LAC MINERALS LTD.

Report on the ESKER Claims

Summary of the 1987 Work

including

Geology, Pit Geochemistry, Line Cutting, Road Building, Induced Polarization and Reverse Circulation Drilling

Nazko Area, Cariboo M.D. British Columbia

N.T.S.: 93B/13E

Latitude: 52° 54'

Longitude: 123° 42'

by: R.F. Brown, P.Eng. February 1988

Owner & Operator: LAC MINERALS LTD.

ARIS SUMMARY SHEET

District Geologist, Prince George Off Confidential: 89.03.02

ASSESSMENT REPORT 17145 MINING DIVISION: Cariboo

PROPERTY: Esker
LOCATION: LAT 52 54 00 LONG 123 42 00
UTM 10 5861158 452912
NTS 093B13E
CLAIM(S): Esker 1-4
OPERATOR(S): Lac Min.
AUTHOR(S): Brown, R.F.
REPORT YEAR: 1988, 39 Pages
COMMODITIES SEARCHED FOR: Gold
GEOLOGICAL SUMMARY:

Lower Cretaceous Skeena Group? siltstones, sandstones and argillites with minor chert pebble conglomerate are cut by pale green felsite dykes and white quartz-feldspar felsic porphyry dykes. The survey results show clay alteration, rusty cubic voids, anomalous values of arsenic, mercury, silver, gold, and copper in soil, and an induced polarization chargeability anomaly.

WORK DONE: Geophysical,Geochemical,Drilling,Physical
IPOL 5.3 km
Map(s) - 3; Scale(s) - 1:5000,1:10 000
LINE 5.3 km
ROAD 1.6 km
ROCK 159 sample(s) ;ME
ROTD 228.6 m 3 hole(s)
SOIL 92 sample(s) ;ME
Map(s) - 4; Scale(s) - 1:10 000

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TABLES

FIGURES

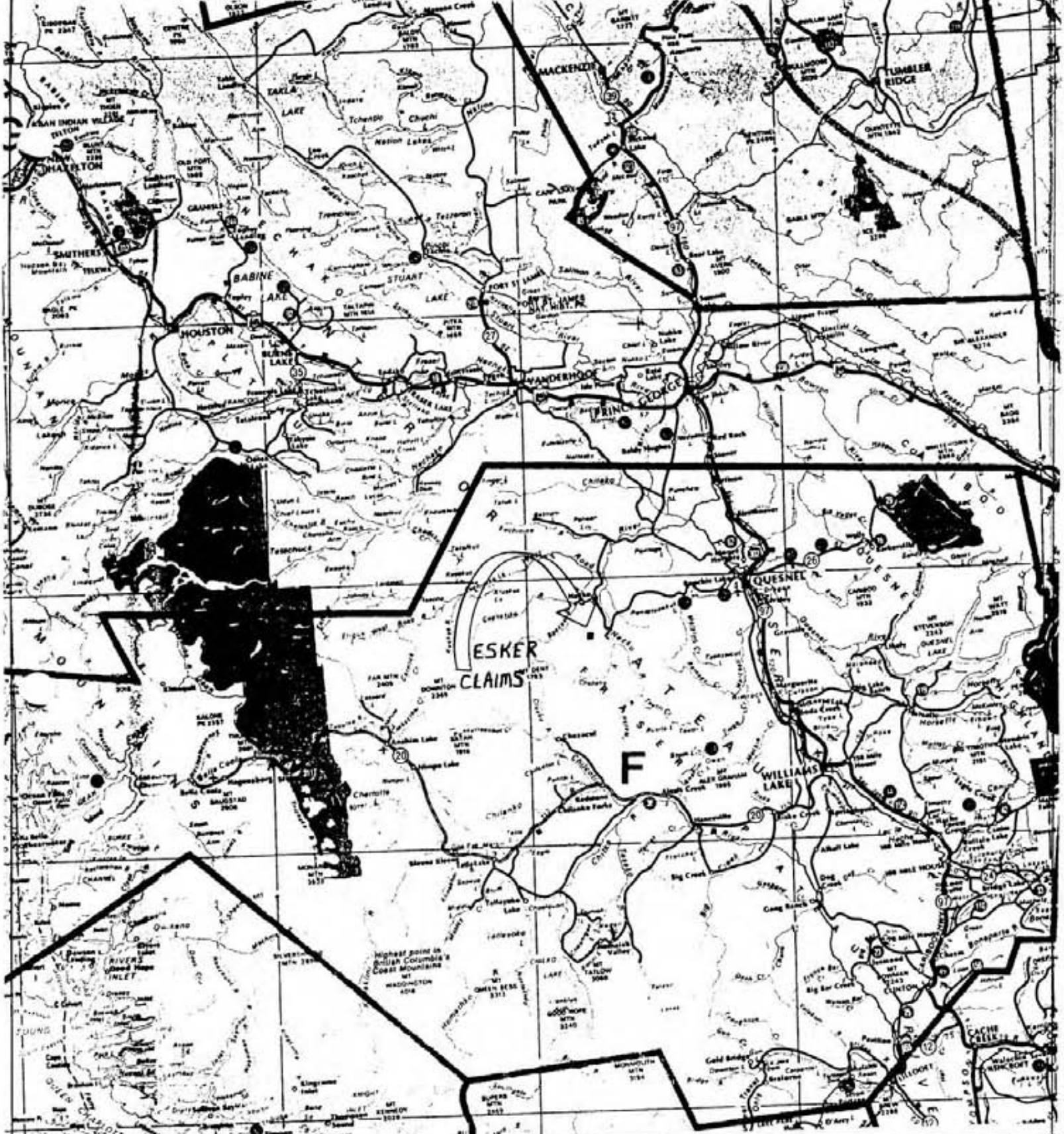
APPENDICES

TABLE #1

Summary of ESKER claims, Cariboo M.D.

	Record #	Record Date	#UNITS	EXPIRY DATE*
ESKER 1	8419	May 29, 1987	10	May 29, 1990
ESKER 2	8420	May 29, 1987	15	May 29, 1990
ESKER 3	8421	May 29, 1987	12	May 29, 1990
ESKER 4	8422	May 29, 1987	8	May 29, 1990

* INCLUDING THIS REPORTS ASSESSMENT CREDITS



LAC MINERALS LTD. FIGURE # 1

LOCATION OF ESKER CLAIMS
BRITISH COLUMBIA.

N.T.S. 93B/13E

1:2,500,000 SCALE.

JAN.'88

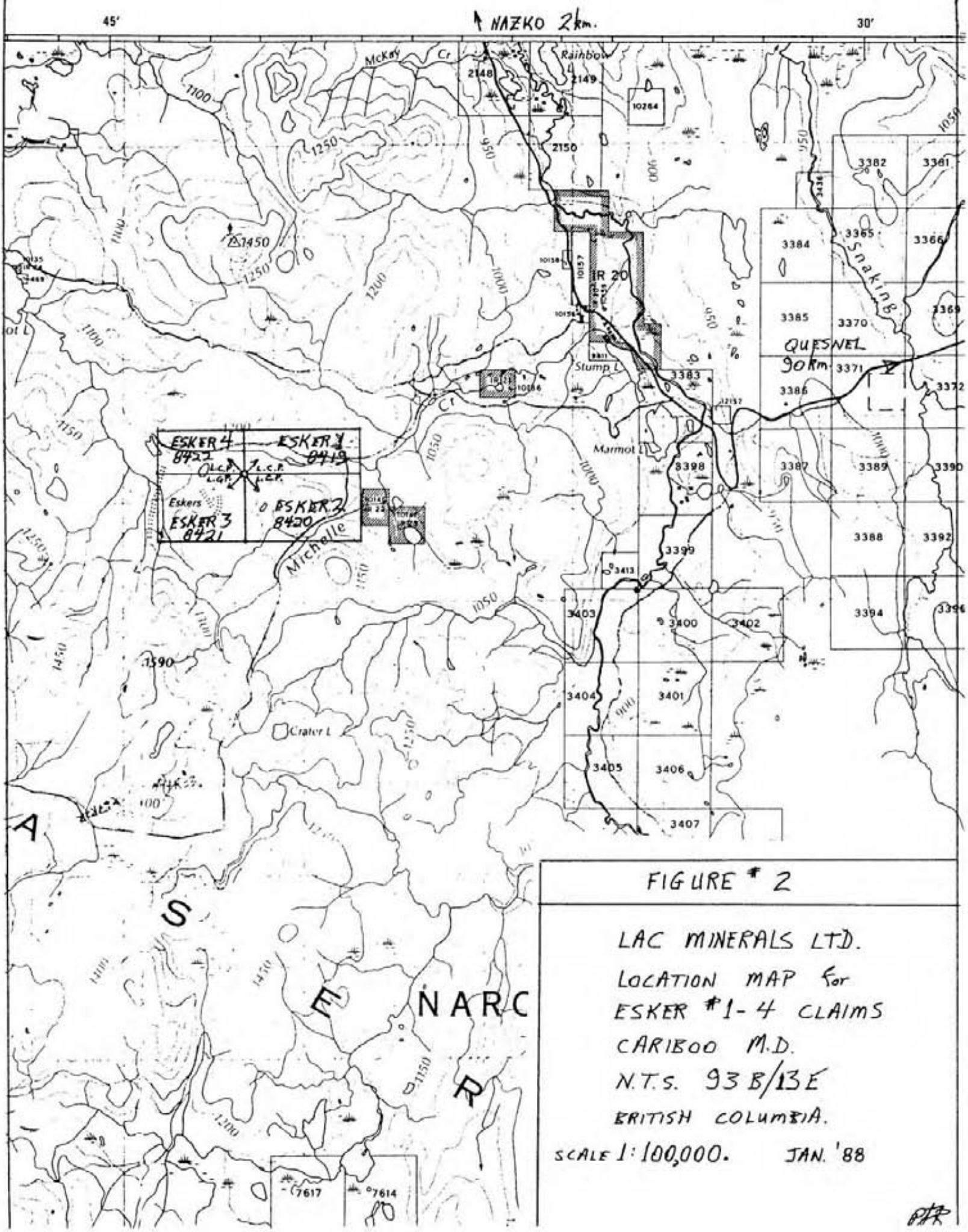


FIGURE # 2

LAC MINERALS LTD.

LOCATION MAP for

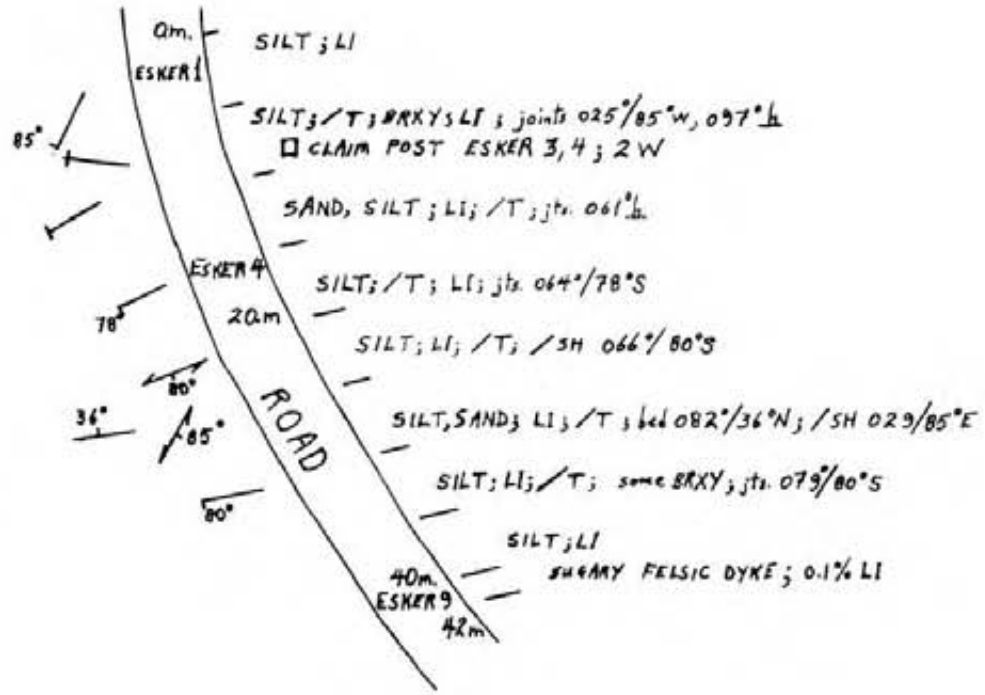
ESKER #1-4 CLAIMS

CARIBOO M.D.

N.T.S. 93 B/13 E

BRITISH COLUMBIA.

SCALE 1:100,000. JAN. '88



LEGEND

20°	BED
70°	SHEAR
30°	JOINT
SILT	SILTSTONE
SAND	SANDSTONE
LI	LIMONITE STAIN
BRXY	BRECCIATED
/T	SHATTERED
/SH	SHEAR
JTS	JOINTS.

FIG. 7

LAC MINERALS LTD.

ESKER 1-4 CLAIMS; CARIBOO MD.

N.T.S. 93 B/13; SCALE 1:500

JANUARY, 1988.

RB.

INTRODUCTION:

The ESKER 1-4 claims were staked in May 1987 over a weak Cu, Pb soil anomaly from a Selco Division - BP Resources Canada Ltd. (Arnold & Hoffman 1984) survey on the lapsed PM 5 and 6 claims. Coincidentally flanking the soil anomaly was a large area probably underlain by limonitic quartz-feldspar felsic porphyry identical to porphyry on the Bob claims of LAC MINERALS LTD. 5 km to the east. After staking, two lines were cut and flagged, they subsequently were used for a induced polarization survey. Pit sampling of old Selco - B.P. soil sites was done to confirm results and profile the till. Results were encouraging enough to build an access trail and establish four (4) drill sites. Three short reverse circulation holes were drilled in I.P. or coincident I.P., soil and rock geochemistry enhanced areas. The 1987 work is detailed in this report. No further work is presently recommended.

CLAIMS:

The ESKER 1-4 claims were staked in late May 1987 and recorded on May 29, 1987 (Table #1). They have 45 units in total and overlay and extend west of Selco-B.P. lapsed P.M. 5, 6 claims and the ancient E & B Explorations Inc. Sunshine claims (Christie, Howell & Harivel, 1982). The ESKER 1-4 claims will be grouped for assessment purposes into the "ESKER" group.

GEOGRAPHY:

The ESKER claims are located 80 km west of Quesnel on N.T.S. 93B/13E (Figure #1, 2). Access, year round from Quesnel, is on the paved Nazko road, then onto the gravel Michelle Creek (3900 road) logging road where several branches dissect the claims.

The claims are characterized by low rolling hills with elevations between 1000-1250m. Michelle Creek cuts east-north eastward through ESKER 2 as a narrow valley widening near the east edge of the claims. The west half of ESKER 4 and the N.W. of ESKER 3 are rather flat marked by swamps, ponds and eskers. Two hills on ESKER 2 are prominent features and they straddle Michelle Creek, both show minor rock outcroppings.

The claims are forested by coniferous (spruce, pine) and deciduous (older trees) from mid age to mature harvestable stands.

The north parts of ESKER 1, 4 have been logged as has most of ESKER 3 claim.

GENERAL GEOLOGY

Only several outcrops are found on the ESKER claims (Fig. 6). They are predominately Lower Cretaceous sediments (Nelson, 1985; Tipper, 1959) of chert pebble conglomerate, sandstone, siltstone and argillite composition. These L. Cretaceous sediments are found in two road cuts (Esker 3, 4; 2W claim post and on the 3900 road midway in Esker 2 claim). Near bedrock talus on the hill in mid Esker 1 claim has pieces of siltstone along with quartz feldspar felsic porphyry (Q.F.F.P.). The Q.F.F.P. is identical to that found on the Bob claims to the east where the Q.F.F.P. is altered, pyritic and in some instances auriferous. On the Esker claims the Q.F.F.P. is limonitic with clay altered feldspar phenocrysts. Contact features were obscured so the nature of the Q.F.F.P. is unknown. Whole rock analysis of the alteration sericites from the Q.F.F.P. and Lower Cretaceous conglomerates on the nearby Bob claims bracket Tertiary Paleocene age. Along the south margin of the Esker 2 claim is a basaltic plug of late Tertiary age, associated flows can be found south of the plug. Recent age basaltic ash is found overlying the till along the 4000 road in the N.W. corner of Esker 4 claim. The ash is derived from a vent source displaying excellent basalt lava flows 1 km west of Esker 4 on the 4000 road.

Pre Staking Sampling:

LAC Minerals Ltd. sampling was done on a regional basis during the 1980's. Those samples falling within the Esker claims have been compiled (Table #2, #3) with descriptions and analysis. As well the Esker claims area has been twice previously worked, first by E & B Explorations Inc. as the Sunshine claims in 1981 and later by Selco Division - B.P. Resources Canada Limited as the P.M. 5 and 6 claims in 1984. The E & B work has some weak Ag, As values in outcrop along the 3900 road and in widely spaced soils samples. More detailed soil sampling by Selco outlined an interesting As, Pb, Cu with weak Au anomaly flanking the common Esker 1, 2 claim line (see Fig. 4).

Since As, Pb, Cu values are intimately associated with gold values on the Bob claims along with the favourable rock types found in the Esker area the Esker claims were staked by LAC Minerals Ltd.

Post Staking Sampling:

Besides the pit sampling only one outcrop was was sampled on the common boundary of Esker 3, 4 at the 2 west post (see Fig. 7). No significant geochemical values were found at this site.

Pit Sampling Geochemistry:

A set of pits were dug to check at various Selco sites the validity of Selco's As, Pb, Cu anomaly. Three samples were generally taken, the first of the brown "B" horizon soil, immediately under the organic layer, generally at 15-20cm depth. The second sample would be from 50cm depth and usually was locally derived till, the third sample was from 90 cm depth and was locally derived till (Tables 2, 3). A few deeper pit samples were clay rich or consisted mainly of gravels (south of small elongate pond on Esker 1 claim). If bedrock was struck in pit digging a sample of the rock was taken with the rock type and depth recorded.

Linecutting:

A crew from Amex Exploration Services Ltd. re blazed and flagged L80+00N and created L72+00N (Appendix IV).

Induced Polarization Survey:

P. Walcott and Associates ran an induced polarization survey along L80+00N from 40+00E to 80+00E and along L72N from 60+00E to 73+00E. The survey was done using a Huntec Mark IV receiver and a Phoenix IPT 1 transmitter between September 17-23, 1987. A dipole-dipole array was configured throughout the survey.

All work was done using a 50m electrode spacing and electrode intervals (n) of 1 to 4. The data was plotted on line pseudo-sections (Appendix #III).

Road Building

Road construction with right of way logging and skidding was contracted out to Dan Hjorth of Quesnel. Four drill sites large enough to accommodate a reverse circulation machine were coincidentally constructed. (Figure #3).

Reverse Circulation Drilling

Drill logging Method: The reverse circulation chips were logged using the International Geosystems Ltd. (Geolog) format. A legend (Appendix #VI) for Geolog explaining all the terms and symbols is necessary and self explanatory. Chip samples from the Esker claims were first washed then logged. Chip samples were randomly collected over a 1.52m (5 ft) interval for logging.

Drilling and Sampling Method

R.C. drilling was done by Tonto Drilling Co. of Burnaby, B.C. using a 5 1/4" (13.34 cm) down the hole hammer and 4 1/2" (11.43 cm) doubled rods. Two eleven hour shifts were used for near continuous drilling due to cold weather. All holes were drilled vertical. Casing was installed after drilling through overburden with a oversize bit. All holes were drilled dry with the total sample run left in the cyclone until the run end, at which time the sample was dumped into a large bucket, mixed with a shovel and approximately 4 kg taken for analysis and a small sample in a soil sample bag for binocular logging. The remaining sample was dumped.

The three (3) holes drilled were all bored to 250' (76.20m), their logs are in Appendix V, analysis in Appendix II, drill hole sections in Appendix I and they are located on Figure #3.

Discussion

The pit sampling expanded the area know to be underlain by Paleocene (?) intrusive rocks (Fig. #6) and confirmed Selco - B.P.'s soil sample survey.

Several types of intrusive rocks are found on the Esker claims. Sample 87R11 plus a 100m square area around the site has Q.F.F.P. (quartz-feldspar felsic porphyry) with limonitic cubic voids and highly altered feldspars. As well light green felsitic dyke material is found in a road cut at ESKER 9 site, and supposedly in pit sampling on L72+00N and L74+00E, and in R.C. 87-3.

Comparing the pit sample high element values (Fig. #5) to Selco-B.P. soil survey (Fig. #4) several interesting situations are notable. Selco outlined an As, Pb, Cu, Au anomaly (1 Ag high value, no Hg) while LAC pits outlined Ag primarily (some Cu, Au) in the 15-20 cm depth (regular soil sample depth) while the 0.5m and 0.9m depths had a strong Cu, Au, As, Hg anomaly with no Ag (Pb not analysed). There is a good overlap with Cu, Au but the Selco soil As anomaly is considerably north (down slope) from the LAC pit As anomaly.

The pit & soil anomaly lies along the N.E. edge of the known Paleocene intrusive rock and more or less along the N.E. edge of the stronger I.P. values (see Appendix III and Fig. 8).

No sulphide mineralization was noted in field mapping or in the detailed logging of the reverse circulation drill chips, with the exception of four (4) pyrite chips, the net from three (3) holes drilled. No graphite was seen either in chips or as a skim on the reject water. Several white clay gouge seams were encountered in each hole and R.C. 87-1 had a dark grey black gouge zone in argillite at 44.2m.

Gold values in the drill holes were nearly all in the single figure ppb range with the exception of a 259 ppb value in R.C. 87-3 (39.62-41.15m) which has no immediate explanation. Composite values in the R.C. holes (Au, Cu, Zn, Ag, Hg) rarely were of high enough value to of been considered anomalous by the pit sample standards.

The R.C. holes were drilled through a monotonous sequence of dark grey siltstones and black-grey argillites with minor sandstone. Hole R.C. 87-3 intersected felsitic material for the later third of the hole. The sediments bordering on the felsite contact had <1% quartz veins and slightly enhanced Ag, Hg values. A similar situation of elemental enrichment also occurs around intrusives on the Bob claims to the east.

The I.P. anomaly on the Esker claims for a large part is related to the n = 3, 4 electrode spacing. This deeper response was thought to be due to oxidation of the upper 30-40m. Unfortunately the drilling gives no reasons for the I.P. chargeability anomaly. Hole RC87-3 drilled coincidentally on the soil pit anomaly and I.P. anomaly has only modest elemental enhancement in sediments surrounding a felsitic dyke.

Conclusions

The soil - pit geochemical anomaly of Selco B.P. and LAC Minerals Ltd. is due to elemental enhancement in Lower Cretaceous sediments surrounding felsitic and porphyritic intrusions. The induced polarization chargeability anomaly is unexplained as only insignificant sulfides and no graphite were noted in drill hole chip logging. The tenor of Au and associated elemental values is so low as to preclude any further work.

Robert F. Brown, P.Eng.
February 1, 1988

REFERENCES

1) Arnold, R.R. and Hoffman, S.J. ; 1984 ; Geological and Geochemical Assessment Report on the PM 3, 4, 5 and 6 Claims, Nazko Area, B.C.; Assessment Report #13206

2) Christie, J.S.; 1982 ; Geochemical Report on the Sunshine Property, Cariboo Mining Division; Assessment Report 10375

3) Tipper, H.W. ; 1959 ; Geology, Quesnel Map Sheet; Map 12-1959; Geological Survey of Canada

TABLE #2

1987 SAMPLE DESCRIPITONS - ESKER CLAIMS

SAMPLE #	TYPE	WIDTH	COMMENTS	
87R8	Soil	.15m		PRE STAKING
87R9	Soil	.15m		
87R10	Soil	.15m		
87R11	Rock	GRAB	Q.F.F.P.	
87R12	Rock	GRAB	SILT	
87R13	Soil	.15m		
87R14	Rock	GRAB	CONG, SILT	
87R15	Soil	.15m		
87R16	Soil	.15,		
ESKER 1	Rock	5m	SILT	
2	"	"	SILT, SAND	
3	"	"	SILT	
4	"	"	SILT	
5	"	"	SILT	
6	"	"	SILT, SAND	
7	"	"	SILT	
8	"	"	SILT	
9	"	2m	FELSIC DYKE	
6800E, 7800N; "A"	PIT	0.15m	br. till	
6800E, 7800N; "B"	PIT	0.5m	" "	
6800E, 7800N; "C"	PIT, Rock	0.9m	rhy. ash. (QPFP)	
6800E, 7900N; "A"	PIT	0.15m	br. till	
6800E, 7900N; "B"	PIT	0.5m	br. till. rk. frags.	
6800E, 7900N; "C"	PIT, Rock	0.9m	LI, rhyolite ash	
7000E, 7700N; "A"	PIT	0.15m	silty, br. till	
" " ; "B"	PIT	0.5m	" " "	
" " ; "C"	PIT	0.9m	" " " , rk frags.	
7000E, 7800N; "A"	PIT	0.15m	" " "	
" " ; "B"	PIT	0.5m	" " "	
" " ; "C"	PIT	0.9m	" " "	
7000E, 7900N; "A"	PIT	0.15m	" " "	
" " ; "B"	PIT	0.5m	" " "	
" " ; "C"	PIT	0.9m	" " "	

TABLE #2

1987 SAMPLE DESCRIPITONS - ESKER CLAIMS

SAMPLE #	TYPE	WIDTH	COMMENTS
7000E, 8200N; "A"	PIT	0.15m	br. till
"B"	PIT	0.5	" " , gravelly
"C"	PIT, ROCK	0.9	" " "
7400E, 7400N; "A"	PIT	0.15m	silty br. soil & rock frags.
"B"	PIT, ROCK	0.5m	rhy., LI (Q.F.F.P.)
7400E, 7500N; "A"	PIT	0.15m	silty, soil
" " ; "B"	PIT	0.5m	" " "
" " ; "C"	PIT	0.9m	" " " , rock frags.
7400E, 7600N; "A"	PIT	0.15m	silty br. soil
" " ; "B"	PIT	0.5m	"C" horizon, br. soil
" " ; "C"	PIT	0.5m	rhyolite (LI) (Q.F.F.P.)
7400E, 7700N; "A"	PIT	0.15m	br. till
" " ; "B"	PIT	0.5m	" "
" " ; "C"	PIT, ROCK	0.9m	" ", rock frags
7400E, 7800E; "A"	PIT	0.15m	br. till
" " ; "B"	PIT	0.5m	br. till
" " ; "C"	PIT	0.9m	br. till, rock frags
7400E, 7900N; "A"	PIT	0.15m	br. till
" " ; "B"	PIT	0.5m	" " , rock frags
" " ; "C"	PIT	0.9m	" " , " "
7400E, 8100N; "A"	PIT	0.15m	br. till
" " ; "B"	PIT	0.5m	" " ,
" " ; "C"	PIT	0.9m	" " , rock frags.
7400E, 8200N; "A"	PIT	0.15m	" " , gravelly.
" " ; "B"	PIT	0.5m	br. till
" " ; "C"	PIT	0.9m	clayish br. till, rock frags.
6400E, 7200N; "A"	PIT	0.15m	br. till
" " ; "B"	PIT	0.40m	clay, br. till, rock frags.
6500E, 7200N; "A"	PIT	0.15m	br. till
" " ; "B"	PIT	0.14m	silty, dk.br.till,rock frags.
6600E, 7200N; "A"	PIT	0.15m	br. till
6600E, 7200N; "C"	PIT ROCK	0.45m	volcanic?
6700E, 7200N; "A"	PIT	0.15m	br. till, rock frags.
" " ; "B"	PIT ROCK	0.35m	rhyolite with flow banding (Q.F.F.P.)
6800E, 7200N; "A"	PIT	0.15m	br. till, rock frags.
" " ; "B"	PIT ROCK	0.70m	rock.

TABLE #2

1987 SAMPLE DESCRIPITONS - ESKER CLAIMS

SAMPLE #	TYPE		WIDTH	COMMENTS
6900E, 7200N; "A"	PIT		0.15m	sandy br. till
" " "B"	PIT		0.5	" "
" " "C"	PIT		0.9	" "
7000E, 7200N; "A"	PIT		0.15m	silty br. till
" " "B"	PIT		0.5m	" " "
" " "C"	PIT		0.9m	" " ", some rock frags.
7100E, 7200N; "A"	PIT		0.15m	silty br. till
" " ; "B"	PIT		0.5m	" " "
" " ; "C"	PIT		0.9m	" " "
7200E, 7200N; "A"	PIT		0.15m	silty br. soil
" " ; "B"	PIT		0.5m	" " "
" " ; "C"	PIT		0.9m	" " " , rock frags.
6400E, 8000N; "A"	PIT		0.15m	gravelly till
" " ; "B"	PIT		0.5m	" "
" " ; "C"	PIT		0.9m	" "
6500E, 8000N; "A"	PIT		0.15m	gravelly till
" " ; "B"	PIT		0.5m	" "
" " ; "C"	PIT		0.9m	" "
6600E, 8000N; "A"	PIT		0.15m	silty, organic rich soil
" " ; "B"	PIT		0.5m	br. till
" " ; "C"	PIT		0.9m	gravelly till
6700E, 8000N; "A"	PIT		0.15m	br. till
" " ; "B"	PIT		0.5m	" "
" " ; "C"	PIT		0.9m	" " , rock frags.
6800E, 8000N; "A"	PIT		0.3m	br. till
" " ; "B"	PIT	ROCK	0.7m	rhyolite, LI
6900E, 8000N; "A"	PIT		0.15m	br. till
" " ; "B"	PIT		0.5m	br. till
" " : "C"	PIT		0.9m	" " , rock frags.
7000E, 8000N; "A"	PIT		0.15m	br. till
" , " ; "B"	PIT		0.5m	" " , rock frags
" " ; "C"	PIT		0.9m	br. till
7100E, 8000N; "A"	PIT		0.15m	br. till,
" " ; "B"	PIT		0.5m	" "
" " ; "C"	PIT		0.9m	" " , rock frags.

TABLE #2

1987 SAMPLE DESCRIPITONS - ESKER CLAIMS

SAMPLE #	TYPE	WIDTH	COMMENTS
7200E, 8000N; "A"	PIT	0.15m	br. till
" " "B"	PIT	0.5	" "
" " "C"	PIT	0.9	" "
7500E, 8000N; "A"	PIT	0.15m	br. till
" " "B"	PIT	0.5m	" "
" " "C"	PIT	0.9m	" "
7400E, 8000N; "A"	PIT	0.15m	br. till, Selco site 807547.
" " ; "B"	PIT	0.5m	" "
" " ; "C"	PIT	0.9m	" " , rock frags.
7000E, 8100N; "A"	PIT	0.15m	br. till
" " ; "B"	PIT	0.5m	" "
" " ; "C"	PIT	0.9m	" "
7400E, 8300N; "A"	PIT	0.15m	br. till
" " ; "B"	PIT	0.5m	"
" " ; "C"	PIT	0.9m	"

TABLE #3

1987 ANALYSIS - ESKER CLAIMS

SAMPLE #	Au ppb	Cu ppm	Zn ppm	Mo ppm	Ni ppm	Mn ppm	Cd ppm	Ag ppm	Fe %	As ppm	Sb ppm	Hg ppm
87R8	3									20		
87R9	9									20		
87R10	0									10		
87R11												100
87R12												<5
87R13	21									19		
87R14												90
87R15	15									20		
87R16	9									12		
ESKER 1	3	66	215	1	124	1171	2	<0.5	3.59	<5	<5	750
2	3	78	258	1	107	721	2	<0.5	3.58	<5	<5	1150
3	3	73	275	1	110	864	2	<0.5	4.12	<5	<5	1200
4	3	84	279	2	101	742	3	<0.5	3.37	<5	<5	750
5	2	72	247	2	85	979	3	<0.5	3.48	<5	<5	1800
6	2	72	223	2	96	1087	2	<0.5	3.28	<5	<5	2100
7	5	66	216	4	102	741	2	<0.5	3.17	<5	<5	1000
8	2	40	166	2	72	1213	1	<0.5	2.21	<5	<5	300
9	1	37	152	2	94	1221	2	<0.5	2.42	<5	<5	350
PITS												
6800E, 7800N; "A"	4	53	139	2	105	290	<1	0.6	3.56	5	<5	20
6800E, 7800N; "B"	44	100	182	2	111	405	1	<0.5	3.86	46	<5	40
6800E, 7800N; "C"	7	214	151	1	234	904	1	<0.5	4.68	21	<5	50
6800E, 7900N; "A"	15	43	180	1	89	341	1	0.7	3.58	5	<5	20
6800E, 7900N; "B"	7	89	238	2	157	1236	2	<0.5	4.84	32	<5	135
6800E, 7900N; "C"	<1	46	275	<1	177	3755	2	<0.5	4.10	<5	<5	15
7000E, 7700N; "A"	11	67	158	2	101	466	<1	0.8	3.78	11	<5	35
" " ; "B"	9	80	94	1	94	455	<1	<0.5	3.39	41	<5	80
" " ; "C"	43	93	119	2	140	811	<1	<0.5	3.85	51	<5	140
7000E, 7800N; "A"	52	71	101	2	88	364	<1	0.5	3.51	34	<5	35
" " ; "B"	13	92	113	2	107	663	<1	<0.5	3.68	46	<5	65
" " ; "C"	31	91	123	2	109	642	<1	<0.5	3.84	45	<5	90
7000E, 7900N; "A"	5	89	160	2	115	453	<1	1.2	4.29	<5	<5	25
" " ; "B"	12	63	94	3	75	369	<1	0.5	3.25	42	<5	35
" " ; "C"	9	72	104	2	97	583	<1	<0.5	3.58	45	<5	75

TABLE #3

1987 ANALYSIS - ESKER CLAIMS

SAMPLE #	Au ppb	Cu ppm	Zn ppm	Mo ppm	Ni ppm	Mn ppm	Cd ppm	Ag ppm	Fe %	As ppm	Sb ppm	Hg ppm
PITS												
7000E, 8200N; "A"	7	54	223	2	101	871	1	1.1	4.07	<5	<5	25
" " "B"	10	67	133	1	107	521	<1	<0.5	3.61	7	<5	190
7000E, 8200N "C"	44	90	128	2	90	423	1	0.5	3.39	24	<5	120
7400E, 7400N; "A"	26	215	217	4	70	772	3	0.7	3.14	6	<5	25
" " "B"	11	269	80	2	21	172	2	<0.5	1.37	78	6	45
7400E, 7500N; "A"	27	30	189	1	59	1102	<1	0.7	2.86	66	<5	30
" " ; "B"	25	89	90	2	79	564	<1	0.5	3.41	111	5	325
" " ; "C"	20	72	90	1	93	660	<1	<0.5	3.47	65	<5	215
7400E, 7600N; "A"	20	35	162	2	95	1014	2	0.7	3.13	9	<5	20
" " ; "B"	28	106	195	3	137	412	<1	<0.5	4.33	62	9	150
" " ; "C"	<1	177	191	1	126	430	<1	<0.5	1.37	78	6	45
7400E, 7700N; "A"	21	152	133	2	74	245	<1	<0.5	3.17	37	10	35
" " ; "B"	15	157	134	2	85	320	<1	0.6	3.21	40	8	75
" " ; "C"	21	203	129	1	131	892	<1	<0.5	<0.05	36	5	335
7400E, 7800N; "A"	11	72	148	1	121	402	<1	1.2	4.53	<5	<5	50
" " ; "B"	11	89	93	2	64	245	<1	0.6	3.22	46	8	55
" " ; "C"	5	72	107	1	114	832	<1	<0.5	4.21	20	<5	170
7400E, 7900N; "A"	5	62	228	1	103	413	<1	1.2	4.99	<5	<5	30
" " ; "B"	8	111	104	2	79	253	<1	0.5	3.42	36	<5	45
" " ; "C"	19	69	107	2	102	775	<1	<0.5	3.76	31	<5	150
7400E, 8100N; "A"	3	30	119	1	58	301	<1	0.6	3.23	5	<5	35
" " ; "B"	8	64	104	1	99	607	<1	<0.5	4.20	19	<5	140
" " ; "C"	6	57	114	1	93	750	<1	<0.5	3.78	26	<5	120
7400E, 8200N; "A"	1	42	118	2	94	573	<1	0.8	4.38	<5	<5	45
" " ; "B"	5	37	106	1	<1	366	<1	<0.5	3.20	23	<5	60
" " ; "C"	6	49	88	1	62	281	<1	0.5	3.36	19	<5	170
6400E, 7200N; "A"	1	17	53	<1	39	172	<1	0.5	2.33	<5	<5	40
" " ; "B"	3	47	93	1	104	744	<1	<0.5	4.27	<5	<5	145
6500E, 7200N; "A"	1	17	68	1	40	236	<1	0.6	2.48	20	<5	15
" " ' "B"	3	45	86	1	91	530	<1	<0.5	4.07	8	<5	100
6600E, 7200N; "A"	1	22	78	1	38	237	<1	0.6	2.53	33	<5	25
6600E, 7200N; "B"	6	75	164	3	81	318	<1	<0.5	3.5	204	<5	25
6700E, 7200N; "A"	1	100	52	4	151	283	<1	<0.5	3.94	<5	<5	10
" " ; "B"	4	95	36	6	102	870	<1	<0.5	3.46	14	<5	20
6800E, 7200N; "A"	7	85	93	5	119	327	<1	<0.5	3.27	12	<5	20
" " ; "B"	4	58	52	6	152	390	<1	<0.5	3.30	<5	<5	5

TABLE #3

1987 ANALYSIS - ESKER CLAIMS

SAMPLE #	Au ppb	Cu ppm	Zn ppm	Mo ppm	Ni ppm	Mn ppm	Cd ppm	Ag ppm	Fe %	As ppm	Sb ppm	Hg ppm
PITS												
6900E, 7200N; "A"	<1	12	63	1	25	151	<1	0.6	1.58	18	6	20
" " "B"	11	68	82	2	95	486	<1	<0.5	4.24	42	<5	120
" " "C"	14	57	88	1	94	640	<1	<0.5	3.58	40	<5	150
7000E, 7200N; "A"	<1	26	102	2	55	706	<1	0.5	2.56	17	<5	30
" " "B"	7	52	80	2	89	456	<1	<0.5	4.34	33	<5	105
" " "C"	6	48	88	1	84	642	<1	0.5	4.07	34	<5	100
7100E, 7200N; "A"	4	30	68	1	58	405	<1	0.6	3.15	25	<5	40
" " ; "B"	6	48	79	2	89	545	<1	0.5	4.30	16	<5	105
" " ; "C"	3	44	79	1	94	762	<1	<0.5	3.71	13	<5	120
7200E, 7200N; "A"	1	18	95	1	49	336	<1	0.5	2.62	14	<5	20
" " ; "B"	3	30	56	1	59	330	<1	0.5	2.93	23	<5	65
" " ; "C"	6	47	80	1	93	768	<1	<0.5	3.76	25	<5	130
6400E, 8000N; "A"	<1	28	74	2	60	323	<1	<0.5	3.42	<5	<5	25
" " ; "B"	1	41	85	2	110	557	<1	0.5	4.01	<5	<5	60
" " ; "C"	<1	39	89	<1	126	745	<1	<0.5	3.91	<5	<5	115
6500E, 8000N; "A"	<1	29	93	1	76	389	<1	0.8	3.62	<5	<5	700
" " ; "B"	<1	34	74	1	89	394	<1	<0.5	3.47	<5	<5	50
" " ; "C"	1	41	76	2	92	511	<1	<0.5	3.61	<5	<5	255
6600E, 8000N; "A"	6	202	75	42	149	704	<1	1.6	5.54	<5	<5	250
" " ; "B"	2	37	43	2	50	277	<1	0.6	2.38	<5	<5	220
" " ; "C"	5	41	58	1	72	472	<1	0.6	3.69	<5	<5	350
6700E, 8000N; "A"	1	40	114	2	97	291	<1	<0.5	3.44	<5	<5	25
" " ; "B"	1	46	83	2	87	320	<1	0.6	3.32	<5	<5	55
" " ; "C"	12	115	237	42	210	2931	3	2.1	6.82	<5	<5	290
6800E, 8000N; "A"	7	48	210	2	75	262	1	0.6	3.17	32	<5	140
" " ; "B"	5	74	262	1	182	1237	3	0.5	3.54	19	<5	60
6900E, 8000N; "A"	81	27	149	1	68	409	1	1.1	2.95	12	<5	10
" " ; "B"	22	82	194	2	104	469	<1	<0.5	3.51	39	<5	115
" " : "C"	19	92	261	2	132	854	1	0.5	4.19	46	<5	145
7000E, 8000N; "A"	17	53	123	1	90	268	<1	0.7	3.43	17	<5	40
" , " ; "B"	15	74	120	2	95	404	<1	<0.5	3.46	35	<5	60
" " ; "C"	16	71	144	2	115	647	<1	<0.5	3.63	39	<5	140
7100E, 8000N; "A"	3	51	183	2	118	586	<1	1.5	4.87	<5	<5	55
" " ; "B"	16	69	117	1	89	392	<1	<0.5	3.38	43	<5	90
" " ; "C"	19	79	131	2	102	772	<1	<0.5	3.68	37	<5	115

TABLE #3

1987 ANALYSIS - ESKER CLAIMS

SAMPLE #	Au ppb	Cu ppm	Zn ppm	Mo ppm	Ni ppm	Mn ppm	Cd ppm	Ag ppm	Fe %	As ppm	Sb ppm	Hg ppm
PITS												
7200E, 8000N; "A"	8	36	70	1	55	270	<1	<0.5	2.82	14	<5	40
" " "B"	11	52	86	2	73	371	<1	<0.5	3.18	30	<5	85
" " "C"	15	63	109	1	97	665	<1	<0.5	3.52	26	<5	120
7300E, 8000N; "A"	10	32	84	1	52	234	<1	0.6	2.86	18	<5	20
" " "B"	13	46	82	1	55	322	<1	<0.5	3.03	34	<5	55
" " "C"	28	57	103	1	90	593	<1	<0.5	3.48	31	<5	105
7400E, 8000N; "A"	5	30	91	1	54	377	<1	1.1	3.39	5	<5	35
" " ; "B"	5	53	88	1	77	541	<1	<0.5	3.39	25	<5	135
" " ; "C"	5	51	96	1	85	690	<1	<0.5	3.42	27	<5	125
7000E, 8100N; "A"	7	40	152	2	80	333	1	0.8	3.43	11	<5	25
" " ; "B"	17	69	108	3	88	317	<1	<0.5	3.12	31	<5	75
" " ; "C"	10	70	130	<1	101	636	<1	<0.5	3.49	24	<5	110
7400E, 8300N; "A"	1	27	84	1	59	347	<1	0.6	3.01	15	5	75
" " ; "B"	4	36	81	1	75	310	<1	0.5	3.17	15	<5	105
" " ; "C"	10	42	84	1	81	668	<1	<0.5	3.58	11	<5	170

TABLE #4

METHOD OF ANALYSIS
(Soils, Rocks, Drill Hole Chips)

Analytical Labratory: Bondar-Clegg & Company Ltd.,
130 - Pemberton Ave.,
North Vancouver, B.C. V7P 2R5

SAMPLE TYPE	SIZE FRACTION	SAMPLE PREPARATION	
DRILL CHIPS	-150	Crush Pulverize	-150
ROCKS	-150	Crush Pulverize	-150
SOILS	-80	DRY, SIEVE	-80

ORDER		ELEMENT	LOWER LIMIT DETECTION	EXTRACTION	METHOD
1	Au	Gold-Fire Assay/N.A.	1 PPB	FIRE-ASSAY	INST. NEUTRON ACTIV.
2	Cu	Copper	1 PPM	HNO3-HCL HOT EXTR	PLASMA
3	Zn	Zinc	1 PPM	HN03-HCL HOT EXTR	PLASMA
4	Mo	Molybdenum	1 PPM	HNO3-HCL HOT EXTR	PLASMA
5	Ni	Nickle	1 PPM	HNO3-HCL HOT EXTR	PLASMA
6	Mn	Managanese	1 PPM	HNO3-HCL HOT EXTR	PLASMA
7	Cd	Cadminon	1 PPM	HNO3-HCL HOT EXTR	PLASMA
8	Ag	Silver	0.5 PPM	HNO3-HCL HOT EXTR	PLASMA
9	Fe	Iron	0.05 PCT	HNO3-HCL HOT EXTR	PLASMA
10	As	Arsenic	5 PPM	HNO3-HCL HOT EXTR	PLASMA
11	Sb	Antimony	5 PPM	HNO3-HCL HOT EXTR	PLASMA
12	Hg	Mercury	5 PPB	HNO3-HCL HOT EXTR	PLASMA

APPENDIX I

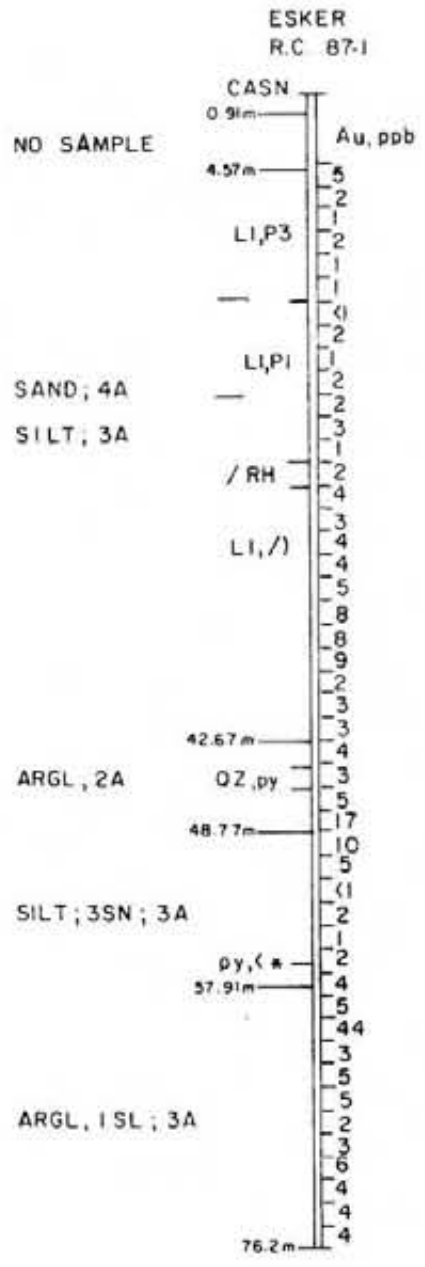
N

L72+00N, 70+00E

ESKER R.C. 87-1
-90°, Az 000°

PLAN

SECTION



LAC. MINERALS LTD.
ESKER CLAIMS
R.C. 87-1
1:500

ESKER R.C. 87-2
-90°, Az 000°

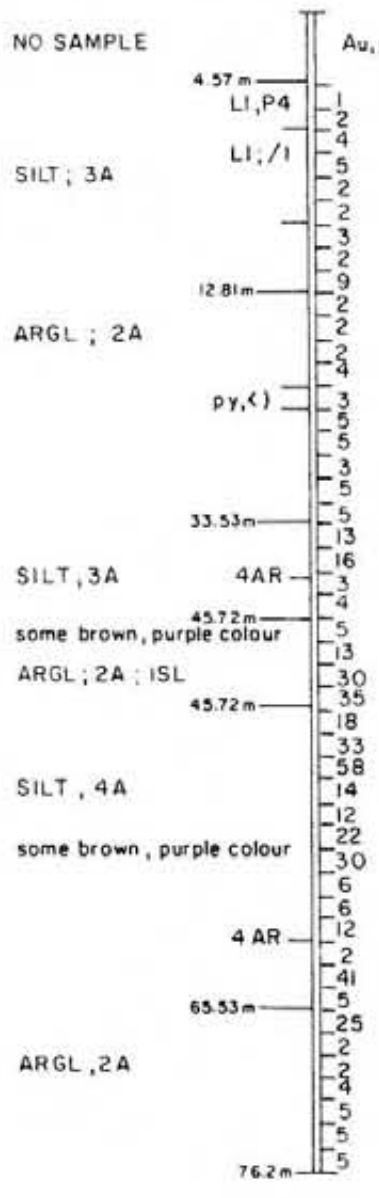
L72+00N, 68+50E

N

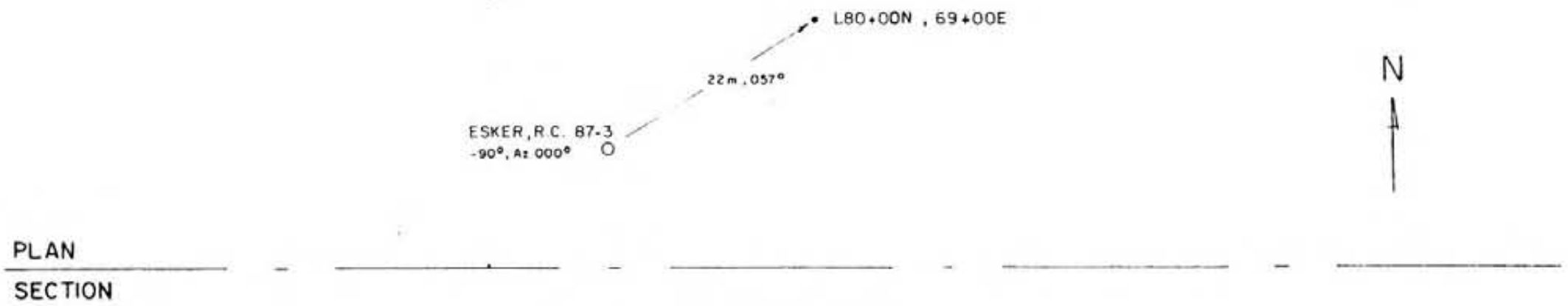
PLAN

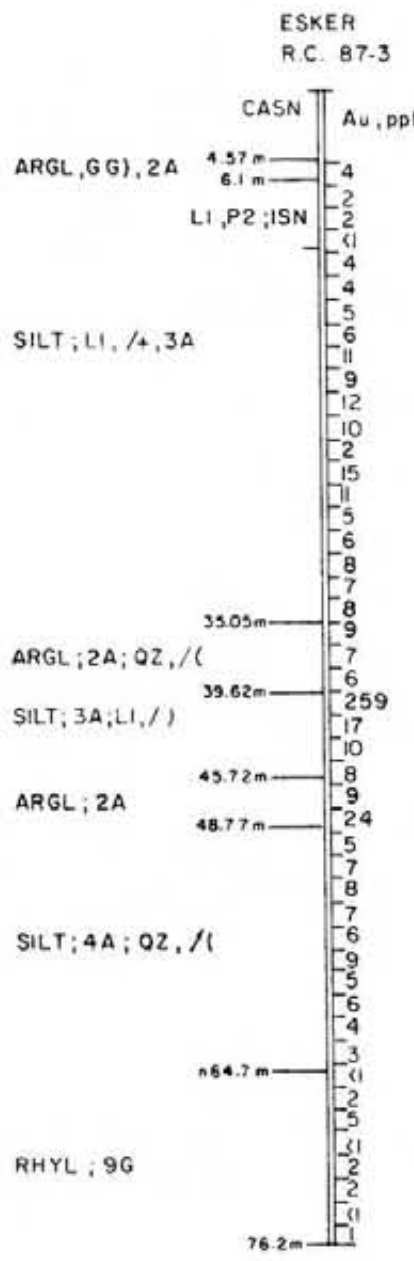
SECTION

ESKER
R.C. 87-2



LAC. MINERALS LTD.
ESKER CLAIMS
R.C. 87-2
1:500





LAC. MINERALS LTD.
ESKER CLAIMS
R.C. 87-3
1:500

IAC MINERALS LTD. GEOCHEMICAL ANALYSIS

HOLE # R.C. 87-1 PROPERTY ESKER CERTIFICATE NOS. 127-10014, 227-10014

ELEMENT			Cu	Zn	Mo	Ni	Mn	Cd	Ag	Fe	As	Sb	Hg	Au	Au	Au	
UNITS OF MEASURE			ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppb	ppb	oz/t	
FROM	TO	SAMPLE #														Assay	
4.57	6.10													5			
6.10	7.62													2			
7.62	9.14													1			
9.14	10.67		40	92	3	68	449	<1	<0.5	4.25	81	<5	110	2	4		
10.67	12.19													1			
12.19	13.72													1			
13.72	15.24													<1			
15.24	16.76													2			
16.76	18.29													1			
18.29	19.81													2			
19.81	21.34		41	66	3	59	304	<1	<0.5	2.97	16	<5	85	2	3		
21.34	22.86													3			
22.86	24.38													1			
24.38	25.91													2			
25.91	27.43													4			
27.43	28.96													3			
28.96	30.48													4			
30.48	32.00													4			
32.00	33.53													5			
33.53	35.05		46	128	6	84	364	<1	<0.5	3.73	19	<5	75	8	5		
35.05	36.58													8			
36.58	38.10													9			
38.10	39.62													2			
39.62	41.15													3			
41.15	42.67													3			
42.67	44.20													4			
44.20	45.72													3			
45.72	47.24													5			
47.24	48.77		41	134	4	71	430	<1	<0.5	3.18	15	<5	25	17	3		
48.77	50.29													10			
50.29	51.82													5			
51.82	53.34	—												<1			

LAC MINERALS LTD. GEOCHEMICAL ANALYSIS
HOLE # R.C. 87-1 PROPERTY ESKER CERTIFICATE NOS. 127-10014, 227-10014

ELEMENT			Cu	Zn	Mo	Ni	Mn	Cd	Ag	Fe	As	Sb	Hg	Au	Au	Au	
UNITS OF MEASURE			ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppb	ppb	oz/t	
FROM	TO	SAMPLE #														Assay	
53.34	54.86													2			
54.86	56.39													1			
56.39	57.91													2			
57.91	59.44		49	122	3	127	657	<1	0.5	3.83	<5	<5	35	4	6		
59.44	60.96													5			
60.96	62.48													44			
62.48	64.01													3			
64.01	65.53													5			
65.53	67.06													5			
67.06	68.58													2			
68.58	70.10													3			
70.10	71.63		51	150	3	131	551	<1	0.5	3.95	<5	<5	25	6	4		
71.63	73.15													4			
73.15	74.68													4			
74.68	76.22													4			

LAC MINERALS LTD. GEOCHEMICAL ANALYSIS

HOLE # R.C. 87-2 PROPERTY ESKER CERTIFICATE NOS. 127-10014, 227-10014

ELEMENT			Cu	Zn	Mo	Ni	Mn	Cd	Ag	Fe	As	Sb	Hg	Au	Au	Au	
UNITS OF MEASURE			ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppb	ppb	oz/t	
FROM	TO	SAMPLE #														Assay	
4.57	6.10													1			
6.10	7.62													2			
7.62	9.14													4			
9.14	10.67		82	96	4	112	290	<1	<0.5	4.59	<5	<5	15	5	2		
10.67	12.19													2			
12.19	13.72													2			
13.72	15.24													3			
15.24	16.76													2			
16.76	18.29													9			
18.29	19.81													2			
19.81	21.34													2			
21.34	22.86		56	112	3	101	456	<1	<0.5	4.40	<5	<5	15	2	3		
22.86	24.38													4			
24.38	25.91													3			
25.91	27.43													5			
27.43	28.96													5			
28.96	30.48													3			
30.48	32.00													5			
32.00	33.53													5			
33.53	35.05		125	90	6	129	410	<1	<0.5	4.49	15	<5	15	13	5		
35.05	36.58													16			
36.58	38.10													3			
38.10	39.62													4			
39.62	41.15													5			
41.15	42.67													13			
42.67	44.20													30			
44.20	45.72													35			
45.72	47.24		74	60	4	220	345	<1	<0.5	3.81	9	<5	25	18	10		
47.24	48.77													33			
48.77	50.29													58			
50.29	51.82													14			
51.82	53.34													12			

LAC MINERALS LTD. GEOCHEMICAL ANALYSIS

HOLE # R.C. 87-2 PROPERTY ESKER CERTIFICATE NOS. 127-10014, 227-10014

ELEMENT			Cu	Zn	Mo	Ni	Mn	Cd	Ag	Fe	As	Sb	Hg	Au	Au	Au	
UNITS OF MEASURE			ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppb	ppb	oz/t	
FROM	TO	SAMPLE #														Assay	
53.34	54.86													22			
54.86	56.39													30			
56.39	57.91		64	58	4	141	385	<1	<0.5	4.03	19	<5	40	6	6		
57.91	59.44													6			
59.44	60.96													12			
60.96	62.48													2			
62.48	64.01													5			
64.01	65.53													25			
65.53	67.06													2			
67.06	68.58													2			
68.58	70.10													4			
70.10	71.63		72	128	3	140	393	<1	<0.5	5.05	28	7	15	5	4		
71.63	73.15													5			
73.15	74.68													5			
74.68	76.22																

LAC MINERALS LTD. GEOCHEMICAL ANALYSIS

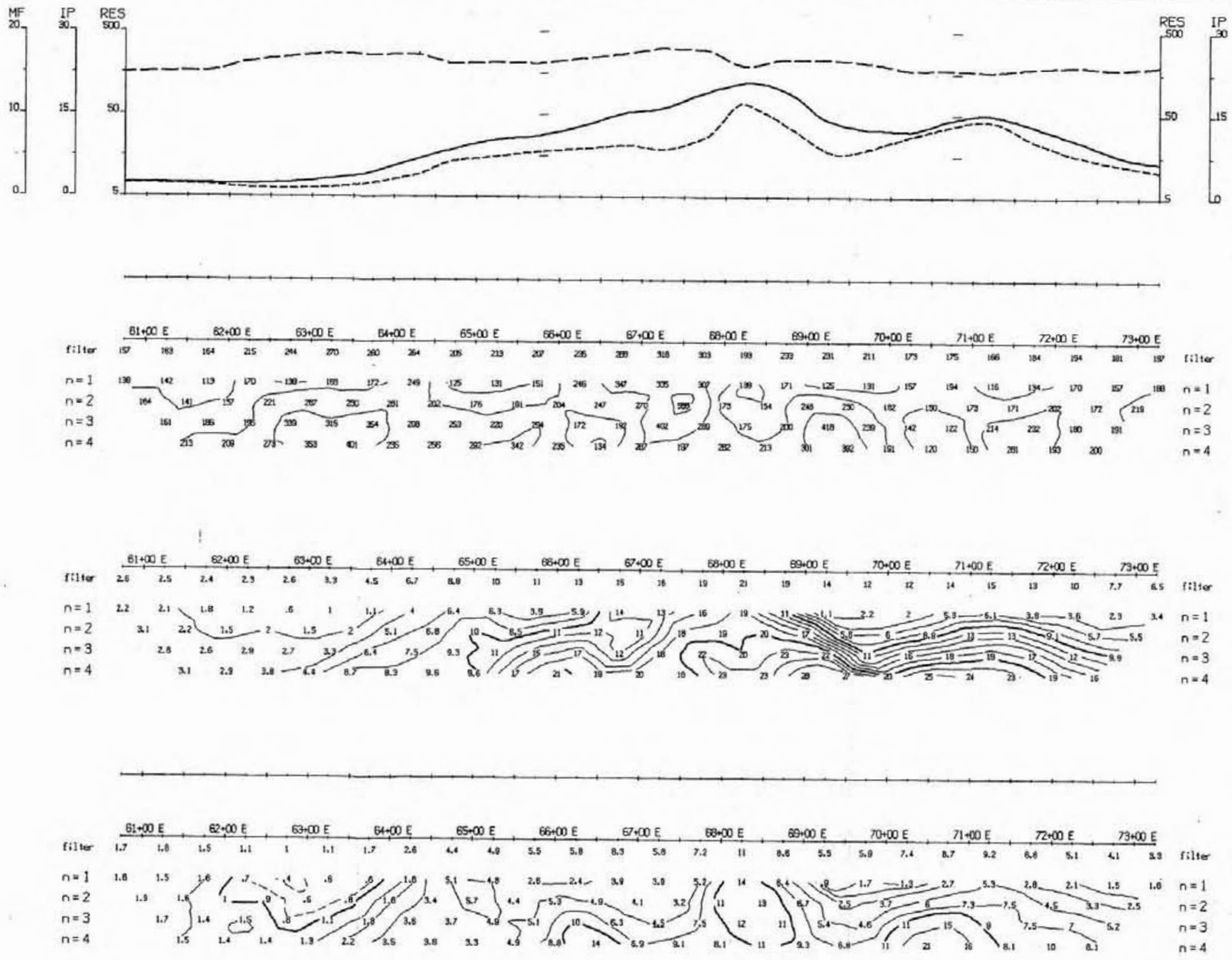
HOLE # R.C. 87-3 PROPERTY ESKER CERTIFICATE NOS. 127-10014, 227-10014

ELEMENT			Cu	Zn	Mo	Ni	Mn	Cd	Ag	Fe	As	Sb	Hg	Au	Au	Au	
UNITS OF MEASURE			ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppb	ppb	oz/t	
FROM	TO	SAMPLE #														Assay	
4.57	6.10													4			
6.10	7.62													2			
7.62	9.14		85	332	2	153	533	4	<0.5	3.93	35	<5	180	2	7		
9.14	10.67													<1			
10.67	12.19													4			
12.19	13.72													4			
13.72	15.24													5			
15.24	16.76													6			
16.76	18.29													11			
18.29	19.81													9			
19.81	21.34													12			
21.34	22.86		84	302	2	155	634	3	0.5	4.17	27	<5	300	10	9		
22.86	24.38													2			
24.38	25.91													15			
25.91	27.43													11			
27.43	28.96													5			
28.96	30.48													6			
30.48	32.00													8			
32.00	33.53													7			
33.53	35.05		93	590	1	210	697	5	0.8	4.44	12	<5	110	8	27		
35.05	36.58													9			
36.58	38.10													7			
38.10	39.62													6			
39.62	41.15													259			
41.15	42.67													17			
42.67	44.20													10			
44.20	45.72													8			
45.72	47.24		78	380	2	189	553	2	0.8	3.75	23	7	165	9	10		
47.24	48.77													24			
48.77	50.29													5			
50.29	51.82													7			
51.82	53.34													8			

LAC MINERALS LTD. GEOCHEMICAL ANALYSIS

HOLE # R.C. 87-3 PROPERTY ESKER CERTIFICATE NOS. 127-10014, 227-10014

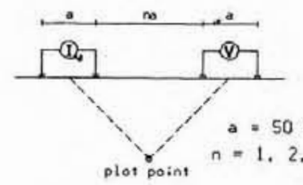
ELEMENT			Cu	Zn	Mo	Ni	Mn	Cd	Ag	Fe	As	Sb	Hg	Au	Au	Au	
UNITS OF MEASURE			ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppb	ppb	oz/t	
FROM	TO	SAMPLE #														Assay	
53.34	54.86																
54.86	56.39													7			
56.39	57.91													6			
57.91	59.44		66	234	3	145	729	2	0.8	3.42	<5	<5	100	9	5		
59.44	60.96													5			
60.96	62.48													6			
62.48	64.01													4			
64.01	65.53													3			
65.53	67.06													<1			
67.06	68.58													2			
68.58	70.10													5			
70.10	71.63		4	74	2	3	219	<1	<0.5	0.35	<5	8	50	<1	2		
71.63	73.15													2			
73.15	74.68													2			
74.68	76.22													<1			



GEOSOFT (tm) Software for the Earth Sciences, Toronto, Canada

L-72N

Dipole-Dipole Array



Filtered Profiles

	filter
Resistivity	*
Polarization	* *
Metal Factor	* * *
	* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: MKIV, MKIV
Frequency: 0.125 Hz
Operator: P.E.W

INTERPRETATION

Well defined, strong increase in polarization with or without marked decrease in resistivity.

Fairly well defined moderate increase in polarization.

Poorly defined polarization increase.

Resistivity feature.

GEOLOGICAL BRANCH ASSESSMENT REPORT

17,475

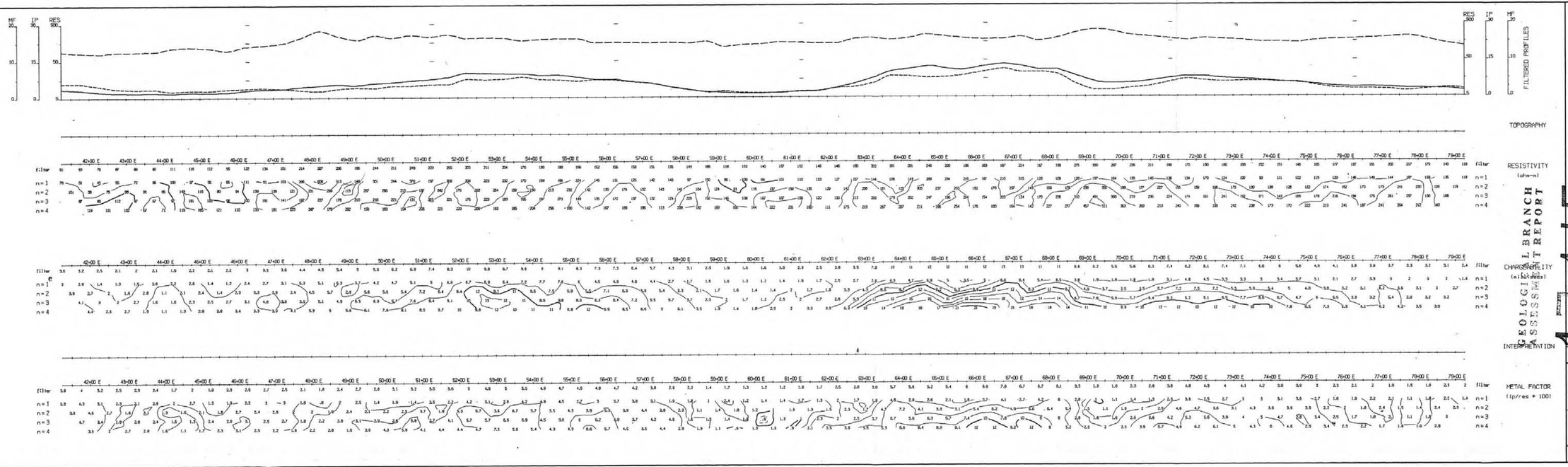
LAC MINERALS LTD.

INDUCED POLARIZATION SURVEY

ESKER GRID
NAZCO, B.C.

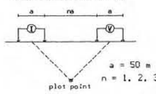
Date: 9/87 N.T.S.: 93 B/13E
Interpretation by: R.B
Scale: 1 : 5000

PETER.E. WALCOTT & ASSOC. LTD



L-80N

Dipole-Dipole Array



Filtered Profiles

	filter
Resistivity	*
Polarization	* *
Metal Factor	* * *
	* * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10....

Instrument: MKIV, MKIV
Frequency: 0.125 Hz
Operator: P.E.W

INTERPRETATION

Well defined, strong increase in polarization with or without marked decrease in resistivity.

Fairly well defined moderate increase in polarization.

Poorly defined polarization increase.

Resistivity feature.

GEOLOGICAL BRANCH ASSESSMENT REPORT

17,157

LAC MINERALS LTD.

INDUCED POLARIZATION SURVEY
ESKER GRID
NAZCO, B.C.

Date: 9/87 N.T.S.: 93 B/13E
Interpretation by: R.B
Scale: 1 : 5000

PETER.E. WALCOTT & ASSOC. LTD

APPENDIX IV

Summary of Costs 1987

Reverse Circulation Drilling:		$10,479.00
R.C. 87-1,2,3; total 750' (228.6m)		
by Tonto Drilling B.C. Ltd., November 25, 26.		
Room & Board:		690.56
Nazko Frontier Trading Post November 24-27.		
Logging, Skidding and Road Construction (1.6 km):		7,527.50
by Dan Hjorth; November 18, 19, 20, 23.		
Induced Polarization Survey (5.3 km):		4,311.65
by Peter Walcott; Invoice #1819, September 17-23.		
Line Cutting (5.3 km):		1,907.56
by Amex Expl. Services.		
Road Building, R.C. Holes		
LAC Personnel:		
R.F. Brown, prj.	geologist - Nov 18-20 @ $150/d	450.00
Y.M. So,	geologist - Nov 24-26 @ $140/d	420.00
T. Donnon,	geologist - Nov 24-26 @ $120/d	360.00
B. Czornby,	geologist - Nov 24-26 @ $120/d	360.00
Analysis:		
Pit Samples -	Bondar-Clegg invoice #VO41380	2,014.58
R.C. Holes -	Bondar-Clegg invoice #V043610	1,667.82
	Bondar-Clegg invoice #VO43611	471.21
Rock Sampling -	Bondar-Clegg invoice #V035922	193.50
Pit Sampling:		
LAC Minerals Personnel:		
G. Payie,	geologist - Oct 11-15 @ $130/d	650.00
T. Donnon -	geologist - Oct 11-15 @ $120/d	600.00
Room & Board -	2 men @ $40/day	400.00
4 x 4 Vehicle -	6 days @ $35/day - (lease)	215.00
4 x 4 Vehicle -	2 days @ $55/day - (day rental)	300.00
	TOTAL COST	$33,018.38

DATE: Drilled: Nov 25/87 HOLE # 87-1
LOGGED: January 23/87 BEARING _____ DIP -90°
LOCATION: 25m, 270° to L72+00N, 70+00E drilled wet
LOGGED BY: R.F. Brown, Y.M. So

DEPTH FROM	DEPTH TO	ROCK TYPE	COLOUR	RECOVERY	F.C.	QZ & CB	GREEN	PY	CP	HE	LI	AG
0	.91	CASN										
.91	4.57	N/S										
4.57	6.10	SAND	6B								P6	
6.10	7.62	SILT,35N	3A								P3	
7.62	9.14	SILT	6B								P6	GG+
9.14	10.67	SAND	3A								P2	
10.67	12.19	SAND	4A								P2	
12.19	13.72	SAND	"								P2	
13.72	15.24	SILT	3A								/1	
15.24	16.76	SILT	5A								P-1	
16.76	18.29	SILT	4A	30.							P-1	
18.29	19.81	SILT	3A	60.							/=	GG)
19.81	21.34	SILT	3A	90.							/)	
21.34	22.86	SILT	3A	50. Sample covered by brown mud from drilling.							/)	
22.86	24.38	SILT	3A								/)	
24.38	25.91	SILT,RHYL	3A	felsite pale green 9G							/)	
25.91	27.43	SAND	4A								/)	
27.43	28.96	SAND,	4A								/)	
28.96	30.48	SAND,3SL	4A								/)	
30.48	32.00	SAND,1SL	4A								/)	
32.00	33.53	SAND	4A								/)	
33.53	35.05	SILT	3A								/)	
35.05	36.58	SILT	3A								/)	
36.58	38.10	SAND	3A								/)	
38.10	39.62	SILT	3A								/)	
39.62	41.15	SILT	3A								/)	
41.15	42.67	SILT	3A								/)	
42.67	44.20	ARGL	2A								/)	/SH
44.20	45.72	ARGL	2A								/)	
45.72	47.24	ARGL	2A		/-		/-					
47.24	48.77	ARGL	2A									
48.77	50.29	SILT	3A									
50.29	51.82	SILT	3A									
51.82	53.34	SILT, 3SN	3A									
53.34	54.86	SAND	5A									
54.86	56.39	SILT	4A									
56.39	57.91	ARGL	3A				<*					
57.91	59.44	ARGL	2A									
59.44	60.96	ARGL,=SL	2A									
60.96	62.48	ARGL -	2A									
62.48	64.01	SILT	3A									
64.01	65.53	ARGL	2A		/-							
65.53	67.06	ARGL	2A									
67.06	68.58	ARGL 3SL	3A									
68.58	70.10	ARGL	3A		/)							
70.10	71.63	ARGL 1SL	3A									
71.63	73.15	ARGL 1SL	3A									
73.15	74.68	ARGL 1SL	3A									
74.68	76.22	ARGL	3A									
76.22	76.22	/END										

LAC MINERALS LTD.

DATE: Drilled Nov 25/87 ESKER CLAIMS HOLE # R.C. 87-2
Logged Jan 27/87 BEARING _____ DIP -90°

LOCATION: 15m, 09° to L72+00N,68+50E

LOGGED BY: R.F. Brown, Y.M. So

Drilled dry

DEPTH FROM	DEPTH TO	ROCK TYPE	COLOUR	RECOVERY	F.C.	QZ & CB	GREEN	PY	CP	HE	LI	AG
00	4.57	N/S										
4.57	6.10	SILT	6B								P6	
6.10	7.62	SILT	3A								P3	
7.62	9.14	SILT	3A								/2	
9.14	10.67	SILT	3A								/3	
10.67	12.19	SILT	3A								/=	
12.19	13.72	SILT	3A								/=	
13.72	15.24	SILT	3A									
15.24	16.76	SILT	3A									
16.76	18.29	SILT	3A									
18.29	19.81	SILT	4A									
19.81	21.34	ARGL	2A									
21.34	22.86	ARGL	2A									
22.86	24.38	ARGL	2A									
24.38	25.91	ARGL	2A					<)				
25.91	27.43	ARGL	2A									
27.43	28.96	ARGL	2A			br-red to greyish						
28.96	30.48	ARGL	2A	Some ARGL-SILT		3B-A chips.						
30.48	32.00	ARGL	2A		SILT							
32.00	33.53	ARGL	2A									
33.53	35.05	SILT	3P-A									
35.05	36.58	SILT	3P-A									
36.58	38.10	4AR,SILT	3P-A									
38.10	39.62	SILT	3P-A									
39.62	41.15	ARGL,2SL	2A									
41.15	42.67	ARGL,2SL	2A									
42.67	44.20	ARGL,1SL	2A									
44.20	45.72	ARGL,1SL	2A									
45.72	47.24	SILT,1AR	4A									
47.24	48.77	SILT, -	4A-P									
48.77	50.29	SILT, -	4A-P									
50.29	51.82	SILT	4A-P									
51.82	53.34	SILT	4A-P									
53.34	54.86	SILT	4A-P									
54.86	56.39	SILT	4A-P									
56.39	57.91	SILT	4A-P									
57.91	59.44	SILT	4A-P									
59.44	60.96	ARGL,2SL	2A									
60.96	62.48	SILT	3A-P									
62.48	64.01	ARGL	2A									
64.01	65.53	ARGL	BA-P									
65.53	67.06	ARGL	2A									
67.06	68.58	ARGL	2A									
68.58	70.10	ARGL	2A									
70.10	71.63	ARGL	2A									
71.63	73.15	ARGL	2A									
73.15	74.68	ARGL,1SL	2A									
74.68	76.22	ARGL	2A									
76.22	76.22	/END										

LAC MINERALS LTD.

DATE: November 26, 1987 ESKER CLAIMS HOLE # 87-3

LOCATION: 22m, 057° to L80+00N 69+00E BEARING _____ DIP -90°

LOGGED BY: R.F. Brown, Y.M.So drilled dry

DEPTH FROM	DEPTH TO	ROCK TYPE	COLOUR	RECOVERY	F.C.	QZ & CB	GREEN	PY	CP	HE	LI	AG
00	4.57	CASN										
4.57	6.10	ARGL	2A								/+	GG)
6.10	7.62	SILT,1AR	5A								P5	
7.62	9.14	SILT,1SN	5A								P2	
9.14	10.67	SILT,1SN	5A								P2	
10.67	12.19	SILT	5A								/1	
12.19	13.72	SILT	3A								/+	
13.72	15.24	SILT	3A								/+	
15.24	16.76	SILT	3A								/+	
16.76	18.29	SILT	3A								/+	
18.29	19.81	SILT	3A								/+	
19.81	21.34	SILT	3A								/)	
21.34	22.86	SILT	2A								/)	
22.86	24.38	SILT	3A								/)	
24.38	25.91	SILT	3A								/=	GG)
25.91	27.43	SILT	3A								/=	
27.43	28.96	SAND	4A								/1	
28.96	30.48	SILT,=AR	3A								/=	
30.48	32.00	SILT	3A								/=	GG)
32.00	33.53	SILT	3A								/+	
33.53	35.05	SILT	2A								/)	
35.05	36.58	ARGL	2A								/=	
36.58	38.10	ARGL	2A								/)	
38.10	39.62	ARGL	2A			/(						
39.62	41.15	SILT	3A								/)	
41.15	42.67	SILT,+AR	3A								/)	
42.67	44.20	SILT	4A								/=	
44.20	45.72	SILT	3A								/)	
45.72	47.24	ARGL	3A									
47.24	48.77	ARGL	2A									
48.77	50.29	SILT	3A									
50.29	51.82	SILT	3A			/(					/)	
51.82	53.34	SILT	4A			/-					/-	
53.34	54.86	SILT	4A								/-	
54.86	56.39	SILT	4A			/(					/-	
56.39	57.91	SILT	4A									
57.91	59.44	SILT,2RH	4A			/(						
59.44	60.96	SILKT	4A			/)						GG)
60.96	62.48	SILT	4A			/)						
62.48	64.01	SILT	3A			/+						
64.01	65.53	SILT,5RH	3A									
65.53	67.06	RHYL	9G									
67.06	68.58	RHYL	9G									
68.58	70.10	RHYL	9G									
70.10	71.63	RHYL	9G									
71.63	73.15	RHYL	9G									
73.15	74.68	RHYL	9G									
74.68	76.20	RHYL	9G									
76.20	76.20	/END										

APPENDIX #1
(revised Oct/87)

LAC MINERALS LTD.
BOB CLAIMS, NAZKO, B.C.
LEGEND FOR GEOLOG

FLAGS

/M	mineralized vein	OXX	within geological formation		
/G	gouge fracture	UXX	upper contact geological formation		
SPC	specimen sample	C3	geological formation	CONG 3	
/SX	sulfide vein	A1	" "	ARGL 1	-SEDIMENTS
/BR	brecciated zone	C2	" "	CONG 2	
/SH	sheared				
/END	end of hole	S1	" "	TFAS 1	-VOLCANICS
BO4	box four(4)				
		SVC	Sediment-Volcanic (TEAS) CONTACT		

RECOVERY

$$\% \text{ recovery of core} = \frac{\text{LENGTH CORE IN BOX}}{\text{LENGTH DRILLED}} \times 100$$

R.Q.D.

$$\text{Rock Quality Designation} = \frac{\text{TOTAL LENGTHS OF CORE >10cm}}{\text{LENGTH DRILLED}} \times 100$$

ROCK

BRAN	Brxy. andesite		
VNSX, VX	vein sulfide	GRIT, GI	gritstone
SILT, SL	siltstone	GG	gouge
BRXX	brecciated	FX	feldspartization
ANDS, AN	andesite	HB	hornblende
SAND, SN	sandstone	QPFP, QF	quartz-feldspar porphyry
CONG, CG	conglomerate	TEAS, TS	ash tuff
ARGL, AR	argillite	TFLP, TL	lapilli tuff
RHYL RH	rhyolite	SITF, ST	silty tuff
		SNTF, NT	sandy tuff
		GITF, GT	gritty tuff
		CGTF, CT	conglomeratic tuff

* equivalent to TFAS

* equivalent to TFLP

LC COLOUR

lightness L-Scale
Colour range C-scale

* DIFFERENTIATION BETWEEN PYROCLASTIC AND VOLCANOCLASTIC TUFF VERY DIFFICULT AT TIMES SO FOR PLANS AND SECTIONS TFAS AND TFLP ARE USED EXCLUSIVELY.

Appendix #1 (continued...)

QALMAT

Qualifying material (see rock types)

TEXTURES

IB	interbedded	FR	fracture
BD	bedding	IV	vein
MX	massive	HF	hair fractured
CV	cavity texture.	SH	sheared
LM	laminated	/X	sulfide fracture
G;	graded bedding	/T	shattered
VG	vuggy	BN	banded
PØ	porous	GG	gouge
BR	brecciated		
PB	pebble		
PR	porcellaneous (finegrained felspathic rock)		

GRAIN(see manual for detail S-scale)

FF	fine fraction size	SR	sorting N-scale
CF	coarse fractin size	RN	roundness N-scale
%C	% coarse (G scale)	SH	shape and sphericity
MP	maximum particle size	O/C	O-open; C-closed framework

FRACTURE

Count	fracture count per meter, up to 99	
1	strength h to fabric K-scale	
2	strength // to frabric K-scale.	
Is	steep fractures (60°+)	relative intensity F scale
Im	moderate dipping (60°-30°)	" " "
IL	low dipping (30°)	" " "
EI	total intensity, N scale	

ENT TYP
Entry (or interval) Type

P	primary - geological interval
D	ditto interval
R	repeat interval
A	as above interval

STRUC
Structure

CV	cavity	IF	dominant fractures
BD	bedding	IX	sulfide fractures
UC	upper contact	BR	brecciation
LC	lower contact	IT	shattered
/G	gouge fracture	$$	slickensides
/V	vein	FL	fault
<<	microvein	QV	quartz vein
CT	contact		

Appendix #1 (continued...)

DIP

dip of structure take from perpendicular to core axis

ALTERATION AND MINERALS

CY	clay
QZ	quartz
TA	talc
LI	limonite
QC	quartz carbonate association
HE	hematite
AS	arsenopyrite
PY	pyrite
FX	feldspathization
MN	manganite
CH	cherty
SB	stibnite
CR	carbonaceous
CL	chlorite
GR	graphite
EP	epidote
GG	gouge
W.C.	white chips (probably quartz carbonate assoc.)
CV	covellite
XX	soft emerald green (sericite clay) mineral.

HW AMT

HW - How AMT - Amount (see G-scale)

<<	micro veins
Q	patches
V	veins
B	blebs
ø	spots
J	interstitial
X	massive
P	pervasive
D	disseminated
#	breccia/matrix filling
K	stockworks
U	uhedral crystals
H	replaced phenocrysts
T	stain
G	gouge
C	mineral combination sericite - clay
/	fracture
E	bedded

SUMMARY (F1, F2); N scale.

AG	A	argillic alteration (sericite clay)
SF	S	silicified alteration (silica flooding and replacement)
PP	P	propylitic alteration (chlorite bleb and qtz-carbonate veins, often with some associated argillic alteration)

Appendix #1 (continued...)

THE K-SCALE COMPRESSIVE STRENGTH OF ROCK & SOIL

SCALE DESCRIPTORS	ASSIGNED VALUES			
	MPa	(Range)	Taf	Psi
9 -- extremely strong rock - - - - -	330	(>220)	3300	48,000
8 very strong rock - - - - - - -	150	(100-220)	1500	22,000
7 -- strong rock - - - - - - - - - -	70	(50-100)	700	10,000
6 fairly strong - - - - - - - -	33	(22-50)	330	4,800
5 -- fair strength - - - - - - - -	15	(10-22)	150	2,200
4 fairly weak - - - - - - - -	7	(5-10)	70	1,000
3 -- weak rock - - - - - - - - - -	3.3	(2.2-5)	33	480
2 very weak rock - - - - - - - -	1.5	(1-2.2)	15	220
1 -- hard clay-extremely weak rock -	.7	(.5-1)	7	100
> very stiff clay (V as in >)- -	.33	(.22-.5)	3.3	48
1 -- stiff clay (the I in stiff)- - -	.15	(.1-.22)	1.5	22
F firm clay - - - - - - - - - -	.07	(.05-.1)	.7	10
S -- soft clay - - - - - - - - - -	.033	(.03-.05)	.33	5
V very soft clay - - - - - - - -	.015	(<.03)	.15	2

TABLE #2 THE F-SCALE FOR FRACTURE INTENSITY

Assigned Value		F-SCALE	DESCRIPTOR
10^2	100	X	shattered
9^2	81	9---	extremely well fractured
8^2	64	8	very well fractured
7^2	49	7---	well fractured
6^2	36	6	fairly well fractured
5^2	25	5---	moderately fractured
4^2	16	4	fairly lightly fractured
3^2	9	3---	lightly fractured
2^2	4	2	very lightly fractured
1^2	1	1---	slightly fractured
0^2	0	0	unfractured.

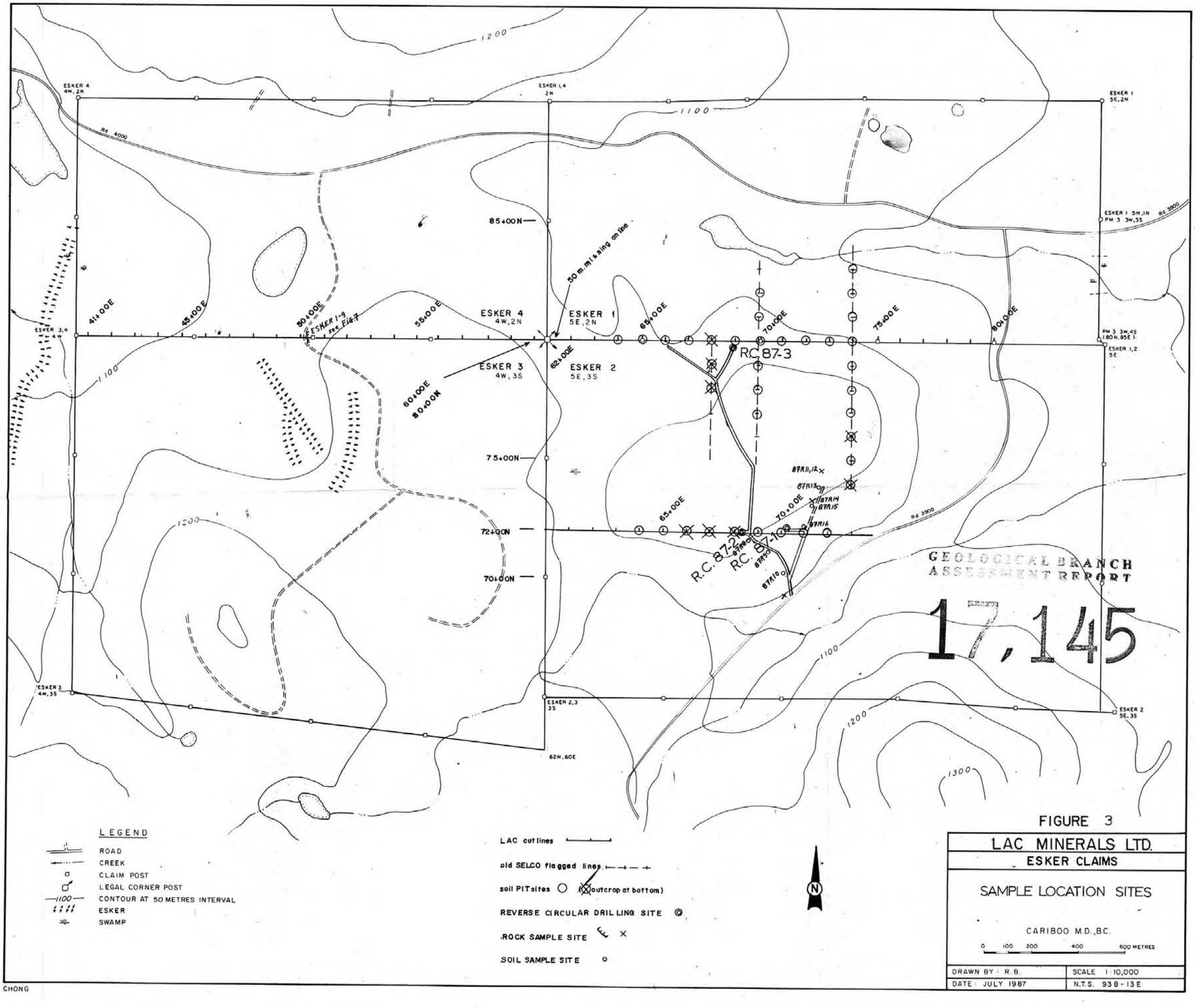
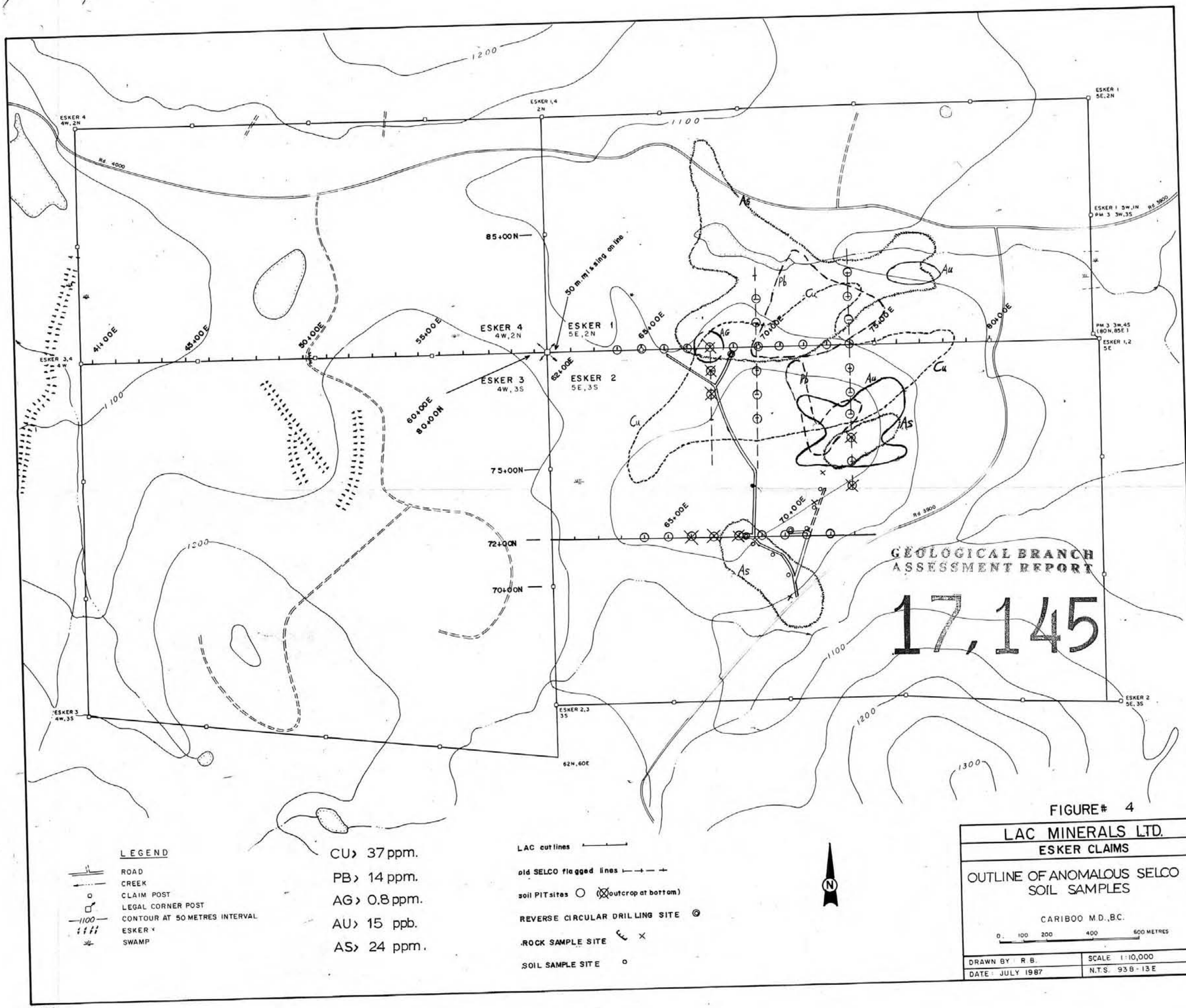


FIGURE 3

LAC MINERALS LTD.	
ESKER CLAIMS	
SAMPLE LOCATION SITES	
CARIBOO M.D., B.C.	
0 100 200 400 600 METRES	
DRAWN BY : R.B.	SCALE 1:10,000
DATE : JULY 1987	N.T.S. 93B-13E

CHONG



GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,145

LEGEND

- ROAD
- CREEK
- CLAIM POST
- LEGAL CORNER POST
- 1100 CONTOUR AT 50 METRES INTERVAL
- ESKER
- SWAMP

CU> 37 ppm.
PB> 14 ppm.
AG> 0.8 ppm.
AU> 15 ppb.
AS> 24 ppm.

- LAC cut lines
- old SELCO flagged lines
- soil PIT sites (outcrop at bottom)
- REVERSE CIRCULAR DRILLING SITE
- ROCK SAMPLE SITE
- SOIL SAMPLE SITE

FIGURE# 4

LAC MINERALS LTD.

ESKER CLAIMS

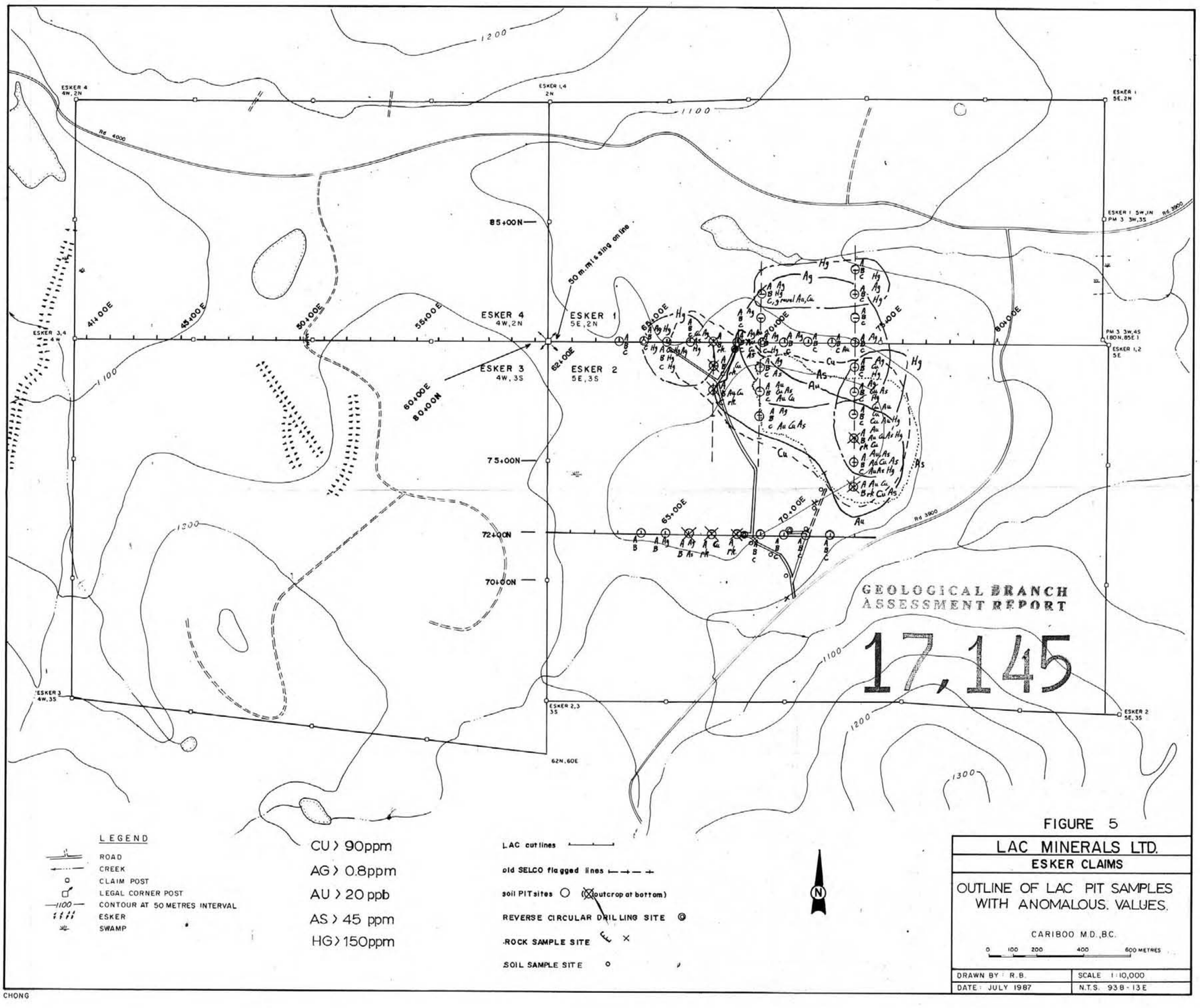
OUTLINE OF ANOMALOUS SELCO SOIL SAMPLES

CARIBOO M.D., B.C.

0 100 200 400 600 METRES

DRAWN BY : R.B.	SCALE 1:10,000
DATE : JULY 1987	N.T.S. 93B-13E

CHONG



LEGEND

- ROAD
- CREEK
- CLAIM POST
- LEGAL CORNER POST
- —1100— CONTOUR AT 50 METRES INTERVAL
- ESKER
- SWAMP

CU > 90ppm
AG > 0.8ppm
AU > 20 ppb
AS > 45 ppm
HG > 150ppm

- LAC cutlines
- old SELCO flagged lines
- soil PIT sites ○ (⊗ outcrop at bottom)
- REVERSE CIRCULAR DRILLING SITE ◎
- ROCK SAMPLE SITE ×
- SOIL SAMPLE SITE ○

FIGURE 5

LAC MINERALS LTD.

ESKER CLAIMS

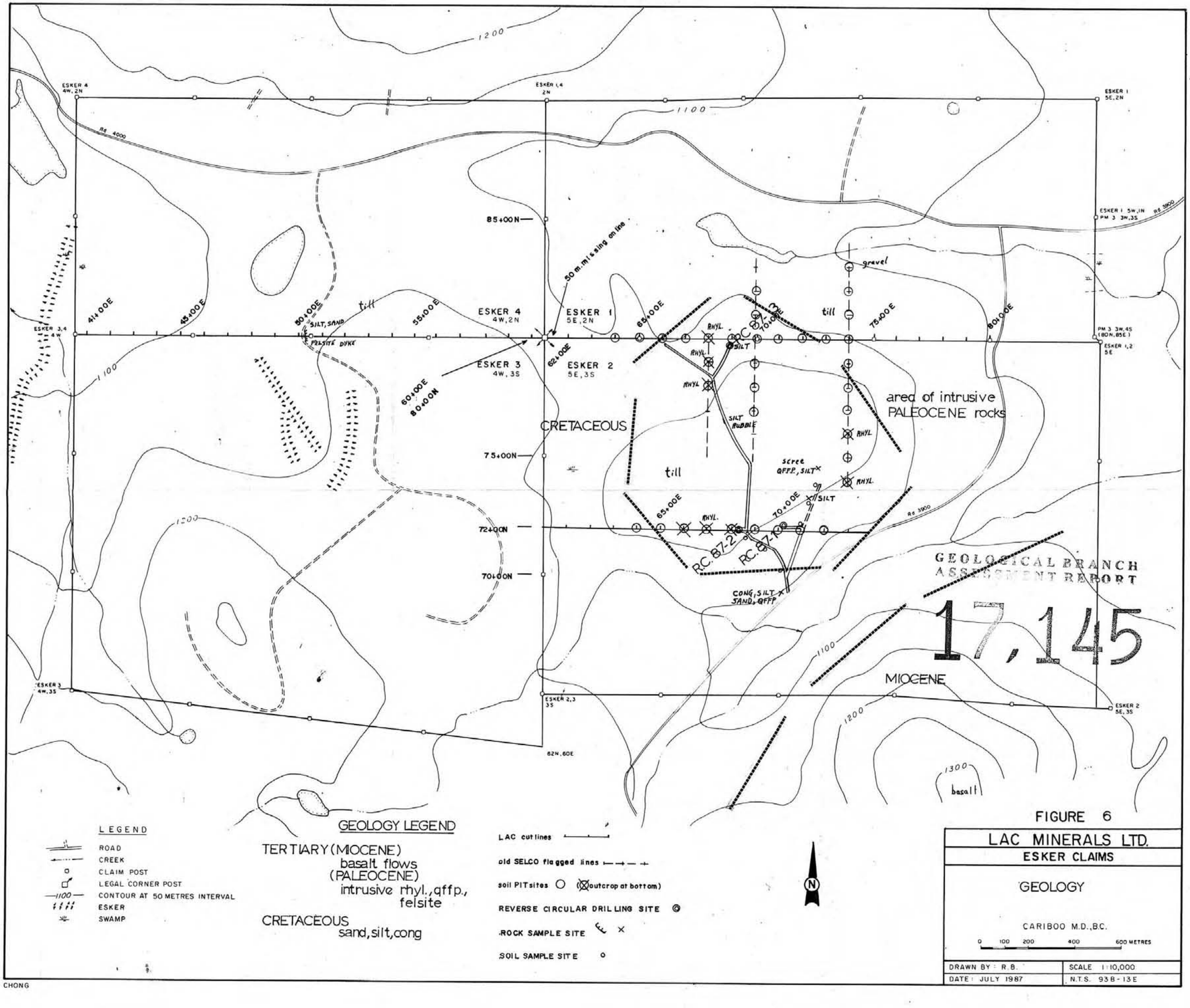
OUTLINE OF LAC PIT SAMPLES WITH ANOMALOUS VALUES.

CARIBOO M.D., B.C.

0 100 200 400 600 METRES

DRAWN BY : R.B.	SCALE 1:10,000
DATE : JULY 1987	N.T.S. 93B-13E

CHONG



LEGEND

- ROAD
- CREEK
- CLAIM POST
- LEGAL CORNER POST
- 1100 — CONTOUR AT 50 METRES INTERVAL
- ESKER
- SWAMP

GEOLOGY LEGEND

TERTIARY (MIOCENE)
basalt flows
(PALEOCENE)
intrusive rhyl., qffp., felsite

CRETACEOUS
sand, silt, cong

- LAC cut lines
- old SELCO flagged lines
- soil PIT sites ○ (⊗ outcrop at bottom)
- REVERSE CIRCULAR DRILLING SITE ◎
- ROCK SAMPLE SITE
- SOIL SAMPLE SITE ○

N

FIGURE 6

LAC MINERALS LTD.

ESKER CLAIMS

GEOLOGY

CARIBOO M.D., B.C.

0 100 200 400 600 METRES

DRAWN BY : R.B.	SCALE 1:10,000
DATE : JULY 1987	N.T.S. 93B-13E

CHONG

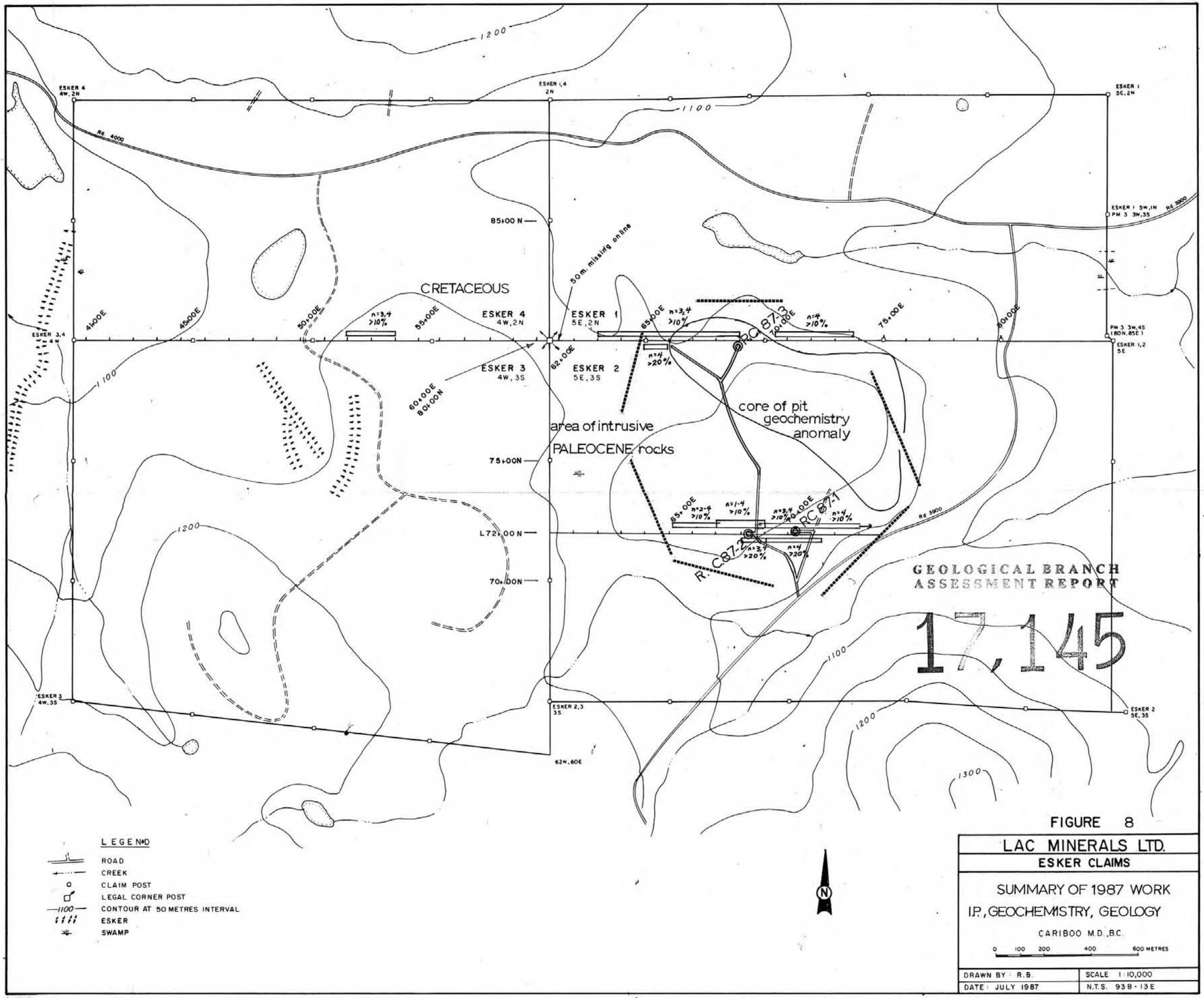


FIGURE 8

LEGEND

- ROAD
- CREEK
- CLAIM POST
- LEGAL CORNER POST
- 1100 — CONTOUR AT 50 METRES INTERVAL
- ESKER
- SWAMP

N

LAC MINERALS LTD.	
ESKER CLAIMS	
SUMMARY OF 1987 WORK I.P., GEOCHEMISTRY, GEOLOGY CARIBOO M.D., B.C. 0 100 200 400 600 METRES	
DRAWN BY : R.B.	SCALE 1:10,000
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CHONG