



32D05NW0186 63.1134 GARRISON

REPORT TO

010

Golden Croesus Mines Ltd.

Covering Surface Exploration:

Time: Sept. 1961

Claims: 71425, 71424, 71423.

Workmen: G. P. Thoday Haileybury Ont.

H. R. Norrie Toronto, Ont.

Introduction:

Geological information obtained and studied prior to fieldwork:

- (1) Ontario Dept. Of Mines Vol. LXIII Part IV, 1949 by J. Satterly
- (2) Map No. 1949-1 Township Of Garrison.
- (3) Reports by S.V. Burr covering work carried out in the area during 1943-1944.

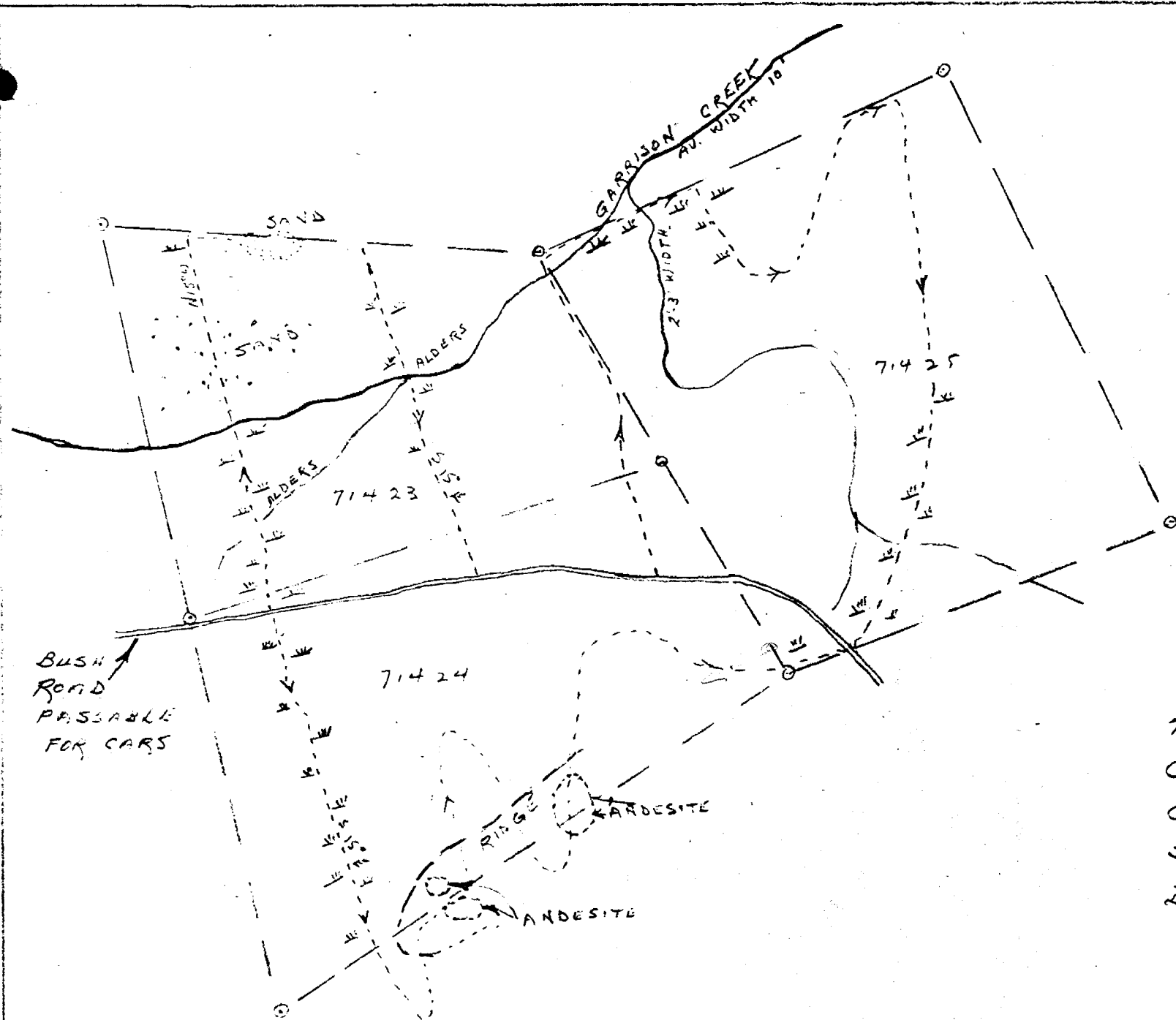
Remarks:

The entire area, except for two small outcrops in the south-central part of claim No. 71424, is low and drift covered. The outcrop area was examined and found to be basic andesitic lava flows containing narrow quartz stringers and small highly altered sparsely mineralized fracture zones. No samples were taken.

The purpose of this work was to locate and map outcrops to determine the possible westward extension of gold bearing fracture zones that occur near the West boundary of Thorncliffe Mines about 2500 feet to the East of this property.

Signed.


H.R. Norrie.



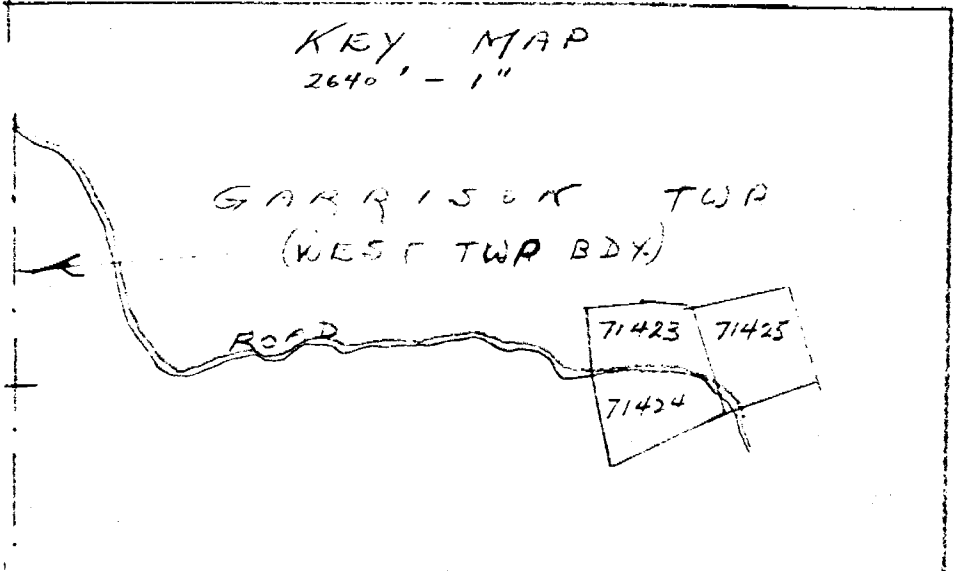
North Arrow

LEGEND

- TRAVERSE LINES -----
- CLAIM POSTS. ○
- OUTCROP. ○
- SWAMP. //
- DRIFT. ●●●●

BUSH ROAD
PASSABLE
FOR CARS

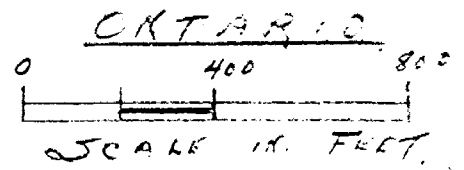
KEY MAP
2640' - 1"



GEOLOGICAL MAPPING.

GOLDEN CROESUS MINES LTD.

GARRISON TOWNSHIP



[Signature]
OCT 1961



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020

GOLDEN CROESUS MINES LTD.
GARRISON TOWNSHIP
LARDER LAKE MINING DIVISION, COCHRANE DISTRICT
ONTARIO

INTRODUCTION

A geophysical program was carried out over the Golden Croesus property located in Garrison Township, Ontario, during October 1961.

A grid of north-east picket lines was cut over the property at 300 foot intervals and stations established at 100 foot intervals.

Electromagnetic and magnetic readings were taken at 100 intervals along the picket lines.

The results have been plotted on the accompanying map which is on the scale of 1 inch = 200'.

The claims held by the Company are numbered as follows:

71417,
71420,
71423,
71424,
71425.

GENERAL GEOLOGY

The Golden Croesus property is located on the western edge of a large granite intrusive massive. The western 3/4 of the property is underlain by northwesterly striking volcanics. The granite to the east cuts northwesterly across the two eastern claims of the property.

A gold bearing deposit has been outlined by diamond drilling on the Buffonta Mines which adjoins the Golden Croesus on the east. The projection of the gold bearing zone on the Buffonta strikes unto the Golden Croesus property.

METHOD OF SURVEY

The method used in this survey is sometimes known as the electro-magnetic-galvanic method to distinguish it from other electromagnetic methods.

A long insulated copper cable is laid out in a direction approximating the regional strike and is grounded at both ends. An alternating current of about 800 cycles per second is passed through this system, the source of supply being a motor-driven generator.

The current generates an alternating magnetic field concentric about the cable and therefore roughly perpendicular to the surface of the ground at points away from the axis of the cable.

Secondary currents will be generated in any sub-surface conductor - such as a sulphide body - partly by induction from the cable itself, and partly by earth conduction from the grounded ends of the cable. The magnetic field from such a body will be horizontal in a limited region above the body.

Readings of the direction (or tilt) of magnetic field are made along survey lines perpendicular to the cable. Significant departures from the vertical are ascribed to sub-surface conductors. The interpretation of any such anomaly will involve the size, conductivity and attitude of the sub-surface body, and its position relative to the cable.

In addition to sulphides, other conductors -- such as graphitic zones, water-permeated shears, clay beds, or swampy ground -- may give rise to anomalies.

Magnetometer readings in conjunction with an E.M. survey are often helpful in deciding the nature of a conductor. The two minerals most likely to produce a magnetic anomaly are pyrrhotite and magnetite. A concentration of pyrrhotite should show up as a conductor in the same way as most metallic sulphides. Magnetite is only rarely a conductor, but its occurrence in above-normal concentration may suggest a zone of more general mineralization.

In either case a magnetic anomaly in close association with an E.M. anomaly suggests that the latter is more probably due to mineralization than to other causes.

RESULTS OF THE SURVEY

Some test magnetic and electromagnetic profiles were run across the Buffonta gold zone. High magnetic values, 2000 gammas above normal, occur over the open pit on the Buffonta and an electromagnetic anomaly also occurs over the pit.

The magnetic work outlined a zone of higher than normal magnetic values extending westerly from the Buffonta open pit across the eastern part of the Golden Croesus property.

Three other magnetic zones were outlined on the property. One occurs on line 300 E at chainage 2100 south and trends northwesterly to line 300 W at chainage 1400 south. The second trends southwesterly from chainage 500 north on line 300 W to chainage 100 south on line 9400 W. The third appears to be a local magnetic zone which occurs on line 1200 W at 300 north and at zero on the same line.

The electromagnetic survey showed up a weak electromagnetic zone along the projected strike of the Buffonta zone. Another electromagnetic anomaly occurs on the southern part of the property from chainage 1300 south on line 600 E to chainage 1300 south on line 3400 W.

It is recommended that a diamond drilling program be undertaken to test the magnetic zone which appears to be the projection of the Buffonta Gold bearing zone. It is suggested that the first two holes be put down at the following locations.

- #1 Line 600 W at 150 south - drill south at 50°
- #2 Line 600 W at 250 north - drill south at 50°

Respectfully submitted,


I. C. Christopher, P.Eng.

Toronto, Ontario.
December 4, 1961.

DIAMOND DRILL RECORD

PROPERTY GOLDEN CROESUS MINES LTD.

HOLE NO. 18

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED NOV. 16th, 1962

LATITUDE 27 20 N

DATUM _____

COMPLETED Dec. 16th, 1962

DEPARTURE 20 2 45 S

BEARING N 10° W

ULTIMATE DEPTH 752

ELEVATION _____

DIP - 50°

PROPOSED DEPTH 1,000

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$	
0.0 - 8.0	Casing					
8.0 - 525.6	Uniform lava - grey, fine grained scattered narrow qtz str.					
30.6 - 33.9	Brecciated Zone - epidote, garnet - qtz - alteration medium mineralization					
37.2 - 1/2 in	Epidote str.					
46.0 - 46.4	Garnet, epidote alteration porcelainic shards					
47.3 - 47.6	Epidote str.					
50.0 - 75.0	Many hairline stringers - epidote - porc. shards.					
73.8 - 1"	Quartz str.					
75.0 - 77.1	Mostly epidote - light mineralization.					
96.2 - 98.5	" " " "					
109.5 - 110.8	Qtz str. Well mineralized - hematite at contacts					
113.0 - 113.9	Epidote str.					
114.0 - 114.5	Qtz. str. well mineralized					
125.0 - 150.0	Much epidote alt.					
150.0 - 225.0	Scattered narrow epidote str.					
198.5 - 200.0	Narrow calcite str.					ASSESSMENT WO
205.5 - 206.0	Epidote with 1/4 calcite - hematite str.					
208.3 - 208.6	Epidote str.					T-691
226.0 - 292.0	Many calcite str. Some with hematite on contacts.					
292.0 - 375.0	Heavy epidote alt. Scattered light mineralized sections.					

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DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. _____

SHEET NUMBER -12-

SECTION FROM _____ TO _____

STARTED _____

LATITUDE _____

DATUM _____

COMPLETED _____

DEPARTURE _____

BEARING _____

ULTIMATE DEPTH _____

ELEVATION _____

DIP _____

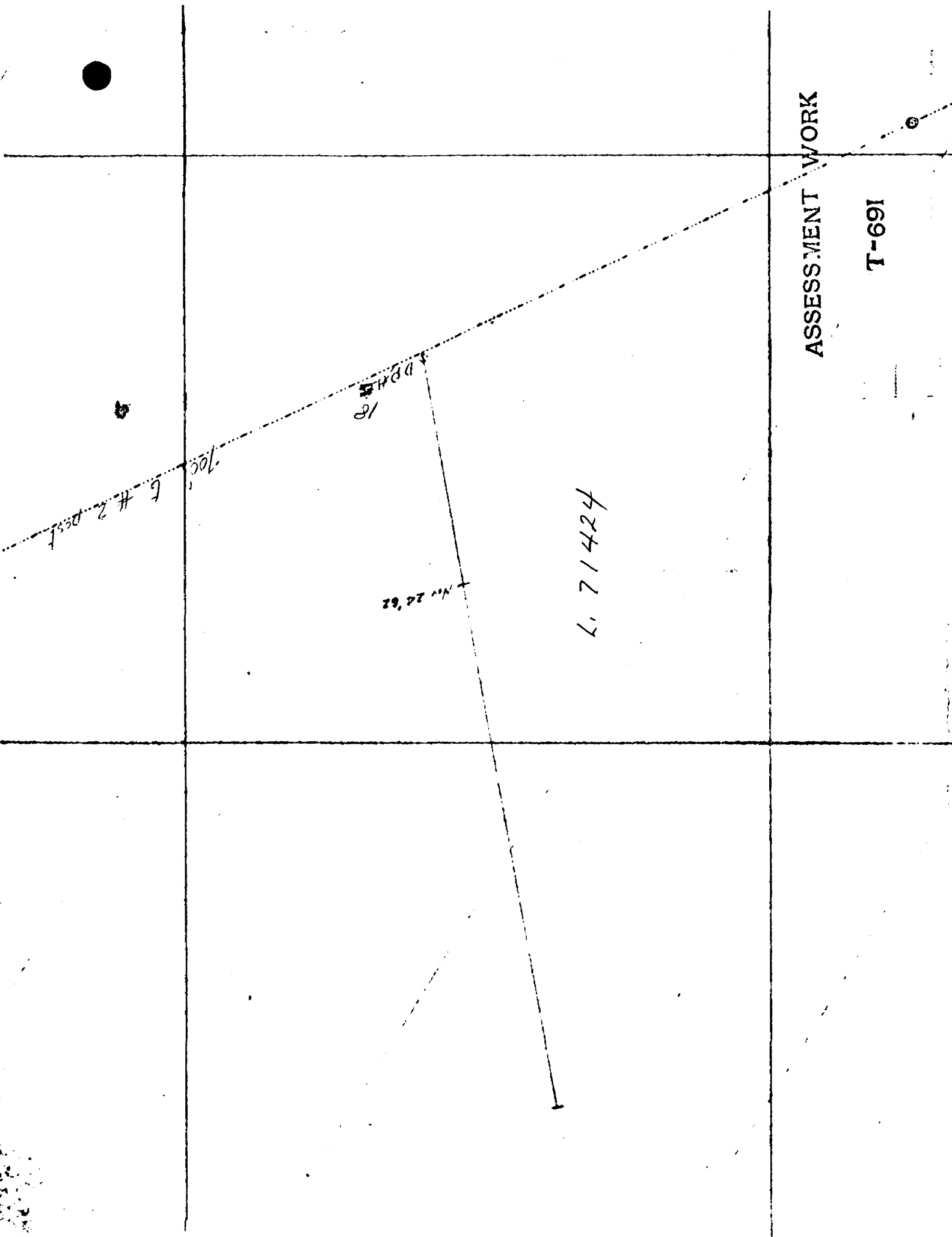
PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD #	SLUDGE GOLD #
	428.3 - 1" Qtz. Str.				
	451.4 - 1" Calcite str.				
	458.3 - 460.5 Quite well mineralized * Pink xls (Feldspars??)				
	462.4 - 462.8 Well mineralized purple alt.				
	475.0 - 500.0 Many fine qtz and calcite str 1/8 - 1/2" some hematite alt. minor epidote alt.				
	500.0 - 525.6 Some qtz - calcite str. Heavy epidote alt.				
525.6 - 555.5	Structured Lava.				
	525.6 - 539.0 Medium epidote alt. Prominent amygdules				
	539.0 - 555.5 Heavy epidote alt. Much distortion.				
555.5 - 752.0	Uniform lava - gray, fine grained Some fine qtz calcite str. Low epidote alt.				
	567.0 - 570.0 Well mineralized qtz calcite str.				
	652.5 - 655.0 " " Purple alt.				
	Hole discontinued 752.0				
					ASSESSMENT WORK
					T-691

Handwritten Signature

ASSESSMENT WORK

T-691

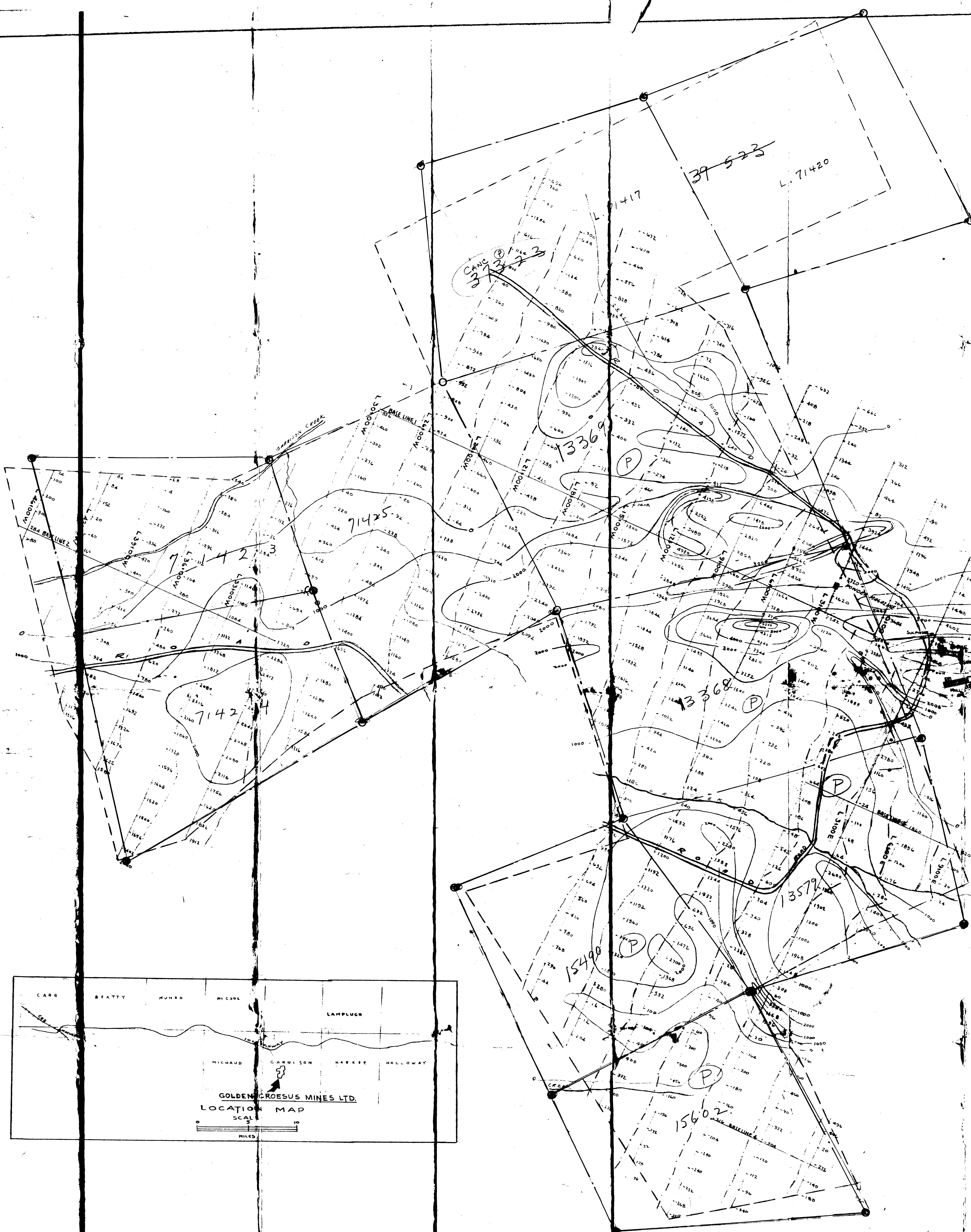


L. 71424

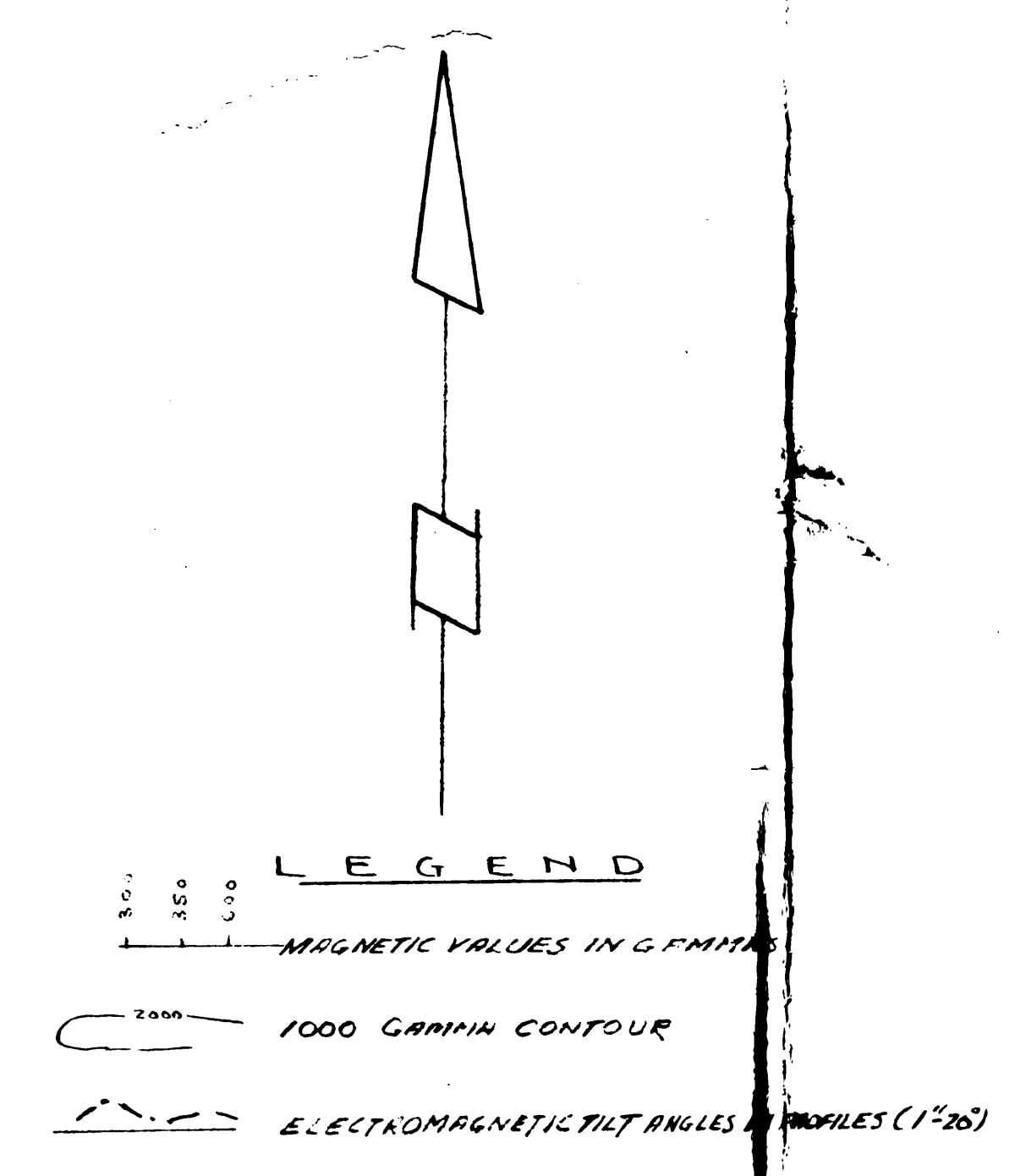
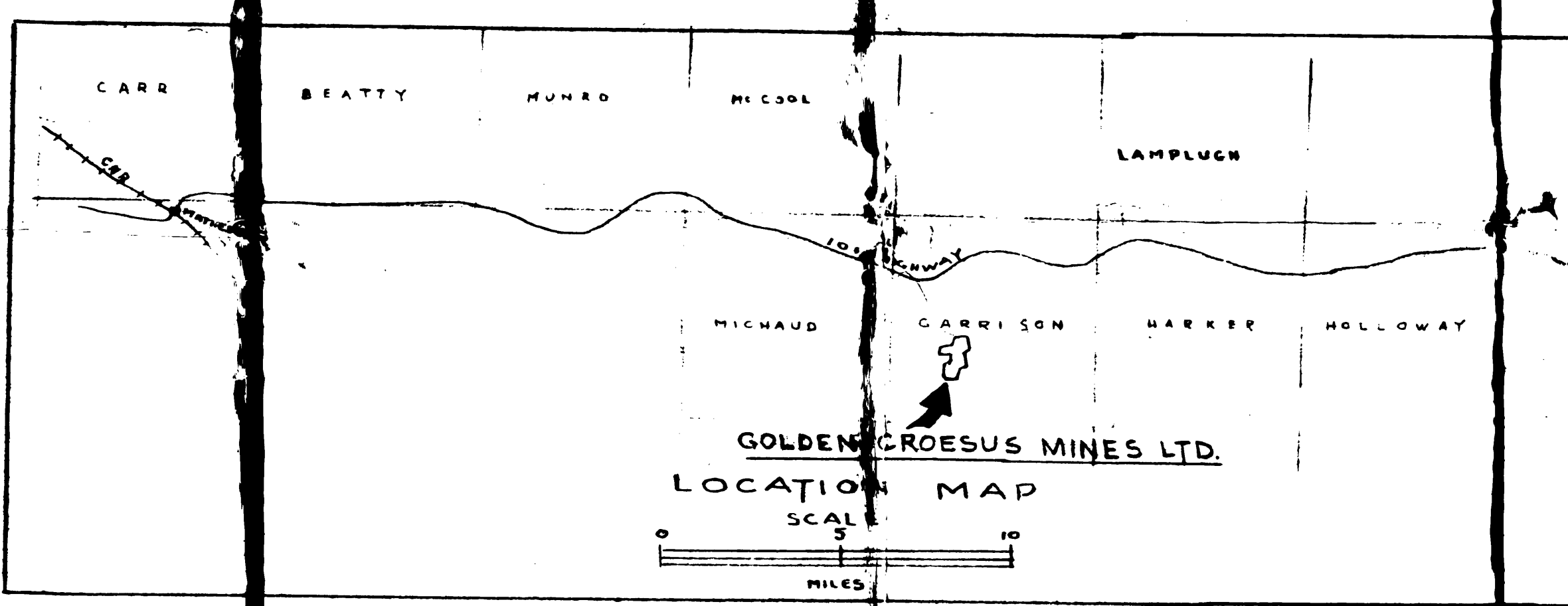
Nov 24 '62

L. 71424

L. 71424



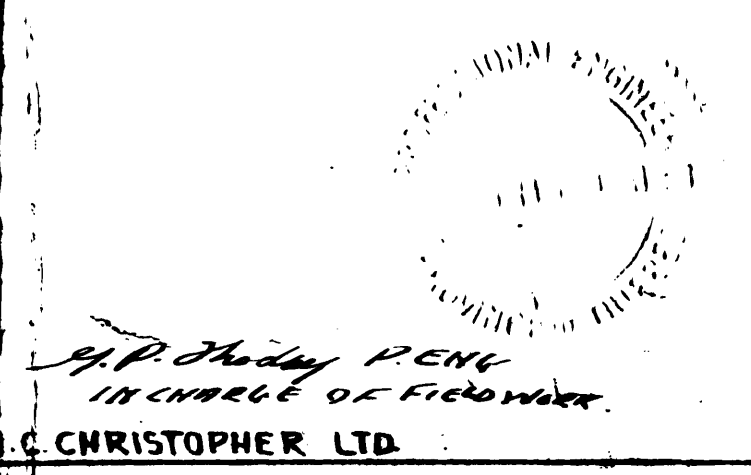
OPEN PIT
THORNCLEFFE MINES LTD



63.1134

ELECTROMAGNETIC & MAGNETIC SURVEYS
 GOLDEN CROESUS MINES LTD.
 GARRISON TOWNSHIP ONTARIO

63.1134



NOV 1961

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