

Final Report - 104G/07W

Kiniskan Porphyry Copper Reece
1974

T.D. Pearse & G.R. Peatfield

November 1974

Texasgulf memo

Date 15 November 1974

To J.M. Newell Location Vancouver

From G.R. Peatfield Location Vancouver

Subject RE: KINISKAN PORPHYRY COPPER RECCE - 1974 (PROJ. 04)

Work by T. Pearse, R. Goldie and myself on this project falls into a few discrete and widely separated "mini-projects". I have decided to submit separate memoranda for most of these projects, in order that the units may be more readily fileable. Formal reports have been prepared for the Winter Creek prospect (proj. 08) and for the RAM Claims (proj. 20) by T. Pearse and R. Goldie, respectively.

Excluding the above mentioned localities work on project 04 was concentrated in three areas:

- 1) The Mess Lake area (104G/7W).
- 2) The southern portion of the Tanzilla Plateau, about 10 miles southwest of Gnat Lakes (104I/4W; 104J/1E).
- 3) Ehahceztle Mtn., north of Ealue Lake and east of Eddontenajon (104H/13W).

There is some residual interest in areas 1 and 3 above.

As you are aware, a combination of a very slow run-off and a shortage of manpower severely limited work on project 04. Despite these restrictions, one property (Winter Creek) was located and examined in some detail. A second property (RAM) was staked because of proximity to the RED option, and was also examined in detail. The Winter Creek situation showed some encouraging features, and further work on the ground must be contemplated.

Many of the objectives discussed with Dr. Mannard in the spring of 1974 were not achieved. Other projects can be proposed, on the basis of this summer's work on projects 04 and 92. The proposed programme (Kinaskan Porphyry Copper Reconnaissance 1975) should have as its primary objectives the following:

- 1) Map and sample, at a scale of 1" = 1/2 mile, the "RED Massif", from Todagain Creek to the Klappan River. This includes the RAM claims and the Red-Chris option, and extensions of the stain zone of interest in the Red area.
- 2) Map and sample the Ehahcezete Mtn. massif, north of Ealue Lake and east of Eddontenajon.
- 3) Map and sample, in a regional sense, the Klastline Plateau area, with emphasis on the areas of known showings. This work should include an in-depth examination of the "GJ" property on Groat Creek.
- 4) Complete the evaluation of the Mess Lake area, begun this year.
- 5) Prospect and sample the basin at the headwaters of Snowdrift Creek, northeast of Gnat Lakes.
- 6) Prospect, map and sample the Ball Creek-Hankin Peak area, along the trend of the stain zone which passes through the Great Plains Development property on Ball Creek.

To achieve the above objectives, and to fit the results of the evaluations into a regional framework, would require a helicopter supported programme involving a staff geologist and two 2-man mapping parties. The central location makes Kinaskan Lake a logical base.



G.R. Peatfield

GRP:11



Texasgulf memo

Date 25 November 1974
To J.M. Newell Location Vancouver
From G.R. Peatfield Location Vancouver
Subject RE: MESS LAKE AREA - 104G/7W

Pearse and Cooper spent a total of 15 days engaged in geological and geochemical work in the general Mess Lake area. Interest was sparked by Dr. Mannard's recollections of an interesting Cu showing near the ridge crest west of Mess Lake, and by the general proximity of Liard Copper's Schaft Creek deposit.

I have attached copies of Pearse's memoranda on this work, copies of geochemical sampling data sheets, and two sketch maps; all of which should be self-explanatory.

The area is still of interest. Adverse snow conditions and lack of crew later in the season precluded an accurate assessment of the massif west of Mess Lake. Mannard's showing was not relocated. The area east and southeast of the lake was found to be essentially devoid of interest. I recommend that at least two weeks detailed geology and geochemistry be undertaken on the massif west of the lake. Hecla Operating Co. have held and worked ground to both east and west, but the actual ridge has apparently not been staked.



G.R. Peatfield

GRP:11

Texasgulf memo

Date 3 June 1974

To G.R. Peatfield Location Vancouver

From T.D. Pearse Location Vancouver

Subject MESS LAKE RECCE - WEST 1/2

DURATION: 8 days - May 28th. to June 4th., 1974

SUMMARY: 6 field days were spent trying to locate Mannard's showing and several small showings were located, but it is unlikely that any of these are "the target". Three of these days were spent prospecting the higher elevations of the massif, but a large area is inaccessible due to snow cover and will have to wait several weeks before intensive checking of all accessible areas is possible. One narrow Cu-mineralized shear in limestone was discovered and examined approximately 500 feet below ridgetop. This was too small to be economically important.

Another two days were spent talus sampling north and south of camp to the limits of talus development. A cairn was erected (and labelled ML-1) in a scree slope of blocky, pink Qtz-monzonite directly behind camp and lines marked-off in 200 foot intervals were run north for 9000 feet and south for 9,800 feet. For all intents and purposes, these follow a topographic contour approximately 200 feet above valley bottom. Each sample represents a 1000 foot interval and was obtained by securing five rock chips every 100 feet (i.e. approximately 50 chips per sample). Samples ML-1 to ML-9 run north of camp to where talus development terminates; ML-10 to ML-19 run south of camp. Locations are shown on 1/2-mile scale map which I will keep till this job is over.

The last day was spent chasing down the source of a large Cu-stained boulder of monzonite found during talus sampling. This source was located in etc. and proved to be a mineralized and brecciated contact between the Q-monzonite and dykes of augite andesite porphyry. This contact was followed up dip for an exposed length of approximately 500 feet. Strike approximately 110° dipping 85° North. Mineralization consisted of disseminated blobs of Cpy in a silicified matrix within the contact zone or as disseminated specks within the monzonite over irregular zones up to 2 feet wide along the contact. This constitutes the best showing found to date, but is still too restricted to warrant additional attention. Other finds consisted of rare pieces of malachite-stained andesite float in the talus over the whole area --- nothing in any amount to warrant upslope prospecting.

CLAIM STATUS:

A post approximately 8,200 feet north of camp along the west shore of Mess Lake locating the MESS 84 to 88 M.C.'s (some witnessing which does not seem justified) was observed. These claims are apparently in good standing.

GEOLOGY:

The exposed geology is essentially a vertical section of an upper Tr., volcanogenic sequence of intermediate volcanic vx., siltstones, grits, and limestones, intruded from below by a coarse-grained, equigranular, pink, alaskitic qtz-monzonite. The volcanic vx. are aphanitic andesites, bladed feldspar porphyries, or augite porphyries interbedded with, or cross-cutting the sedimentary units. The volcanics are thickly-bedded, the sediments comprise beds upto several feet in thickness. Large pods and fragments of limestone are present in the massive andesite units. The qtz-monzonite stock visible at the base of this section is supposedly much younger. (J or K) than the overlying sedimentary sequence yet andesite porphyry dykes mineralogically and texturally indistinguishable (at least in hand specimen) from those of the upper Tr. series clearly intrude the monzonite in its upper limits.

Texasgulf memo

Date 12 June 1974
To G.R. Peatfield Location Vancouver
From T.D. Pearse Location Vancouver
Subject RE: MESS LAKE RECCE - EAST 1/2

DURATION: 7 days - June 4th. to June 10th., 1974

OBJECTIVES: To locate G. Mannard's showing and assess the general area for porphyry - Cu mineralization potential.

RESULTS: Two minor showings which are unlikely to be Mannard's were located. In addition, the area lying between Mess Lake and the Mess Creek Fault Zone have been eliminated as economically significant. The exposed face to the west of Mess Lake is still promising --- additional prospecting is planned for later in the summer when snow conditions allow easier and more complete access to the ridgetop.

GEOLOGICAL NOTES TO ACCOMPANY FIELD MAP: (TRAVERSES SHOWN IN GREEN)

AREA 1.

..... Lower most exposed beds are dark grey, aphanitic and siliceous siltstone. A nonconformity separates this unit from a sequence of porphyritic andesites --- some with bladed feldspar phenocrysts, others with short, tabular phenocrysts of augite. The volcanic beds are in the order of several feet thick each and strike 20° - 40° , dipping westerly into the hill. Interbeds and inclusions of grey, fossiliferous limestone are common; inclusions and fragments of siltstone are less so. Pyrite euhedra are commonly disseminated in the andesitic rocks. Phenocrysts in the feldspar porphyries are bleached on the surface. Abundant small-scale folding, thrusting, and carbonate flooding has occurred.

Reference:
Air photo
BC5157-167

AREA 2.

... Interbedded siltstones and grits predominate in the sequence --- andesites common as thick interbeds (sills?). Sediments thinly-bedded with blocky fracture.

- AREA 3. ... Massive dark-green andesites with localized (vesicular?) Ep and Cal alteration --- these are commonly pyritiferous and locally porphyritic with feldspar phenocrysts.
- AREA 4. ... Pink, coarse-grained equigranular granite with less than 5% mafic constituents.
- AREA 5. ... Light grey, crystalline limestone exhibiting intense fracturing and dyking by dark green, aphanitic volcanic rocks.
- AREA 6. ... Thinly-bedded, dark purple lithic tuffs with variable bedding but generally N 50° E. with vertical or near-vertical dips. Minor rock-types include amygdaloidal flows, agglomerates --- also massive, aphanitic intermediate volcanics near camp.
- Airphoto
BC5157-175
- AREA 7. ... Andesitic pillow lavas with silica-filled vugs common ... Some sections of intensively propylitized amygdaloidal lava.
- Airphoto
BC5157-164
- AREA 8. ... Clastic sequence comprising purple, fragmental tuffs and agglomerates with localized propylitization --- some k-feldspar porphyries and minor porphyritic, andesitic vx ... localized gossan development in small otc.'s of pyritiferous rhyolite.
- Airphoto
BC5157-164
- AREA 9. ... Thinly-bedded, purple, crystal tuffs of uniform texture over the distance shown.
- Airphoto BC5157-
165
- AREA 10. ... Massive, purple andesite. One thin intrusive dyke of pinkish-grey inequigranular monzonite below tree level. One wide dyke(?) of feldspar porphyry andesite. Also abundant, dark green conglomerate where shown.
- Airphoto
BC5157-177
- CLAIM STATUS: ... Most of the lower ground is covered by the MESS and BB claims of Hecla Mining --- only posts actually located on the ground are shown.

TDP:ll

GEOCHEMICAL DATA SHEET - ROCK CHIP SAMPLING

SAMPLER Pearse/CooperNTS 104 G/7wDATE June 1-3, 1974PROJECT 04 (Mess Lake talus samples)

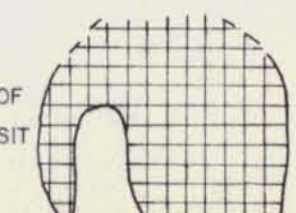
LINE _____

AIR PHOTO No. _____

SAMPLE No.	ROCK TYPE	LOCATION	DESCRIPTION				ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS										
			AGE	ALTERATION	FRESHNESS	VEINING MET. MIN.		Cu	Mo	Zn	Pb							
ML-1	Q-monz, 1st. and.	0-1000					M.L. 1-9 traverse north, 200' above lake level. (mag ² in 1st @ 1000')	22		76								
2	"	1000-2000						18		68								
3		2000-3000						19		75								
4		3000-4000						18		64								
5	Pred. Q-monz & andes.	4000-5000						old & newly developed talus.	51		72							
6		5000-6000							28		76							
7		6000-7000							10		60							
8		7000-8000							15		80							
9		8000-9000							20		72							
ML-10	siltstone & andes.	0-1000					ML. 10-19 traverse south.	36		119								
11	"	1000-2000						44		76								
12	"	2000-3000						45		82								
13	"	3000-4000						81		64								
14	"	4000-5000						40		88								
15	volc	5000-6000						36		86								
16	"	6000-7000						21		101								
17	"	7000-8000						22		92								
18	"	8000-9000						33		88								
ML-19	"	9000-9800					800' sample.	51		82								

SAMPLES	Cu ppm.	Zn ppm.
ML-1	22	46
ML-2	18	68
ML-3	19	75
ML-4	18	64
ML-5	51	72
ML-6	28	76
ML-7	10	60
ML-8	15	80
ML-9	20	72
ML-10	36	119
ML-11	44	76
ML-12	45	82
ML-13	81	64
ML-14	40	88
ML-15	36	86
ML-16	21	101
ML-17	22	92
ML-18	33	88
ML-19	51	82

APPROX. OUTLINE OF
SCHAFT CREEK DEPOSIT



- TRVERSE
- ⑤ AREA DESCRIBED IN MEMO.
- x-----x ML-3 ROCK-CHIP SAMPLE LOCATION
- K 3260 ○ 120/3 SILT SAMPLE ; NUMBER, Cu/Mo ppm.
- xxx cpy COPPER OCCURENCE

SCALE: ONE INCH = 1/2 MILE

TEXASGULF Inc.

SKETCH MAP - GEOLOGY & GEOCHEMISTRY
MESS LAKE AREA
104 G / 7 W

WORK BY	DRAWN BY	DATE
T.P. M.C.	K.M.G.	NOVEMBER, 1974

GEOCHEMICAL DATA SHEET — STREAM SILTS

SAMPLER PEARSE / COOPER

NTS 1046 T_w 10W

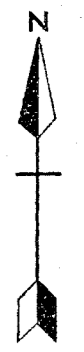
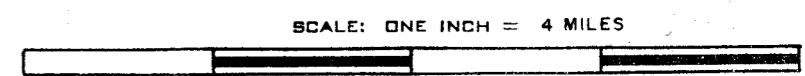
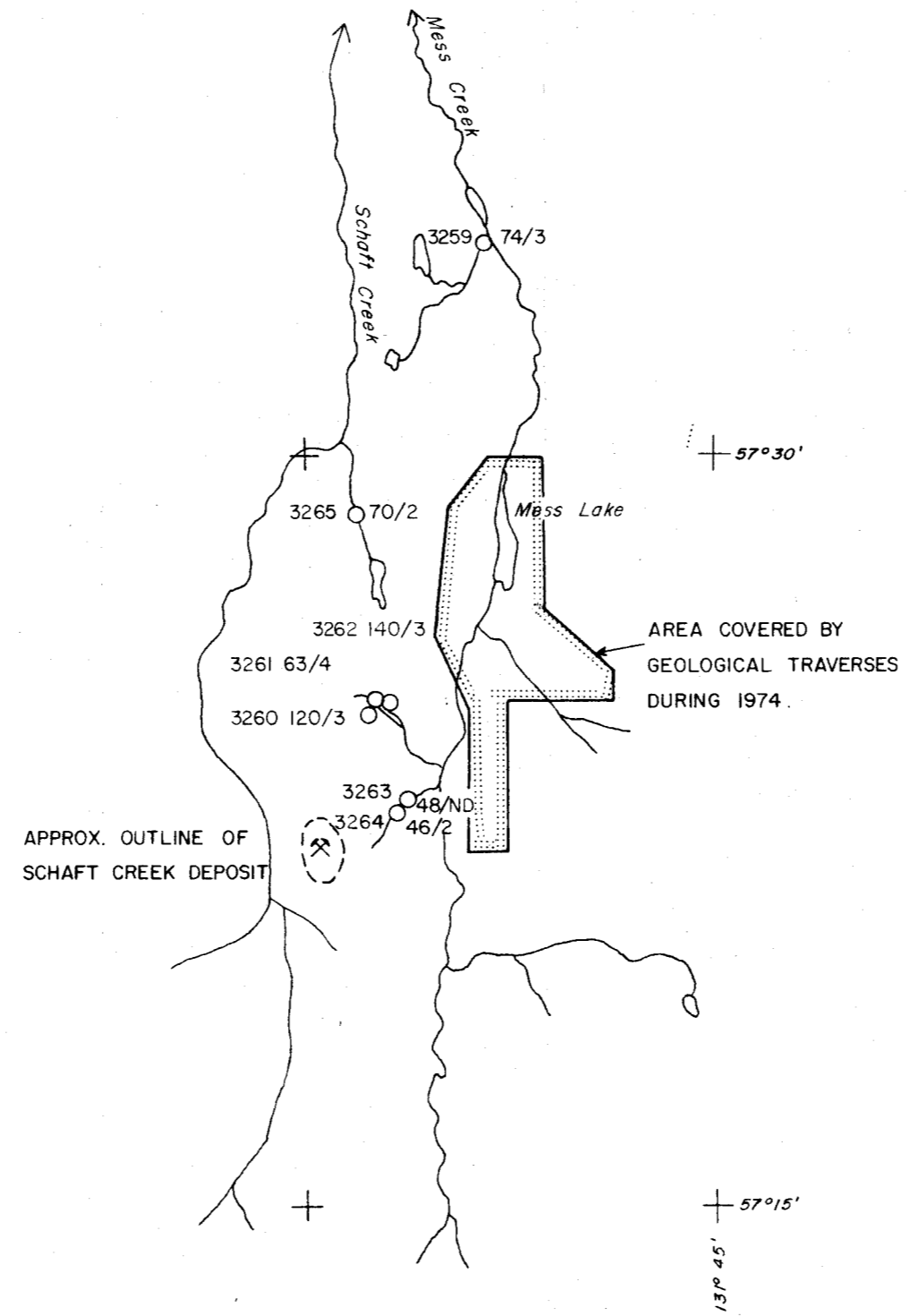
DATE JUNE 12 / 74

PROJECT KINASKAN RECCE (04)

CREEK MESS / SCHAFF

AIR PHOTO No. _____

SAMPLE No.	VOLUME		DRAIN-AGE	Ph	TYPE of SAMPLE	COLOUR	TEXTURE	% ORGANIC MATERIAL	PETROLOGY OF BEDROCK AND/OR FLOAT	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS						
	WIDTH	DEPTH									Cu	Mo	Zn	Pb			
K3259	6'	6"	F		Sand Gravel	m. br.		nil	acid int. : limestone	300' upstream from congl. w. Mess Ch.	74	3					
60	3'	3"	mod.		Sand Silt	lt. br.		"	Fe seds + volc.	trib. entering Start Lk. from west	120	3					
61	5'	6"	mod.		"	m. br.		low	"	main entrance channel	63	4					
62	1/2'	1"	S		Silt	red br.		"	"	small seep w. rusty ppt.	140	3					
63	3'	6"	mod.		"	m. br.		nil	" Fe volc.	from bar in middle of stream channel	48	ND					
64	3'	2"	S		ooze	red br.		?	"	swamp effluent	46	2					
K3265	15'	12"	S		sand	m. br.		low	u Fe seds + volc.	main stream channel	70	2					



LEGEND

3261 ○ 63/4 SILT SAMPLE LOCATION, WITH
SAMPLE # AND Cu/Mo VALUE
IN ppm.

TEXAS GULF, INC.

SKETCH MAP - SILT SAMPLING
MESS LAKE AREA
104 G/7W, 10W

WORK BY	DRAWN BY	DATE
T.P., M.C.	K.M.G.	NOVEMBER, 1974



Texasgulf memo

Date 22 June 1974

To G.R. Peatfield Location Vancouver

From T.D. Pearse Location Vancouver

Subject RE: GNAT LAKES PROJECT - 104I/4W, 104J/1E
AIRPHOTOS BC5382-016,057,089,090

OBJECT: Geologic assessment of western contact of the Hotailuh Batholith between Thenatlodi Mtn. on the north and the Stikine River on the south.

DURATION: 8 days, June 13-20 ... Pearse/Cooper.

SUMMARY: 16 man-days were spent prospecting the area and delimiting the contact zone between the favourable u. Tr. volcanic horizon and the intrusive rocks of the Hotailuh Batholith. Twenty-six silt samples were taken (locations shown on airphotos) as well as some soil samples in the vicinity of a small showing of bornite and chalcopyrite (cf. photo 089). Results from the geochem. are pending: results from the mapping indicate a five mile swing westward of the western edge of the Hotailuh Batholith as shown on the four mile scale geologic map. No showings of any significance were found. Any further work in the general area should be confined to the contact zones and the volcanic sequences to the west.

GEOLOGIC UNITS: 5 rock types were distinguished in the area - however, outcrop was too sparse to define the limits and contact relationships of these.

1. Aap. - augite andesite porphyry of u Tr. age ... ubiquitously propylitized, locally serpentized; matrix aphanite, augite phenocrysts up to several mm. in length.
2. Feldspar porphyry - small amounts of dark grey volcanic rock with white fspar phenocrysts approximately 1 mm. in length were observed over the entire area --- these probably exist as dykes into the u. Tr. volcanic series.

Texasgulf memo

Date 25 November 1974
To J.M. Newell Location Vancouver
From G.R. Peatfield Location Vancouver
Subject RE: TANZILLA PLATEAU AREA - 104I/4W, 104J/1E

Pearse and Cooper spent a total of eight days engaged in geological and geochemical work in a portion of the Tanzilla Plateau centered approximately 10 miles southwest of Gnat Lakes. The area is underlain principally by granitic rocks of the Hotailuh Batholith, intrusive into upper Triassic andesitic volcanic rocks.

I have attached copies of geochemical sampling data sheets, a copy of Pearse's memo to me on his work, and two sketch maps which should all be self-explanatory.

This particular area has little residual interest. The results of regional silt sampling, and of limited soil sampling near a very small cpy.-bn. showing in Hotailuh granitic rocks, were disappointing. I cannot recommend further work in this area.



G.R. Peatfield

GRP:ll

Attachments

GEOLOGIC NOTES ON AREAS NUMBERED ON PHOTOS

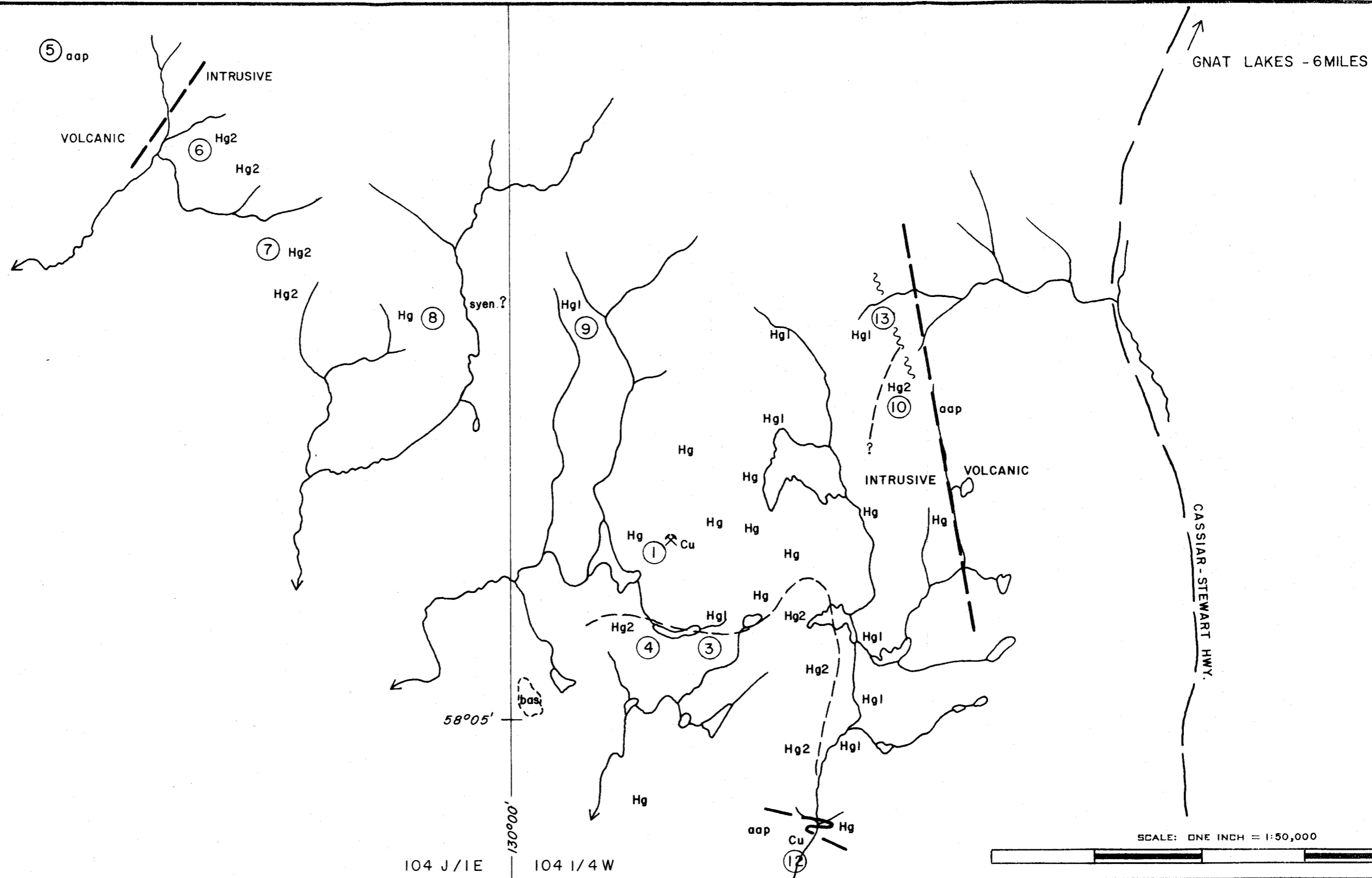
- AREA 1. Apparent contact between HG₁ and HG₂ --- contact sheared; HG₂ foliated near contact zone. Rare Cu-mineralization as Cpy, Bn.
- AREA 3. Fine-grained, more mafic HG₁ --- some chloritization and pink Kspar altera.
- AREA 4. Typical HG₂: med. gr; equigranular Hornblende-monzonite: some local biotitization of HG: generally fresh and unaltered.
- AREA 5. Foliated HG₂; decrease in grainsize: also aaP exhibiting propylitization and serpentinization --- structural relationship to HG unknown dyke?
- AREA 6. Foliated HG₂, more felsic with higher concentration of Qtz. (approx. 5%), Kspar's bleached and Fe-stained; increased fabric homogeneity.
- AREA 7. Med-coarse-grained HG₂; decrease in % Hb (approx. 10%).
- AREA 8. Med-grained pink syenite; minor Qtz and mafic minerals.
- AREA 9. Propylitized aaP and fgr. foliated HG, aaP as dyke?
- AREA 10. Med-grained, foliated, biotitized HG₂.
- AREA 12. Contact zone between volcanics and Hornblende monzonite: some fspar porphyry. Cpy in stringers and along fracture surfaces; some pink Kspar ... contact sheared.
- AREA 13. Foliated HG, with common Ep-veining; some rare pyrite; sheared and serpentinized, probable contact zone with volcanics.

3. HG₁- Hotailuh Granitoid vx. of early (?) intrusive phases --- foliated hornblende monzonites and diorites; f. to med-grained equigranular, biotitized hb; Qtz. essentially absent.
4. HG₂ - Hotailuh hornblende-monzonites of probable late-phase intrusion --- more felsic and less altered than HG₁; both foliated and non-foliated; generally very fresh-appearing.
5. Olivine basalt - olivine basalt porphyry of Tertiary age --- erosional remnant cap overlying HG to SW of camp ... well-developed columnar jointing.

OTHER WORK IN THE AREA

Silting of most ephemeral streams in the vicinity has been carried out in recent years. One camp several years old was located on the large lake approximately one mile southwest of our camp. No staking was observed.

TDP:11



LEGEND

- ⑤ AREA DESCRIBED IN NOTES
- VOLCANIC - INTRUSIVE CONTACT
- - - ASSUMED CONTACT, Hg1 - Hg2
- ⚡ SMALL cpy-bn SHOWING

- Hg1 - EARLY PHASE HOTAILUH HORNBLLENDE MONZONITE TO DIORITE
- Hg2 - LATE PHASE HOTAILUH HORNBLLENDE MONZONITE
- Hg - UNDIFFERENTIATED HOTAILUH GRANITIC ROCKS
- aap - u.R. AUGITE ANDESITE PORPHYRY
- bas. - TERTIARY OLIVINE BASALT

TEXAS GULF, INC.

GEOLOGY
TANZILLA PLATEAU

104 1/4 W; 104 J/1E

WORK BY	DRAWN BY	DATE
T.P., M.C.	K.M. GORRIE	NOVEMBER, 1974

GEOCHEMICAL DATA SHEET— STREAM SILTS

SAMPLER Pearse/Cooper

NTS 104 I/4W

DATE June 14, 1974

PROJECT 04

CREEK _____

AIR PHOTO No. BC 5382-016, 057

SAMPLE No.	VOLUME		DRAIN-AGE	Ph	TYPE of SAMPLE	COLOUR	TEXTURE	% ORGANIC MATERIAL	PETROLOGY OF BEDROCK AND/OR FLOAT	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS							
	WIDTH	DEPTH									Cu	Mo	Zn	Pb				
										BC 582-057								
K 3266	1'	12"	mod.		sand & grav.	red brn.		low.	Hb. dior	drains @ 230°	64	-						
3267	1'	3'	slow		silt, mud	dk. brn.		mod.-l.	"	" SW, old flag (03449)	84	-						
3268	1'	4"	"		silt	"		mod.	"	" S.	40	-						
3269	1/2'	4"	"		silt, mud	"		lgh	"	not. necess. water transported.	54	-						
3270	1'	6"	mod.		sand	(m. brn.)		low.	"		41	-						
3271	1/2'	8"	trickle		silt	(l. brn.)		mod.	?	seasonal runoff deposit.	75	-						
3277	1'	12"	slow		sand	red brn.		mod.-l.	monz.?	drains S.	16	-						
3501	1/2'	6"	trickle		sand, silt	brn.		"	monz. - m. dior.	small creek, s. side of swamp.	64	-						
K 3128	1'	12"	slow		sand, silt	"		lgh	"	main creek draining swamp @ slowing.	112	-						
										BC-5382-016								
K 3272	2'	12"	mod.		sand & grav.	red. brn.		low	monz.?	running through swamp.	36	-						
3273	1'	4"	trickle		silt & sand	dk. brn.		mod.-l.	"	drains S.	33	-						
3274	3'	12"	slow		"	m. brn.		mod.	"	" W.	40	-						
3275	1'	4"	"		silt	"		"	"	" S.	67	-						
3276	2'	6"	mod.		silt & sand.	"		low.	"	" S.	22	-						

GEOCHEMICAL DATA SHEET — SOIL SAMPLING

SAMPLER Pearse/Cooper

NTS 104 I / 4 W

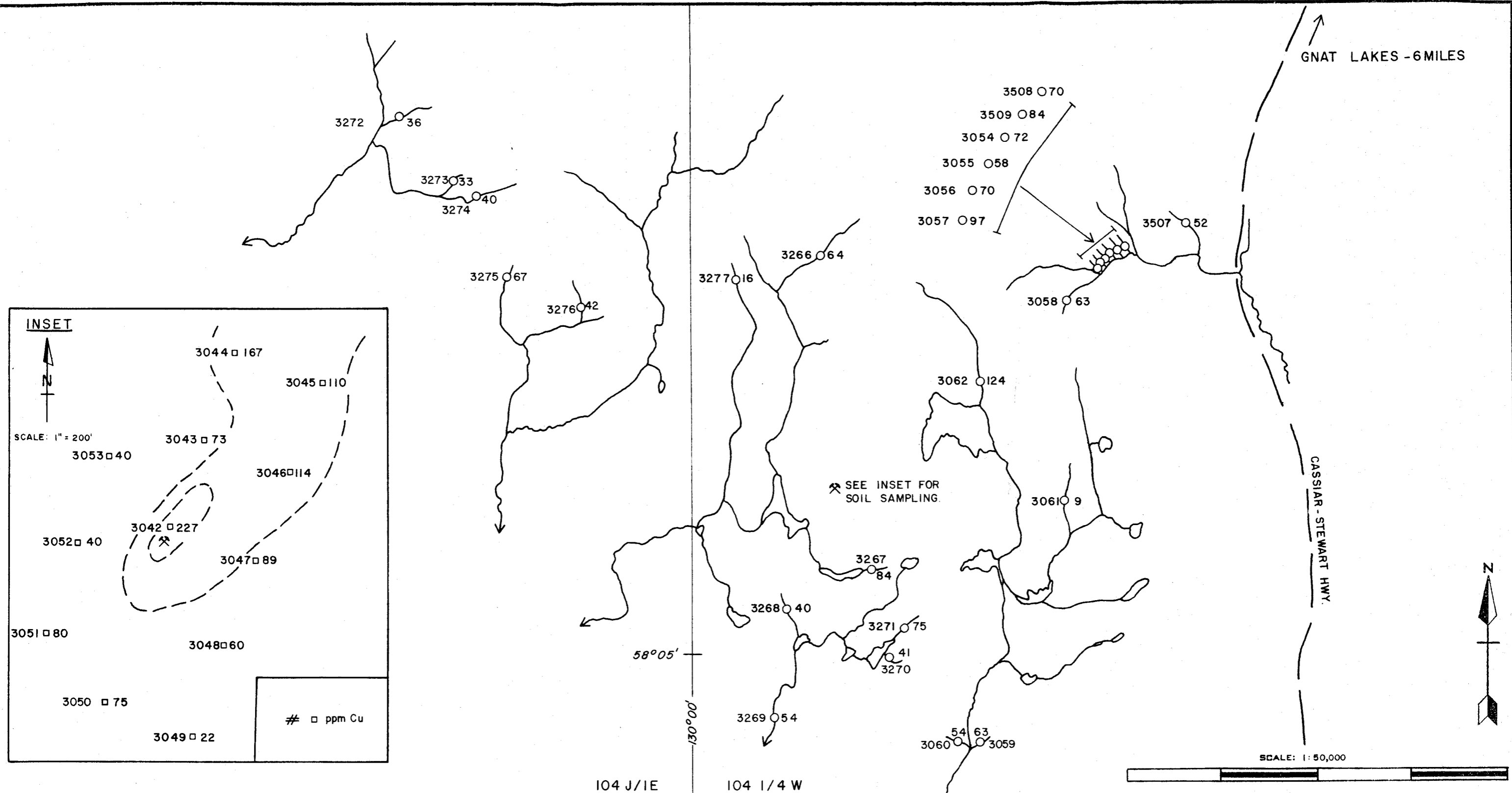
DATE June 17, 1974

PROJECT _____

LINE _____

AIR PHOTO No. BC 5382-056

SAMPLE No.	LOCATION	DEPTH	HORIZ.	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS					
				COLOUR	PART. SIZE	% ORG.	transport.				Cu	Mo	Zn	Pb		
K 3042	see sketch	3"	B	red brn.	silt-clay	low-mod	Trans	gentle	grass	overlying bedrock, weak spg-brn. mat	227	-				
3043		4"	B	"	"	"	"	"	grass & willow	" dioritic b.r.	73	-				
3044		4"	B	m. brn.	clay	low	"?	"	"	" " "	167	-				
3045		6"	B	gray brn.	"	"	"	"	moss & willow	near base of overturned tree, lead swamp.	110	-				
3046		4"	A	blk-brn.	"	v. light	Res.	flat	grass & moss	in swamp - wet sample	114	-				
3047		6"	B	brn.	clay-silt	light	Trans	gentle	"	" " - " "	89	-				
3048		3"	B	"	"	mod.	"	"	moss & spruce	frost @ 4"	60	-				
3049		2"	A-B	"	"	"	"	"	"	" " "	22	-				
3050		6"	B	lt. brn.	silt-clay	low-mod	"	"	"		75	-				
3051		4"	B	"	"	mod.	"	"	grass & moss		80	-				
3052		8"	B	m. brn.	"	low	"?	"	"		40	-				
K 3053		6"	B	lt. brn.	"	"	"?	"	"	dioritic b.r.	40	-				



LEGEND

3269 54 SILT SAMPLE NUMBER AND VALUE IN ppm. Cu.

TEXAS GULF, INC.

GEOCHEMISTRY
TANZILLA PLATEAU

104 1/4 W , 104 J/IE

WORK BY	DRAWN BY	DATE
T.P., M.C.	K.M. GORRIE	NOVEMBER, 1974



5

Texasgulf memo

Date 25 November 1974
To J.M. Newell Location Vancouver
From G.R. Peatfield Location Vancouver
Subject RE: YUKONADIAN PROPERTY - EALUE LAKE - 104H/13W

The stained massif north of Ealue Lake is the location of a 25 claim property owned, as of early 1974, by Yukonadian Mineral Explorations Ltd. Work in this area was first reported in 1931, when high-grade copper occurrences associated with dolomitic limestone were found in open-cuts and a short adit on the "Klapan-Rose" prospect. In the late 1960's, Yukonadian acquired the property, and some surface exploration was undertaken. In 1970, Granduc Mines Ltd. completed a limited programme of mapping and geochemistry (Ostensoe & Palmer, 1971).

During June and July of 1974, the general area was visited both by T. Pearse and myself, and several soil samples were taken. The results from these samples were moderately encouraging, and in view of developments on the RED property, about 6 miles to the south, I considered it appropriate to consolidate all available data in one memorandum.

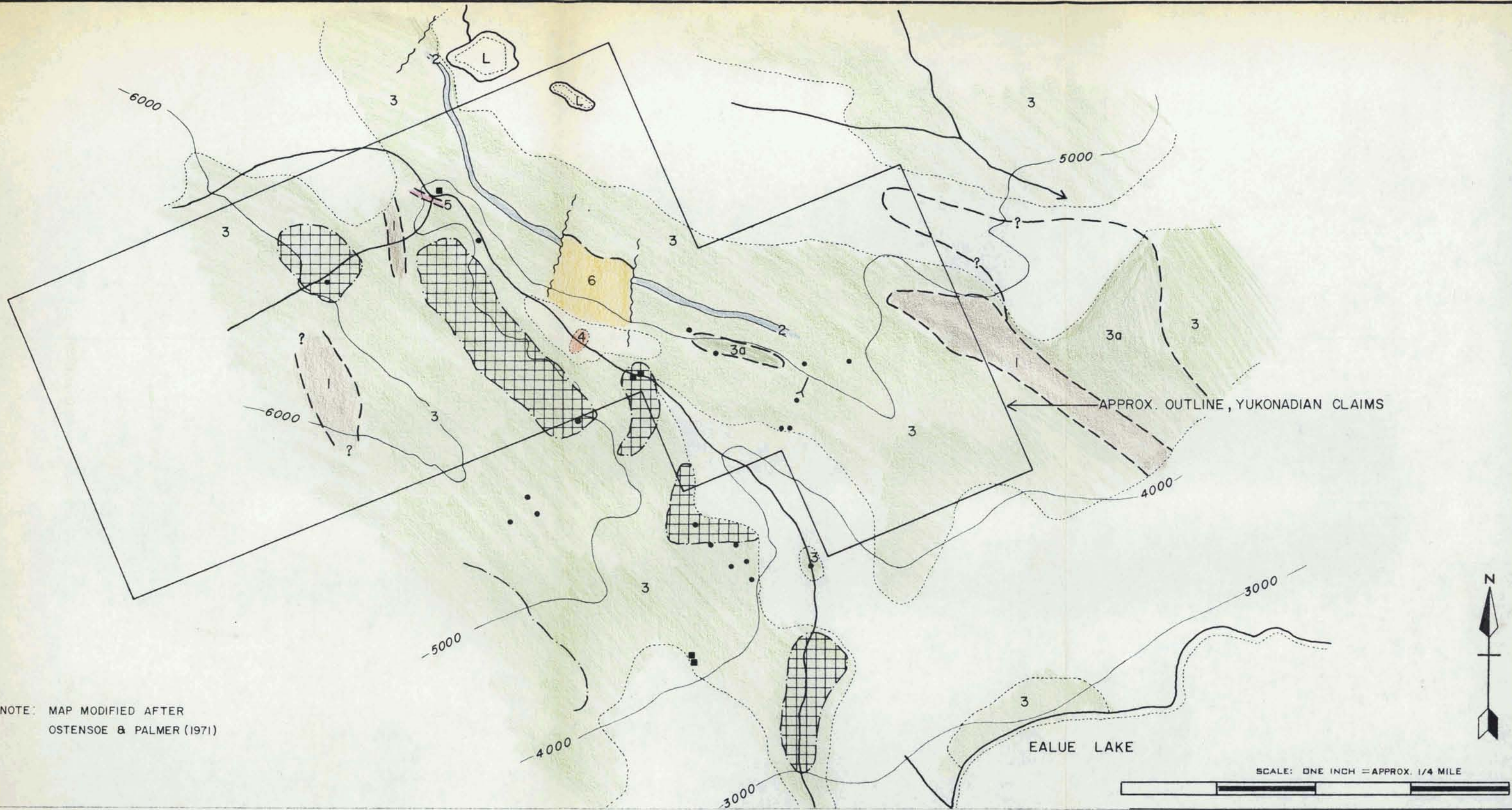
I have produced two sketch maps, based on the Granduc work, at a scale of approx. 1" = 1/4 mile. Both sketches are, I believe, self-explanatory. I have also attached a copy of the geochemical sampling data sheet.

The situation warrants further investigation. As part of the continuing Stikine area porphyry reconnaissance programme, I would recommend about one week of careful geological mapping and soil sampling, on and adjacent to the Yukonadian ground.

GRP:11


G.R. Peatfield

Ostensoe, E.A. and Palmer, K.O. 1971. Report of Geological and Geochemical Work Performed on the MFJ Group of Mineral Claims, Yukonadian Mineral Explorations Ltd.: Dept. of Mines & Petroleum Resources Assessment Report 3128.



NOTE: MAP MODIFIED AFTER
OSTENSOE & PALMER (1971)

LEGEND

- | | | |
|---------------------------------|------------------------------|------------------------------------|
| 1 COARSE CONGLOMERATE | 4 REDDISH SYENITE | ● Cu OCCURRENCE - GRANDUC (1970) |
| 2 MASSIVE LIMESTONE | 5 COARSE QUARTZ DIORITE | ■ Cu OCCURRENCE - TEXASGULF (1974) |
| 3 PORPHYRITIC ANDESITE, TUFF. | 6 COARSE DACITE (INTRUSIVE?) | --- OUTLINE OF OUTCROP AREA |
| 3a FRAGMENTAL ANDESITE, BRECCIA | ○ GOSSAN AREA, PYRITE | ~~~~~ GEOLOGICAL CONTACT |

SCALE: ONE INCH = APPROX. 1/4 MILE

TEXASGULF INC.		
GEOLOGY YUKONADIAN CLAIMS-EALUE LAKE 104 H/13 W		
WORK BY	DRAWN BY	DATE
G.R.P., T.P.	K.M. GORRIE	NOVEMBER, 1974

GEOCHEMICAL DATA SHEET — SOIL SAMPLING

SAMPLER G.R.P.

NTS 104H/13W

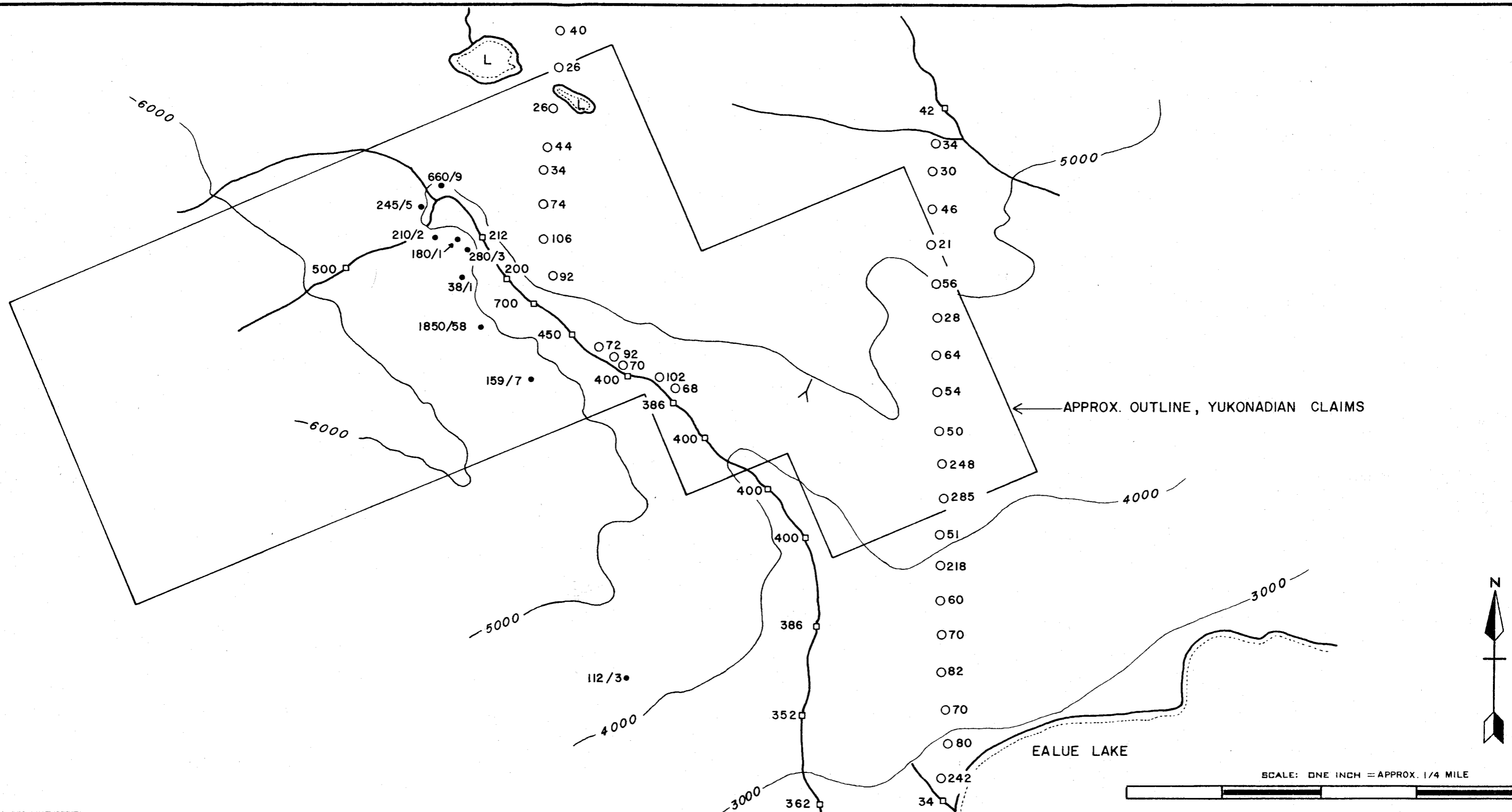
DATE 10 July 1974

PROJECT 04

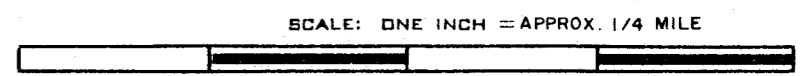
LINE _____

AIR PHOTO No. BC 5382-100

SAMPLE No.	LOCATION	DEPTH	HORIZ.	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS ppm.					
				COLOUR	PART. SIZE	% ORG.	Ph				Cu	Mo	Zn	Pb		
K3536		6"	C	red-purp	m-c.	—		steep	none	talus below % skarny volc. sedts.	660	9				
3537		6"	C	dk. brn	f-m.	—		"	"	volcanics	245	5				
3538		8"	C	grey	m-c.	—		"	"	"	210	2				
3539		6"	C	grey	f-m.	5%?		"	grass	dark green volcanics	180	1				
3540		4"	C	red-brn	f-m.	—		"	none	gossan, bleached andesite	280	3				
3541		4"	?	grey	f.	high		"	grass	very poor sample	38	1				
3542		3"	C?	red-purp	f-m.	—		"	none	v. weak stain in andesite.	1850	58				
3543		4"	C	grey-brn	f.m.	—		mod.	grass	" " " " "	159	7				
3506		?	?	?	?	?		steep	?	Pearse - sample on main stain	112	3				



- LEGEND**
- GRANDUC SILT SAMPLE (1970) Cu (ppm)
 - GRANDUC SOIL SAMPLE (1970) Cu (ppm)
 - TEXASGULF SOIL SAMPLE (1974) Cu/Mo (ppm)



TEXASGULF INC.		
GEOCHEMISTRY		
YUKONADIAN CLAIMS-EALUE LAKE		
104 H/13 W		
WORK BY	DRAWN BY	DATE
G.R.P., T.P.	K.M. GORRIE	NOVEMBER, 1974