

KLYCEPTOR GEOPHYSICAL REPORT NO. M-1000

of the

Ann and Crown Grant Claims

2 miles southeast of Christina Lake

49° North - 118° West

for Chromex Mines

Limited

Sept. 18, to Oct. 28, 1966

82E/1E

D. L. Hings, P. Eng.

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film as test

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This is Report No. M-1000 for Chromex Nickel Mines Limited  
in the area of Christina Lake, B. C.  
Sept. 18 to Oct. 28, 1966.

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PLANS

- M-1000-1      Magnetic Anomaly Contour # 1
- M-1000-2      Surface Features # 2

KLYCEPTOR SURVEYS LIMITED,  
250 South Fell Avenue,  
North Burnaby, B. C.  
298-9619

October 28, 1966.

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#### Property Location

The property surveyed is located at  $49^{\circ}$  north and  $118^{\circ}$  west 2 miles southeast of Christina Lake, B. C. and comprised of the Ann claims 2 through to 14 inclusive, 26 to 34 inclusive, 57, 59 and 61. Crown grant claims L2385S, L2386S, L2387S, L2384S, 3571S and L2390S.

The plan M-1000-2 shows claim posts, road locations and other surface features with respect to the traverse lines. Note the US-Canadian 49th parallel boundary passes through the lower portion of the plan.

#### Geophysical Survey Coverage

The traverse lines as shown in plan M-1000-2 have an average of 100 foot spacing, with a total length of 259,350 feet, or 49 line miles. The readings were taken normally at 100 foot spacing and reduced to fractions of this spacing near highly anomalous zones. All references to location in this report are made on the co-ordinates shown on the periphery of the plans.

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### Instrumentation

The instrument used throughout the survey was a vertical field Fluxgate Magnetometer with direct reading of the total vertical field. The contour plan no. M-1000-1 shows contour values that represent thousands of gammas wherein each contour line equals 1,000 gammas in respect to the adjacent line. The mean value is 53,000 gammas.

### Interpretation

The contours, anomalous zone, and linear features are shown on plan M-1000-1. The principle anomalous area is shown due west of the linear contact C4, with the lower half of this linear anomalous between 0 + 00 and 20 + 00 north, being bounded by the linear contact C1. The topography is a southwest slope, and the tight contouring on the west side in the vicinity of 10 + 00 west within the anomalies A1, A3 and A4 suggest the existance of outcrops or near surface conditions.

Some stratification appears to exist along the strike of A6 extending through the anomalies A3 and A6 as far east as C4. This linear strike would appear to be the centre of a general anticline that follows very closely to the curve of C4 at 20 + 00 north at 0 + 00 eastwest. The strong anomaly in this location exceeding 64,000 gammas appears to be an extension of A2 at increased depth to the east. A similar anomalous feature on the east side of C4 would suggest the existence of a further depth

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anomalous zone.

The anomaly A7 indicates near surface features on the east side of contact line C2. The A7 formation appears to be related to the anomalies within A8, although A8 seems to be deeper. These anomalies maybe largely a result of topographic features.

The large A9 anomaly shows good strength but in general is not close to the surface. The A9 and A10 anomalies are probably linked by the linear anomaly L4. The whole anomalous zone east of L4 generally, shows indications of depth.

The A11 and A12 anomalies between C3 and L5 appear to be closely associated and relatively close to the surface. The less anomalous portion of the survey extending from the northwest southward through the middle to the plan, and including the area south of 0 + 00 northsouth does not show sufficiently anomalous features from a magnetic standpoint, that would appear pertinent to this survey.

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### Summary

The large anomaly A1 appears to have anticlinal features at 5 + 00 north at the L3 linear intersect point, and could prove to be the interesting point for investigation of the A1 anomaly. The A2 anomaly, as in the case of the A1 anomaly, shows strong anticlinal features to the southeast, but is more extensive than the A1 anomaly. Also as in the A1 anomaly the smaller anomalous features to the northwest indicate less coverage. This would suggest the anticline is dipping to the east into the mountain.

The A9 and A10 anomalies probably are from one main formation.

The A10 and A12 anomalies maybe joined near the "big cave" location.

Geophysical speaking the most interesting feature of the survey is the large anticlinal formation due west of C4 which is supported by the smaller anomalous zones A3, A4, A5 and A6. A laboratory check of a chromite sample from this property, indicated magnetic polar characteristics sufficiently strong to create anomalies of the type shown in this plan. In view of this it is recommended that further geological investigation is warranted.

KLYCEPTOR SURVEYS LIMITED,

  
D. L. Hings, P. Eng.

October 28, 1966.

A statement of costs for Geophysical Survey in the Christina Lake area by Klyceptor Surveys Limited.

D. A. Saare,	Surveyor	7 days @ 35.00 per day	\$ 245.00
K. Pettersen	Ground Control	38days @ 32.00 per day	\$ 1216.00
D. Campbell	Assistant Sept.	18 to Oct. 31 @ \$400. per mo.	\$ 570.38
D. Cramer	Data Processing	15 days @ \$35.00 per day	\$ 525.00
			<u>\$2556.38</u>
Plus 35% Overhead			<u>894.73</u>
			\$ 3451.11
D. L. Hings	Interpretation and Drawing up final report	2 days @ \$50.00	\$ 100.00
			<u>\$ 3551.11</u>
Living costs - 82 man days @ \$5.00 per day			\$ 410.00
			<u>\$ 3961.11</u>
Truck Mileage 1200 miles @ \$.10 per mile			\$ 120.00
			<u>\$ 4081.11</u>
		GRAND TOTAL	<u>\$ 4081.11</u>

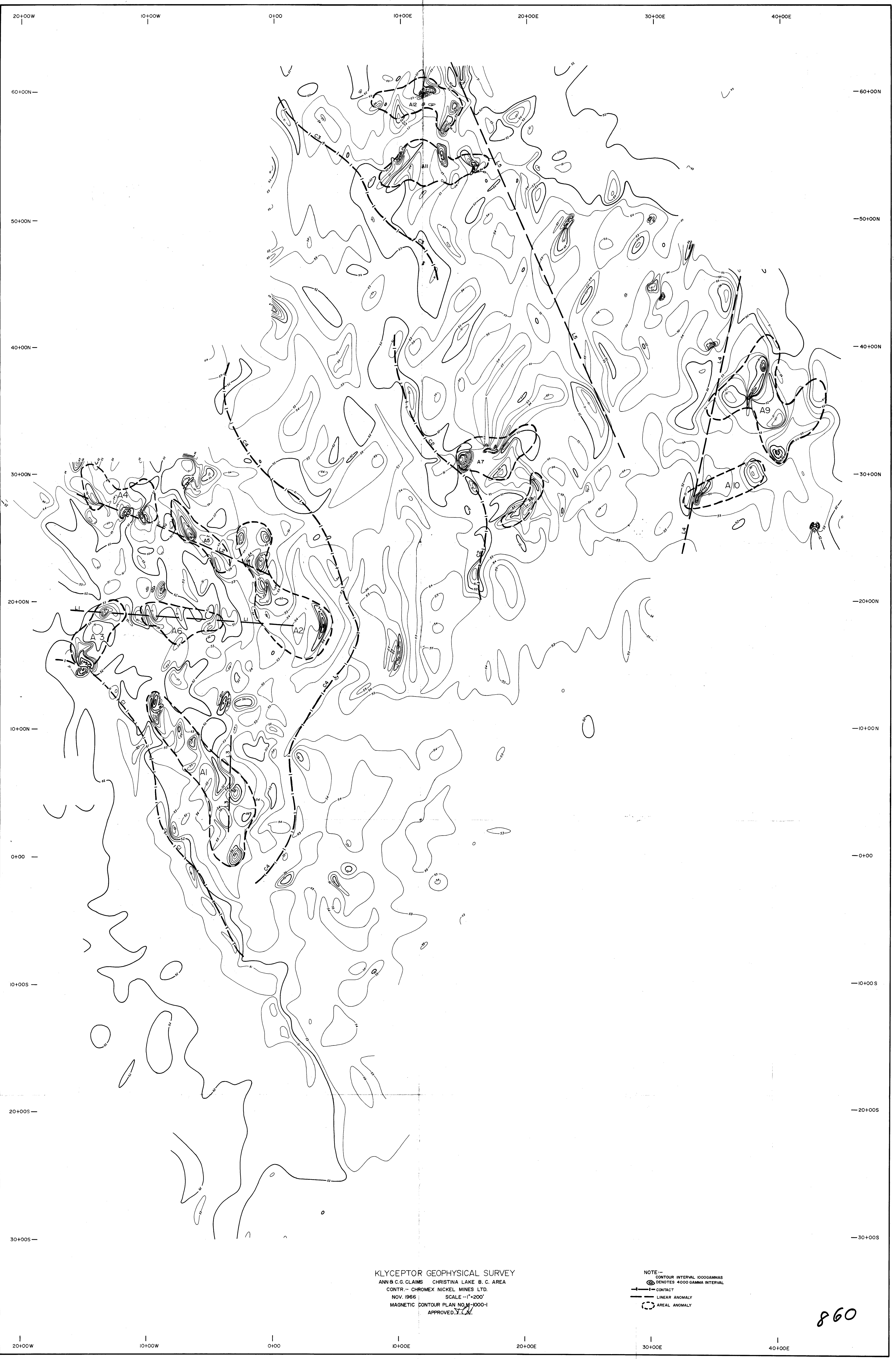
Declared before me at the *City*  
of *Vancouver*, in the  
Province of British Columbia, this *28*  
day of *November* 1966, A.D.

*Michael Pettersen*

*Juie Suran*  
A Commissioner for taking Affidavits within British Columbia or  
A Notary Public in and for the Province of British Columbia.

Sub-mining Recorder





KLYCEPTOR GEOPHYSICAL SURVEY  
 ANN B C.G. CLAIMS CHRISTINA LAKE B. C. AREA  
 CONTR. - CHROMEX NICKEL MINES LTD.  
 NOV. 1966 SCALE - 1" = 200'  
 MAGNETIC CONTOUR PLAN NO. M-1000-1  
 APPROVED: [Signature]

NOTE -  
 CONTOUR INTERVAL 1000 GAMMAS  
 DENOTES 4000 GAMMA INTERVAL  
 CONTACT  
 LINEAR ANOMALY  
 AREAL ANOMALY

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