

January 24th, 1974.

The Parties, LUC Syndicate.

Gentlemen:

During the last year of its General Program, LUC Syndicate worked mainly in the Babine Lake area. In addition, some work was undertaken in the area north of Takla Lake.

Work in the Babine Lake area was partly reconnaissance and partly follow-up work on claim groups staked in 1972. Out of this a minor drill program has been proposed for the HOL group in which all Parties have expressed their intention to participate. So far, efforts to farm out the FORT and CHEK groups have not been successful and this is partly because of the general malaise and uncertainty presently prevailing in the exploration industry in British Columbia.

The work north of Takla Lake, carried out by an excellent crew, resulted in the staking of the LION group which covers a number of copper showings found in a predominantly volcanic terrain.

During the latter part of 1973, reports on the HOL, LION and FORT groups were distributed to the Parties as follows:

- HOL (1) Geological, Geochemical, Geophysical Report on the HOL Group - dated July 20, 1973.
 - (2) Revised Geological, Geochemical, Geophysical Report on the HOL Group - dated November 20, 1973.
- LION (1) Geological, Geochemical, Geophysical Report on the LION I & II Claim Groups - dated November 30, 1973.

- FORT (1) Geological and Geochemical Report on the FORT 1 and 2 Groups - dated September 21, 1973.
 - (2) Geophysical Report on the FORT 1 and 2 Groups dated November 28, 1973.

In addition to the above reports, LUC has received two reports from Dome Mines Limited as a result of their own investigations on the BURN group, Kwanika Creek. Dome has proposed for 1974 a follow-up program on BURN, to include drilling. Convest has declined to participate. Brascan has requested that their company be permitted time to make their own examination this summer, prior to committing or not to the Dome program - which is tentatively scheduled for August, 1974.

The Doma reports on BURN are as follows:

- Bruce, G.S.W. and Halladey, L.B. "Examination Report, Specific Project BURN, Kwanika Creek Area, B.C.", dated July 26, 1973.
- (2) Webber, G.R., "LUC Syndicate, BURN Project, Geochemical Sampling", dated August, 1973.

A Register of Claims is included with this report. With respect to the COL group, under option to Granby, that company has recorded 3 years assessment work on all 25 claims and has paid the required rentals, one year for each years work. It should be noted that, although work is now recorded until 1977 and 1978, the rentals are only prepaid for the years 1974, 1975 and 1976. Granby must decide on December 31, 1975, whether to exercise the option or not.

With regard to rentals on mining property, this came into effect on January 1, 1974, and, as far as ordinary located claims

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are concerned, the yearly rental amounts to \$10 per claim, payable by the anniversary date each year. Obviously these rentals now represent a continuing LUC responsibility which was not budgeted for.

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Financial Reports for the General Program and Specific Project BURN are submitted herein. In this regard, it was necessary to transfer the remainder (\$8,186.63) in the BURN Account to the General Account and close out the former. This was considered preferable to requesting an additional small amount from all Parties for the General Program. Incidentally, the small total expenditure (\$2,052.36) for BURN involved a camp clean-up.

With regard to the Lennac Lake project, the Amax report was received, complete with recommendations for a further program in 1974. The report plus our comments was mailed to the Parties on January 23, 1974. Brascan has expressed their intention to participate in the 1974 program, even though an Operating Agreement has yet to be worked out and ratified. So far, we have SOBC's version of an acceptable agreement with which AMAX presumably concurs - and to which CONWEST objects in certain areas. DOME has been awaiting the AMAX report before expressing comment on its further intentions.

As LUC Syndicate ceased to function on December 31, 1973, the inventory of equipment deserves mention. This is minimal, particularly after the sale of 2 Land Rovers six years old. The only other item of major consequence is radio equipment and this will probably be sold to a new syndicate, along with miscellaneous used camp equipment. The 1973 General Program Report has been prepared by Mr. J.C. Stephen in his usual efficient manner. It does not include projects covered in the separate reports mentioned above.

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Respectfully submitted, EACON AND CROWHURST

Non

W.R. Bacon, Manager - LUC Syndicate

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IV CHEK Claim Group Silt Samples

In envelope at back of this report

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LUC SYNDICATE FINANCIAL REPORT FOURTH QUARTER - 1973 GENERAL PROGRAM

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	Period	
Account	Oct. 1 - Dec. 31	l <u>Totals 1973</u>
Petty Cash	(\$324,43)	\$324.43 Cr.
Accounts Receivable	(152,01)	
Machinery & Equipment		4,936.28
Automotive Equipment	1.00	1,199,00 Cr.
Furchases - Food	152.35	8,511,17
Purchases - Maps, Photos, Publications, etc.		761.04
Assessment Recording	545.00	1,376.00 -
Claim Recording	22200	1,073.00
Assays		283.00
Sub-Contracts	81.00	
		17,009.11-
Geochemical	95.04	6,733.02-
Holiday Pay	124.55	1,026.35
Workmen's Compensation	849.94	1,535.36
Unemployment Insurance	22.01	445.10
Pension Expense	27.45	541.92
Tools & Supplies	(94,17)	3,873.87
Blueprinting, Drafting & Supplies	110,82	331.35
Rent (warehouse)		285.00
Equipment Rental	•	27.00
Aircreft Rental	(714,17)	30,190,12 -
Truck Rental	(15.49)	1,203.22
Repairs - Equipment	-	279.52
Vehicle Operating Costs	600.07	3,020,70 -
Travel Expense	1,375.19	5,173,94
Salaries	4,525,00	45,574,81
Office Expense	1,500,00	6,000.00-
Telephone, Fostage, Express, Cartage, etc.	331.16	1,096.74
Insurance	(143.00)	1,277.25
Management Fee	4,500.00	18,000.00
Licenses & Dues	5	265.00
Interest, Bank Charges & Accounting	2.80	135.35
Misc. Expenses	309.65	801.23
Lennac Lake Account	20,017,07	32,104.58
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TOTAL EXPENDITURES	\$33,765.44	\$192,347.60
PLUS BANK BALANCE DEC. 31, 1973		936.34
LESS BANK BALANCE DEC. 31, 1972		2,097.31
TOTAL CONTRIBUTIONS		\$191,186.63 *
* General Program	- \$150,000.00	
Lennac Lake Project Transferred from "Specific Project Burn" Ad	- 33,000.00 act <u>8,186,63</u>	
	\$101,186,63	

\$191,186.63

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SPECIFI PROJECT BURN

Account	Jan, 1 - Dec. 31/73	Totals 1972 & 1973
Machiney & Equipment		\$1,512,84
Mobilistion		3,825.00
Purchass - Sundry (culverts, etc.)	-	1,152.48
Purchass - Food	405	1,036.77
Assessmt Recording	65	3,852.00
Assays		1,891.00
Sub-Cotracting	1,690.00	90,066.96
Casual abour		116.64
Holida Pay		279.23
Workme's Compensation	85	271.29
Unemplosent Insurance	50	45.30
CanadaPension Expense		120.96
Tools Supplies		1,588,61
Bluepmting, Drafting & Supplies	-	33,88
Equipent Rental	69	228,12
Aircret Rental	260.00	5, 570, 56
Truck ental	102.36	1,426.94
Vehicl Operating Expense	49	248.37
TraveExpense	*	2,742.08
Salaria	a	7,442.22
Telepine, Postage, Cartage, Express, etc.	-	1,679.12
Insursee	50	38.00
Interst, Bank Charges & Accounting		52,00
Misc.Expenses	6ja esisteki ilakuinervalatuksi rasulatuksi	
TOTALEXPENDITIRES	\$2,052.36	\$125,313.37
TRANSERRED TO LUC SYNDICATE 'GINERAL ACCOUNT'		8,186.63
BANK BALANCE - December 31, 1973		NIL
LESS ROAD ALLOWANCE		13,500,00
TOTAL CONTRIBUTIONS - 1972		\$120,000.00

REGISTER OF CLAIMS

Group	Claim Name	Record Numbers	Record Date	Expi	ry Date
COL	COL 1-9	101240-248	July 12/71	July	12/75
101225	11-13	101250-252	11		19
	15-21	101254-260	19	Terbar	12/74
			5.8	Jury	10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	51-56	101272-277			
BURN #1	BURN 1-6	102002-007	Aug. 11/71	Ano.	11/85
NUM OFFICIAL DE OFF	14	102015	11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19
	16	102017	11		12
			12		12
	32	102032	11	2	11/75 ×
	32	102033		Aug.	ac on the second
	43-46	102976-979	Sep. 2/71	Sep.	2/85
	48	102981	51		69
	1, 50	102983	11		68
expires	10 73 (57-66	102990~999	5.0		59
expiles	67	103000	11	Sep.	2/75 ×
	68	103001	11	Sep.	2/85
	69, 70	103002,-003	2.0	Sep.	and the second second
	71-80	104725-734	Sep. 30/71		30/75 ×
		and the second second second			
BURN #2	BURN 7-13	102008-014	Aug. 11/71	Aug.	11/85
	15	102016	10		22
	17, 18	102018,-019	# 1	Alara.	11/75 ×
	19-26	102020-027	48		11/85
	27=30	102028-031	15		11/75×
	33~36	102034-037	11		11/75×
		102038	89		11/85
	37		80		
	38	102039	41		11/75 ×
	39-42	102040-043			11/85
	47	102980	Sep. 2/71	Sep.	
	49	102982	99	Sep.	
	51-54	102984-987	0.0		έ.ê
	55	102938	44	Sep.	2/75 ×
	56	102989	5.5	Sep.	2/85
2.0117		LOCEDS LOL LOC	15.1. 10.200.0	22.4	49 249 2
RODE	RODE 1-14, 16,	106591-604,-606	Feb. 7/72	260.	7/74
	25-32, 34, 3				199
		-626	Feb. 7/72		28
	38, 40, 41	106628,-630,-631	65		13
7 735	TTN 1-4	112285-290	June 9/72	June	9/75
LIN	LIN 1-6				
	1 Fr., 3 Fr		June 23/72		23/74
	40	113048	July 7/72		7/74
	50-53	111623-626	June 5/72	JUNE	5/74
	60	111631	\$T		55
	62~66	111633-637	89		88
	72	111643	20		28

BACON & CROWHURST LTD.

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Group		Clair	a Name	Record Numbers	Reco	rd Date	Expl	cy Date	
HOI.		HOL	1-8	112560-567	June	30/72	June	30/76	
			9-16	114590-597	Aug.	17/72	Aug.	17/74	
			17-24	114598-605		84	Aug.	17/76	
			25-32	125872-879	June	12/73	June	12/76	
			33-38	126112-117	June	29/73	June	29/74	
ROJO		ROJO	1-12	115376-387	Aug.	29/72	Aug.	29/74	
			13-24	115667-678	Sep.	6/72	Sep.	6/74	
FORT	1	FORT	1-6	115563-568	Aug.	29/72	Aug.	29/75	
			7-26	115601-620	Sep.	6/72	Sep.	6/75	
FORT	2	FORT	27-44	115621-638		98	Sep.	6/74	
CHEK		CHEK	1-32	126208-222	July	13/73	July	13/74	
				126222A					
				126223-238					
			34-36	127775-777	Aug.	29/73	Aug.	29/74	
LION		LION	1-10	126515-524	July	23/73	July	23/762	
			11-14	126525-528		11		23/75	
			15-20	127110-115	July	31/73		31/75	
			21-24	127116-119		4.8		31/74 /	
			25-28	127120-123		**		31/75	
			29-38	127124-133		58		31/76	
			39-42	127134-137		23	July	31/75	
			43-50	127138-145		÷8	July	31/74 -	
			51-54	127146-149		*4	July	31/75	
			55-59	127150-154		55	July	31/76	
			60-62	127155-157		9.6	July	31/75	
			63, 64	127158,-159		11	July	31/74 -	
			65-74	127160-169		¥2	July	31/75	
			75-84	127100-109	Aug.	29/73	Aug.	29/75	
KITI		KITI	1-18	127255-272	July	6/73	July	6/74	
BREE		BREE	1-24	125884-907	June	27/73	June	27/74	

CENERAL PROGRAM REPORT

INTRODUCTION

Figure I is an index map showing the location of areas that received attention during 1973.

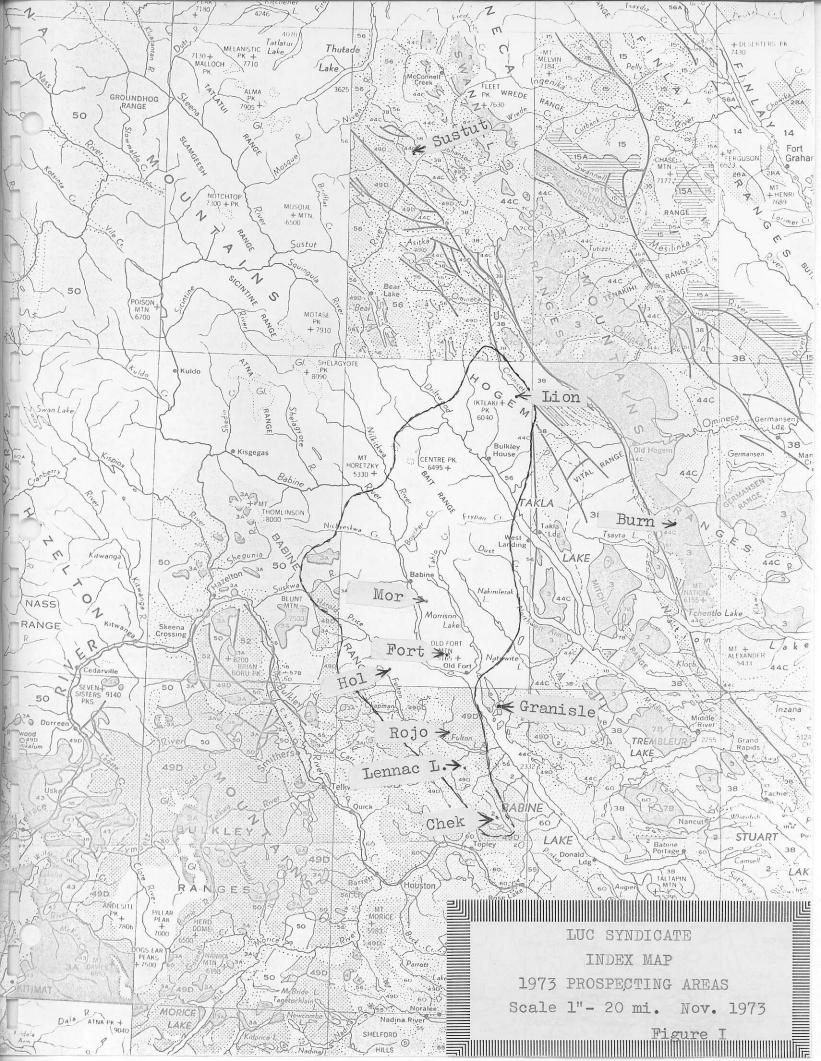
Exploration was confined to the Babine-Takla Lakes area in search of both porphyry copper type deposits and stratabound deposits.

One new discovery (LION) was made during the season which warrants further investigation.

Exploration was conducted on four claim groups staked in 1972 and further work is proposed on one (HOL) of these.

A G3B-1 helicopter on contract from Northern Mountain Helicopters was used throughout the season.

Results of the general exploration program are summarized in this report.



TOPLEY AREA Maps 93L/9E

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CHEK CLAIM GROUP

A program of detailed silt sampling was commenced northeast of Topley in the vicinity of the TAC claims staked in 1972. Geological mapping was to have been conducted with this program but limited outcrop and personnel problems combined to require termination of the work.

Plate I shows silt sample results at a scale of 1" = 660'. Three anomalous areas are indicated.

A Zone

This zone exhibits values up to 660 ppm Cu, 4000 ppm Zn, 1050 ppm Pb and 3.0 ppm Ag, in an area approximately 5000' by 2000'.

The zone appears to terminate at the volcanic contact to the east. Scattered outcrops show northeast and northwest trending porphyritic dykes containing pink feldspar and hornblende phenocrysts. These dykes cut coarse grained Topley granite which appears unaltered and unmineralized.

No mineralized zones were found.

B Zone

A single creek is anomalous for zinc, silver and lead for a distance of about 3000 feet. The zone lies along the assumed Topley granite - volcanic contact but no outcrops are known.

C Zone

Silt samples along two creeks are anomalous for zinc in an area about 3000' by 1000'. Limited outcrops reveal unaltered Topley granite. No mineralization was observed. Limited soil sampling has been conducted over the southern portion of the CHEK claims with relatively poor results. Soils are generally dry, sandy and gravelly glacial till and it is doubtful that significant anomalies could be outlined.

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In the region 4 miles to the west, several old goldsilver prospects occur as veins in volcanic formations. These are typified by the Topley Richfield property where values in gold, silver, lead, zinc and copper occur. It is presumed the anomalies on the CHEK group are caused by similar structures.

FULTON LAKE AREA Maps 93L/9W, 16W

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ROJO GROUP

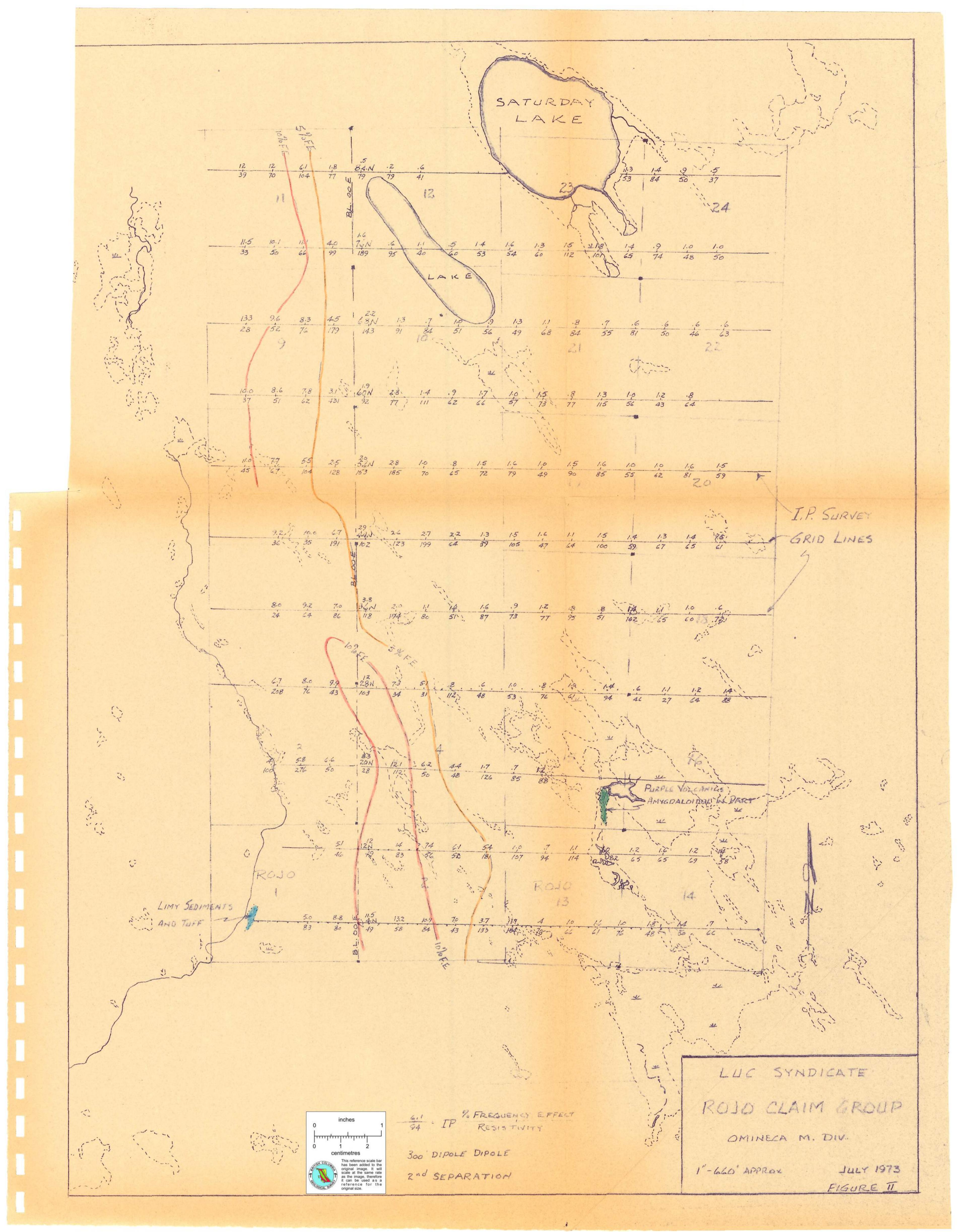
Isolated silt samples anomalous for copper or molybdenum, together with the presence of an aeromagnetic anomaly led to staking the ROJD group in 1972.

Drilling by Amoco in the area north of ROJO encountered altered volcanics cut by biotite feldspar porphyry sills. Considerable pyrite and minor copper mineralization was found in the volcanics and, in one case, in the BFP.

A linecutting-IP program was conducted on the ROJO group. Figure II indicates location of the IP anomalies encountered. These anomalies are interpreted to be caused by graphitic sediments similar to outcrops on the Amoco ground to the north and drilled by Cities Service on strike some miles to the south.

The IP work was filed as assessment work pending developments in the area. Since that time, Amoco has done more drilling and we understand they have had negative results.

No further work is recommended.



TURKEY MOUNTAIN AREA Maps 931/16W, M1/W

BREN GROUP

Prospecting was conducted on the north and east flanks of Turkey Mountain which consists mainly of extrusive flows thought to be related to the Granisle type biotite feldspar porphyry.

Minor chalcopyrite was found in fractures in argillitic sediments close to biotite feldspar dykes. This area was staked as the BREE group.

Soil sampling was conducted along claim lines, all streams were silt-sampled and the geology was mapped on a reconnaissance basis. No further mineralization was found and other results were negative.

No work is planned.

CHAPMAN LAKE AREA Maps 931/15E, M/2E

General silt-sampling and prospecting was conducted early in the season along roads and logging areas between Chapman Lake and Smithers Landing.

A small amount of chalcopyrite mineralization occurs in volcanics in the southeast portion of map 93M/2E.

Nothing of significance was located.

HOLLAND LAKE AREA Maps 93M/2E & W

In addition to the work on the HOL group, general prospecting was conducted around the perimeter of the quarts monzonite intrusive to the immediate north. Rechecking was done on and around the TOR group staked in 1972 (now lapsed). To the west of HOL, an apparently barren monzonite intrusive was mapped and prospected.

Considerable staking, linecutting and 1P work was done by Evergreen Exploration in the flat area west of HOL group.

NETALZUL MOUNTAIN AREA 93M/2W, 7W

Detailed prospecting was conducted to the southeast and east of Netalzul Mountain where several intrusive bodies were located.

Quartz feldspar porphyry intrusives in the north part of 93M/2W have some weak copper mineralization and, on the south side of the ridge, sufficient pyrite to produce interesting gossan areas. Some chalcopyrite was also found in sediments.

Results of this work were generally poor with weak geochemical response and meagre scattered showings.

To the north on 93M/7W, prospecting around a small mongonitic intrusive produced no encouragement.

The area around Netalzul Mountain was covered in a recommaissance manner. Considerable prospecting has been done by a number of companies over many years. Small gold and silver showings are known, associated with quartz veins, and some chalcopyrite, molybdenite and pyrite mineralization was seen in the main 'granodiorite' intrusive.

Topography is extremely rugged with extensive outcrop and no mineral, alteration or gossan zone was seen of sufficient size to warrant detail work.

MT, THOEN AREA 93M/6E

Reconnaissance prospecting was done over part of Mt. Thoen which is extremely rugged with extensive outcrop.

Some of the copper showings previously staked by Mastodon-Highland Bell were looked at. Several rusty zones, mainly along contact areas, were examined. Nothing was found to warrant detailed work.

In the vicinity of the peak of Mt. Thoen, some claims are presently in good standing. Cobra Exploration drilled two or three short holes on the spine of a steep ridge. Copper and molybdenum mineralization occur on fractures in a biotite feldspar quartz porphyry. Extent of the favourable rock is unknown. Topography is precipitous at the showing - a helicopter being able to land only after tent and drill ware torn down.

FRENCH PEAK AREA 93M/74

Showings of copper, silver, lead and hematite occur on French Peak. An attempt was made to map and prospect the area in general and investigate some of the extensive gossan areas in particular. Work was hampered by the poor air photos available.

Geology is complex and the work generally very discouraging. Several of the gossans are due primarily to pyrite but no gold, silver or copper mineralization was found in association. The two most interesting areas are held by Canadian Superior and Silver Standard. OLD FORT AREA 93M/1W, 2E, 7E

Prospecting was conducted north of Old Fort Mountain to (1) examine the west portion of a quartz diorite intrusive west of Morrison Lake

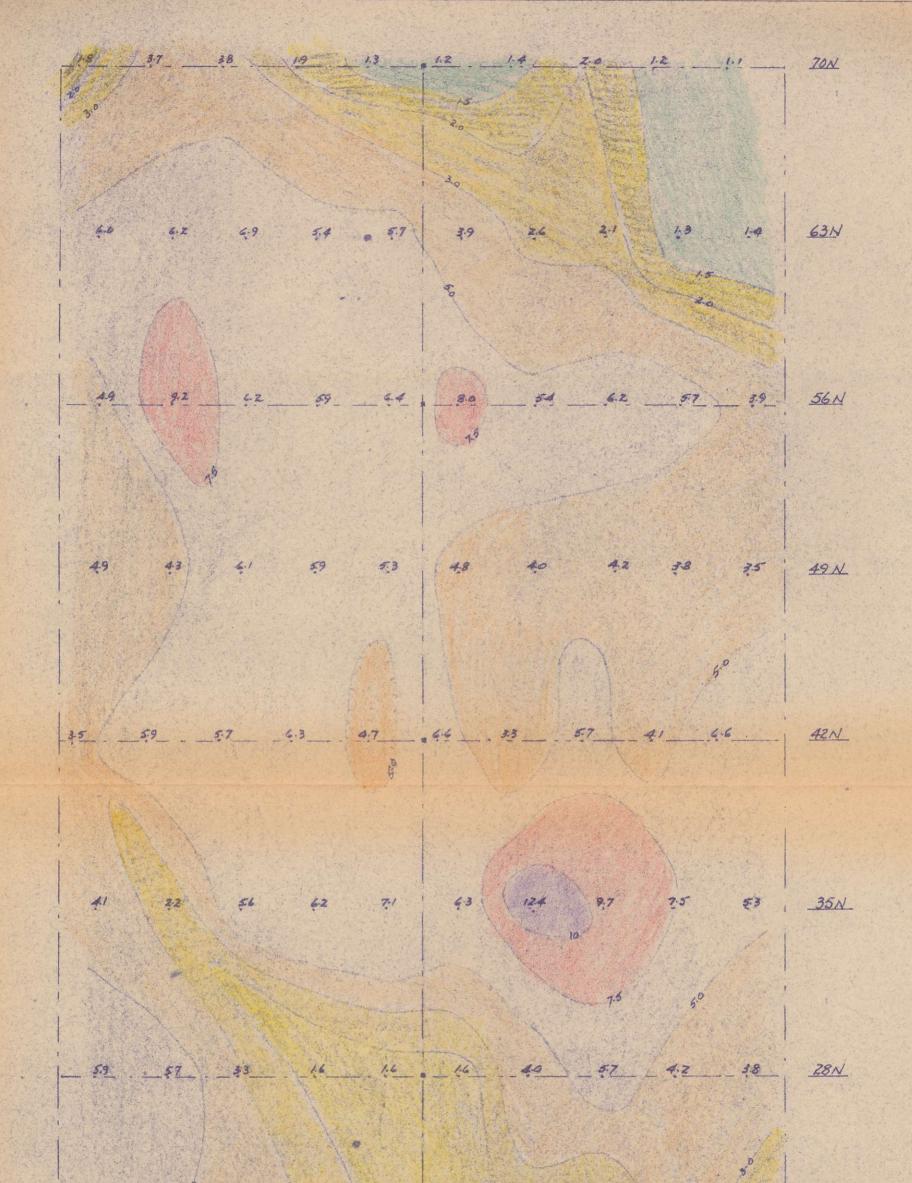
(2) recheck scattered geochemical results located in 1972. Nothing of real interest was found.

MOR GROUP (Figures III, IV, V)

A program of linecutting, mapping and IF was carried out on the MOR group to fully investigate the claims which had been staked during 1972. Previous indications had not been particularly favourable but the claim group had subsequently been surrounded by Cities Service claims.

Results of the 1973 program were not encouraging and the claims have been allowed to lapse. Results on the Cities Service ground appear to be similar.

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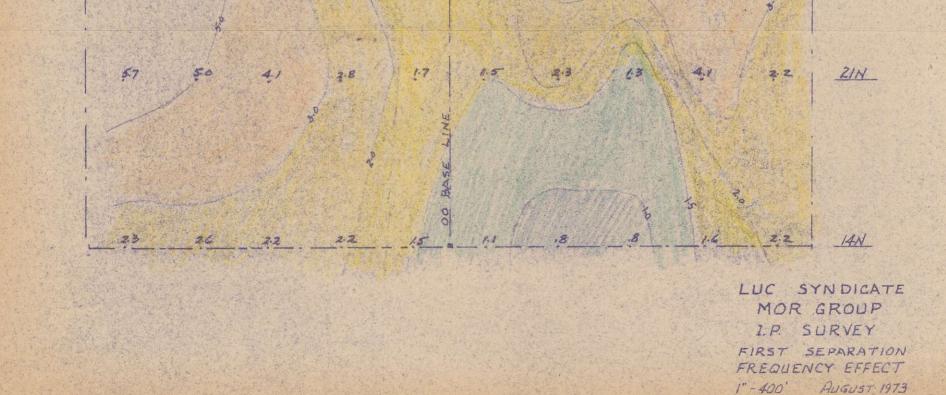
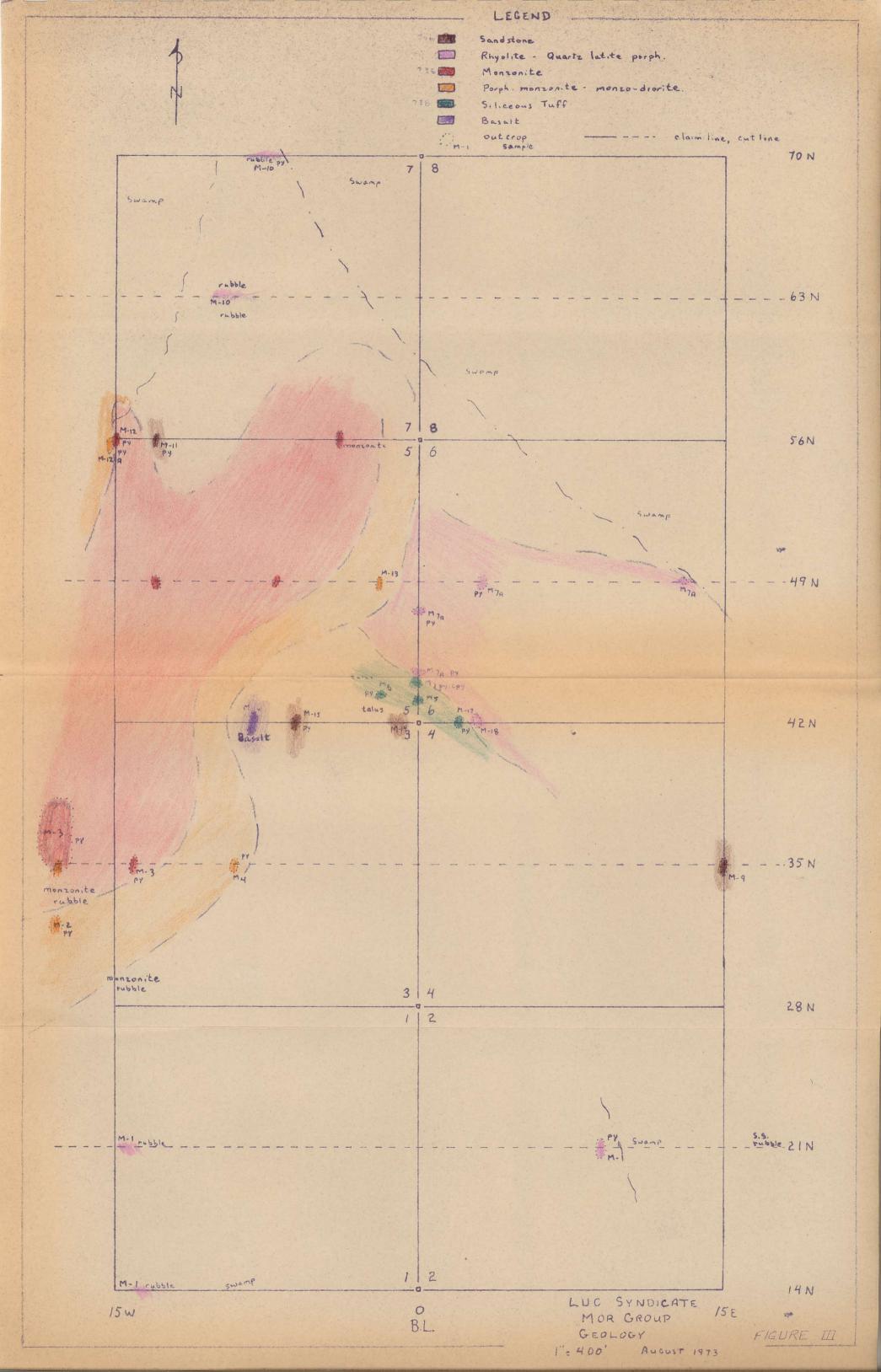


FIGURE IV



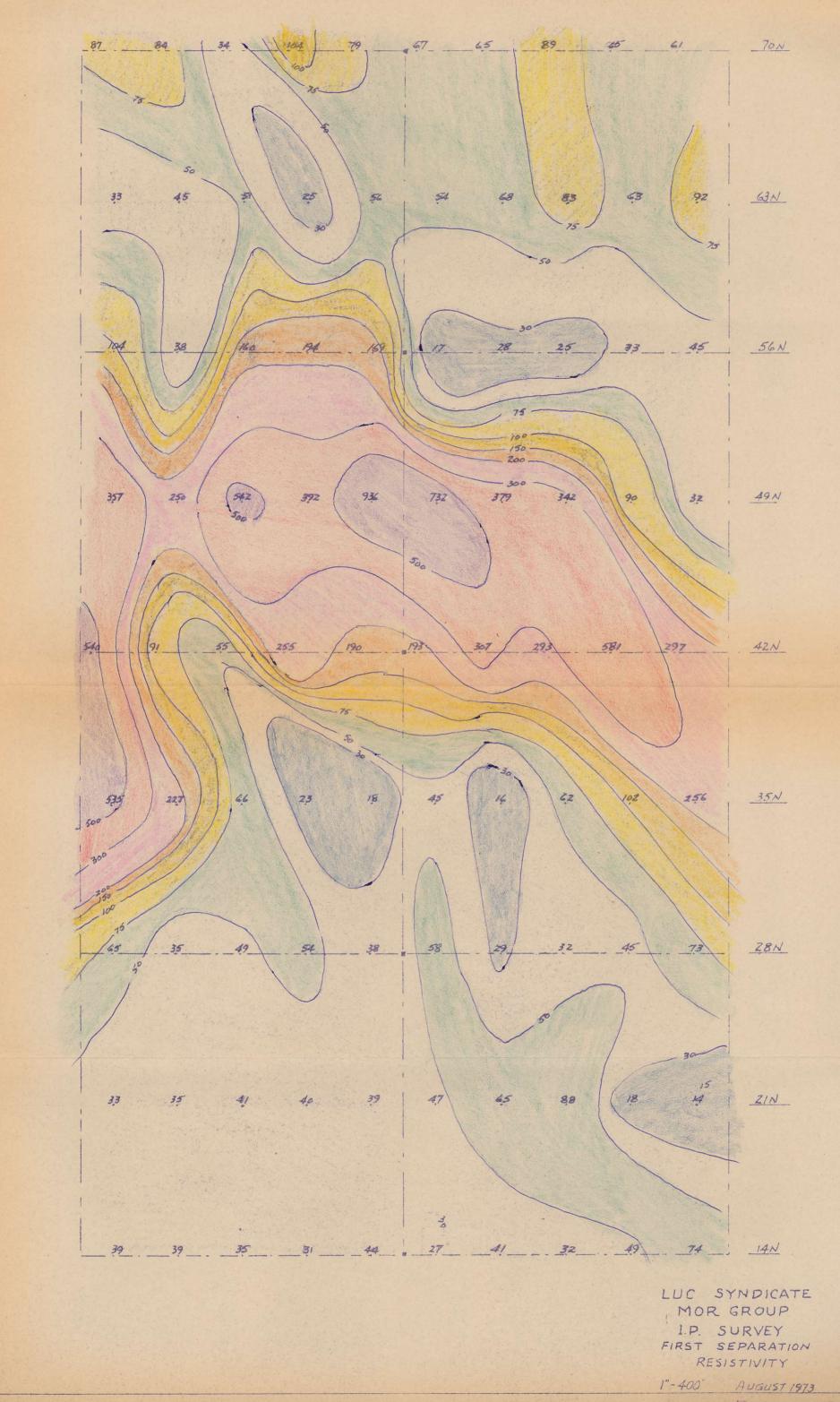


FIGURE V

HAUTETE CREEK AREA 93M/1E, 8E

Three prospecting camps were occupied in this general area to explore:

(1) dioritic intrusions,

(2) reports of float in Hautete valley,

(3) the vicinity of DA-NAK and DOROTHY copper deposits.

The area is difficult to explore. Several varieties of intrusive were found but no mineralization was present.

Alteration, fracturing and pyrite mineralization were found north of the DOROTHY deposit. This area was staked as the KITI group but preliminary investigation was not encouraging and no further work is planned. The alteration is assumed to be peripheral to the DOROTHY and DA-NAK zones. TRAIL PEAK AREA 93M/8W, 9W

Preliminary helicopter reconnaissance northwest of Trail Peak disclosed two areas of porphyritic intrusives. A camp was established in the plateau area generally heavily covered with overburden. Prospecting discovered an area of altered sediments and pyrite mineralization but silt and soil sampling showed no significant trace of copper or molybdenum mineralization. BABINE RIVER AREA 93M/7W, 10W

Prospecting disclosed one monzonitic intrusive intruding a volcanic complex in an area of interesting aeromagnetic anomalies.

Relatively flat-lying Cretaceous sediments occupy the flat, low surrounding area.

No significant indications of mineralization were found.

ANKWILL CREEK AREA 93M/94, 10E

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Two types of deposit were targets in this general area. (1) To the west of the headwaters of Ankwill Creek, an extensive outcrop area of biotite feldspar porphyry exhibits a rather spectacular gossan. This gossan is caused by pyrite mineralization and fairly intense hydrothermal alteration. No economic mineralization was found.

Variations in the composition and grain size of this porphyry suggest it may be a rather large sill-like structure.

(2) The biotite feldspar porphyry area appears to be truncated to the northeast by a major fault separating it from a region of Jurassic volcanics which contain numerous small spotty copper occurrences.

These volcanics consist mainly of tuffs, agglomerates and thin flows of intermediate composition. North of Ankwill Creek, bedding is well defined and some beds consist largely of epidote.

South of Ankwill Creek, bedding is perhaps less well developed and it was in this area most of the copper occurrences were found.

Mineralization consists of chalcocite, bornite and chalcopyrite in flow tops or in fracture zones with considerable epidote and minor quartz. None of the zones were of economic size.

The type of mineralization and host rocks are very similar to those in the Sustut Feak area.

To the northeast of the volcanics is a sequence of siltstones which may be separated from the volcanics by a fault.

A single dioritic intrusive was located cutting these sediments. No indications of mineralization were found.

MT. BATES AREA 93M/16E

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Very limited prospecting in this area in 1971 located minor copper mineralization in siltstones, conglomerates and epidoterich fracture zones.

A prospecting program this season covered most of this map sheet in some detail. Copper mineralization was found as numerous very small occurrences of chalcocite and bornite in conglomerate and siltstone.

Copper and pyrite mineralization in fractured volcanics over rather extensive areas was staked as the LION group. This claim group is described in a separate report, "Geological, Geochemical and Geophysical Report on the LION I and II Claim Groups".

GENERAL CONCLUSIONS

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The results of prospecting and mapping in the Babine-Takla Lakes area are shown on 1" = 1 mile map sheets, Plates II, III and IV.

The biotite feldspar porphyries of about 50-55 m.y. age, which host the GRANISLE, BELL COPPER, MORRISON, DA-NAK and DOROTHY mineral deposits, appear to be confined to a region trending northwest from the Granisle-Fulton Lake area as indicated on Figure VI.

Within this region, a sequence of intrusives includes diorite, monzonite, hornblende-feldspar porphyry, biotite feldspar porphyry and rhyolite.

Partially surrounding the BFP region, there appears to be a belt of quartz biotite feldspar porphyry of which the Lennac Lake and French Peak intrusives are examples.

Lennac Lake porphyry has been dated at 77 m.y. (K-Ar).

This quartz-rich older belt is represented on the northeast mainly by an intrusive northwest of Trail Fk. It may be that the zone is less well developed or it may be truncated by major faulting.

Limits of the quartz-rich belt to the southwest are strongly influenced simply by the limits of our own prospecting; the belt may be wider and is probably much more extensive to the northwest.

Economic copper mineralization has been proven only in the BFP. The QBFP at Lennac Lake, and on Cobra prospect, so far exhibit the best copper mineralization known in that rock type.

Mineralized zones in the BFF exhibit fairly extensive halos of pyrite but are not generally exposed topographically so as to be obvious. Pyrite zones in the QBFP are apparently much more extensive but, in some cases, apparently do not carry significant copper or molybdenum mineralization.

The HOL group is located on the borders of the BFP region. It covers a quartz-monzonite intrusive which has a phase very similar to the host BFP at Granisle. It is cut by dykes of dark BFP very similar to dykes on the FORT group, and it is in contact with a quartz feldspar porphyry on the west side which is probably part of the QBFP belt. Based on our knowledge thus far, the location is unique in having a strong IP anomaly, a geochemical anomaly and minor occurrences of molybdenum and chalcopyrite with what is, for this area, relatively scarce pyrite mineralization.

As a matter of interest, the distance between Granisle and Bell Copper is about five miles. The Morrison, DA-NAK and Dorothy deposits are within a diameter of eight miles. The major deposits in the Highland Valley all fall within a diameter of six miles.

Northeast of the region of feldspar porphyries, copper mineralization is related mainly to fracture zones in volcanics. Minor mineralization has been found in beds of conglomerate, siltstone and tuff.

The most interesting mineralization has been found in formations apparently ranging from Triassic to Middle Jurassic age. The Syndicate has not found significant mineralization associated with any of the extensive Cretaceous formations.

Several small dioritic intrusives are known in the region but little or no mineralization has been found in them.

