MAP No. 105 F 16

ASSESSMENT REPORT [X]
PROSPECTUS [ ]
CONFIDENTIAL [ ]
OPEN FILE [ ]

DOCUMENT NO.: 091947
MINING DISTRICT: Whitehorse
TYPE OF WORK: Geology, geochemistry

REPORT FILED UNDER: A. Carlos
DATE PERFORMED: 1-11 April 1987
DATE FILED: 14 May 1987

LOCATION	
LAT.	61 48'N
LONG.	132 03'W

AREA: Nickel Lake

CLAIM NAME & NO.
LUKESHANE 3-13, 38, 40, 42-48
YA 71081-091, YA71116, YA71118, YA71120-71126

VALUE $ 4 000
WORK DONE BY: A. Carlos
WORK DONE FOR: A. Carlos
DATE TO GOOD STANDING
REMARKS:
#43 BRUCE LAKE

open

091947

GEOPHYSICAL REPORT

ON

LUKESHANE Mineral Claims

Watson Lake Mining District
NTS 105-F-16
Latitude 61°48', Longitude 132°03'

By

ALLEN CARLOS

April 1 - April 11, 1987

091947

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount

$ 4 000 .

for Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

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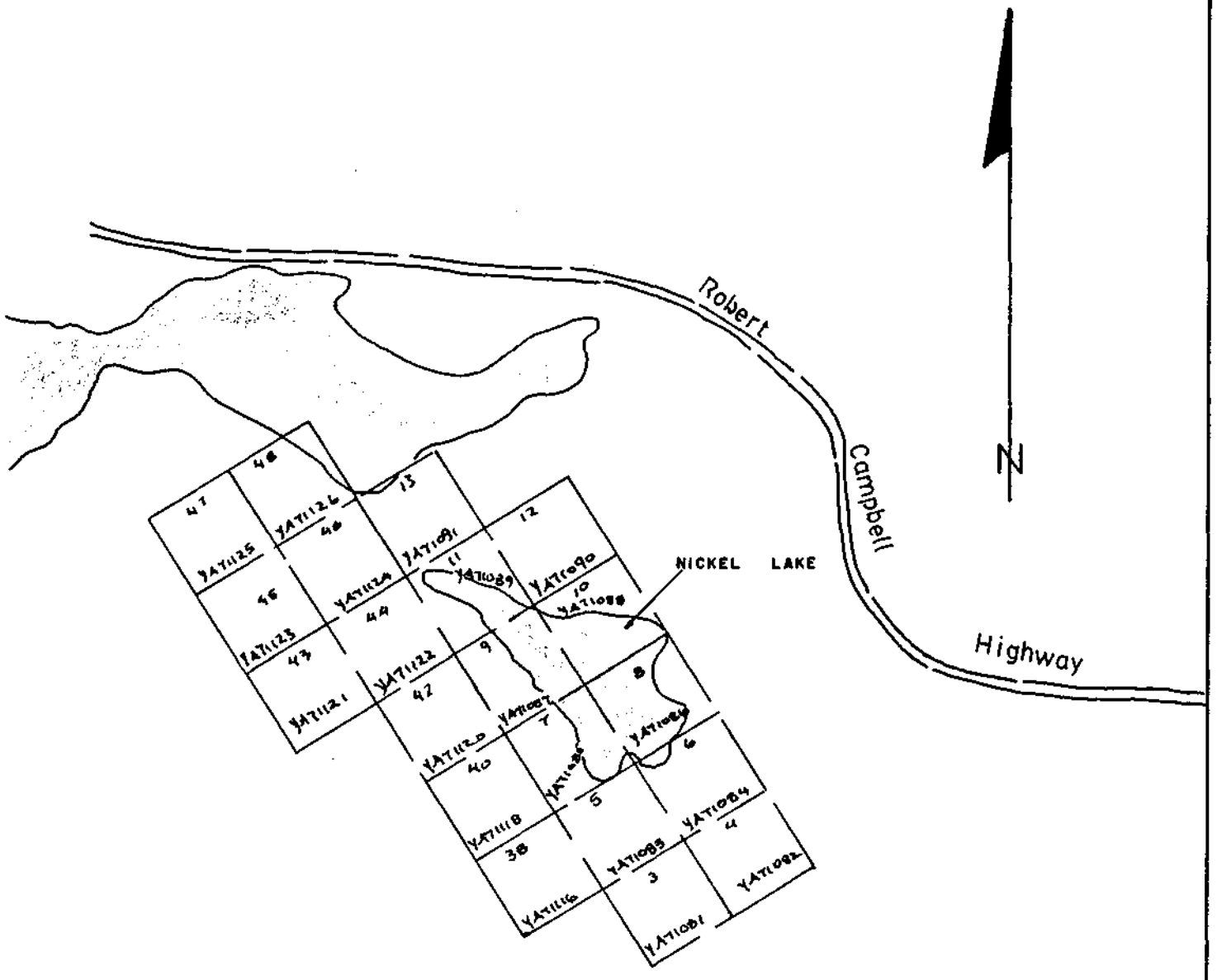


LUKESHANE CLAIMS

1 INCH = 1/2 MILE

INTRODUCTION

As noted in the 1985 assessment report, initial interest was sparked by the discovery of gold-bearing float along the shore of the locally indicated lake (Nickel Lake).

Following the work performed then and in 1986, the claim block has been reduced from 48 claims to 20.

The present assessment is a detail survey of an area deemed important from previous work (Figure 1).

PROPERTY

The LUKESHANE group consists of 20 contiguous mineral claims as follows:

LUKESHANE 3-13	-	YA71081-YA71091
LUKESHANE 38	-	YA71116
LUKESHANE 40	-	YA71118
LUKESHANE 42-48	-	YA71120-YA71126

The holder of the above claims is ALLEN CARLOS of 275 Alsek Road, Whitehorse, Yukon Territory.

LOCATION AND ACCESS

Access is by means of a tote trail leaving the Robert Campbell Highway at a point 24 miles southeast of Ross River.

GEOPHYSICAL SURVEY

(a) General

The present assessment is of an area deemed important from previous work (Figure 1).

(b) General Geology

D. J. Templeman-Kluit indicates the unit underlying the property to be an Allochthonous assemblage of Permian age. In their diamond drilling programme of 1966, "Bruce Lake Mines Ltd." logged the following rock types in the general vicinity:

1. Gabbro (gabbro-diorite) basic intrusives that are brecciated and altered;
2. Siliceous sediments (some brecciated);
3. Altered pyroxenite (some brecciated).

Tertiary pyroclastics of intermediate to basic composition occur as large float proximal to the southeast end of Nickel Lake and underlie a large area to the southwest.

Pits dug to bedrock in 1986 (Figure 2) encountered very siliceous sediments that are in part brecciated. Fractures within this material are mineralized with pyrite and an iron carbonate. It is not anomalous geochemically.

(c) Methods, Equipment and Presentation

E.M: Crosslines at 200' intervals were surveyed at 50' spacing using a Geonics EM 16 instrument. Resultant data has been presented in both contoured and profile form.

Magnetometer: The grid was surveyed at 100' station readings using a Geotronics Model G-110 fluxgate magnetometer. The data has been presented in contour and profile.

(d) Interpretation

Limited geological knowledge due to heavy overburden of the immediate area limits the degree of interpretation possible.

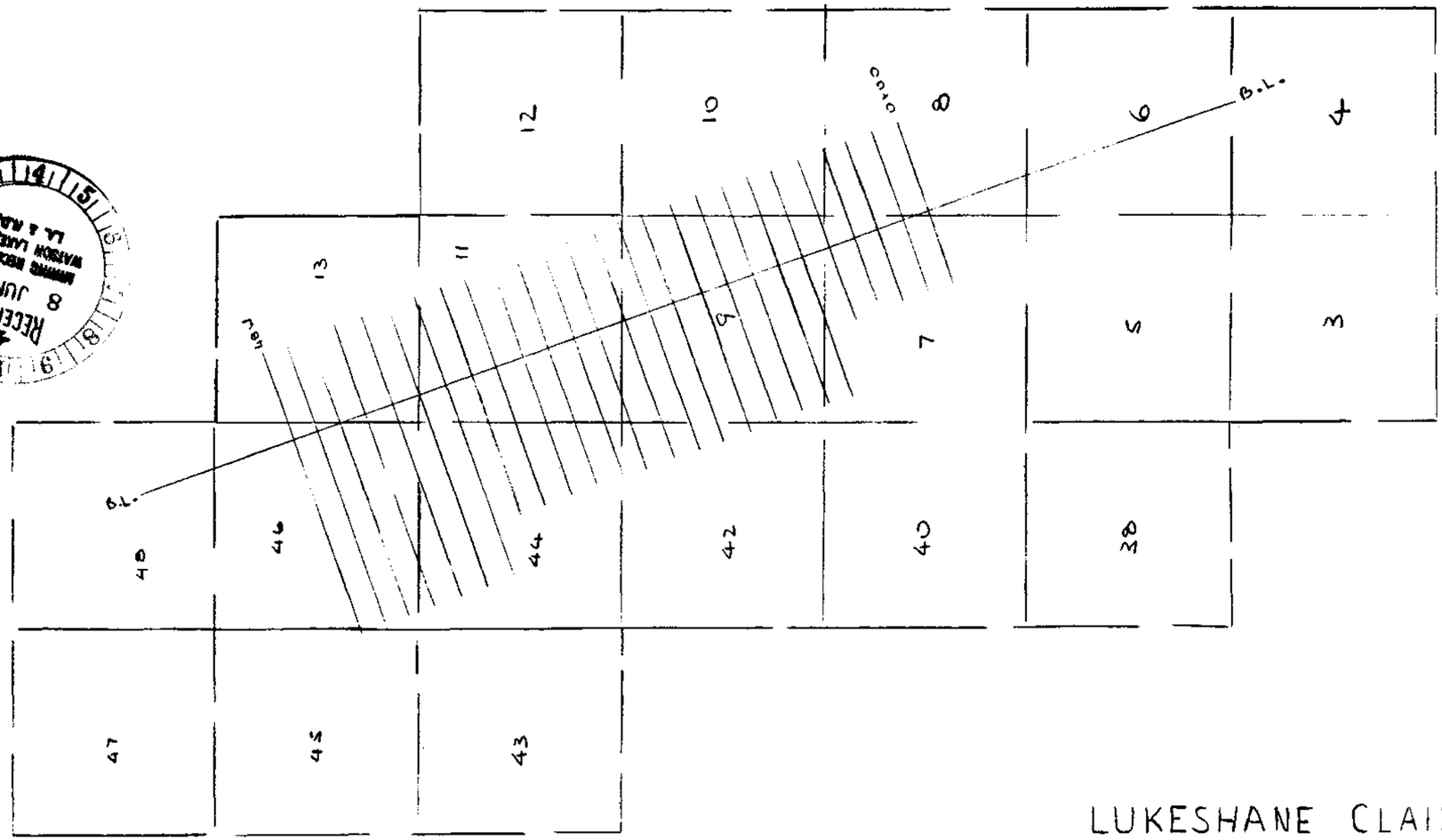
The linear V.L.F. following the base line is likely a structural feature which generally does not correlate well with magnetics. The magnetic highs are most likely due to basic igneous units.

(e) Conclusions and Recommendations

Geochemical data as shown in Figure 2 (panned sample) together with the new geophysical evidence suggests that perhaps a soil geochem survey should be undertaken in the area immediately southwest of Nickel Lake.

A. Carlos,
Prospector.


HOOLE
Rapids
CANYON
R
5000
BRUCE LAKE
DEZ
LUKESHANE
HORTON
091947



LUKESHANE CLAIMS

GRID LOCATION PLAN

SCALE: 1 INCH = 1000 ft.

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16N 20N 24N 28N 32N 36N 40N 44N 48N 52N 56N 60N 64N 68N 72N 76N 80N 84N

33N 38N

Seattle

0-00 4N 8N 12N

B.L.

B.L.

Siliceous FLOAT

R-20-2
99405
99407
R-85-13

R-85-1

SITE A-20 — Siliceous FLOAT

R-20-1
74602

AREA OUTLINE OF MAG
AND E.M. DETAIL — APRIL, 1987.

"LUKESHANE" GROUP

NTS 105 F-16

EM 16 FRASER FILTER

contour interval 10

SCALE: 1INCH = 250 FT.

APRIL 1985

DWN. by AMC

(310)

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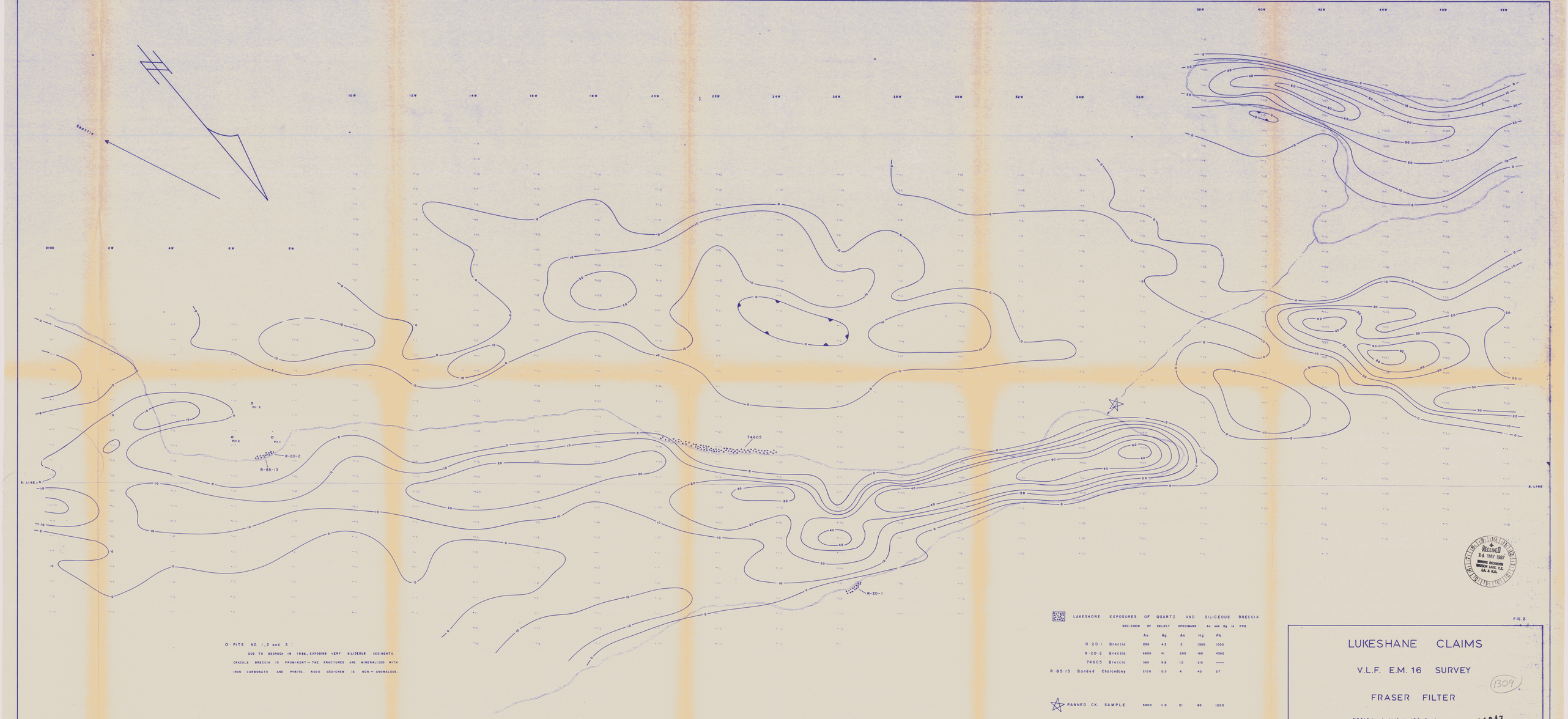

O - PITS NO. 1, 2 and 3 :
DUG TO BEDROCK IN 1986, EXPOSING VERY SILICEOUS SEDIMENTS. CRACKLE BRECCIA IS PROMINENT — THE FRACTURES ARE MINERALIZED WITH IRON CARBONATE AND PYRITE. ROCK GEO-CHEM IS NON — ANOMALOUS.

LAKESHORE EXPOSURES OF QUARTZ AND SILICEOUS BRECCIA

GEO-CHEM OF SELECT SPECIMENS : Au and Hg in PPB

		Au	Ag	As	Hg	Pb
R-20-1	Breccia	250	4.3	2	1350	1000
R-20-2	Breccia	6800	41	250	180	4360
74605	Breccia	365	5.8	10	215	—
R-85-13	Banded Chalcedony	2100	0.5	4	40	27
	PANNED CK. SAMPLE	5400	11.0	21	80	1200

FIG. 2

LUKESHANE CLAIMS

V.L.F. E.M. 16 SURVEY

FRASER FILTER

(1309)

SCALE : 1 inch = 100 feet

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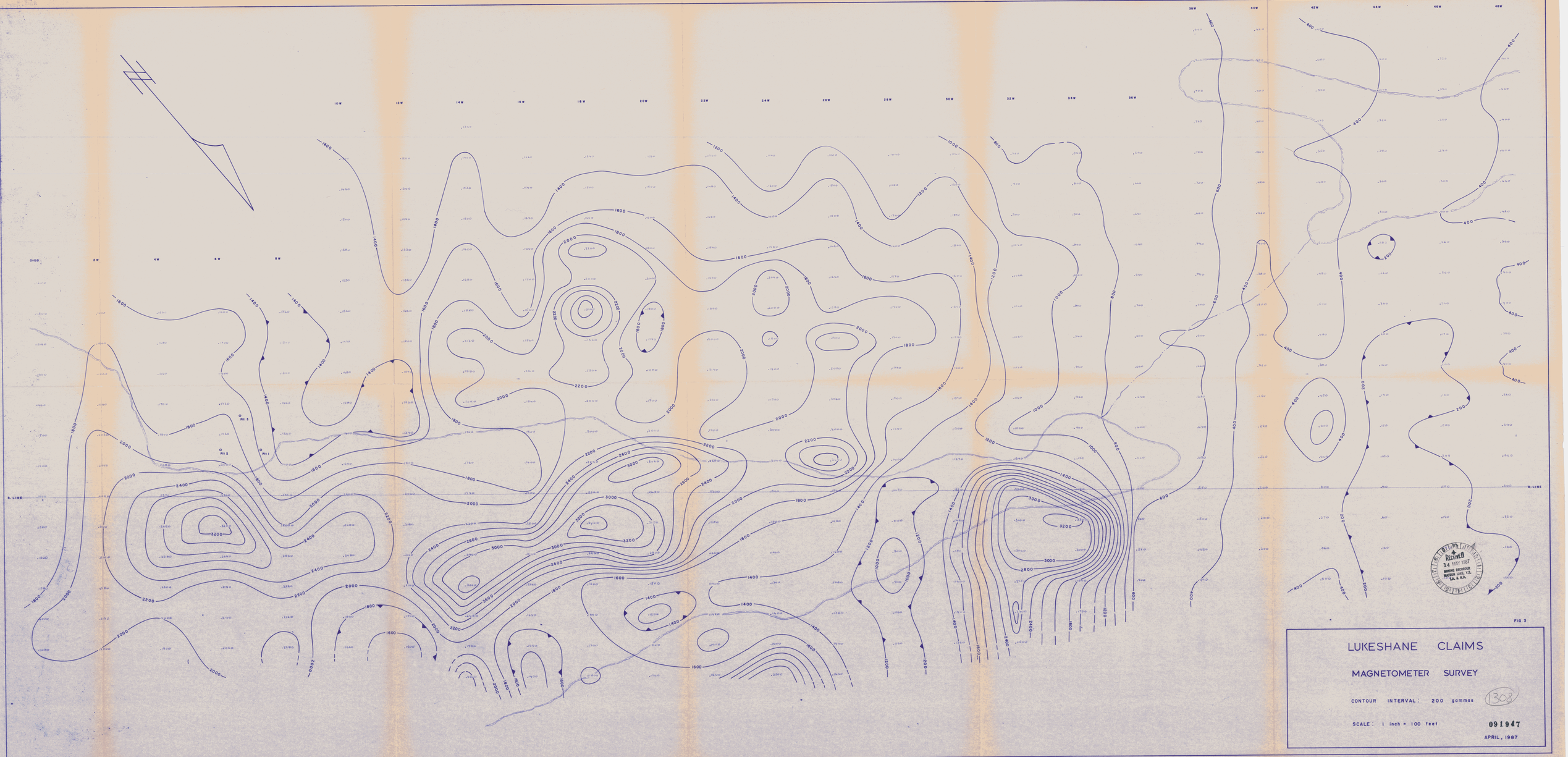
APRIL, 1987


B. LINE
B. LINE
FIG 3
RECEIVED
14 MAY 1987
MINING RECORDER
WATSON LAKE, Y.T.
LUKESHANE CLAIMS
MAGNETOMETER SURVEY
CONTOUR INTERVAL: 200 gammas
SCALE: 1 inch = 100 feet
APRIL, 1987
1302
091947

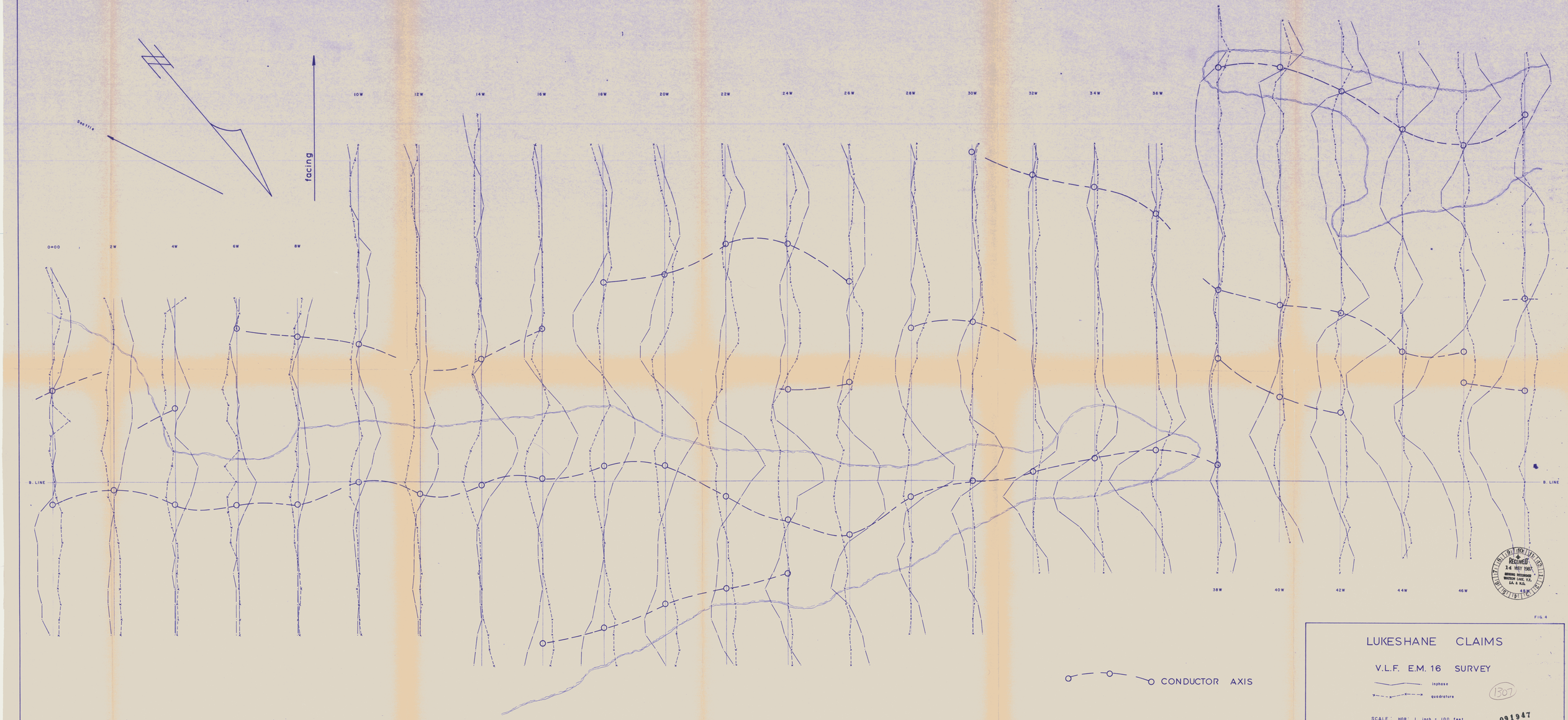


FIG. 4

LUKESHANE CLAIMS

V.L.F. E.M. 16 SURVEY

inphase

quadrature

(1307)

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SCALE: HOR: 1 inch = 100 feet
VERT: 1 inch = 20 %

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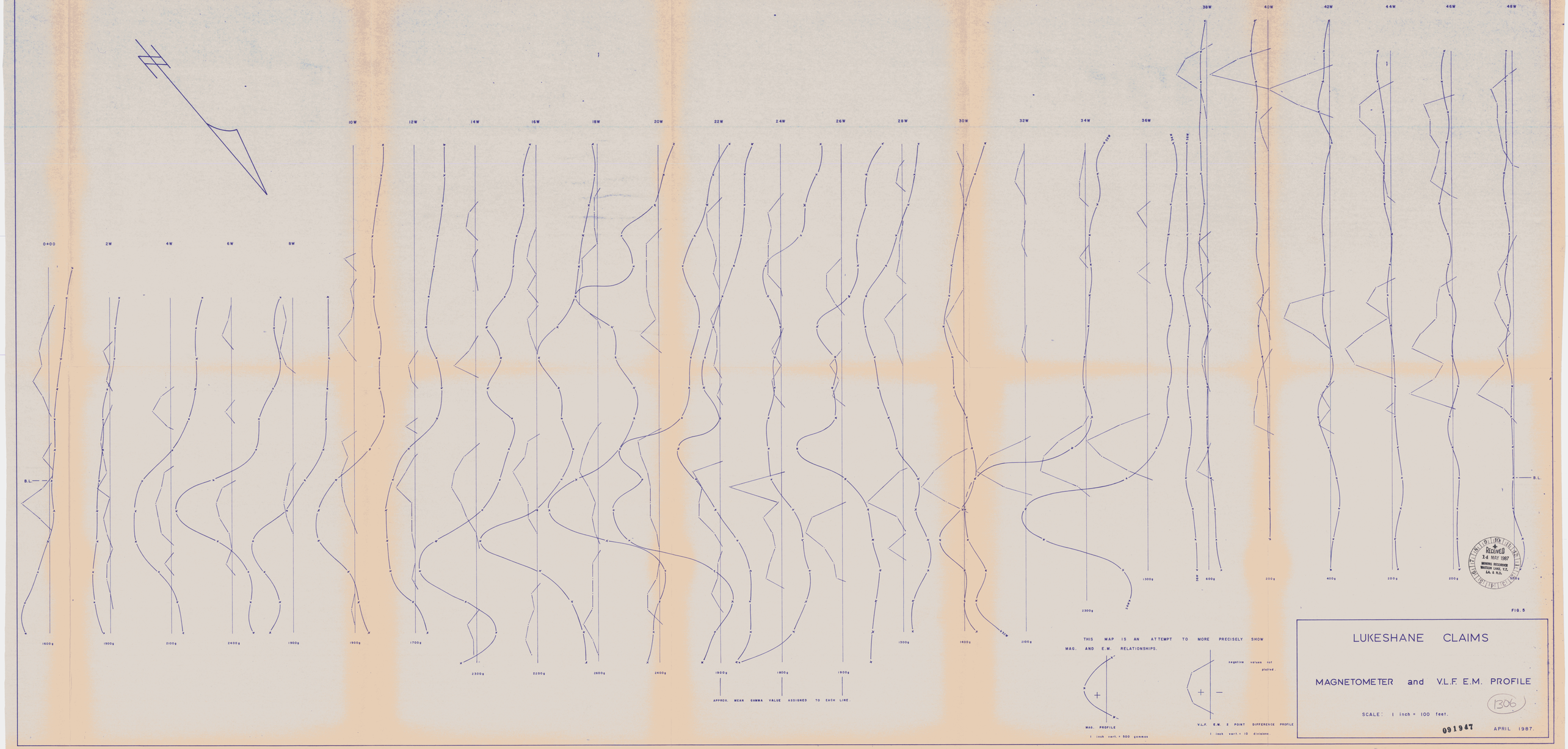

FIG. 5

THIS MAP IS AN ATTEMPT TO MORE PRECISELY SHOW MAG. AND E.M. RELATIONSHIPS.

LUKESHANE CLAIMS

MAGNETOMETER and V.L.F. E.M. PROFILE

(1306)

SCALE: 1 inch = 100 feet.

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APRIL 1987.