

104-I 07

GEOPHYSICAL REPORT ON
CRY LAKE AREA
TURNAGAIN RIVER, B. C.

Vanc. B.C.
Dec./69

S. Presunka

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ON
CRY LAKE AREA
TURNAGAIN RIVER, B. C.

P. N. 145

Vancouver, B. C.

December, 1969

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MAP INDEX - TURNAGAIN RIVER, B. C.

/ 1.	TG 1-A/69	Group 1, 2, 3, and 4	Scale 1" to 1320'
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/ 3.	TG 1-C/69	Mag. contours on topographical plan	" 1" to 1320'
/ 4.	SP 1/69	Grid # 1 - Grid plan	" 1" to 500'
/ 5.	SP 2/69	Grid # 2 - Grid plan	" 1" to 500'
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Vancouver, B. C.

December, 1969

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CRY LAKE AREA

TURNAGAIN RIVER, B. C.

The airborne geophysical results of Cry Lake Area Survey (Turnagain River, B. C.) carried out by Scintrex in 1969 indicated numerous E.M. conductors as well as magnetic anomalies over the entire claim group. In order to narrow down the targets for the ground geophysical work for 1970, correlation was made with the previous ground work over sulphide zones.

As the airborne work showed the entire claim group anomalous, it was necessary to narrow down targets and work on them in their order of preference. Four targets were selected for a start. Should this prove successful then more targets would be selected.

The four targets selected require approximately 60 line miles of ground work. This would consist of magnetometer M.F.1, Ronka M-IV, with some E.M.-16 in the more rugged terrain.

The four selected areas are located on to the topographical map as well as on the mosaic, scale 1" to 1320'. The airborne anomalies and previous ground geophysical anomalies are also located on the same maps. Claim boundaries are drawn in on the same plan.

It's very likely that a portion of grid No. 2 (west of Horse Trail Grid) may lie outside the claim group. To geophysically check out areas outside the claim group, it would be necessary to carry out surveys by pace and compass method. There is a possibility, however, that some of this ground is now open for staking.

In areas of interest, where overburden is suspected to be in excess of 75 feet, Ronka M-IV using 300 foot cable separation, should be used.

1. HORSE TRAIL GRID - (Extension)

Extend B.L. from 4400 W. to 7400 W. = 3000'	.6 mile
Lines every 200' - 1000' N. = 15,000'	3.0 miles
15 lines - 3500' S. = 52,500'	<u>10.0 miles</u>
Total	13.6 miles

3 men = 8 days

Geophysical Survey -

Magnetometer - M.F.1 =	
E.M.-M=IV =	24 man days
Some E.M.-16 =	

From line 36 W. to 74 W. = 19.0 miles

Line cutting extra

2. WEST HORSE TRAIL GRID (This ground not certain for claim location)

Extend B.L. from 7400' W. to 15,000' = 7600'	1.46 miles
Lines every 200' = From B.L. 10,000 W. to 15,000 W. = 5000' = 25 lines	
25 lines of 3500' = 7500' =	16.3 miles
Magnetometer and M=IV and some E.M.-16	<u>1.46 miles</u>
	17.76 miles

3 men = 8 days
24 man days

Line cutting extra

3. FAR EAST GRID - From 62+00 E. to 92+00 E. = 3000 feet.

Lines every 200' = 15 lines	
5 lines 2000' S. - B.L. 6200 to 7200	= 10,000'
5 lines 4000' N. - B.L. 6200 to 7200	= 20,000'
10 lines 2000' N. - B.L. 6400 to 7200	= 20,000'
10 lines 2000' S. - B.L. 6400 to 7200	= <u>20,000'</u>

Magnetometer, E.M.-16 and some M-IV

3. FAR EAST GRID (Con't)

(Rough terrain)	Total	= 70,000' = 13.0 miles
	plus 3000' B.L.	= 13.6 miles
		= 24 man days

Line cutting extra

4. EAST GRID - B.L. 1600 E. to 4600 E. = 3000'

Lines every 200'

6 lines B.L. 1800 to 2800 - 2000' N. = 12,000'

4 lines B.L. 1800 to 2400 - 1000' S. = 4,000'

6 lines B.L. 3000 to 3600'--4000' N. = 24,000'

4 lines B.L. 3800 to 4400'- 2000' N. = 8,000'

4 lines B.L. 3800 to 4400'- 500' S. = 2,000'

Lines 50,000 feet + B.L. 3000 feet = 53,000 feet = 10.6 miles

Geophysical Work

Magnetometer		4 days
M-IV		5 days
E.M.-16 ?	check only	<u>2 days</u>
		11 man days

Line cutting extra

Total Lines = 60 miles

Geophysical Survey - Magnetometer

M-IV (200' cable)

E.M.-16 (mostly in inaccessible areas)

83 days (man days) = plus mapping time

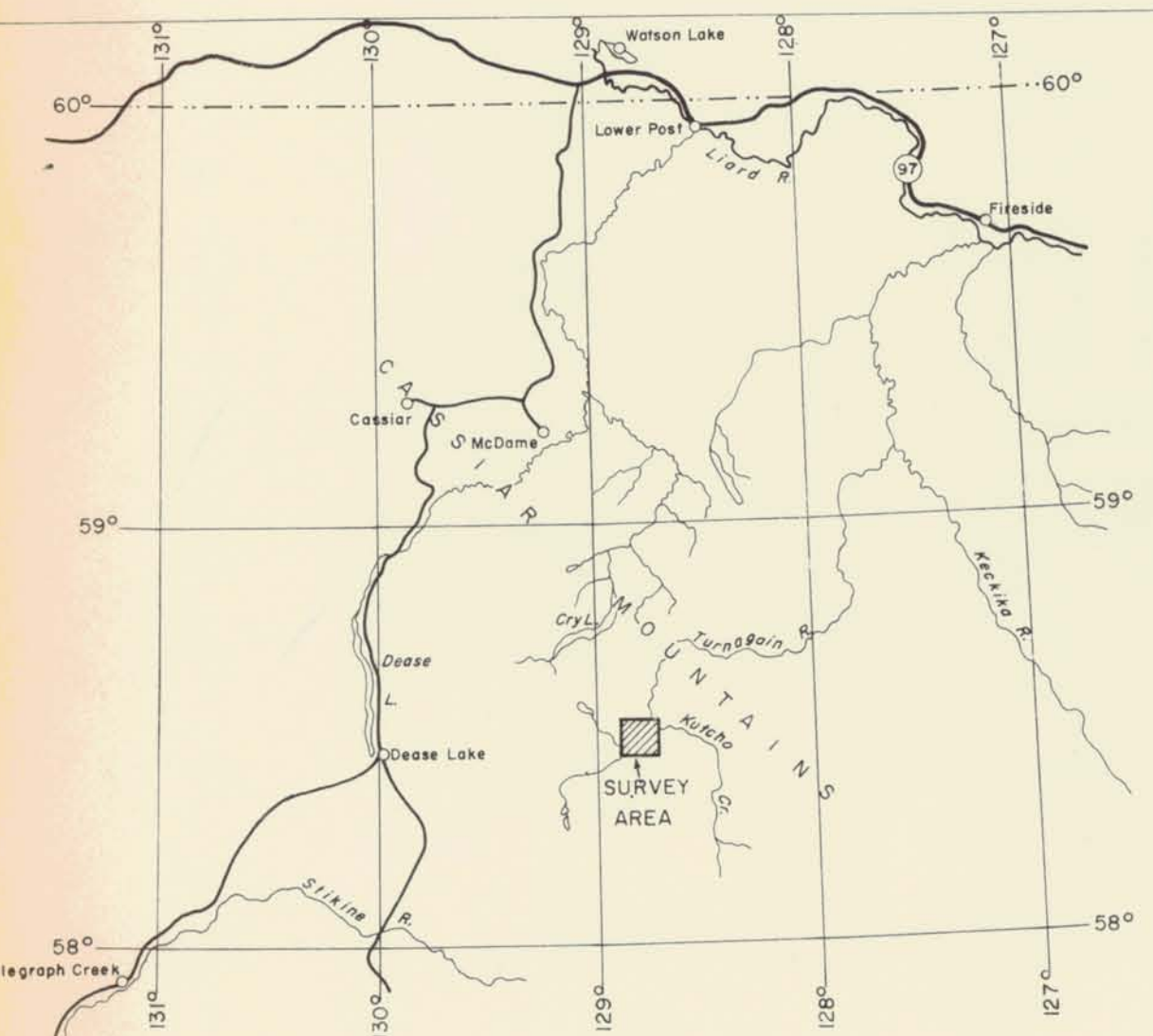
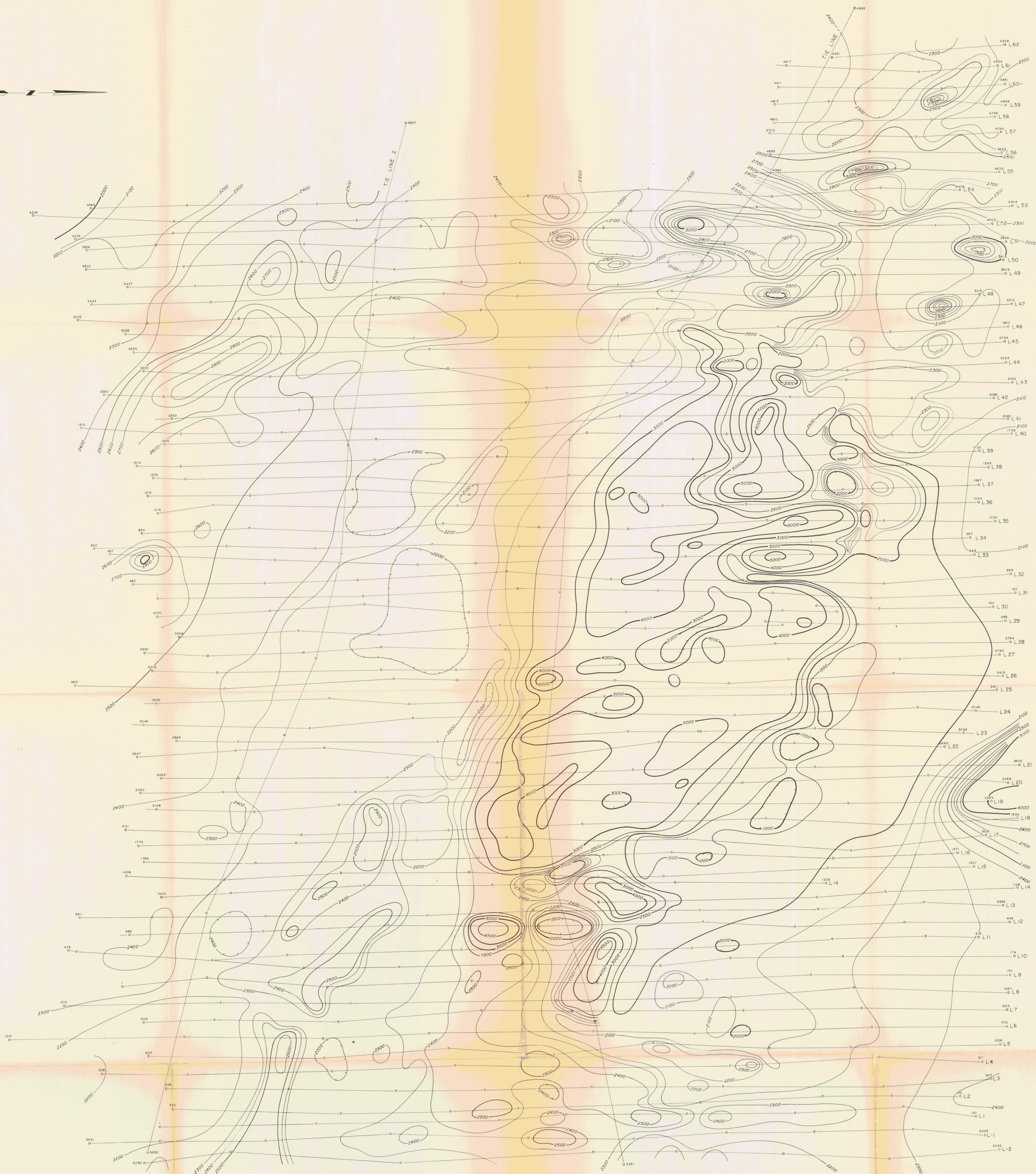
Line Cutting - 60 miles = 100 man days

83 days = \$ 4150.00

8 days mapping = 400.00

\$ 4550.00

S. Presunka



LEGEND

— L.S. — FLIGHT LINE, FLIGHT LINE NUMBER AND NUMBERED FIDUCIAL POINT

— 1000 GAMMA ISOMAGNETIC CONTOUR INTERVAL

— 500 GAMMA ISOMAGNETIC CONTOUR INTERVAL

— 100 GAMMA ISOMAGNETIC CONTOUR INTERVAL

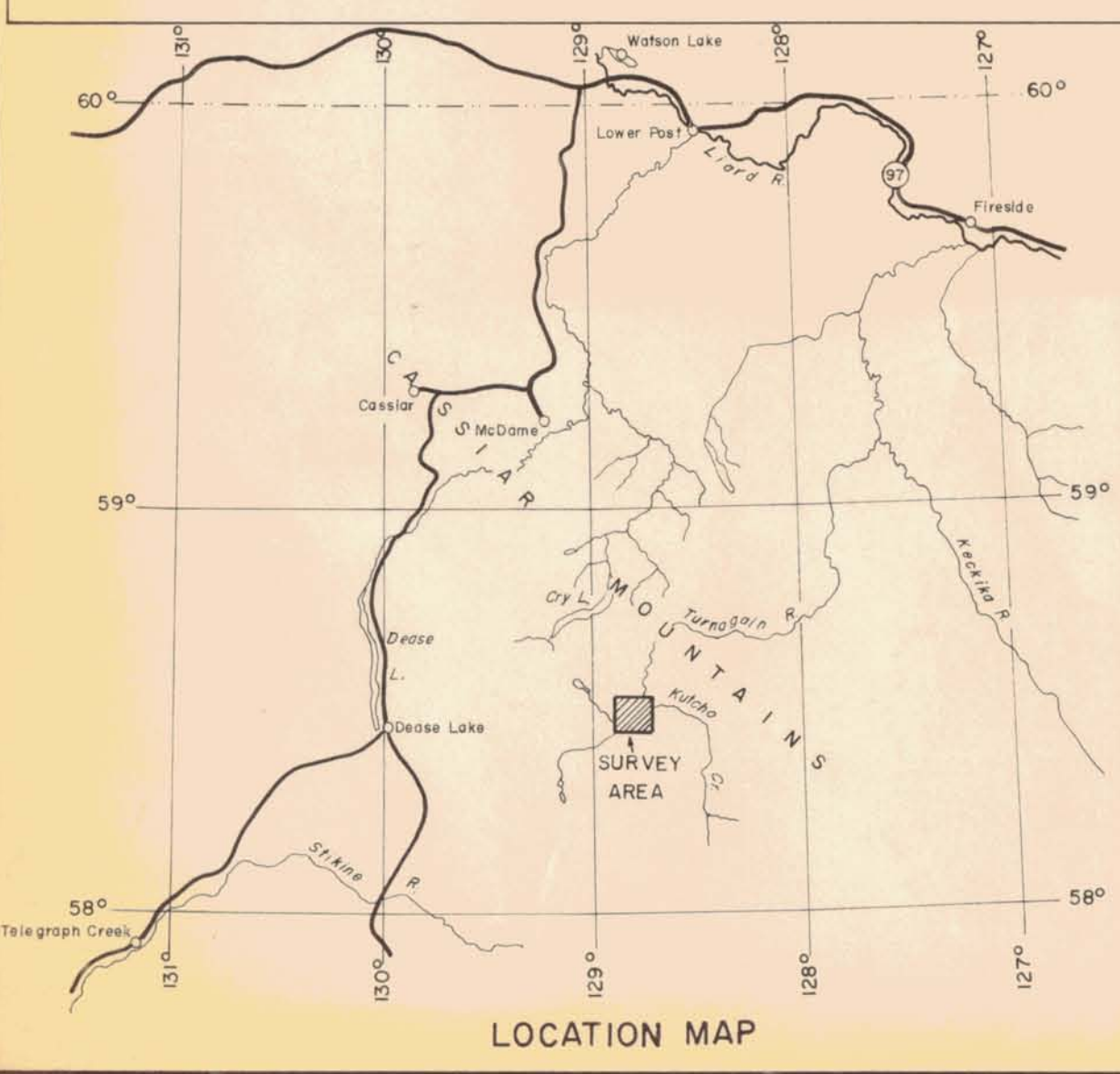
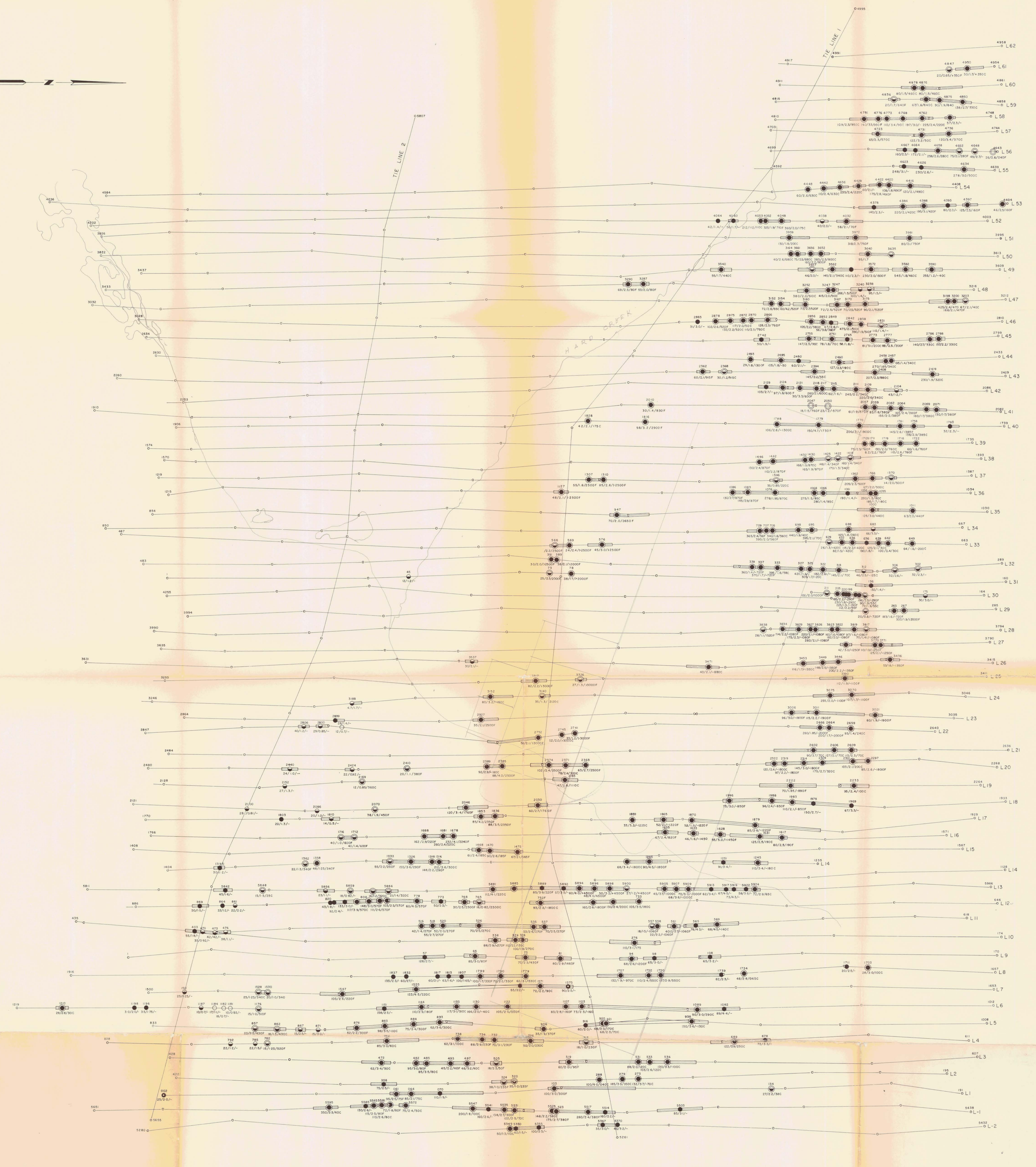
— MAGNETIC LOW

— BASE VALUE ARBITRARY

0417

PLATE I
FALCONBRIDGE NICKEL MINES LTD.
DEASE LAKE AREA, B.C.
AIRBORNE GEOPHYSICAL SURVEY
MAGNETOMETER CONTOUR PLAN
NPM - I

SCALE: 1" = 1320'
SURVEY BY SEIGEL ASSOCIATES LIMITED
FLOWN AND COMPILED AUGUST, 1969
AIRCRAFT TERRAIN CLEARANCE 500'
FLIGHT LINE SPACING 600'



LEGEND

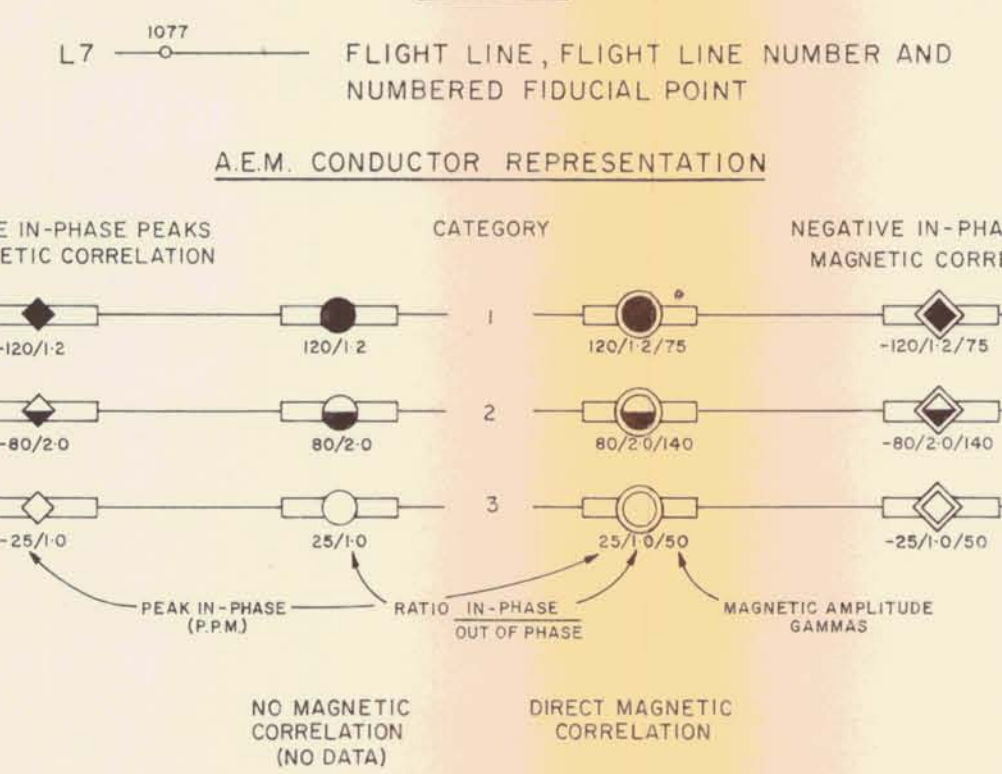
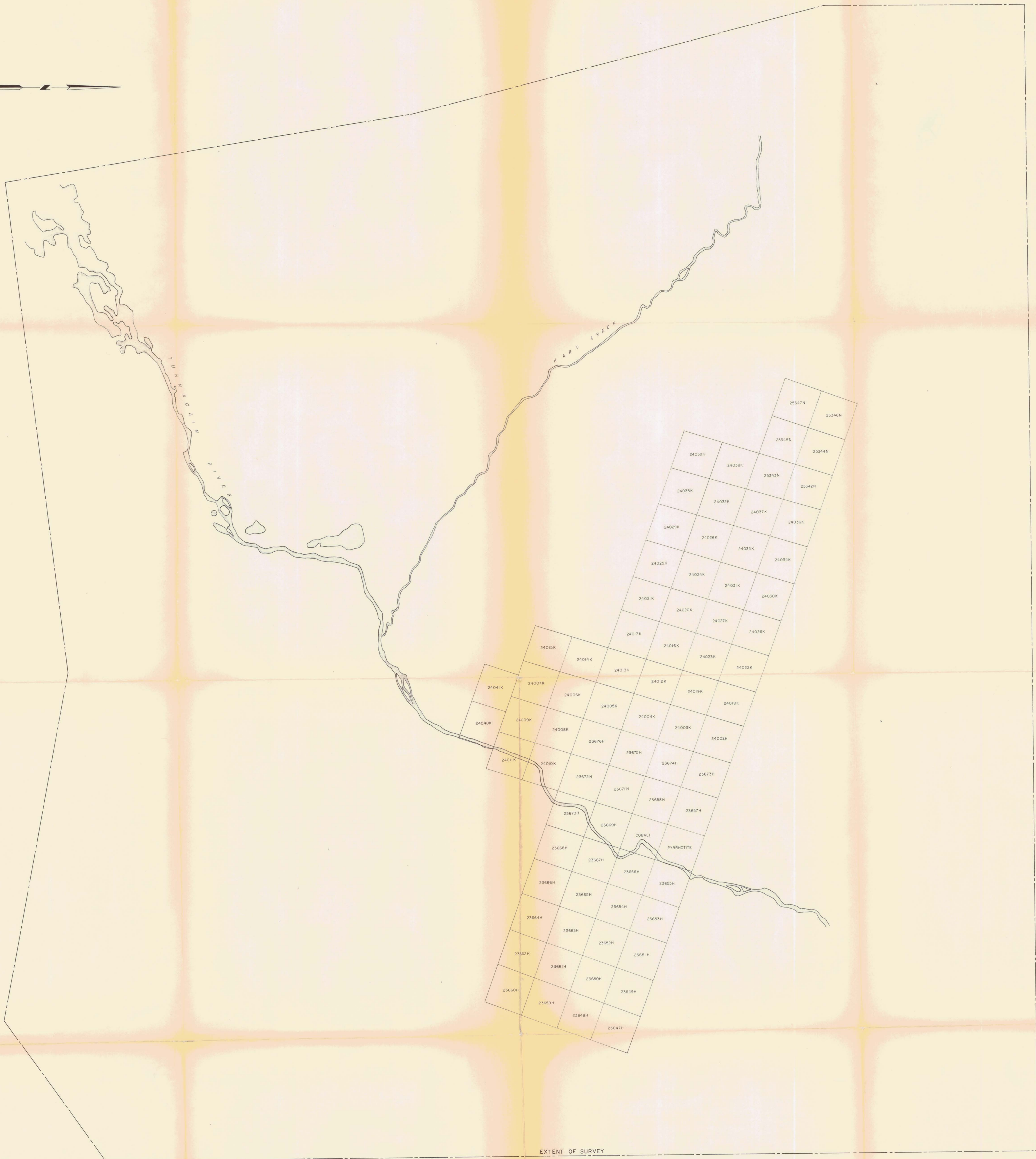
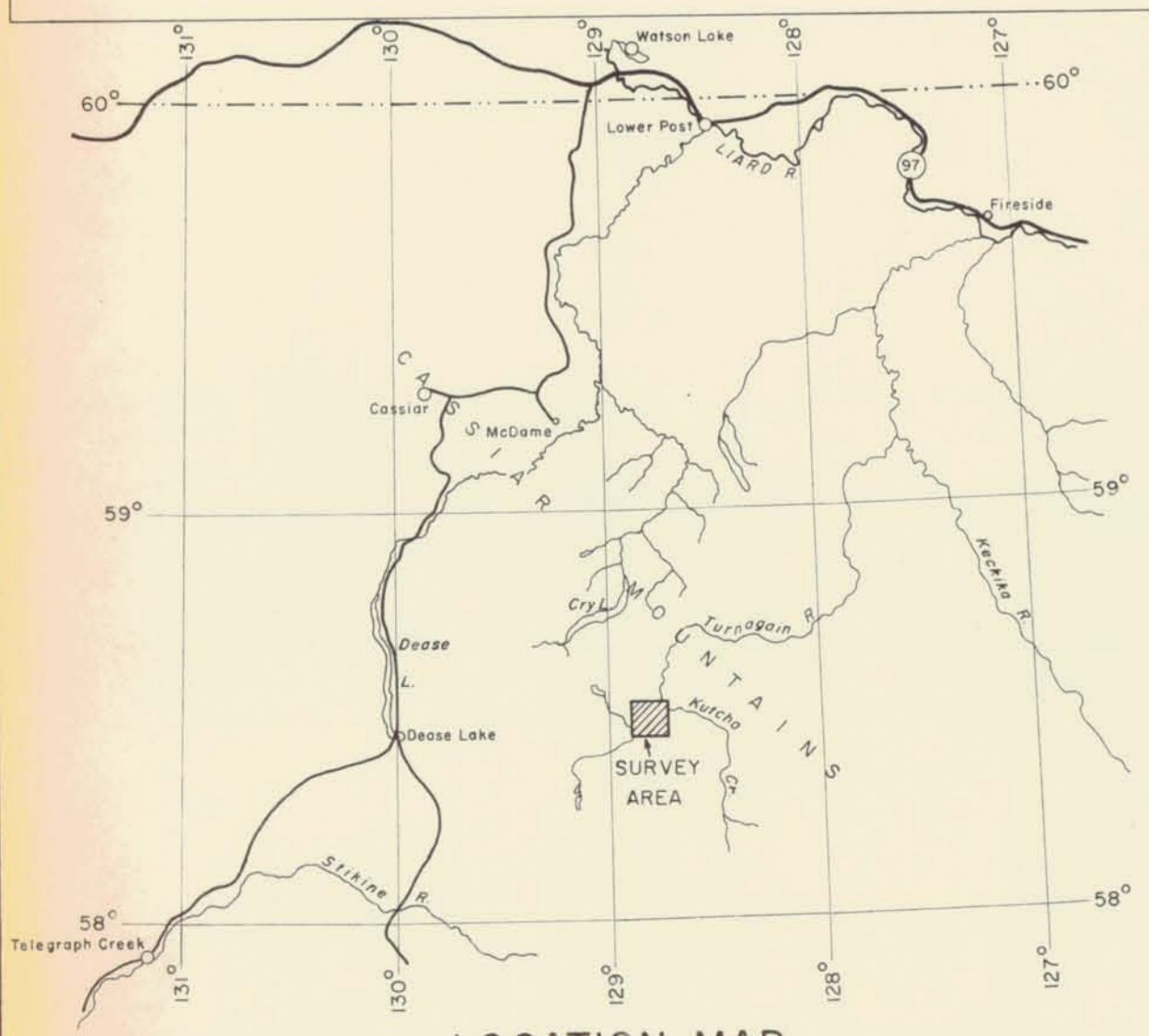


PLATE 2
FALCONBRIDGE NICKEL MINES LTD.
 DEASE LAKE AREA, B.C.
AIRBORNE GEOPHYSICAL SURVEY
 E. M. CONDUCTORS
 HEM-701
 SCALE: 1" = 1320'
 SURVEY BY SEIGEL ASSOCIATES LIMITED
 FLOWN AND COMPILED AUGUST, 1969
 AIRCRAFT TERRAIN CLEARANCE 500'
 FLIGHT LINE SPACING 600'

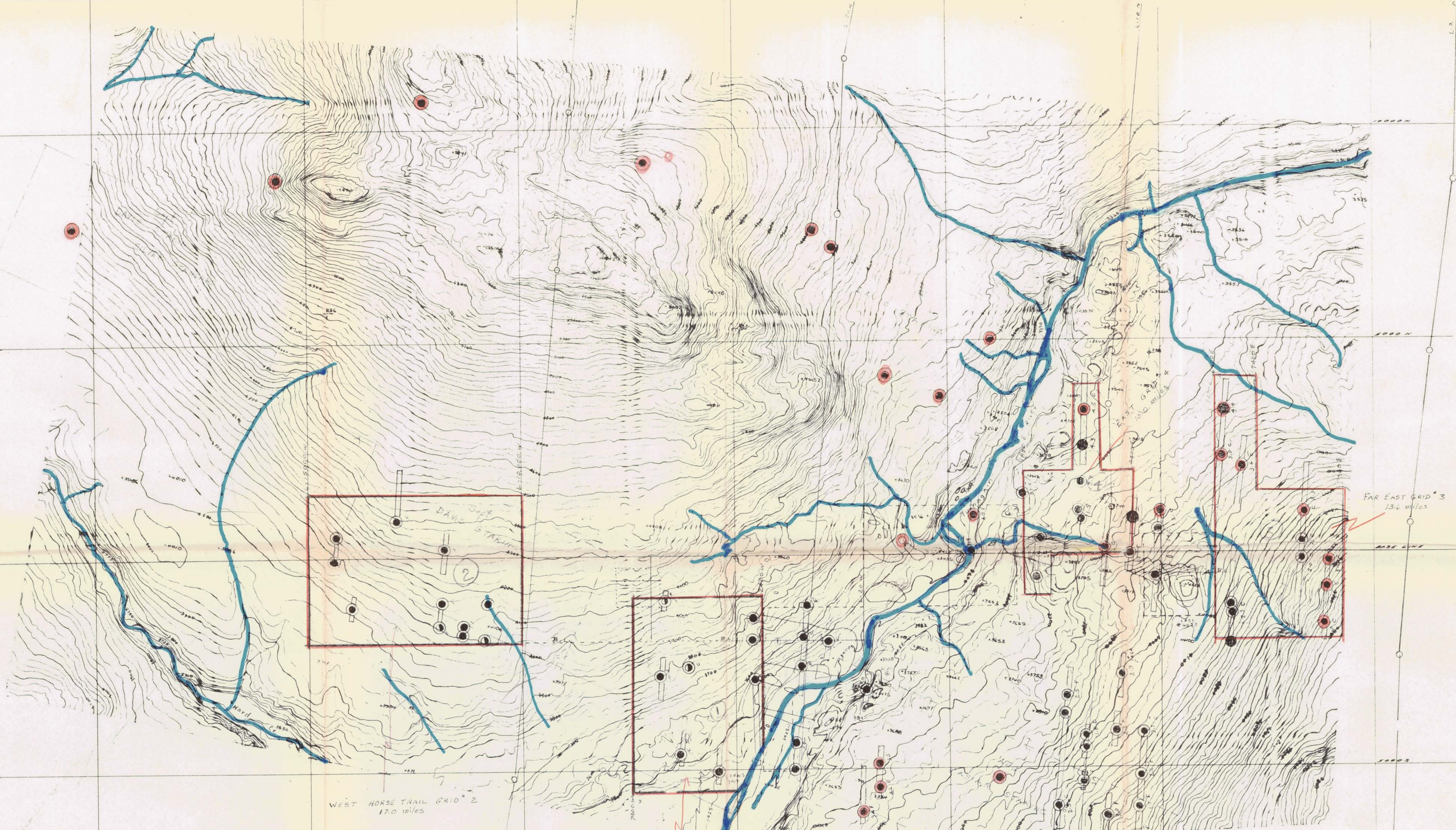


EXTENT OF SURVEY



LOCATION MAP

PLATE 3
FALCONBRIDGE NICKEL MINES LTD.
DEASE LAKE AREA, B.C.
AIRBORNE GEOPHYSICAL SURVEY
CLAIMS PLAN
SCALE: 1" = 1320'
INTERPRETATION BY SEIGEL ASSOCIATES LIMITED
SURVEY BY SEIGEL ASSOCIATES LIMITED



TURNAGAIN RIVER AREA
 MAP BY LOCKWOOD REF 109 17
 SCALE 1 INCH = 1000 FEET



TG 1-A/69
 MAP T.G. 5-66

WEST HORSE TRAIL GRID # 2
 17.0 miles

HORSE TRAIL GRID # 1
 13.6 miles to cut
 19.0 Geophysical Survey

FAR EAST GRID # 3
 13.4 miles

- NAR AREAS
- A EAST SHOWING
 - B DISCOVERY SHOWING
 - C HORSETRAIL SHOWING

- ANOMALOUS AREA
- SCHIST
- PERidotite

Prospect
 Inphase Ratio 3.0 or better
 Outphase



TURNAGAIN RIVER AREA
 MAP BY LOCKWOOD REF 10917
 SCALE 1 INCH = 1000 FEET



TG 1-B/69
 MAP T.G. 3-66

- MAP AREAS
- A EAST SHOWING
 - B DISCOVERY SHOWING
 - C NORSETRAIL SHOWING
 - M-W CONDUCTIONS
- ANOMALOUS AREA
 - SCHIST
 - PERidotite

L-15,000 W

L-14,500 W

L-14,000 W

L-13,500 W

L-13,000 W

L-12,500 W

L-12,000 W

L-11,500 W

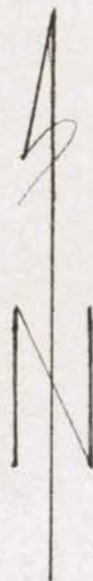
L-11,000 W

L-10,500 W

L-10,000 W

L-7,500 W

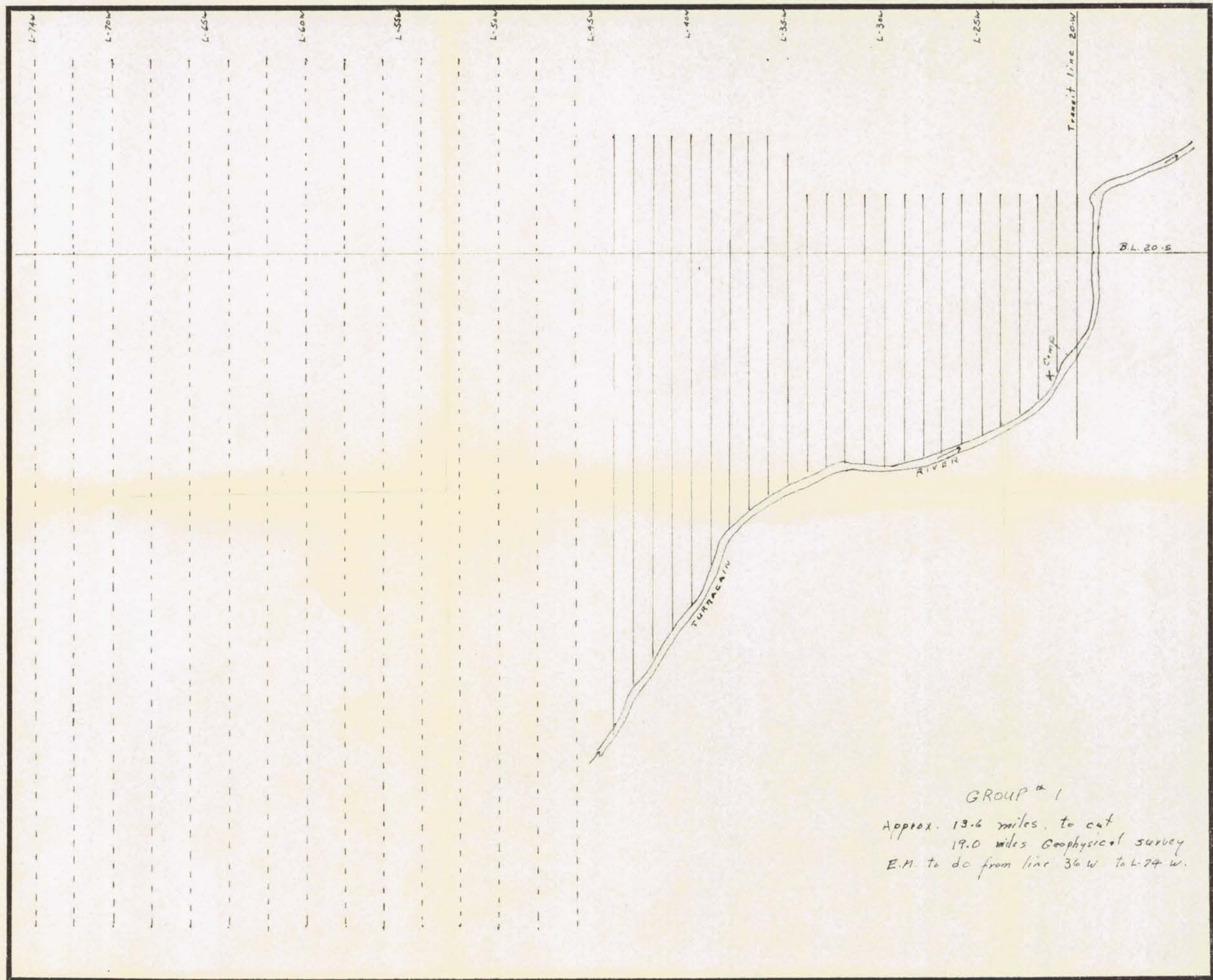
B.L. 20.5



TURNAGAIN RIVER (West of Horse Trail Grid)
GRID # 2 B.L. 10,000 W To 15,000 W
Scale 1" = 500' Dec. 1969
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SP2/69

GRID # 2
Lines every 200' from 1500 N to 3000 S
17.7 miles



MAP REF. No.: S.P. 1/69
 N.T.S.:

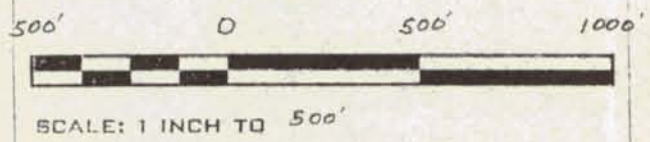
Estim. Pl. 44W to 74W = 3000' x 1/4 mi
 Lines every 200' 1000 W x 15000 = 8 miles
 15 lines 2500' x = 52500 2.6 miles
 13.6 miles

From line 36 W to 74 W
 Geophysical - Magnetometer M-1 19.0
 E.M. - M-14
 E.M. - 16



FALCONBRIDGE NICKEL MINES LTD.
 PROPERTY: TURNAGAIN RIVER
 LOCATION: HORSE TRAIL GRID

TYPE OF MAP:
 BASED ON:
 DATE OF WORK:
 DATE: Dec - 1969
 DRAWN BY: S. Presenka



GROUP # 1
 Approx. 13.6 miles to cut
 19.0 miles Geophysical survey
 E.M. to do from line 36 W to L-74 W.

L-1000 E

L-1500 E

L-2000 E

L-2500 E

L-3000 E

L-3500 E

L-4000 E

L-4500 E

L-5000 E

L-5500 E

L-6000 E

L-6500 E

L-7000 E

L-7500 E

L-8000 E

L-8500 E

L-9000 E

L-9500 E

L-10,000 E

BL. 0

BL 500 S

GRID # 4
BL. 1000 E TO 4500 E
Approx. 100 miles



TURNAGAIN RIVER (EAST GRID)
GRIDS 3 AND 4
Scale 1" = 500 feet
Dec. 1969 S. Prasadha.

GRID # 3
BL. 6400 E TO 9200 E
Approx. 13.6 miles

SP3/69