GEOCHEMICAL REPORT

CHALCO CLAIM GROUP

located

50° 120° S.W.

Nicola Mining Division

by

M. A. Kaufman, Geologist Perry, Knox, Kaufman, Inc.

92 I / 2W

Compilation and Summary: September 15, 1972 Period of Fieldwork: May 13-15 and June 23, 1972

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Department of Mines and Pointheam Resources ASSECTION REPORT	
No. 3889	-

m.G.K.

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INTRODUCTION

The Chalco claim group (Record numbers 50974-51013 and 56328-56331) consists of 44 claims (Chalco #1 through 44) staked by John M. McAndrew in December 1971, and by Perry, Knox, Kaufman, Inc. in June 1972, and recorded in the Nicola Mining Division on December 7, 1971 and July 10, 1972. It covers ground formerly covered in part by the Sid claim group. The Chalco claim group was under option to Perry, Knox, Kaufman, Inc. of Spokane, Washington at the time the assessment work was performed.

The center of the claim group is approximately 2¹/₂ miles south of the Craigmont Mine on the lower slopes of Promontory Hills and about 2¹/₂ miles northwest of Lower Nicola.

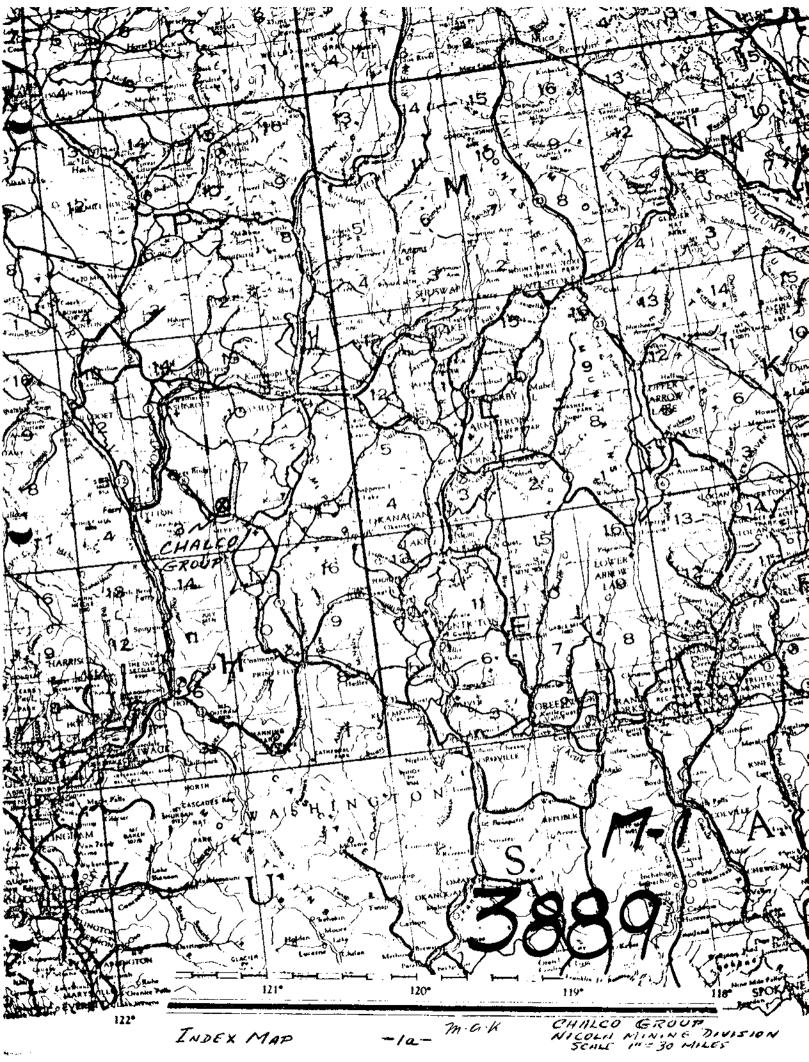
The claim group is easily accessible from Highway 8 by a wellmaintained gravel road leading to the Promontory Hills lookout which traverses the property. The claims are situated on gentle easterly and southerly facing slopes at elevations ranging from 2300 to 3500 feet. Vegetation consists of light stands of timber and open fields and meadows.

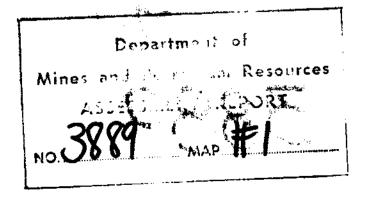
Perry, Knox, Kaufman, Inc. conducted a limited geochemical survey on two portions of the claim block in May and June 1972. Parts of the areas sampled had previously been shown to contain anomalous copper values as a result of a sampling program conducted by London Pride Silver Mines in 1969. An effort was made to verify and to extend the anomalies onto other untested, geologically favorable ground. Because it had been previously demonstrated that anomalous mercury values occurred in the soils above the Craigmont orebody and reportedly would have indicated the presence of this deposit prior to its discovery, it was also felt that soil samples taken in the vicinity of the anomalies on the Chalco claims should be analyzed for mercury.

FIELDWORK

Field work on the Chalco claim group was undertaken by E. H. Hager and W. Tisdall during the period May 13 through May 15, 1972, and by J. A. Knox on June 23, 1972. The work was supervised by M. A. Kaufman, geologist and partner in the mineral exploration firm of Perry, Knox, Kaufman, Inc.

A survey grid previously established by London Pride Silver Mines in 1969 was found to be well marked and adequate for much of the soil sampling undertaken. This grid consisted of crosslines run north-south with compass and tape from an east-west base line situated in the middle of the Chalco claim block. The crosslines were positioned at intervals of 400 feet along the base line. Stations were marked at 100 foot intervals along the crosslines with pickets on which station numbers were written. Where ground was sampled that was not covered by the original grid, the existing lines were extended with compass and tape and marked with flagging on which was written the station number.





Soil samples were taken in general at 100 to 200 foot station intervals depending upon the purpose of the sampling; where an anomaly had previously been defined, sampling was done on 100 foot spacings, while in untested areas, sampling was at 200 foot intervals. The samples were taken with a soil auger, h feet long and $\frac{1}{2}$ inches in diameter. The B soil horizon was sampled in most instances, generally at a depth of approximately 2 feet; in one area, however, characterized by a meadow traversed by a braided stream system (lines 9200 and 9600W), it proved impossible to obtain a sample uncontaminated by organic material. Pertinent data regarding the samples were recorded at the time of collection. High wet strength Kraft envelopes, h inches x 6 inches, were used to collect the samples. The samples were then sent to a custom laboratory (Rocky Mountain Geochemical Corp.) for copper analysis using the following procedure:

1. Geochem samples are dried at 80°C. and the total -80 mesh fraction is passed through a stainless steel and nylon sieve.

2. A 0.50 gram portion of -80 mesh material is weighed into a calibrated test tube.

3. The sample is digested in a hot HClO₁ -HNO₃ acid mixture for two to three hours. This exidation step with a final boiling temperature of 203°C completely decomposes organic material.

4. The sample volume is carefully diluted to 25 mls with demineralized water. The sample solution is thoroughly mixed and allowed to settle until clear.

5. Copper is analyzed by Atomic Absorption procedures (Techtron A-A-5). Detection limit is 1 ppm for copper.

The sample pulps were then sent to the Cordero Mining Company laboratory in Winnemucca, Nevada for mercury analyses using the following procedure:

1. Geochem samples are dried at room temperature and the total -80 mean fraction is passed through a stainless steel and nylon sieve.

2. A 1.25 gram sample of -80 mesh material is heated to +1200°F.

3. The vapor emitted is drawn through a spectrophotometer.

4. The mercury content is analyzed by measuring the absorption of ultraviolet light by the contained mercury vapor.

5. The detection limit for mercury is 2 parts per billion.

Geochem results are reported in parts per million for copper and parts per billion for mercury and plotted on the accompanying Geochemical Survey Maps on a scale of 1 inch = 500 feet.

GENERAL GEOLOGY

The geology of the area has been well summarized in recent literature. The general area is underlain by a northeast-trending belt of Upper Triassic Nicola volcanic and sedimentary rocks. These have been intruded by quartz diorite and diorite of the Guichon batholith to the north near the Craigmont Mine and by dioritic and granitic rocks of the Coyle stock to the south (underlying much of the Chalco claim group). The Nicola rocks and intrusives are overlain locally by Gretaceous Spences Bridge and Kingsvale volcanics; much of the area between the Craigmont Mine and the Chalco claim area is covered by Kingswale. Alluvial and glacial overburden masks a great portion of the area, especially on the lower alopes.

The claim area itself is underlain by Nicola rocks, including some limy units along its northwestern edge, which are cut by diorite, quartz diorite and granite differentiates of the Coyle stock. A postulated, fairly strong fault intersection apparently occurs under cover in the eastcentral portion of the property. Approximately 80% of the claim area is covered by glacial drift and alluvium. Several minor copper showings characterized by generally weak disseminated chalcopyrite, pyrite, malachite, and specularite are present in the claim area, apparently associated with Nicola-intrusive contacts.

GEOCHEMICAL REBULTS

Geochemical samples were collected at 132 stations, all representing soil samples. All samples were analyzed by atomic absorption spectrometry for copper; all samples except 11 were also analyzed by spectrophotometric analysis for mercury. The results have been plotted on map sheets at a scale of one inch * 500 feet. The geochemical results for copper were analyzed statistically to permit the preparation of a cumulative percent frequency plot. This analysis does not clearly indicate the threshold value for anomalous copper; the data utilized are apparently insufficient to permit such a study; previous work in the immediate area indicated a threshold value of approximately 130 parts per million for copper. Statistical analysis for the mercury data was not undertaken since it is apparent from the geochemical results that no anomalous values are present.

A copper anomaly defined by a previous survey in the east-central portion of the claim block along lines 2000W, 2h00W, 2800W, and 3200W (Q-1000S) could not be verified. The northwest-trending copper anomaly defined by previous work in the west-central portion of the claim block along lines 8h00W, 8800W, 9200W, and 9600W was essentially duplicated and extended to the north along lines 9200W and 9600W; all anomalous samples, however, were taken in a meadow traversed by a braided stream system and were found to be at least partically contaminated by organic material; where uncontaminated samples were taken immediately adjacent to this meadow, results were negative. No other anomalous conditions were demonstrated by the remainder of the sampling.

Analysis for mercury proved completely negative. No anomalous assays were obtained.

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CONCLUSIONS

The only copper anomaly defined by this survey appears to be related to unavoidable contamination of the samples by organic material which very likely concentrated migrant copper in the vicinity of the meadow traversed by the braided stream system. Samples devoid of organic material are not anomalous. None of the samples were anomalous in mercury, probably indicative of the lack of significant mineralization beneath cover in the areas sampled. Although weak copper mineralization can be observed in several instances and though similar occurrences may occur beneath cover in the survey area, the copper potential of the ground sampled by this survey is believed to be limited with respect to size possibilities.

m.a. Kaufman

M. A. Kaufman Vice-President PERRY, KNOE, KAUFMAN, INC.

Spokane, Washington September 15, 1972

m.G.K.

STATEMENT OF COSTS

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1.	Salaries and overhead		
	J. A. Knox 1 day @ \$90.00 June 23, 1972	\$90.00	
	E. H. Hager 3 days @ \$75.00 May 13-15, 1972	225.00	
	W. H. Tisdall 3 days @ \$50.00 May 13-15, 1972	150.00	
	Total	\$465.00	\$465.00
2.	Field Expenses		
	J. A. Knox 1 day @ \$15.00 E. H. Hager 3 days @ \$15.00 W. H. Tisdall 3 days @ \$15.00 Vehicle expenses 4 days @ \$20.00	\$ 15.00 45.00 45.00 80.00	
	Total	\$185.00	\$185.00
3.	Analysis of samples		
	Rocky Mountain Geochem. Lab. Cordero Mining Co., Lab.	\$176.00 189.00	
	Total	\$365.00	\$365.00
4.	General Supervision and Report and Map Preparation	\$150.00	\$1.50.00
	TOTAL		\$1,165.00

m.a. Kaufman

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M. A. Kaufman Vice-President Perry, Knox, Kaufman, Inc.

STATEMENT OF QUALIFICATIONS

I, Morris A. Kaufman, do hereby certify:

1. That I am a Consulting Geologist and Vice-President of the geological consulting and mineral exploration firm of Perry, Knox, Kaufman, Inc. with offices at Suite 21, North 20 Pines Road, Spokane, Washington.

2. That I am a graduate of Dartmouth College, 1955, with a Bachelor of Arts Degree, major in geology.

3. That I am a graduate of the University of Minnesota, 1957, with a Master of Science Degree, major in geology.

4. That I have practiced my profession for fifteen years.

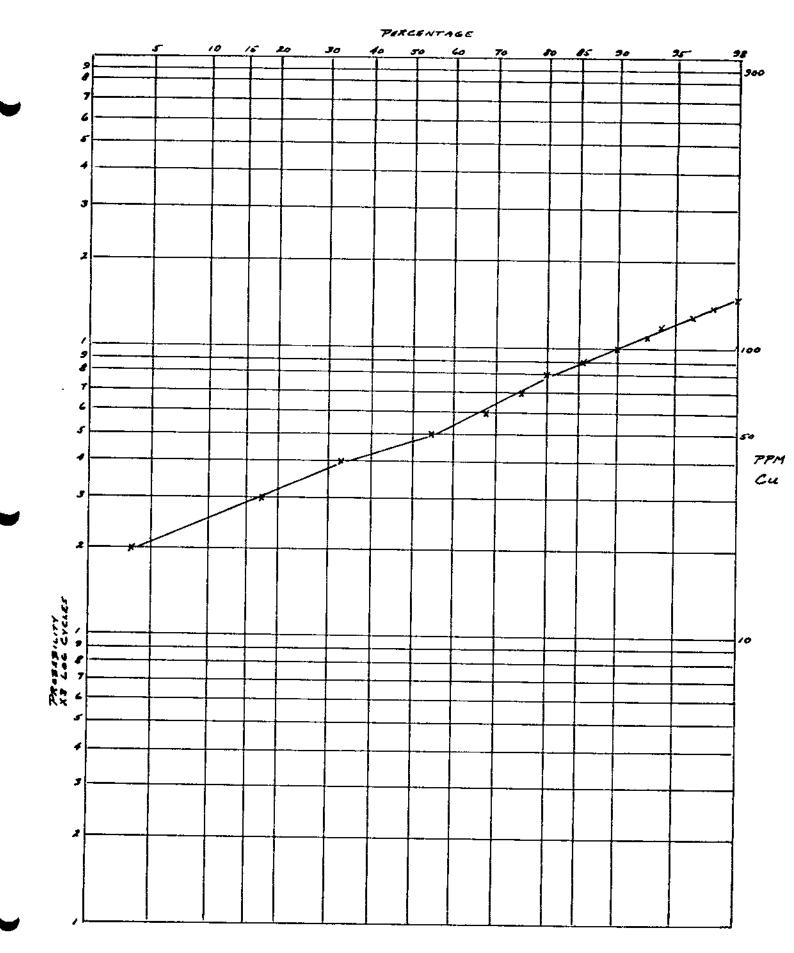
5. That I have no direct, indirect, or contingent interest in the claims held by John M. McAndrew, nor do I intend to receive any interest.

6. That this report dated September 15, 1972 is based on a geochemical survey conducted by me and under my supervision at the property on May 13-15 and June 23, 1971.

DATED at Spokane, Washington, this 15th day of September, 1972.

morris G. Kaufman

Morris A. Kaufman Consulting Geologist PERRY, KNOX, KAUFMAN, INC.



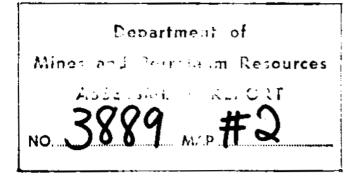
BAR INTERVAL 10 PPM

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CHALCO CLAIM GROUP JOIL GEOCHEM JURVEY CUMULATIVE % FREQUENCY PLOT FOR CU

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BOCKY MOUNTAIN GEOCHEMICAL CODP.

1491 E. 7TH STREET . RENO, NEVADA 895

RENO, NEVADA 89502 . PHONE: (702) 323-3610

Certificate of Analysis

		6 Page 1 of
Date:	June 1, 1972	RMGC Numbers: 72-10-14R
Client:	Cordero Mining Company	Local Job No.:
	Box 506	Foreign Job No.: R 4471 Invoice No.:
	Winnemucca, Nevada 89445	-
Client Order No.:	None	
Report On:	126 Pulp Samples	1
Submitted by:	Johnson	
Date Received:	May 25, 1972	-
Analysis:	Copper	
Analytical Methods:	Copper analysis determined by atomic abs	orption.
Remarks:	None	
cc:	Enclosed RMGC File	
	GMF:dkw ⁺ CH-Series Sample No. A 0 E A 2 E A 4 E	ppm <u>Copper</u> <u>Cordinates</u> <u>50</u> <u>3200N</u> 1050 W 25 <u>3200N</u> 850 W 50 <u>3200N</u> 650W

Rocky Mountain Geochemical Corporation Reno, Nevada June 1, 1972 M.C.U.

All values are reported in parts per million unless specified otherwise. A minus sign (-) is to be read "less than" ond a plus sign (+) "greater than." Values in parenthesis are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission. ND = None Detected 1 ppm = 0.0001°_{io} 1 Troy oz./ton = 34.286 ppm 1 ppm = 0.0292 Troy oz./ton

	-Seri		ppm Copper	-	e 2 of 6
A	6	E	40	32 0 0 N	450 W
	8		30	32 co N	250 W
	10		S 0	••	50 W
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	14		35	41	350 E
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	6		25	2600 N,	1050 W
	8		30	2400 N, 1	050 47
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	12		25	2000 N, 1	050 W
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	18		60	1500 N	
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	6		30	600 N	1200 W
12W	3	N	30	800 N	12.00 W

Rocky Mountain Geochemical Corporation Reno, Nevada June 1, 1972

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	6	S	35		
	8	S	25		
	10		30		
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	4		45		
	S		55		
	6		50		
	7		40		
	8		45		
	9		65		
	10		95		
	11		95		
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	13	S	50		
	15		45		
24N	16	S	25		



Rocky Mountain Geochemical Corporation Reno, Nevada June 1, 1972

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25W	9	S		85		
	10			60		
	11			60		
	12			60		
	13			50		
25W	14	S		35		
28W	1	S		70		
	2			50		
	3			30		
	4			30		
	5			65		
	6			55		
	7			50		
	8			85		
	9			50		
	10			55		
	11			45		
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	6			40		
	8			40		
	10			70		
3211	12	S		60		



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Rocky Mountain Geochemical Corporation Reno, Nevada June 1, 1972

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LIDEXY MADDITATION OBJECTIVEAU COUR. RUNCH MEMALIA + SPORAME MASHING + 100505 ARIZUNA SALT LAKE CITY UTAN

Client	Cordero	Mining	Company
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72-10-14R

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Samp	le No.		ppm Copper				
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84W	0	N	30				
	Z	S	35				
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	6		80				
84W	8	5	45				
88W	4	S	45				
	3	5	30				
	2	5	60				
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	6		60				
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88W	10	N	70				
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	8	N	120				
	10	N	140				
	12	N	125				
92H	14	N	70				



Rocky Mountain Geochemical Corporation Reno, Nevada June 1, 1972 M.G.K.

Page 6 of 6

	Le No.		pp a Copper
921	16	N	50
	18		80
	20		105
	22		125
	24		255
92¥	26	N	45
96W	8	N	30
	9	N	45
	10		70
	11		65
	12		95
	13		90
	14		90
	15		100
	16		85
	17	1	60
	18		08
	19		105
	20		150
	22		185
	24		120
	26		110
9 6W	28	N	65

By Mary Mecabo

Gary M. Fechko

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NUCRY MODIAVAND CROCKSMORAL COURSE.

Rocky Mountain Geochemical Corporation Reno, Nevada June 1, 1972

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Page ______ of _____

Sample_Number	PPM <u>Copper</u>	Cooksi	NAYES
92W-24N	155	42.00 W	2400 N'
92W-26N	85	+r	2 600 N
9 2W -28N	70	<i>0</i>	2800 N
92W-2NW	130	2700 N	9375 W
92W-3NW	85	2500N	9800 W
9 2w-4 NW	55	2800 N	9550 W
92W-5NW	65	290CN	9625 W
9 2W-9 NW	50	29-25-1	98000
92W-2SE	45	2.450 N	gesow
92W-4SE	40	2350 N	88 75-00
9 2W-7W	5.5	2700 N	9800 W

BY Terry B. Henderson



m.G.K.

CORDERO MINING COMPANY

POST OFFICE BOX 506 WINNEMUCCA, NEVADA 89445 27 July,1972

Perry,Knox & Kaufman P.O.Box 14336 Spokane,Wash. 99214 Att:Jim Knox

Dear Sir;

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Sen Copper georeien Auto

Sample	Hg.(ppb)	Sample	Hg.(ppb)
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CH 6W 11N CH 8W 11N CH 10W 13N	11 5533494555647646561966646567725165458	CH 25W CH 28W	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
CH 12W 2 N 4 6 8 10 12 CH 12W 14 CH 20W 0 N 2 S 9 4 6 8	2 5 10 6 5 4 5	CH 28W CH 32W	$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
10 CH 20W 12S	8 \$	CH 32W	12 17 148 6

page 1

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27 July,1972 Perry,Knox & Kaufman P.O.Box 14336 Spokane,Wash. 99214 Att:Jim Knox page 2

See Copper geoclem shacks for coordinates.

	_ Sam	ple	Hg.(ppb)	S	ample		Hg.(ppb)
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		45	4			24	7
	<u>.</u>	65	3 2 4	CH	92W	26N	3
CH	84W	8S	2	CH	96W	8N	3
CH	88W	45	4			9	2
		3	3			10	3
		2S	3 5 4			11	2
		ON				12	3
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Sincerely,

Juck & Jeluna

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enc:Inv.W/PKK

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CH 92W 18N

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Proceeding Sug Forcetry Lockout 5 24 41 43 24 2Z 28 30 <u>ک</u> DRY LAKE 21 44 25 23 42 27 29 . . 13 7 38 Z 10000 17 4 "O" BASELINE ----٦. 18 37 3 14 5 1 16 7 9 33 35 39 11 31 Department of Mines and the cam Resources 8 10 32 40 12 34 34 . ASCELORE + RUNDRT NO. 3889 м р. **#3** Stayer Road LOWER NICOLA N. 8 ====== CHALCO GROUP CLAIM LOCATION MAP JEALE: 1"= 2000 FT. Sert. , 1972 M. A. KAUFMAN GEOCHEMICAL REPORT CHALCO CLAIM GROUP, NICOLA MINNE DIVISION M.A. KANEMAN PERRY, KNOX, KAUGMAN, IN. m.a. Kaufman

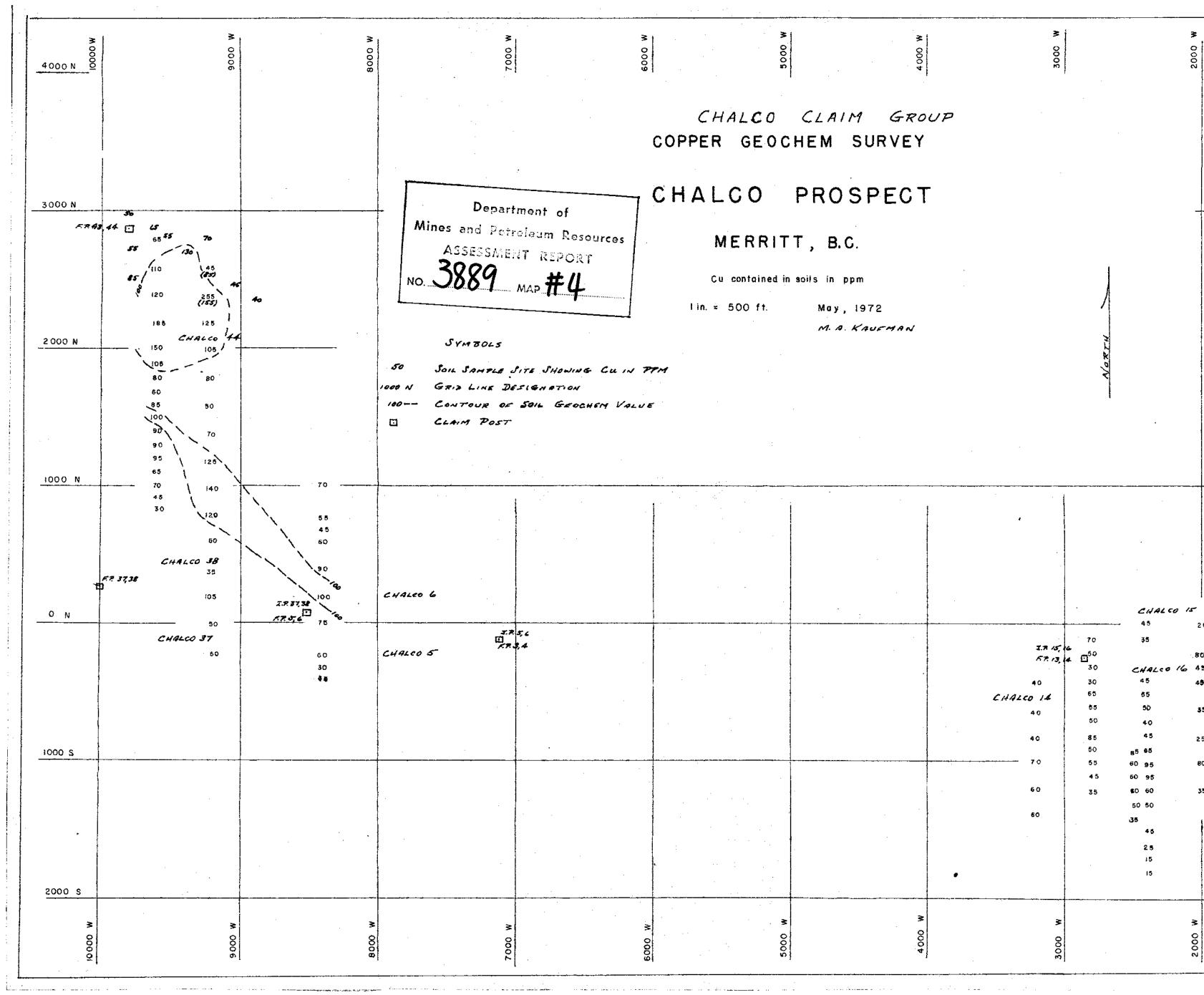
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May, 1972 M. A. Kaurman		Nort			4		
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		4 3 5 17 3	4 6 4 5 6 5 4 5 3 4 4 6 4 4 2 4 2 4	5 8 6			1000 S
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<i>aim Group</i> 1 SURVEY					
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in ppm ay, 1972			25 30		
1. D. KAUEMAN	XTH		25	CHALCO ZI	2000 N
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	40 30 <i>C 14 A 2 CO 1 4</i> 65 40 55	45 45 65 50 33		· .	
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