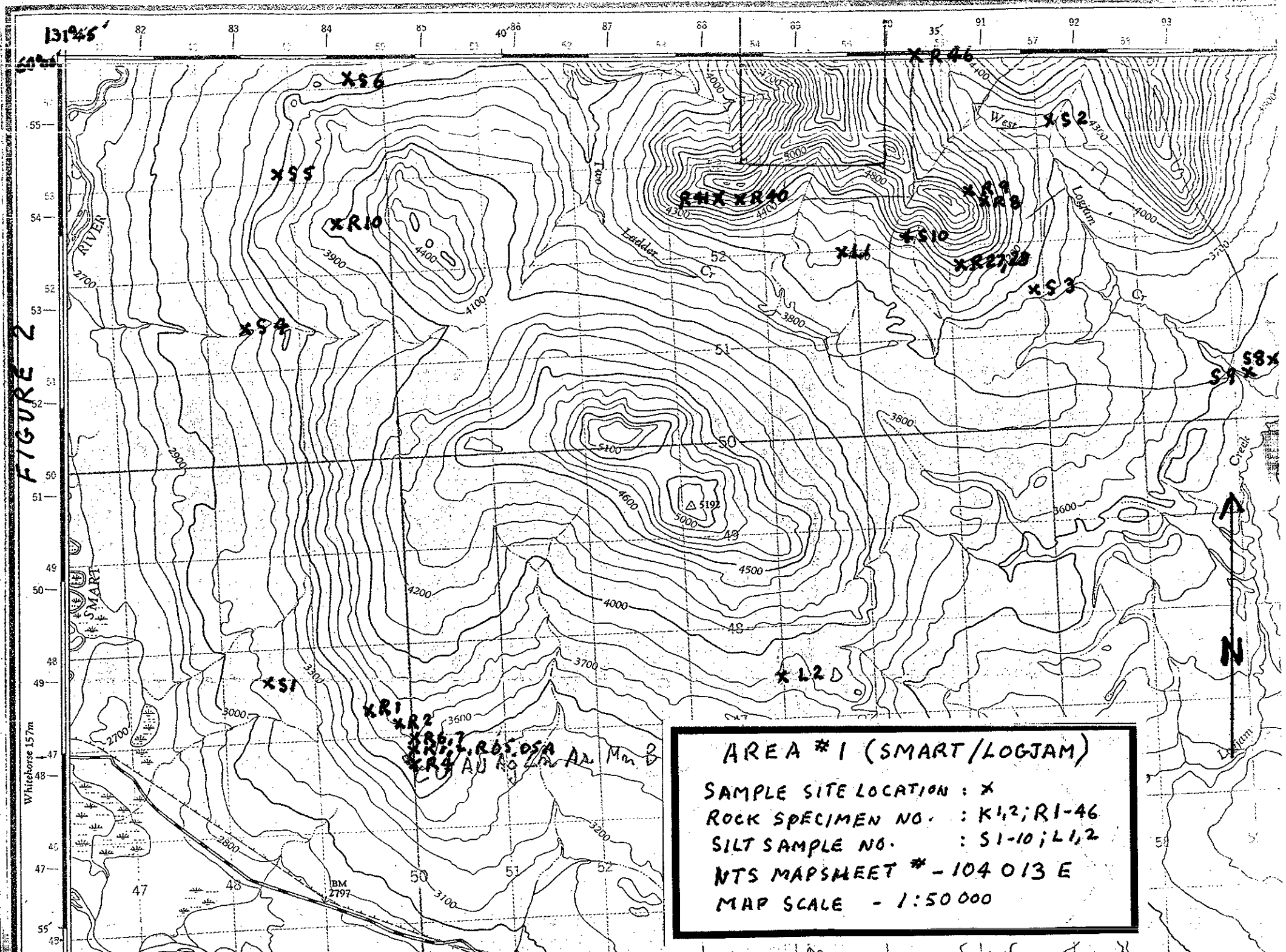


FIGURE 2
AREA #1 (SMART/LOGJAM)
SAMPLE SITE LOCATION : X
ROCK SPECIMEN NO. : K1,2; R1-46
SILT SAMPLE NO. : S1-10; L1,2
NTS MAPSHEET # - 104 O13 E
MAP SCALE - 1:50 000
N
SMART
Logjam
Ladder Cr
Whitehorse 157m
BM 2797

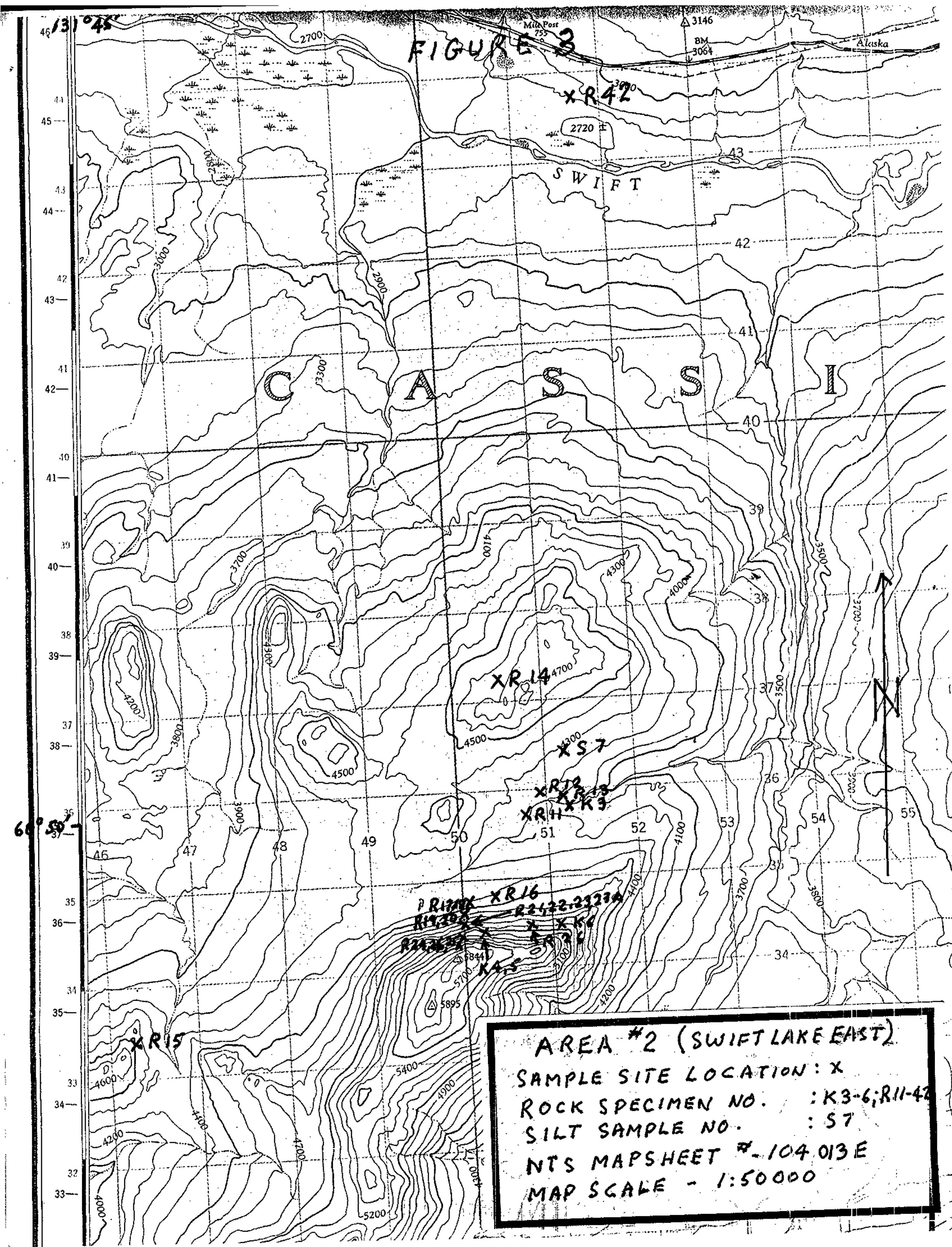


FIGURE 3
131°45'
60°50'
Mile Post 755
3146
BM 3064
Alaska
XR42
2720
SWIFT
CASSI
XR14
XS7
XR12
XR13
XK3
XR11
XR16
R17,18X
R19,20X
R21,22,23,23A
XK6
R24,25,26
K4,5
XR15
5844
5895
AREA #2 (SWIFT LAKE EAST)
SAMPLE SITE LOCATION : X
ROCK SPECIMEN NO. : K3-6; R11-42
SILT SAMPLE NO. : S7
NTS MAPSHEET #- 104 013 E
MAP SCALE - 1:50000
N

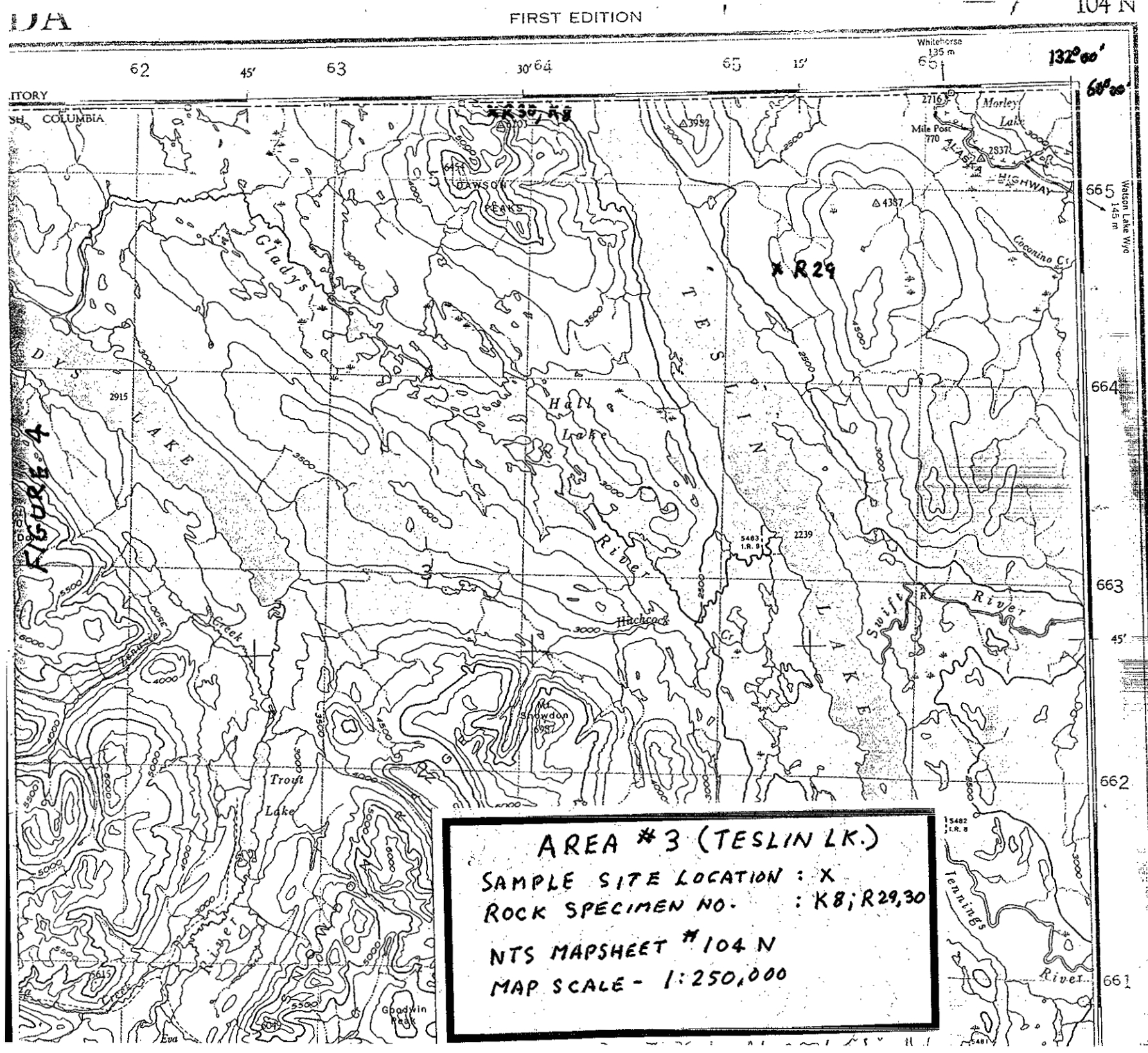
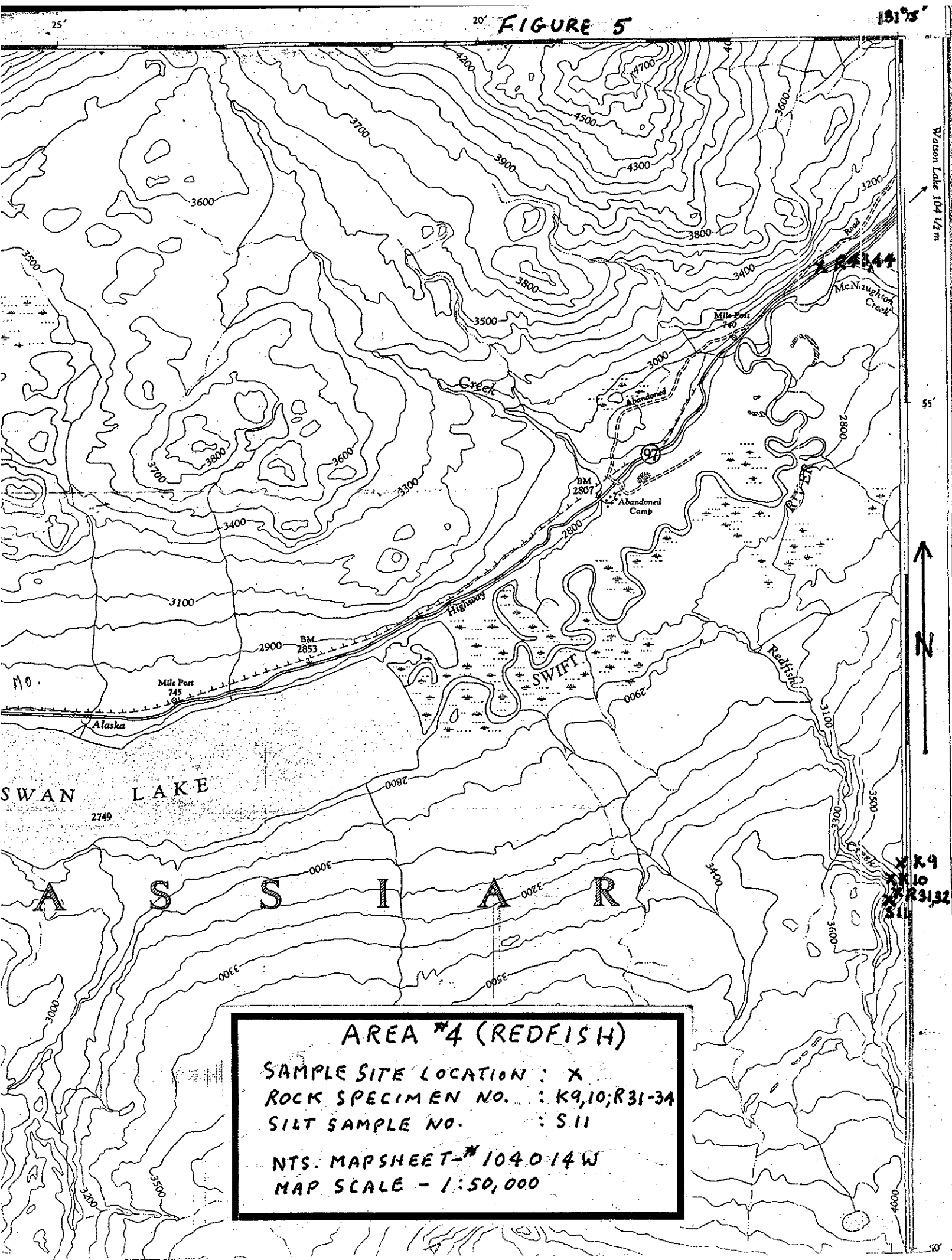


FIGURE 5


Watson Lake 104 1/2 m
Road
McNaughton Creek
Mile Post 740
Abandoned
Abandoned Camp
BM 2807
Highway
BM 2853
Mile Post 745
Alaska
SWIFT
RIVER
Redfish
Creek
SWAN LAKE
2749
ASSIAR
N
X K9
X K10
X R31,32
X S11
AREA #4 (REDFISH)
SAMPLE SITE LOCATION : X
ROCK SPECIMEN NO. : K9,10;R31-34
SILT SAMPLE NO. : S11
NTS. MAPSHEET-# 104 O 14 W
MAP SCALE - 1:50,000

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Blower, Dan File # A002470 Page 1

585 Nora Place, Victoria BC V8Z 2M2 Submitted by: Dan Blower

FIGURE 6

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
K-1	2	16	3	79	<.3	12	6	229	2.02	6	<8	<2	17	6	.2	<3	<3	13	.08	.037	35	20	.17	34	<.01	<3	1.36	.02	.20	2	.8
K-2	2	91	<3	21	<.3	11	10	1333	.60	21	9	<2	2	3	<.2	<3	3	11	.02	.008	7	13	.01	450	<.01	6	.13	.01	.07	4	1.6
K-3	<1	34	9	69	<.3	29	10	587	2.77	<2	<8	<2	11	290	.4	<3	<3	48	9.30	.060	39	51	1.33	95	.19	3	4.41	.26	1.15	2	1.7
K-4	6	55	7	14	<.3	27	10	443	2.06	8	<8	<2	7	16	.2	<3	3	14	2.00	.073	17	15	.24	18	.07	6	.21	.03	.04	<2	3.7
K-5	12	91	25	161	<.3	20	9	678	3.59	23	<8	<2	8	7	.5	<3	4	43	.58	.059	18	43	.88	23	.09	3	1.29	.06	.53	5	13.3
K-6	1	79	<3	14	<.3	29	24	189	2.66	<2	<8	<2	6	40	<.2	<3	3	9	1.17	.094	18	10	.09	15	.08	5	.44	.02	.03	<2	2.3
K-9	3	24	<3	11	<.3	6	2	58	1.12	7	<8	<2	<2	2	<.2	<3	<3	5	.01	.010	5	17	.02	165	<.01	7	.17	<.01	.10	3	1.8
K-10	3	28	3	31	<.3	28	9	2401	2.81	18	11	<2	<2	90	.4	<3	<3	11	.69	.170	6	19	.36	231	.01	10	.50	.01	.16	3	1.3
R-1	1	40	15	43	.3	4	5	1016	4.46	<2	<8	<2	<2	21	1.9	6	<3	129	1.38	.081	5	15	.27	133	.05	<3	.52	.01	.29	13	9.5
R-2	3	12	<3	13	<.3	8	6	1405	.46	17	<8	<2	<2	3	<.2	<3	<3	2	.01	.001	<1	18	.07	345	<.01	<3	.06	<.01	.01	8	2.3
R-4	4	7	5	23	<.3	6	7	3365	.50	2	<8	<2	<2	33	<.2	<3	<3	6	.03	.003	<1	21	.02	3136	<.01	8	.08	.01	.05	7	<.2
R-5	1	5734	4	148	1.8	19	22	2301	6.03	3	<8	<2	5	61	.3	3	7	64	1.77	.067	13	9	2.18	1312	.01	3	3.66	.03	.09	3	189.1
R-5A	2	3127	7	166	.7	27	21	2828	6.14	2	<8	<2	5	48	.3	<3	7	112	3.08	.210	14	9	2.17	224	.01	<3	3.76	.03	.12	3	42.1
R-6	1	64	4	153	<.3	12	14	507	4.40	<2	<8	<2	5	11	<.2	<3	<3	23	.51	.091	15	5	1.28	116	.02	<3	2.60	.03	.12	3	12.5
R-7	5	19	<3	121	<.3	19	48	1796	4.87	5	<8	<2	3	22	.4	<3	<3	20	2.69	.089	8	12	1.49	67	<.01	<3	2.22	.03	.06	4	1.2
R-8	3	113	3	61	.4	22	21	534	4.79	60	<8	<2	<2	26	<.2	<3	3	126	.63	.072	5	42	1.44	81	.34	4	2.06	.16	1.10	4	2.0
R-9	2	64	<3	45	<.3	17	20	361	3.72	37	<8	<2	<2	22	<.2	<3	<3	132	.59	.073	5	31	1.17	85	.28	<3	1.76	.16	.94	2	11.0
R-10	1	249	12	92	1.5	12	17	1235	5.08	2	<8	<2	2	39	.5	<3	<3	14	3.25	.028	4	9	1.57	58	.04	<3	2.21	.01	.04	3	36.8
RE R-10	1	255	10	94	1.6	11	18	1258	5.19	<2	<8	<2	2	39	.3	<3	<3	14	3.29	.029	4	9	1.61	59	.04	<3	2.24	.01	.04	3	30.8
R-11	3	35	8	106	.3	24	11	1466	4.97	2	<8	<2	10	113	.2	<3	<3	66	7.07	.028	27	63	2.17	126	.23	<3	3.31	.08	.91	4	6.8
R-12	1	192	45	27	.5	3	7	331	3.04	5	<8	<2	2	12	.3	<3	<3	49	1.71	.107	7	4	.92	25	.13	<3	1.82	.04	.20	2	17.8
R-13	4	7	19	38	<.3	4	<1	215	8.38	145	<8	<2	5	12	<.2	3	7	<1	.19	.018	8	17	.39	10	.02	<3	.90	.08	.25	5	156.1
R-14	5	21	12	138	<.3	27	6	250	3.58	<2	<8	<2	3	129	.4	<3	3	59	2.15	.027	6	49	.82	80	.08	<3	3.36	.34	.09	4	3.9
R-15	2	64	10	38	<.3	28	32	216	6.25	46	<8	<2	<2	58	<.2	<3	<3	14	1.96	.016	2	19	.92	7	.07	<3	1.02	.09	.03	3	5.1
R-16	21	436	<3	12	<.3	77	32	195	3.91	16	<8	<2	3	8	<.2	<3	<3	33	.45	.051	7	28	.15	13	.07	<3	.35	.02	.04	6	4.5
R-17	22	88	10	17	<.3	22	6	281	1.65	13	<8	<2	9	11	<.2	3	<3	22	1.40	.099	13	32	.57	17	.07	4	1.39	.03	.18	2	15.7
R-18	32	79	8	12	<.3	16	6	266	1.47	15	<8	<2	6	10	<.2	<3	<3	21	1.51	.119	11	28	.50	16	.08	<3	1.38	.02	.17	3	4.7
R-19	3	118	4	65	.4	3	2	208	2.68	124	<8	<2	18	5	<.2	<3	<3	105	.02	.028	17	42	1.52	137	.06	3	1.56	.03	.68	2	20.5
R-20	1	61	<3	80	<.3	166	33	823	3.99	2	<8	<2	<2	13	<.2	<3	<3	30	.99	.041	1	395	2.43	12	.14	<3	2.35	.04	.07	3	2.7
R-21	2	1735	18	192	1.2	39	1	563	6.35	2	<8	<2	8	10	.7	<3	4	13	.96	.105	22	82	.37	9	.09	<3	.52	.03	.06	6	7.6
R-22	2	910	11	107	1.3	35	4	458	17.81	12	12	<2	2	26	.2	<3	5	12	1.20	.048	4	14	.47	15	.07	<3	.69	.04	.14	3	20.0
R-23	5	158	<3	5	.3	9	3	81	2.58	149	<8	<2	3	3	<.2	4	<3	6	.10	.024	2	25	.19	21	.01	<3	.31	.01	.16	8	20.2
R-23A	7	318	16	1	.9	50	26	48	13.52	179	<8	<2	<2	3	<.2	5	18	15	.06	.011	4	27	.17	12	.03	<3	.43	.02	.22	6	50.6
STANDARD C3/DS2	25	63	32	172	5.4	36	11	757	3.31	58	18	2	19	26	24.5	13	24	72	.59	.087	16	157	.63	143	.09	20	1.83	.04	.16	17	221.3
STANDARD G-2	2	3	3	41	<.3	8	4	517	1.93	2	<8	<2	6	66	<.2	3	<3	34	.64	.094	6	65	.60	215	.13	6	.95	.07	.47	3	-

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 20 2000 **DATE REPORT MAILED:** Aug 4/00 **SIGNED BY** ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ✓ FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
R-24	11	62	11	37	<.3	13	5	229	2.71	4	<8	<2	4	16	<.2	<3	3	46	.58	.084	8	42	.24	21	.10	4	.39	.04	.15	6	4.7
R-25	3	856	56	298	1.0	57	20	634	9.66	2	<8	<2	9	5	1.4	<3	7	32	.54	.040	17	35	1.06	21	.07	<3	1.53	.03	.56	2	9.7
R-25A	54	350	14	195	<.3	94	22	1012	4.29	17	<8	<2	15	37	1.0	<3	<3	69	3.18	.131	59	164	1.32	19	.11	9	1.80	.04	.18	4	2.0
R-26	17	36	11	25	<.3	35	9	294	1.85	<2	<8	<2	4	11	<.2	<3	<3	23	.52	.063	18	26	.23	30	.06	4	.37	.01	.07	8	2.2
R-27	3	51	7	64	.8	19	8	124	1.70	2	<8	<2	5	38	.4	<3	<3	79	.40	.085	16	50	1.20	165	.09	9	1.66	.15	.86	2	2.4
R-28	2	4	15	42	<.3	4	<1	96	.92	7	<8	<2	31	1	<.2	<3	<3	2	.16	.007	45	10	.03	10	.02	<3	.34	.04	.23	7	1.1
R-29	<1	98	5	87	<.3	10	20	1246	4.01	6	<8	<2	<2	36	<.2	<3	<3	64	1.16	.084	3	15	1.60	46	.23	4	2.28	.03	.05	2	1.3
R-30	5	13	3	90	<.3	3	10	551	3.95	3	<8	<2	2	70	.5	<3	<3	82	.99	.156	9	7	.21	136	.17	5	2.12	.22	.49	3	.6
R-31	4	13	<3	7	<.3	9	5	55	.86	2	<8	<2	<2	3	<.2	<3	<3	4	.02	.010	1	27	.05	27	<.01	7	.16	.01	.04	6	.6
R-32	2	51	<3	11	<.3	8	4	167	.56	3	<8	<2	<2	8	<.2	<3	<3	3	.05	.019	2	24	.01	35	<.01	3	.08	<.01	.05	6	1.0
RE R-32	3	48	<3	10	<.3	9	4	161	.55	3	10	<2	<2	7	<.2	<3	<3	2	.05	.019	2	21	.01	32	<.01	4	.07	<.01	.05	7	.8
STANDARD C3/DS2	26	66	35	166	6.1	37	11	856	3.61	60	18	2	21	33	25.1	13	25	82	.61	.093	19	177	.63	167	.09	28	1.94	.05	.18	16	214.6

FIGURE 7

Sample type: ROCK. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ✓ FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Blower, Dan File # A002471

585 Nora Place, Victoria BC V8Z 2M2 Submitted by: Dan Blower

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
S-1	<1	49	13	62	<.3	19	11	676	2.24	14	<8	<2	5	17	.2	<3	<3	34	.35	.064	15	12	.41	120	.04	3	.70	.01	.11	<2
S-2	1	33	13	98	<.3	30	12	685	2.63	56	<8	<2	4	51	.7	<3	<3	34	.50	.070	14	31	.68	74	.05	5	1.43	.03	.14	3
S-3	7	18	10	203	<.3	29	10	2441	3.04	23	<8	<2	<2	53	6.2	<3	3	44	.93	.093	11	33	.46	199	.04	3	1.13	.02	.07	2
S-4	<1	19	9	77	<.3	21	8	338	2.61	12	<8	<2	2	27	.3	<3	4	37	.62	.063	10	21	.58	120	.06	6	.75	.01	.07	<2
S-5	1	46	7	76	<.3	20	9	453	2.14	5	<8	<2	3	27	.2	<3	<3	38	.58	.062	11	22	.56	170	.08	<3	1.12	.01	.13	<2
S-6	<1	17	8	49	.5	21	7	344	1.63	8	<8	2	6	18	.2	3	<3	25	.32	.052	12	19	.41	91	.05	13	.77	.01	.06	<2
S-7	<1	7	4	47	<.3	14	5	404	1.98	2	<8	<2	3	23	.2	<3	<3	27	.48	.061	12	20	.37	89	.06	7	.70	.02	.05	<2
S-8	<1	15	11	65	<.3	44	12	1058	2.78	30	<8	<2	4	36	.6	<3	<3	40	.50	.079	14	44	.88	109	.06	9	1.13	.02	.07	3
RE S-8	1	17	9	68	<.3	45	12	1090	2.85	29	<8	<2	4	37	.5	<3	<3	42	.52	.083	15	45	.90	106	.06	6	1.17	.02	.08	2
S-9	7	20	10	69	<.3	27	10	1004	2.29	30	<8	<2	4	31	.8	<3	4	38	.43	.070	14	33	.56	131	.06	11	1.07	.02	.08	16
S-10	5	172	12	237	.9	72	12	934	3.07	66	<8	<2	<2	149	7.6	<3	5	63	1.76	.137	11	31	.57	132	.05	17	1.68	.04	.18	7
S-11	<1	9	4	43	<.3	15	6	597	1.76	4	<8	<2	2	28	<.2	<3	<3	33	.37	.060	11	17	.40	191	.05	<3	.68	.02	.07	<2
STANDARD C3	25	63	34	167	5.8	36	11	813	3.43	57	17	<2	20	31	23.9	12	24	78	.58	.088	18	168	.59	159	.08	27	1.84	.04	.17	16
STANDARD G-2	1	2	6	44	<.3	8	4	541	2.00	<2	<8	<2	3	70	<.2	<3	<3	36	.63	.097	7	66	.58	216	.11	3	.93	.07	.47	2

FIGURE 8

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 20 2000 **DATE REPORT MAILED:** Aug 2/00 **SIGNED BY.....** C. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Date ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Blower, Dan File # A004541

585 Nora Place, Victoria BC V8Z 2M2 Submitted by: Dan Blower

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
K-8	6	11	<3	21	<.3	6	<1	51	1.22	35	<8	<2	<2	2	<.2	<3	<3	2	.01	.014	1	28	.01	68	<.01	<3	.08	.01	.04	10
R-40	3	65	4	55	<.3	186	27	295	3.00	107	<8	<2	2	67	<.2	<3	3	85	.85	.127	7	310	1.99	94	.22	<3	2.36	.16	1.40	2
R-41	12	139	5	21	.4	43	11	114	1.99	13	<8	<2	4	61	.2	<3	<3	66	.91	.148	17	56	.31	244	.10	<3	1.05	.17	.15	5
R-42	3	38	<3	69	<.3	23	16	670	3.59	3	<8	<2	2	33	<.2	<3	<3	51	.70	.074	6	37	1.79	154	.20	<3	2.17	.05	.34	2
R-43	5	99	6	56	<.3	27	10	237	3.04	12	<8	<2	3	46	.4	<3	<3	36	.36	.141	13	17	.60	54	.01	5	.88	<.01	.27	2
R-44	7	89	6	17	<.3	33	13	751	4.31	79	<8	<2	2	49	<.2	<3	<3	18	.64	.136	6	16	.49	51	<.01	3	.65	<.01	.20	<2
R-45	2	81	4	87	<.3	10	20	977	5.76	2	<8	<2	<2	21	.4	<3	<3	166	2.79	.086	5	21	1.82	12	.17	<3	4.04	.05	.10	<2
R-46	145	271	9	71	.5	34	9	702	2.51	3	<8	<2	3	63	.7	<3	8	82	1.72	.077	12	53	.54	124	.18	45	.90	.15	.10	381
RE R-46	144	269	11	70	.3	33	8	692	2.47	3	<8	<2	2	63	.6	<3	6	83	1.70	.076	12	52	.53	118	.18	42	.88	.15	.09	381
STANDARD C3	27	70	37	170	5.6	39	12	807	3.56	57	18	3	23	32	23.7	15	26	79	.59	.099	20	182	.63	162	.09	21	1.86	.04	.18	16

FIGURE 9

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 8 2000 DATE REPORT MAILED: Nov 22/00 SIGNED BY. C. Leong .D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Blower, Dan File # A004542

585 Nora Place, Victoria BC V8Z 2M2 Submitted by: Dan Blower

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
L-1	3	35	12	125	.6	40	10	1078	2.41	28	17	<2	2	60	2.6	<3	<3	54	1.17	.127	18	121	.50	266	.04	<3	1.74	.01	.12	7
L-2	2	41	6	65	<.3	20	8	518	2.18	6	<8	<2	2	47	.2	<3	<3	35	.85	.075	14	27	.46	222	.06	<3	1.10	.01	.09	<2
RE L-2	2	41	7	65	<.3	20	8	523	2.18	6	8	<2	3	46	.3	<3	<3	36	.86	.074	14	27	.46	213	.06	<3	1.10	.01	.10	<2
STANDARD C3	27	70	37	170	5.6	39	12	807	3.56	57	18	3	23	32	23.7	15	26	79	.59	.099	20	182	.63	162	.09	21	1.86	.04	.18	16

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 8 2000 **DATE REPORT MAILED:** Nov 22/00 **SIGNED BY.....** D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

FIGURE 10

Data ✓ FA ___