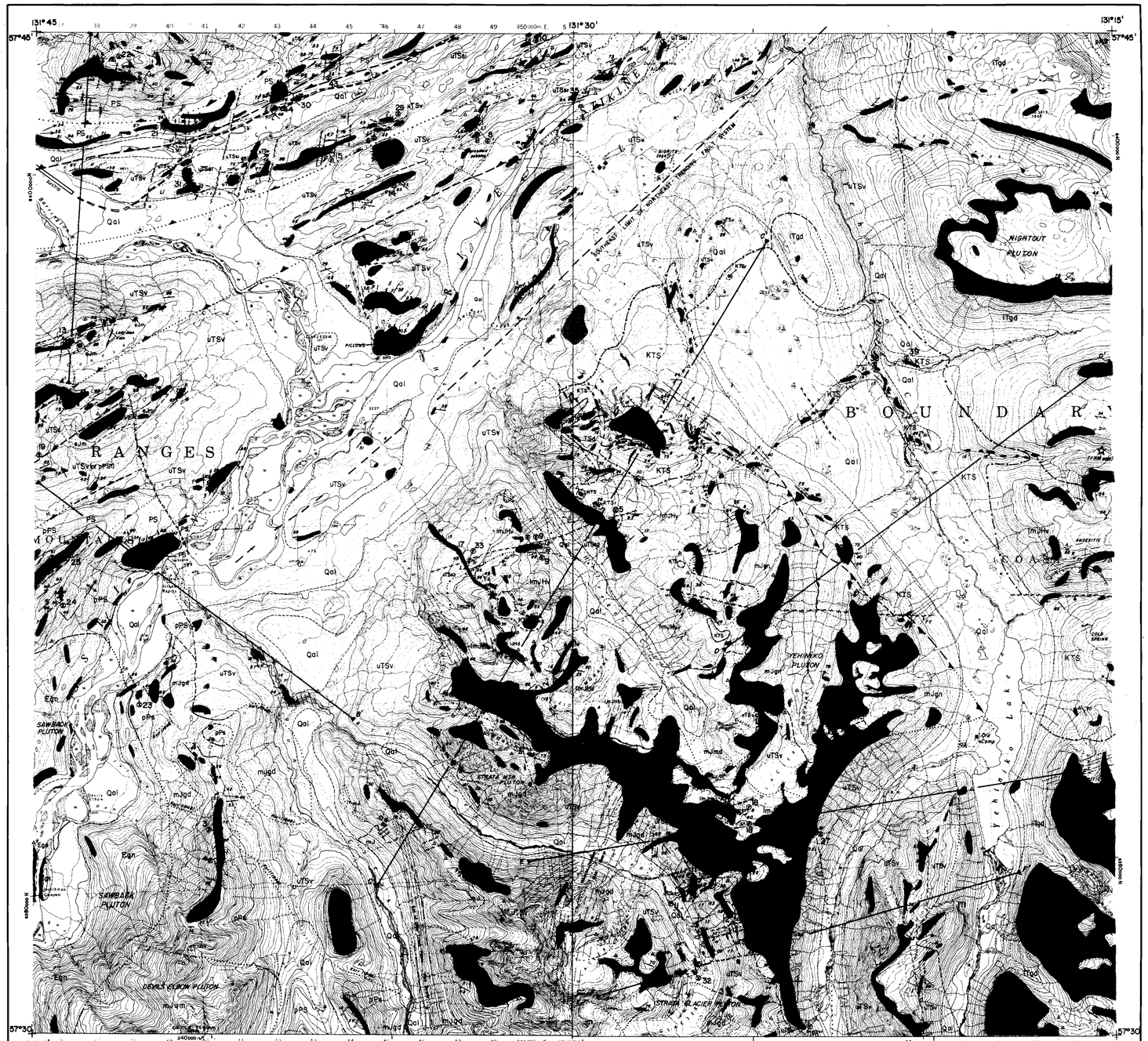
OF 90-1
SHEET 1 OF 2



STRATIFIED ROCKS

QUATERNARY

Qal — Alluvium, unconsolidated glaciofluvial deposits

TERTIARY – EOCENE (?)

SLOKO GROUP

TSd — Pale green to white, locally welded, dacite and rhyolite; minor olive-green andesite flows and breccia; hornblende crystal lithic lapilli tuff-breccia and tuff

TSb — Dark brown weathering, columnar jointed, plagioclase-phyric trachyandesite and basalt flows; breccia

UPPER CRETACEOUS (?) TO PALEOCENE (OR EOCENE ?)

SUSTUT GROUP – BROTHERS PEAK FORMATION

KTS — Poorly indurated, brick-red, brown and grey polymictic conglomerate, lesser sandstone, wacke, siltstone, rare shale; rare coaly plant stems, leaves and tree fragments

- **gnc** — Granitoid-dominated cobble conglomerate
- **t** — Thin but prominent, locally welded, white rhyolite to rhyodacite ash to lapilli tuff horizons (<10 m thick; thickness exaggerated on map), containing fresh biotite flakes in a clay-altered groundmass
- **r** — Rhyolite to rhyodacite flows, tuff; quartz-eye dacite tuff; minor basalt and andesite flows and breccia

Note: These rocks were correlated on a lithologic basis with the Brothers Peak Formation (Maastrichtian to Paleocene; A.R. Sweet, personal communication, 1989). The preliminary Eocene K-Ar date (see sheet 2) is therefore younger than expected. If resetting has not occurred, then either Brothers Peak deposition continued into the Eocene as advocated by Eisbacher (1974) or a younger cycle of erosion and deposition has occurred. If the latter is true, then the rocks may be correlative with the Tanzilla Canyon formation of Read (1984).

LOWER (TO MIDDLE ?) JURASSIC

HAZELTON GROUP

lmJHb — Amygdaloidal olivine basalt flows, carbonate-cemented pillow breccia; rare bioclastic limestone lenses (< 2 m thick); inferred Bajocian

lJHs — Limy sandstone, feldspathic wacke, arenite, fossiliferous - belemnites, terebratulid brachiopods, rare Weyla, small bivalves; Toarcian

lJHd — Flow-banded, pink to red, hematitic rhyodacite/dacite ignimbrite flows, locally autobrecciated and flow-folded; buff to rusty, flow-banded aphanitic rhyolite; possibly Pliensbachian ?

lmJHv — Maroon, purple, mauve, brick-red and green dacite to basaltic andesite pyroxene-plagioclase porphyritic, flow-banded and amygdaloidal flows, crystal lithic tuff-breccia and lapilli tuff; local tuffaceous grit

Note: Anderson *et al.* (1990) have proposed a revised nomenclature for the Hazelton Group in the Stewart and Iskut River areas. Preliminary correlations between units used in this report and those of Anderson's are as follows: unit lmJHb with Salmon River Formation, Eskay Creek facies; unit lJHs with Salmon River formation, "lower member"; and unit lJHd with Mount Dilworth formation.

UPPER TRIASSIC

STUHINI GROUP

uTSs — Sedimentary rocks; (s) = undifferentiated

- UPPER NORIAN
  - **uTSs2** — "West Yehiniko" Creek and Helveker Creek areas: Thin to thick-bedded, buff, grey, green and mauve sandstone, siltstone and argillite; minor shale and fossiliferous shale with abundant *Monotis subcircularis*. L2 = discontinuous limestone lenses (up to 30 m thick); minor pale grey chert
- UPPER CARNIAN–LOWER NORIAN
  - **uTSs1** — Stikine River - Glomerate Creek area: Grey arkosic wacke with limestone clasts, siltstone, graphitic shale, rare black chert; rare granitoid-bearing polymictic conglomerate/breccia; L1 = discontinuous limestone lenses; LBX = limestone sedimentary breccia

uTSv — Volcanic rocks; undifferentiated

- **b** — Mafic volcanic rocks; augite-porphyritic basalt to basaltic andesite flows and breccia; pyroxene-rich crystal lithic lapilli tuff; volcanic wacke, dark green to olive-green, medium-grained, massive, minor plagioclase
- **p** — Bladed plagioclase-porphyritic basalt or basaltic andesite, locally pillowed
- **a** — Intermediate volcanic rocks; massive, green andesite flow-breccia containing 10-20% equant plagioclase phenocrysts; red-brown to purple plagioclase-rich volcanic breccia and tuff; fine-grained, massive, green to olive aphyric andesite
- **rt** — Heterolithic maroon crystal lithic lapilli tuff-breccia, commonly containing carbonate clasts, plagioclase and lesser pyroxene crystals
- **f** — Felsic volcanic rocks; rhyolite/dacite: subaqueous felsic/siliceous ash tuff, laminated, pale to dark green, commonly pyritic; "sharpstone", silicic wacke/breccia, pale to dark green, siliceous angular fragments; local welded ignimbrite

TRIASSIC OR OLDER

m — Foliated to massive mafic metavolcanic rocks, amphibolite (extrapolated north from the Scud River area; see Brown and Gunning, 1989)

PERMIAN OR OLDER

STIKINE ASSEMBLAGE

LOWER PERMIAN

PS — Complexly folded and faulted, locally foliated, grey limestone with minor siliceous layers, lenses or nodules; (mf) = maroon and green plagioclase crystal lithic tuff, tuffaceous mudstone

PRE-PERMIAN

pPS — Rusty weathering, pyritic mafic siltstone, meta-argillite; well-bedded to laminated sericitic silicic ash tuff; varicoloured chert; buff calcareous siltstone; (l) = discontinuous recrystallized limestone, probably Carboniferous age

INTRUSIVE ROCKS

TERTIARY AND OLDER DIKES

Andesite (A), basalt (B), felsite (F), rhyolite (R)

EOCENE

SAWBACK PLUTON

Egn — Well-jointed, medium-grained (hornblende) biotite granite

MIDDLE JURASSIC

YEHINIKO PLUTON

mJgn — Pink, medium-grained hornblende biotite granite, minor quartz monzonite; (mJwq) = quartz monzodiorite

DOKDAON INTRUSIONS

mJ — Hornblende granite to quartz monzonite stocks; spatially associated pink plagioclase latite, trachyte, (quartz) syenite, (quartz) monzonite dikes, typically biotite-hornblende-plagioclase porphyritic

STRATA GLACIER PLUTON + STRATA MOUNTAIN PLUTON

mJgd — Equigranular, medium-grained (biotite) hornblende granodiorite; (mJqm) = quartz monzodiorite

EARLY JURASSIC (?)

CONOVER PLUTON

eJm — Texturally heterogeneous, seriate to crowded plagioclase-porphyritic, locally trachytic, hornblende monzonite to monzodiorite; groundmass of fine to medium grained euhedral to subhegral hornblende and potassium feldspar

LATE TRIASSIC (?) – PRE-MIDDLE JURASSIC

"YEHINIKO DIORITE"

Jd — Hornblende diorite, leucodiorite, tonalite, locally foliated or gneissic

MIDDLE TO LATE TRIASSIC

NIGHTOUT PLUTON

lTgd — Foliated to massive biotite hornblende granodiorite, quartz monzonite, monzodiorite, diorite; typically contains megacrystic poikilitic potassium feldspar; (m) = unfoliated (biotite) hornblende tonalite

NOTE: Detailed descriptions of the map units can be found in Brown and Greig (1990a).

BC Ministry of Energy, Mines and Petroleum Resources

GEOLOGICAL SURVEY BRANCH

OPEN FILE 1990-1 (SHEET 1 OF 2)

GEOLOGY OF THE STIKINE RIVER - YEHINIKO LAKE AREA, NORTHWESTERN B. C.

NTS 104G/11W, 12E

DEREK A. BROWN, CHARLES J. GREIG AND MICHAEL H. GUNNING

SCALE 1:50 000

SYMBOLS

- Geological boundary (defined, approximate, assumed)
- Unconformity (defined, approximate, assumed)
- Bedding (inclined, vertical)
- Bedding; tops observed (inclined, overturned)
- Foliation (inclined, vertical)
- Dike (inclined, vertical; composition indicated by abbreviation)
- Antiformal axis (approximate)
- Synformal axis (approximate)
- Overturned synclinal axis
- Axial plane of minor fold (inclined, vertical)
- Fold axis of minor fold (arrow indicates plunge)
- Glacial striae (undetermined direction of movement)
- High-angle fault (defined, approximate; solid circle on downthrown side)
- Reverse fault (defined, approximate, assumed; teeth in direction of dip)
- Dike swarm
- Cross-section line
- Fossil location; age determined, undetermined (data on Sheet 2)
- Potassium-argon isotopic age sample location (data on Sheet 2)
- Field station with no structural measurements
- Landslide scars
- Diamond drill hole location
- Hand trench location
- Observed outcrop distribution; shown as a grey tone

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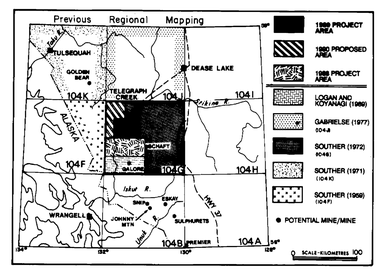
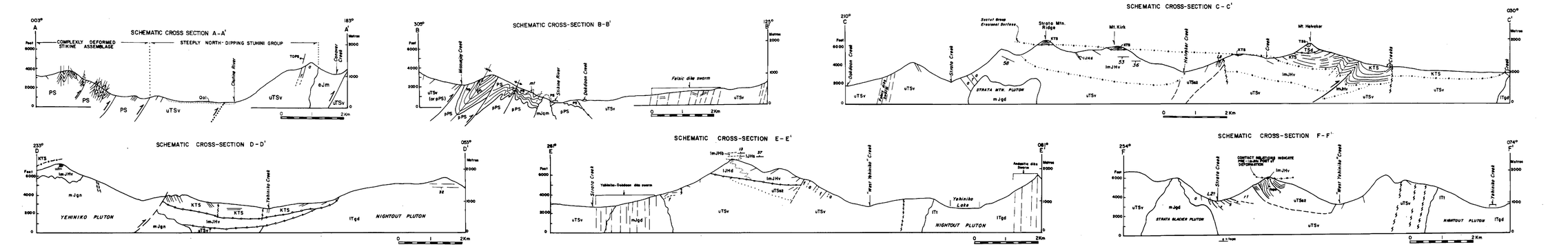
* denotes reference used to compile map.





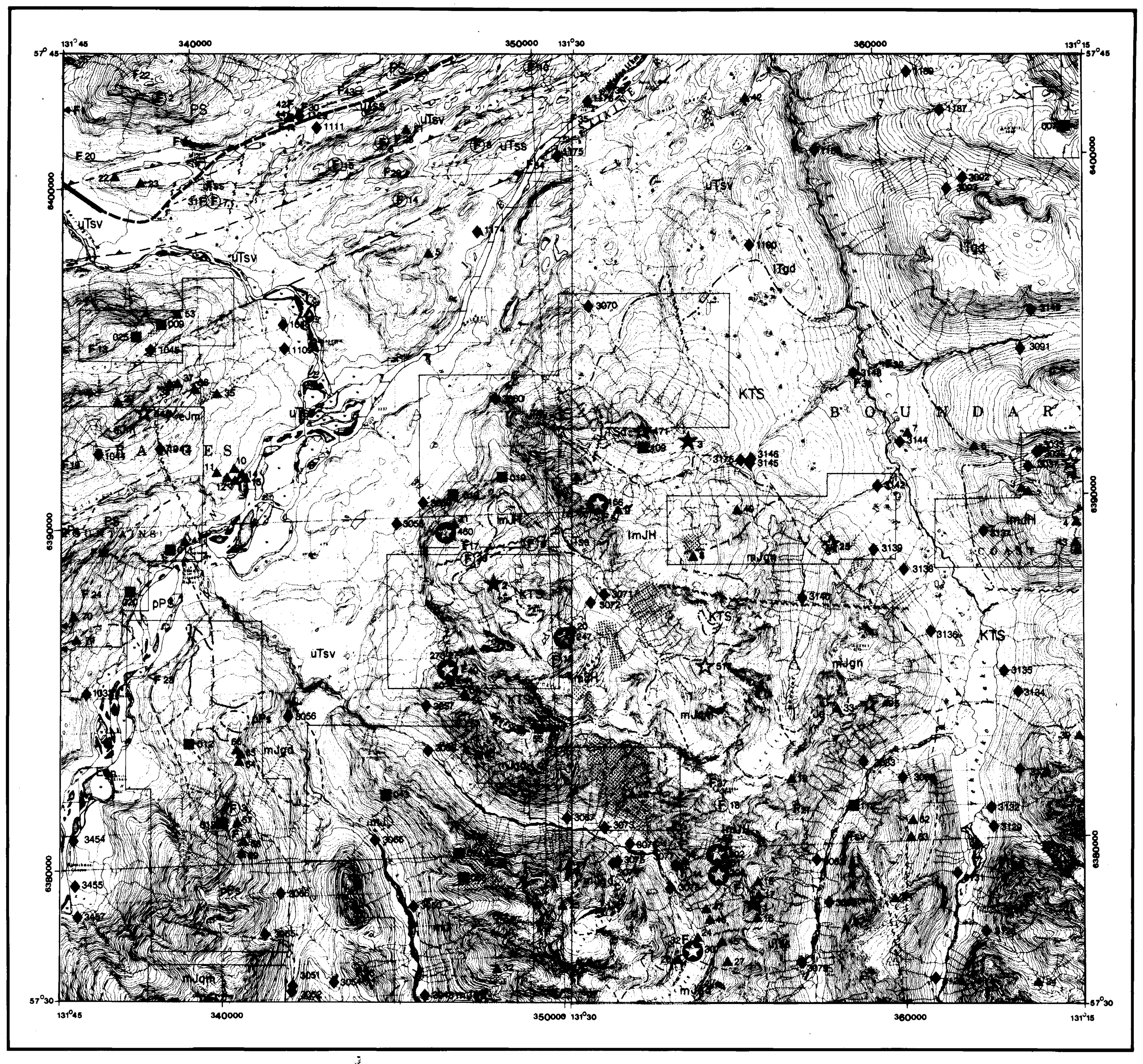
BC Ministry of Energy, Mines and Petroleum Resources
GEOLOGICAL SURVEY BRANCH
OPEN FILE 1990-1 (SHEET 2 OF 2)

GEOCHEMISTRY OF THE STIKINE RIVER - YEHINIKO LAKE AREA, NORTHWESTERN B. C.

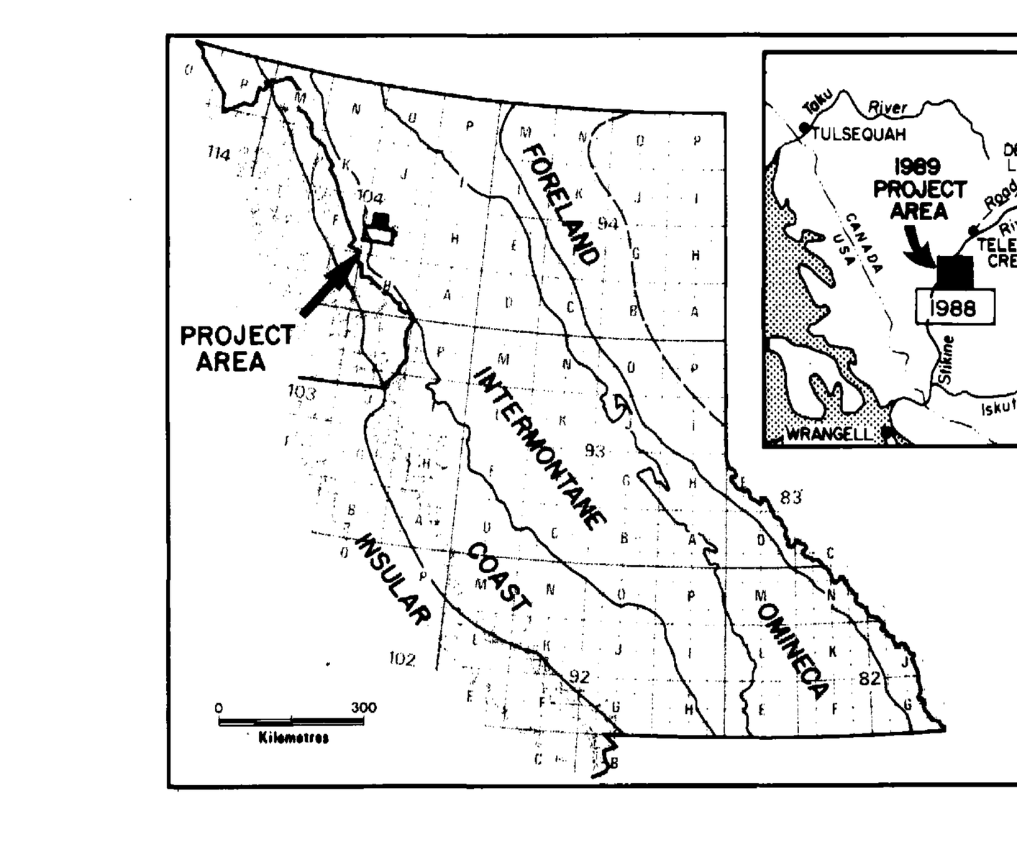
NTS 104G/11W, 12E

DEREK A. BROWN, CHARLES J. GREIG AND MICHAEL H. GUNNING

SCALE 1:100 000



Legend	Symbol
Lithogeochemical sample location	▲41
1988 RGS stream sediment sample location	◆11
New mineral occurrence	273-277
MINFILE occurrence	■011
Gossan or limonite-altered zone	
Current claim blocks (December 1, 1989)	
Fossil collection site (circle = fossil age known)	F9 (F)17
K-Ar age-date sample location	★3
K-Ar age-date (pending) sample location	☆546
Simplified geologic contacts from Open File 1990-1 (Sheet 1)	



LITHOGEOCHEMISTRY

MAP NO.	FIELD NO.	UTM (ZONE 09) EASTING	NORTHING	SAMPLE DESCRIPTION	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm
1	CGR89-7-2	350651	6390820	cm-scale quartz and carbonate vein	<2	2.0	260	5	8	13	20.0
2	CGR89-46	363807	6389993	pyritic felsite dike	4	0.8	5	5	19	17	2.0
3	CGR89-47-2	363624	6390051	pyritic felsite dike	<2	0.8	8	11	31	73	4.0
4	CGR89-69	367856	6389075	cm-scale quartz vein with malachite and pyrite	40	<0.5	0.24%	9	118	10	0.6
5	CGR89-93	346559	6397567	pyritic, siliceous dust tuff	<2	<0.5	225	2	83	6	1.0
6	CGR89-116	362252	6391394	py, pyrr, chl, qz open space filling in rhyolite	<2	<0.5	186	7	145	6	1.0
7	CGR89-120	360342	6391750	disseminated py in carbonaceous(?) siltstone	<2	<0.5	48	7	55	52	3.0
8	CGR89-153-1	353947	6388416	py and cb breccia filling	<2	<0.5	14	2	27	2	<0.5
8	CGR89-153-2	353947	6388416	pyritic altered pluton or felsite dike	<2	<0.5	44	2	15	2	<0.5
8	CGR89-153-3	353947	6388416	pyritic felsite dike	<2	<0.5	40	2	6	1	<0.5
9	CGR89-166	351657	6389893	quartz vein with cpy, mal, up to 5 cm	<2	51.0	4.7%	7	57	29	50.0
9	CGR89-166DUP	351657	6389893	quartz vein with cpy, mal, up to 5 cm	12	66.0	5.3%	10	55	62	3.0
10	CGR89-188	340725	6391456	Fe carbonate and quartz veining, minor py, mal	<2	<0.5	108	4	42	8	23.0
11	CGR89-191	340178	6391377	Fe carbonate vein-breccia along dike margin	8	<0.5	24	65	140	64	79.0
12	CGR89-194	340469	6391222	pyritic, siliceous dust tuff	<2	<0.5	141	5	86	11	3.0
13	CGR89-195	340675	6391222	pyritic, siliceous dust tuff	3	<0.5	87	12	103	2	0.7
14	CGR89-196	340845	6391268	pyritic, siliceous dust tuff	<2	<0.5	159	7	83	6	0.9
14	CGR89-196DUP	340845	6391268	pyritic, siliceous dust tuff	<2	<0.5	163	7	83	6	0.7
15	CGR89-197	353967	6395595	pyritic, siliceous dust tuff	<2	<0.5	158	5	85	7	0.6
16	CGR89-213	355423	6377783	black carbonate veining and breccia fillings	5	<0.5	63	9	35	13	0.6
17	CGR89-218	355351	6378311	pyritic feldspar porphyry dike	<2	<0.5	25	7	59	21	0.9
18	CGR89-220	355397	6378716	tourmalinized(?) feldspar porphyry dike	<2	<0.5	8	7	37	3	0.7
19	CGR89-224	356579	6381817	cm-scale hematitic cb-qz veins	3	<0.5	31	2	49	2	<0.5
20	CGR89-247	350289	6386230	5-15 cm Fe carbonate vein-breccia	22	3.0	210	0.58%	0.37%	17	10.0
21	CGR89-262	345980	6400980	augite-phyric basalt	8	<0.5	135	2	85	2	<0.5
22	CGR89-291-2	337511	6400131	siliceous tuff with disseminated py, pyrrhotite	<2	<0.5	200	9	105	4	2.0
23	CGR89-293	338259	6399941	siliceous tuff with disseminated py, pyrrhotite	<2	<0.5	144	4	82	5	0.7
24	CGR89-307	353660	6377330	cm-scale qz-cb veinlets with py, gal, sph, py, mal	43	45.0	0.86%	0.51%	162	3	2.0
24	CGR89-307-2	353660	6377330	cm-scale qz-cb veinlets with py, gal, sph, py, mal	136390	19.0	0.29%	27	10	2	0.7
25	CGR89-324	349748	6378342	float: qz vein with ep, hem, cpy, py, mal	7	3.0	0.73%	7	28	8	2.0
26	CGR89-337	353071	6376673	silicified, chloritized and ep-rich plutonic rock	5	<0.5	118	7	71	11	3.0
27	CGR89-341	354520	6376545	cb vng & hematitic/potassic altn in plut host	<2	<0.5	4	7	55	6	0.7
28	CGR89-359	351903	6381529	pyritic and chloritic wallrock to dike swarm	10	<0.5	68	10	17	3	<0.5
29	CGR89-382	337371	6393580	cb veining and vein-breccia	<2	<0.5	17	2	20	7	<0.5
30	CGR89-411	347476	6379970	drusy qz-cb veinlet with py, galena	5158	2.0	28	267	171	7	3.0
31	CGR89-460	346971	6389455	cm-scale qz veinlet with py	312	12.0	0.50%	15	83	5	2.0
32	CGR89-481	347824	6376597	soil sample from limonitic zone	21	<0.5	315	24	102	113	3.0
33	CGR89-492-2	358011	6383849	sub-cm qz veinlet with mal, py, ep	18	<0.5	0.52%	2	55	8	2.0
34	CGR89-524	363564	6375622	float: qz veinlet with vfg chalcocite(?), mal	560	22.0	1.8%	79	44	11	6.0
35	CGR89-532	340283	6393699	Fe cb and chalcedonic qz vein-breccia	<2	<0.5	72	5	36	6	7.0
35	CGR89-532-2	340283	6393699	qz and Fe cb veining	<2	<0.5	68	2	40	9	3.0
36	CGR89-536-2	339639	6393835	chalcedonic qz vng & limonite open space filling	<2	<0.5	40	7	158	10	24.0
37	CGR89-539	339105	6394010	Fe cb altn & drusy qz open space filling	<2	<0.5	8	2	63	1	0.9
38	CGR89-540	338936	6394031	qz veining and Fe cb altn	<2	<0.5	40	2	35	2	5.0
39	DBR89-17	365042	6382784	Fe cb altered granodiorite	<2	0.8	6	5	56	14	2.0
40	DBR89-65	355316	6389710	disseminated py in altered andesite	<2	0.8	136	5	23	6	0.7
41	DBR89-101	339180	6389323	Cu-Fe skarn	338	19.0	2	11	162	130	3.0
42	DBR89-119-2	355942	6401780	py stringers in wacke	23	0.8	168	5	50	36	4.0
43	DBR89-139	366035	6388511	epidote-flooded tuff	<2	0.8	28	5	35	12	1.0
44	DBR89-247-2	342741	6401677	quartz vein in shale	<2	1.0	50	4	162	17	7.0
45	DBR89-256	354366	6377045	massive py with epidote and quartz	24	1.0	20	16	30	25	3.0
46	DBR89-258	354058	6377815	float: qz py vein in volcanic breccia	822	8.0	502	147	13	0.17%	21.0
47	DBR89-261	353956	6378067	disseminated py in siltstone	30	1.1	25	120	17	0.15%	28.0
48	DBR89-266	353336	6379465	qz-calcite vein with cpy, gal, py	3977	29.0	3.5%	120	8	10	0.9
48	DBR89-266DUP	353336	6379465	qz-calcite vein with cpy, gal, py	2898	33.0	1.5%	51	6	12	1.0
49	DBR89-273	347412	6385901	qz vein with py, cpy	142	75.0	6.1%	84	67	11	11.0
50	DBR89-277-1	347013	6385242	1-2% py in fine-grained chloritized(?) host	13	0.8	441	5	28	9	1.0
50	DBR89-277-2	347013	6385242	float: qz vein with py	342	2.0	0.12%	31	0.22%	322	14.0
51	DBR89-298	354563	6379169	qz-calcite vein with cpy, gal, py	856	37.0	2.5%	0.36%	57	4	0.7
51	DBR89-298DUP	354563	6379169	qz-calcite vein with cpy, gal, py	2561	29.0	1.9%	1.7%	47	3	1.0
52	DBR89-302	354555	6379720	qz vein with specular hematite, mal	300	261.0	11.8%	4	15	60	20.0
53	DBR89-367	339187	6395997	silicified host with 2% disseminated py	167	<0.5	10	19	63	158	4.0
53	DBR89-367-2	339187	6395997	qz-calcite veins in clay-altered volcanic host	86	<0.5	49	56	71	160	4.0
53	DBR89-367-3	339187	6395997	qz-calcite veins in clay-altered volcanic host	140	<0.5	10	9	42	83	2.0
54	DBR89-382	349193	6383577	qz-Fe cb vein with py	766	12.0	7	0.31%	0.43%	819	8.0
55	DBR89-383	349343	6383521	disseminated py in altered volcanic breccia	38	4.0	203	0.11%	0.33%	397	21.0
56	DBR89-384	349343	6383521	qz-calcite vein with gal, py	548	40.0	485	2.2%	3.8%	638	55.0
57	DBR89-388	349486	6383569	qz-calcite vein with py, gal	3	5.0	20	585	0.45%	33	39.0
58	DBR89-397	347156	6384568	float: limonitic, pyritic altered breccia	17	1.7	6	56	50	14	2.0
59	DBR89-398	347157	6384569	float: clay-altered conglomerate	6	0.8	11	41	28	35	7.0
60	DBR89-408-2	347488	6382841	vein	6	2.0	68	58	53	119	47.0
61	MGU89-73	359468	6378210	chloritized mafic tuff	<2	2.0	46	5	46	5	0.8
61	MGU89-73DUP	359468	6378210	chloritized mafic tuff	<2	2.0	47	5	52	6	0.6
62	MGU89-112-2	360073	6380466	up to 10% py in hb qz diorite dike	<2	0.8	120	5	51	1	<0.5
63	MGU89-115	360008	6380002	up to 10% py in hb qz diorite dike	56	0.8	246	5	51	1	<0.5
63	MGU89-115DUP	360008	6380002	up to 10% py in hb qz diorite dike	77	0.8	282	5	55	1	<0.5
64	MGU89-124	340509	6382959	pyritic metavolcanic	15	0.8	43	5	85	9	3.0
65	MGU89-125	340515	6383126	pyritic metavolcanic	3	0.8	53	5	58	5	2.0
66	MGU89-126	340468	6383222	pyritic metavolcanic	<2	0.8	85	17	48	6	2.0
66	MGU89-126DUP	340468	6383222	pyritic metavolcanic	<2	0.8	84	17	46	6	2.0
67	MGU89-141	340370	6381134	pyritic siliceous tuff	3	0.8	6	17	34	22	1.0
68	MGU89-143	340508	6380666	pyritic siliceous tuff	<2	0.8	15	23	62	11	1.0
69	MGU89-144	340500	6380258	pyritic siliceous tuff	8	0.8	40	5	688	5	0.7
69	MGU89-144DUP	340500	6380258	pyritic siliceous tuff	11	0.8	45	5	0	3	<0.5
70	MGU89-180-2	334859	6387323	pyritic andesite dike	<2	<0.5	134	12	41	7	0.6
71	MGU89-184	334242	6386648	pyritic andesite dike	4	<0.5	52	5	31	43	1.0

ABBREVIATIONS:
cm=centimetres, vng=veining, altn=alteration, plut=plutonic, vfg=very fine grained, py=pyrite, hb=hornblende, pyrr=pyrrhotite, chl=chlorite, qz=quartz, cb=carbonate, cpy=chalcopyrite, mal=malachite, gal=galena, sph=sphalerite, ep=epidote, hem=hematite, DUP=duplicate analysis.

ANALYTICAL TECHNIQUES:
SAMPLE PREPARATION:
Samples were pulverized to -200 mesh using tungsten carbide equipment.
TRACE ELEMENT ANALYSIS--Ag, Cu, Pb, Zn, As, Sb:
Samples, typically 0.5 gram, were digested in mixed acids (including HF) in Teflon beakers. The residue was then diluted to a specific volume and the elements measured using atomic adsorption spectroscopy. As and Sb determination used a method whereby an evolved hydride was passed through a heated quartz tube in the light path of the spectrometer. Background corrections were made for Pb, As and Sb.
TRACE ELEMENT ANALYSIS--Au:
A 15 gram sample was concentrated by fire assay into a silver bead, dissolved in aqua regia, and then gold was determined by graphite furnace atomic adsorption spectroscopy.

MINERAL OCCURRENCES

MINFILE NO.	NAME OR FIELD NO.	UTM (ZONE 09) EASTING	NORTHING	HOST MAP UNIT	ECONOMIC MINERALS	DESCRIPTION	REFERENCES
Au-Ag base metal quartz veins:							
009	Jackson, BIK,...	339250	6396000	Stuhini Group	cpy, gln, sph, py	NE to NW-trending qz and cb breccia zone	1; #'s: 591, 14, 216
025	Lady Jane	338350	6395650	Stuhini Group	cpy, gln, sph, py	qz and cb breccia zone, N-S/60W	1; #'s 591, 14, 216
020	Lucky Strike,...	337300	6387800	Stikine assemblage	Au, gln, cpy, sph, pyrr, py	NW-trending, shallowly-dipping frc zone with qz vng	
new occ.	CGR89-307	353660	6377330	Stuhini Group	cpy, gln, sph, py	NNE, steep; approx. 20, 1 to 4 cm cb-qz vnlts across 5 m	new occurence
new occ.	DBR89-298	354563	6379720	Stuhini Group	cpy, gln, py	042/78SE qz-cb vein, <2 cm thick	new occurence
Au-Cu quartz veins:							
010	August	347400	6390250	Stuhini Group	cpy, bo, py	cm-scale qz veins in NE-trending, steeply dipping frc zones	1; #'s 13, 662
019	Mtn. Goat, Kirk Cu	348744	6390502	Stuhini or Hazelton	cpy, bo	qz veins or lenses, up to 1 m thick, along dike contacts	1; #'s 13, 662
new occ.	CGR89-166	351657	6384893	Stuhini Group	cpy, mal	ENE, steeply dipping quartz vein, up to 5 cm	new occurence
new occ.	CGR89-460	346971	6389455	Stuhini Group	py, cpy?	NE, steep, cm-scale siliceous pyritic vein or layer(?)	new occurence
new occ.	DBR89-273&277	347412	6385901	Hazelton Group	py, cpy	cm-scale qz veins	new occurence
new occ.	DBR89-302	354555	6379720	Stuhini Group	specular hematite, mal	077/84SE discontinuous qz vein, up to 7 cm thick	new occurence
Base metal veins:							
007	Callbreath	365200	6400750	Nightout pluton	cpy, bo	qz veins (240/steep), cutting grdr	#4717
112	Yehiniko west	359000	6382000	Stuhini Group	unknown	N-trending altn zone	Souther (1972)
new occ.	CGR89-247	350289	6386230	Hazelton Group	Fe-cb, gln? sph?	N-trending, vertical; 5-15 cm cb vein-breccia	new occurence
Volcanic-hosted porphyry Cu:							
038	LLK	348600	6378900	Stuhini Group	mal, az, cpy, mo, py	diss, frc filling & vn minlzn; propylitic altn and oxidation	#3029
043	Dok	345650	6381700	Stuhini Group	cpy, py	diss and frc filling minlzn; propylitic and local potassic altn	#'s 3029, 3238
074	PR	349000	6379700	Stuhini Group	cpy, py	cm-scale sulphide-rich veins associated with felsic dikes	#'s 3029, 3846
Cu skarn:							
011	Drapich	339200	6389300	Stikine assemblage	cpy, sph, gln, mgt, py, pyrr	irreg cpy lenses, <1 m thick, in skarn developed at grdr cnt	1
Ag-Au base metal-W skarns:							
012	Devil's Elbow	339998	6383847	Stikine assemblage	mgt, py, gln, cpy, sph, sch, py, py	irreg sulphide lenses in skarn developed at grdr cnt	1, #11,262
013	Apex	340340	6379464	Stikine assemblage	gln, sph, mgt, cpy, sch, py, pyrr	minlzn not described	1
Stratabound U:							
109	Hel	353000	6392000	Sustut Group	Saleeite, torbernite	cm-scale zone of stratabound minlzn in cgl	Bell (1981), #7708

ABBREVIATIONS:
cpy=chalcopyrite, gln=galena, sph=sphalerite, py=pyrite, bo=bornite, mal=malachite, Fe-cb=iron carbonate, mo=molybdenite, mgt=magnetite, sch=scheelite, qz=quartz, cb=carbonate, clc=chalcocite, az=azurite, grdr=granodiorite, minlzn=mineralization, altn=alteration, diss=disseminated, vn=vein, vng=veining, frc=fracture, irreg=irregular, occ=occurrence, #=assessment report number, m=metres, cm=centimetres, cnt=contact, 1=Kerr(1948), L-MJr=Lower to Middle Jurassic rocks (Hazelton Group equivalent).

K-Ar DATES

MAP NO.	FIELD NO.	UTM (ZONE 09) EASTING	NORTHING	ROCK TYPE	MINERAL	K (%)	40*Ar x10-6 cc/gm	40Ar (%)	AGE (Ma)	MAP UNIT
1989 SAMPLES:										
1	CGR89-217	355389	6378238	andesite tuff-breccia	WR	0.475+/-0.002	2.843	86.9	148+/-5	Hazelton Gp.
2	CGR89-439	348412	6387905	flow-banded andesite	WR	1.66+/-0.01	11.245	94.6	166+/-6.0	Hazelton Gp.
3	DBR89-376	354146	6391935	felsic tuff	WR	na	na	na	54+/-2	Sustut Group

K-Ar dates for mineral separates are pending for samples CGR89-78, 495, 517 and 546 and DBR89-25 and 471 (see map for location and unit).

REVISED DATES FOR 1988 SAMPLES (SCUD GLACIER AND SCUD RIVER AREAS (104G/5 AND 6)):

MAP NO.	FIELD NO.	EASTING	NORTHING	ROCK TYPE	MINERAL	K (%)	40*Ar x10-6 cc/gm	40Ar (%)	AGE (Ma)	MAP UNIT
1	DBR-88-290-2	347650	6371100	Felsite dike	Biotite	6.09+/-0.03	11.922	90.9	49.7+/-1.7	Dike
2	DBR-88-328	352750	6360800	Pink granite	Biotite	5.93+/-0.20	42.932	81.4	177+/-7	mJy
3	DBR-88-329	348425	6359950	Granodiorite	Hornblende	1.21+/-0.04	8.995	91.7	182+/-7	mJgd
					Biotite	6.98+/-0.02	46.357	88.4	163+/-6	
4	DBR-88-331	349775	6371075	Granodiorite	Hornblende	0.712+/-0.005	4.58	88.8	158+/-6	mJgd
5	MGU-88-48	332350	6349920	Granodiorite	Hornblende	0.695+/-0.001	1.539	83.4	56.1+/-2.0	Egd
					Biotite	5.78+/-0.04	12.368	53.6	54.2+/-1.9	
6	MGU-88-76	327930	6374200	Biotite granite	Biotite	6.65+/-0.07	12.574	59.7	48.0+/-1.7	Egn
7	MGU-88-102	341200	6352140	Quartz monzonite	Hornblende	0.773+/-0.004	6.495	95.5	204+/-7	eJqm

* = Radiogenic argon; na=not available, date is preliminary.
Decay constants: 40K epsilon=0.581 x 10-10 year-1; 40K beta=4.96 x 10-10 year-1; 40K/K = 1.167 x 10-4.
Potassium determined at the University of British Columbia geochronology laboratory.
Argon determination and age calculation by J.E. Harakal, University of British Columbia.

REGIONAL STREAM SEDIMENT SAMPLE PERCENTILES FOR SELECTED ROCK UNITS IN THE ISKUT, SUMDUM, TELEGRAPH CREEK AND TULSEQUAH MAP AREAS (104B, F, G AND K)

ROCK UNIT	PERCENTILE	Cu ppm	Au ppb	Ag ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Mo ppm	Sn ppm	W ppm	F ppm	U ppm	As ppm	Sb ppm	Hg ppb	Ba ppm
STIKINE	75%	76	15	0.2	11	92	36	17	3	3	3	420	3.4	18	1	30	1100
(n=327)	95%	125	72	0.5	27	152	92	25	6	13	5	620	13.2	63	4.5	110	1484
STUHINI	75%	88	14	0.3	14	120	41	20	3	4	3	380	3.1	21	1.6	90	1100
(n=583)	95%	137	103	0.6	32	227	91	30	6	8	5	530	8.2	64	4.6	220	1614
HAZELTON	75%	55	9	0.3	14	160	106	19	3	3	3	410	2.9	22	1.6	130	1200
(n=538)	95%	109	63	0.8	35	352	141	27	8	5	4	570	5.1	95	5.4	300	1700
SUSTUT/SLOKO	75%	40	5	0.1	9	95	36	16	1	3	2	270	3.9	3	0.4	25	891
(n=28)	95%	94	20	0.2	14	106	59	20	2	5	2	320	5.4	6	0.6	35	1150
INTRUSIONS	75%	54	11	0.2	13	80	21	14	3	3	3	430	10.8	6	0.5	25	1200
(n=610)	95%	149	65	0.5	41	146	55	24	9	6	8	630	29.2	34	1.4	95	1700

Note: Data from the Regional Geochemical Survey for Iskut, Sumdum, Telegraph Creek and Tulsequah map areas was sorted on codes for the above map units. The assigned map unit is based on lithology at the stream sediment sample site as determined from 1:1,000,000 geology maps and may not reflect source lithology.

STREAM SEDIMENT GEOCHEMISTRY*

RGS ID NO	UTM EASTING	(ZONE 09) NORTHING	Au(1) ppb	Au(2) ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Ni ppm	Co ppm	V ppm	Mn ppm	Fe ppm	Hg ppm	F ppm	U ppm	Ba ppm	Sn ppm	W ppm	Mo ppm
STIKINE ASSEMBLAGE:																						
873051	341989	6376374	10		0.1	58	8	59	6	0.4	41	18	73	380	3.25	25	255	4.4	1340	3	2	1
873052	341989	6376374	1	1	0.1	57	8	57	6	0.4	38	17	68	350	2.97	15	260	3.9	1300	2	2	1
873054	343217	6376494	18		0.1	24	6	83	17	0.4	20	15	48	606	3.71	25	305	3.9	900	4	2	2
873055	341341	6377954	25	15	0.6	77	81	133	23	0.6	29	19	72	718	3.36	55	230	65.3	1050	5	4	3
873066	341768	6379161	6		0.4	33	31	148	36	1.2	38	13	44	497	2.82	15	260	2.7	595	10	2	2
STUHINI GROUP:																						
871044	336898	6392178	1		0.1	82	10	49	2	0.3	158	24	112	465	3.44	10	275	0.8	475	4	2	3
871045	338643	6395149	7		0.3	175	14	88	15	1.5	89	21	121	741	4.14	45	305	2.1	862	5	2	3
871046	342434	6395773	1		0.1	64	11	62	4	0.4	182	23	92	506	3.41	20	260	1.3	596	4	2	2
871109	342454	6395042	1		0.1	71	8	61	2	0.2	38	32	99	496	4.08	80	305	1.4	540	4	2	2
871111	343659	6401503	2		0.1	35	6	70	3	0.4	21	13	69	412	3.02	15	225	1.7	836	4	2	1
871129	343265	6401865	5		0.4	46	9	133	8	1.1	40	13	79	583	2.89	85	365	2.7	1670	5	2	2
871174	348200	6398300	1		0.1	35	8	67	4	0.5	50	13	46	432	3.10	15	265	1.9	861	2	2	1
871176	351445	6402017	1		0.1	40	10	76	4	0.3	54	14	46	460	2.92	15	180	1.8	844	4	2	1
871188	358151	6400230	1		0.1	48	6	45	2	0.2	24	11	44	305	2.28	20	295	2.9	713	2	2	1
871190	356074	6397576	1		0.1	30	12	44	3	0.1	386	28	53	706	3.27	25	245	3.0	606	4	2	1
873050	345759	6378447	5		0.1	156	20	100	5	0.6	232	38	90	688	3.96	15	165	1.9	382	3	2	1
873056	342170	6384340	3		0.1	41	8	35	3	0.2	66	14	50	268	2.27	10	205	4.6	900	1	2	1
873057	346144	6384471	51	35	0.8	114	169	284	48	3.0	45	26	55	731	3.70	40	195	6.5	802	2	2	2
873058	345088	6389813	32	1	0.1	46	22	73	4	0.7	90	21	58	653	2.99	25	190	3.2	906	3	2	1
873059	346254	6390392	6		0.1	48	13	64	3	0.5	23	12	49	405	2.27	60	225	3.4	663	4	2	1
873060	348322	6393319	1		0.1	47	6	44	2	0.2	106	18	43	337	2.66	10	215	3.2	663	2	2	4
873065	344556	6380621	4		0.1	33	6	25	3	0.2	9	10	45	206	1.86	20	230	4.9	958	1	8	1
873069	346187	6383244	1		0.1	53	4	35	1	0.2	12	12	39	281	2.07	15	210	2.6	861	1	2	1
873070	351307	6395945	1		0.1	11	13	88	4	0.4	7	9	47	565	2.15	10	195	4.7	997	1	2	1
873073	351211	6380754	2		0.1	51	10	61	3	0.4	35	27	70	580	4.20	5	265	2.3	671	2	2	2
873074	351404	6379759	2	3	0.1	129	4	57	2	0.6	25	23	61	460	2.99	5	195	1.2	457	1	2	1
873075	351404	6379753	3		0.2	129	5	55	1	0.6	25	23	59	424	2.98	5	140	1.2	535	1	2	1
873076	351919	6380170	4		0.3	98	14	89	4	0.5	34	29	84	721	4.21	15	205	2.1	813	3	2	1
873077	353199	6379558	4		0.4	142	75	159	30	2.3	37	19	40	569	3.36	30	275	3.5	756	4	2	2
873078	353010	6378881	3		0.1	57	4	26	1	0.3	11	13	36	236	1.86	20	130	2.9	755	1	2	1
873079	357011	6376420	4		-0.1	25	4	25	2	0.4	3	6	23	145	1.24	20	155	4.0	986	1	2	1
873080	357678	6378360	40	28	0.3	388	20	117	7	0.9	64	49	146	1158	5.02	80	135	1.1	455	3	2	2
873082	357411	6379533	2		0.1	77	20	95	12	1.1	13	18	68	704	3.79	30	290	2.2	1170	7	2	1
873083	358988	6382316	1		0.3	132	9	95	12	0.6	264	38	77	575	3.84	30	110	1.5	348	2	2	1
873085	360099	6381834	1		0.1	91	3	35	1	0.2	499	43	51	292	2.92	5	90	0.5	217	3	2	1
873137	362610	6388859	237	14	0.1	68	6	34	3	0.3	96	15	36	322	2.21	50	125	3.5	554	4	2	1
SUSTUT AND SLOKO GROUPS:																						
873138	360268	6387919	1		0.1	20	9	71	1	0.5	13	10	30	535	2.22	25	215	4.0	1030	4	2	1
873139	359345	6388569	1		0.1	20	7	72	2	0.3	12	10	36	658	2.45	25	185	27.2	820	5	2	1
873142	359579	6390421	14	350	0.1	40	7	87	3	0.5	17	17	56	519	3.01	5	205	3.1	807	3	2	1
873144	360223	6391713	2		0.1	19	7	52	1	0.2	15	10	31	328	2.09	5	195	2.7	772	1	2	1
873145	356015	6391229	1		0.1	20	11	54	2	0.4	12	9	36	520	2.30	20	320	5.4	1150	3	2	1
873146	356008	6391229	1	1	0.1	24	11	61	1	0.4	16	11	38	504	2.32	20	285	4.8	1100	4	2	1
873148	358974	6393811	1		0.1	19	11	53	1	0.3	12	7	32	320	1.75	10	270	4.6	1090	3	2	1
INTRUSIONS:																						
871033	336294	6385198	2		0.3	11	25	56	5	0.2	7	4	25	419	1.44	25	425	1.3	564	1	8	6
871187	361778	6401307	1		0.1	32	10	75	2	0.2	15	10	44	528	2.68	15	185	4.4	816	3	2	1
871189	360888	6402447	1		0.1	48	7	89	2	0.2	20	11	51	416	2.87	30	275	4.2	801	2	2	1
873035	364255	6391164	300	13	0.1	14	6	36	1	0.2	11	11	36	268	2.33	5	205	3.7	803	2	2	1
873036	364255	6391170	21	4	0.1	14	6	44	1	0.2	14	11	44	330	2.40	15	200	4.1	750	3	2	1
873037	364008	6390818	1		0.1	52	5	88	3	0.3	19	19	60	757	3.50	15	155	2.4	729	2	2	1
873048	345904	6376018	1		0.1	93	12	46	5	0.6	18	14	45	396	2.46	15	185	2.6	952	3	2	2
873091	363899	6394258	1		0.1	15	5	50	1	0.3	10	7	38	259	1.94	10	210	5.4	771	3	2	1
873092	362342	6399290	1		0.1	45	6	52	2	0.4	25	11	54	408	2.28	20	205	5.7	679	1	2	1
873093	362077	6398990	6		0.1	36	9	80	1	0.4	18	11	53	745	2.78	45	175	5.7	644	4	2	1
873126	360770	6375882	25	28	0.6	205	34	102	187	14.5	54	29	58	452	4.53	90	175	1.9	537	1	4	4
873128	362286	6377287	2		0.1	19	3	36	1	0.3	7	7	23	281	1.61	20	260	3.5	856	2	2	1
873129	362616	6380325	17		0.1	16	3	26	2	0.3	5	6	20	230	1.32	5	225	4.3	916	1	2	1
873131	361524	6378831	1		0.1	60	5	47	4	0.4	278	29	45	415	2.97	20	140	0.7	344	4	2	1
873132	362594	6380904	9		0.1	26	3	32	1	0.3	15	8	23	277	1.77	10	190	2.3	839	1	2	1
873133	363678	6381909	5		0.1	84	9	97	4	0.4	26	22	68	683	3.95	580	210	6.6	673	3	2	1
873134	363582	6384236	5		0.1	75	12	100	11	1.4	50	23	70	627	1.14	150	250	7.0	931	7	2	1
873135	363085	6384899	61	5	0.1	23	11	78	3	0.5	18	13	44	889	3.43	20	195	3.5	1030	1	2	1
873136	360963	6386077	2		0.1	30	10	51	2	0.3	23	13	43	397	2.61	30	260	15.4	571	1	2	3
873140	357195	6387232	4		0.1	42	9	66	1	0.2	14	17	51	462	2.88	5	185	2.1	586	4	2	1
873149	364254	6395396	3		0.1	42	8	84	1	0.4	11	11	46	626	2.56	5	380	4.9	655	4	2	1
873175	355775	6391335	3		0.1	26	12	78	3	0.4	17	13	60	534	2.79	95	210	3.2	954	1	2	1
873454	335898	6380940	1		0.1	43	6	61	4	0.3	43	12	48	447	2.77	40	250	2.3	866	4	2	1
873455	335699	6379609	1		0.4	39	25	184	6	0.4	41	11	56	348	2.98	45	280	65.7	728	3	2	1
873457	335741	6378662	3		0.2	36	10	68	4	0.4	41	12	46	376	2.78	40	285	5.5	877	1	2	1
871175	350632	6400493	2		0.1	35	9	72	4	0.2	31	9	37	757	2.69	80	215	2.3	1070	5	2	1
873067	350104	6381051	1		0.3	73	86	126	8	0.6	25	23	48	842	3.86	20	265	2.8	1110	4	2	2
873071	351487	6387504	6		0.1	72	18	113	2	0.4	28	22	77	752	3.65	5	265	2.5	651	2	2	1
873072	351021	6387422	10		0.3	118	21	139	4	0.5	33	30	74	852	4.61	15	240	2.2	800	1	2	2

Underlined values are in the 95th percentile for the sample population from map-areas 104B, F, G and K (see table above).
* Data from National Geochemical Reconnaissance 1:250,000 map series, Iskut, Sumdum-Telegraph Creek and Tulsequah map-areas, British Columbia (NTS 104B, 104F-G and 104K), MEMPR BC RGS 18, 19 and 20, GSC OF 1645, 1646 and 1647 (1988).

FOSSIL COLLECTIONS

MAP NO.	FIELD NO.	GSC NO.	UTM (ZONE 09) EASTING	NORTHING	DESCRIPTION OF FAUNA	AGE	REF.
					MACROFOSSILS		
STIKINE ASSEMBLAGE							
1	CGR89-398	168021	335482	6402326	nothing determined	indeterminate	3
2	MGU89-64	158922	339087	6402542	corals, fusulinids	prob. early Permian	5
3	MGU89-140	158927	340524	6381697	corals	poss. late Miss.-early Penn.	5
4	MGU89-142	168065	340555	6380961	tabulate and rugose corals	late Carb. or Permian	5
STUHINI GROUP							
5	CGR89-168	168014	351657	6389893	poorly preserved bivalves(?)	indeterminate	3
5	CGR89-170	168015	351657	6389893	corals(?)	indeterminate	3
5	CGR89-178	168016	351614	6389732	bivalve	indeterminate	1
6	CGR89-260	168018	345571	6400983	corals	indeterminate	1
7	CGR89-302	168020	340607	6399452	terebratulid(?), bivalve, crinoid fragments	possibly Triassic	1
8	DBR89-48	168026	348353	6400672	"Pecten" sp., spiriferid brachiopod	probably Late Triassic	3
9	DBR89-157	158938	349589	6389142	Monotis subcircularis Gabb	late Norian	3
9	DBR89-158	158939	349440	6389208	Myophorigonia sp.	Late Triassic, prob. l.Norian	3
9	DBR89-159	158940	349468	6389147	Monotis sp.	late Norian	3
10	DBR89-215	158941	349962	6403101	Perihalobia sp., Stikinoceras sp.	early Norian	3
11	DBR89-267-3	168046	353320	6379515	Monotis alaskana Smith	late Norian	3
12	DBR89-291	168045	355092	6378763	fragmentary spiriferid brachiopod, coral fragments	probably Late Triassic	3
13	DBR89-353	158944	336853	6395239	poorly preserved pectinids	indeterminate	3
14	DBR89-510	167907	345979	6399421	crushed serpenticone ammonite with simple ribs	Triassic or Jurassic	3
15	DBR89-527-2	167908	344216	6400424	fragments of spiferid brachiopods	prob. Triassic	3
15	DBR89-528	167909	344201	6400372	fragments of ammonoid; Griesbachites(?); indeter. bivalves	prob. Late Triassic	3
15	DBR89-528-2	167910	344201	6400372	ammonites: Griesbachites 2 spp.; Stikinoceras sp.	prob. early Norian	3
HAZELTON GROUP							
16	CGR89-250	168017	349990	6385659	belemnites, ammonite (Haugia sp. or Pleydellia?), bivalves	Early Jurassic, m.-l. Toarcian	1
17	CGR89-454	168023	347500	6389101	nothing determined	indeterminate	3
18	DBR89-327	158943	354706	6381236	frags. of Weyla, true belemnites(?), brachiopods, coleoids	Early Jurassic, poss. Toarcian	1
18	DBR89-423-1	168048	354726	6381282	Terebratulid brachiopods (lobothyris punctata subpunctata)	L. Jurassic, l. Pleins.-Toar.	6
18	DBR89-423-2	168048	354726	6381282	bivalves: Meleaginella sp. (?) and Pecten sp.	Late Triassic-Jurassic	1
18	DBR89-423-3	168049	354726	6381282	belemnites, bivalves, gastropod	Toarcian to late Early Cret.	1
18	DBR89-424	168050	354787	6381410	ammonite: flattened Hammitoceras sp.; bivalves	late(?) Toarcian	1
					CONODONTS		
STIKINE ASSEMBLAGE							
19	CGR89-391	168043	335917	6391964	barren	indeterminate	2
1	CGR89-398-2	167919	335482	6402326	barren	indeterminate	2
1	CGR89-398-3	167920	335482	6402326	barren	indeterminate	2
20	DBR89-228	158935	336721	6400940	barren	indeterminate	2
21	DBR89-239	158936	339524	6401229	submitted		
22	MGU89-29	158920	338434	6403213	submitted		
2	MGU89-63	158921	339186	6402477	submitted		
2	MGU89-64	158923	339087	6402542	conodonts	Asselian-Sakmarian, pre-Artin.	2
23	MGU89-79-2	158924	338431	6385488	submitted		
3	MGU89-140	158928	340524	6381697	barren	indeterminate	2
4	MGU89-142	158930	340555	6380961	submitted		
24	MGU89-201	158931	336440	6388157	barren	indeterminate	2
25	MGU89-207-1	158932	336698	6389294	submitted		
25	MGU89-207-2	158933	336698	6389294	submitted		
26	MGU89-300-1	158946	344000	6376764	raniforms	indeterminate	2
26	MGU89-300-2	158947	344000	6376764	barren	indeterminate	2
26	MGU89-300-3	158948	344000	6376764	barren	indeterminate	2
STUHINI GROUP							
5	CGR89-169	168003	351657	6389893	submitted		
5	CGR89-171	168004	351657	6389893	submitted		
5	CGR89-172	168005	351657	6389893	barren	indeterminate	2
27	CGR89-230	168006	356984	6381096	barren	indeterminate	2
27	CGR89-232	168007	357021	6381053	submitted		
6	CGR89-260-1	168008	345571	6400983	submitted		
6	CGR89-260-2	168009	345571	6400983	conodonts	late Carnian-early Norian	2
28	CGR89-261	168010	346037	6401176	submitted		
29	CGR89-272	168011	345688	6400236	submitted		
30	CGR89-275	NA	343164	6402043	submitted		
7	CGR89-302	158950	340607	6399452	barren	indeterminate	2
31	CGR89-303	158949	340341	6399465	barren	indeterminate	2
32	CGR89-308	168042	353543	6377410	barren	indeterminate	2
33	CGR89-451	168022	347639	6388801	conodonts	prob. mid.-late Norian	2
8	DBR89-49	158919	348274	6400792	submitted		
8	DBR89-51	158925	348323	6400898	barren	indeterminate	2
9	DBR89-156	158934	349338	6389208	barren	indeterminate	2
11	DBR89-267	167912	353320	6379515	conodonts	Norian, probably late Norian	2
12	DBR89-291	167911	355092	6378763	barren	indeterminate	2
34	DBR89-495-5	167914	349820	6400261	barren	indeterminate	2
35	DBR89-497	167917	351176	6401499	barren	indeterminate	
36	DBR89-498-3	168041	352240	6402171	barren	indeterminate	
15	DBR89-527	167915	344216	6400424	conodonts	late Carnian-early Norian	2
15	DBR89-528	167916	344201	6400372	conodonts	late Carnian-early Norian	2
HAZELTON GROUP							
9	DBR89-160	167913	349517	6389094	barren	indeterminate	2
37	DBR89-429	NA	354497	6381879	submitted		
					PALYNOMORPHS		
HAZELTON GROUP							
18	DBR89-424	167904	354787	6381410	barren	indeterminate	4
SUSTUT GROUP							
38	CGR89-68	167905	359040	6393772	barren	indeterminate	4
39	CGR89-128	167906	360116	6393971	barren	indeterminate	4
40	DBR89-268	167901	347336	6385398	barren	indeterminate	4
41	DBR89-275	167902	347282	6385285	barren	indeterminate	4
NA	DBR89-414	167903	370000	6384900	abundant bisaccate pollen (sample is east of map area)	early Paleocene	4
					RADIOLARIANS		
STIKINE ASSEMBLAGE							
42	CGR89-278	168012	343101	6402251	submitted		
43	CGR89-288	168013	344401	6402644	submitted		
STUHINI GROUP							
44	DBR89-247	158937	342741	6401677	submitted		

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