~~N.T.S. 92-H~~
N.T.S. 82-E-2

REPORT

ON

RONKA E.M.-16 TEST

GREENWOOD AREA
B. C.

MINING DIVISION

Vancouver, B.C.
November 5/66 S. Presunka

REPORT
ON
RONKA E.M. 16 TEST

Mr. J. McDougall and myself, drove out to Greenwood Area for the purpose of checking E.M. 16 on low grade copper deposits in this area.

Mr. E. Angus, who is with McIntyre for that area,and myself checked the four properties in Greenwood area. First property, known as San Jacinto and adjoining the Phoenix property, we ran two lines using three U.S.A. stations, 18.6 k.c., 17.6 k.c. and 24.0 k.c. On both lines, cross-overs were picked up. Using 24.0 k.c., which is best for this area, because the field is at right angle to strike and also of higher frequencies being more sensitive the cross-over's were much stronger. So, using 18.6 k.c. which is Seattle, and the 24.0 k.c. (don't know where this one is) conductors could be picked up. Using two frequencies more or less at right angle (24.0 and 18.6 being closest to right angle to each other) faults, contacts and shears could be picked up.

Phoenix open pitnwas best example of the four tested. The peak of anomally picked up and from one line by using two stations strike could roughly be recognized. The mineralized zone picked up in open pit is sketch particularly to the south end of the pit. One zone in the north end around the old seems to be a conductor bue due to power lines it's hard to say for certain. Again 24.0 and 18.6 used were best for this area.

On San Jacinto Ex. property of Mr. McArthur we ran two lines using 24.0 and 18.6. Anomalies picked up but station best for this area could not be used effectively, (24.0) because of interference of I.P. being done some 400' from us. The E.M. 16 did pick up a cross-over in vicinity of workings. Also on line 44 on other side of B.L. a conductor seems to be paralelling.

E.M. 16 on Greyhound Property picked up a cross-over over the ridge not far from shaft as shown on E.M. 16 map. The south line where we thought should be the zone only small parallel conductors picked up, (shown on map) and a cross-over close to end of line.

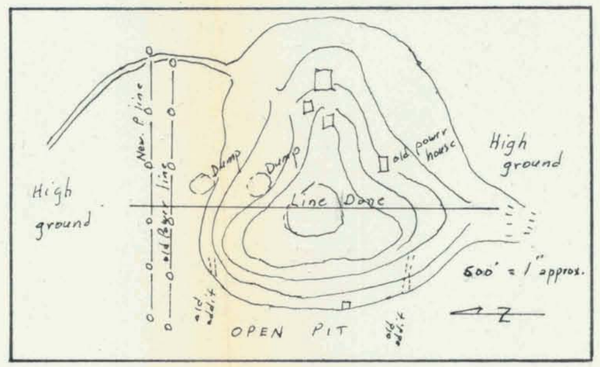
The E.M. 16 after some practice could be of much use in Greenwood area. The expense would be at a minimum because of low operating cost. Pace and compass reconnaissance survey could be done and area of importance detailed.

Use of old horizontal Mark IV Ronka is a good combination to be used with E.M. 16 to check out and getting more information about the conductors.

Steve Presunka

Steve Presunka

November 5, 1966



Same line but using two different frequencies

Pace and Compass

Old Power line in service

Dump

Bench

Cross over

Road

Dump

Cross over

Bench

Bench

visible chalco in blasted rock

up steep side of open pit
Blasted area
visible chalco

Conductor Area

using 24.0

L-N.S line — across open Pit

conductor

conductor

High negative Riding due to field between two lines

Old Rd.

Dump

Bench

Rd.

Dump

cross over

Bench

Bench

visible chalco in blasted rock

Conductor Area

up steep side of open pit
Blasted area
visible chalco

Pace and Compass

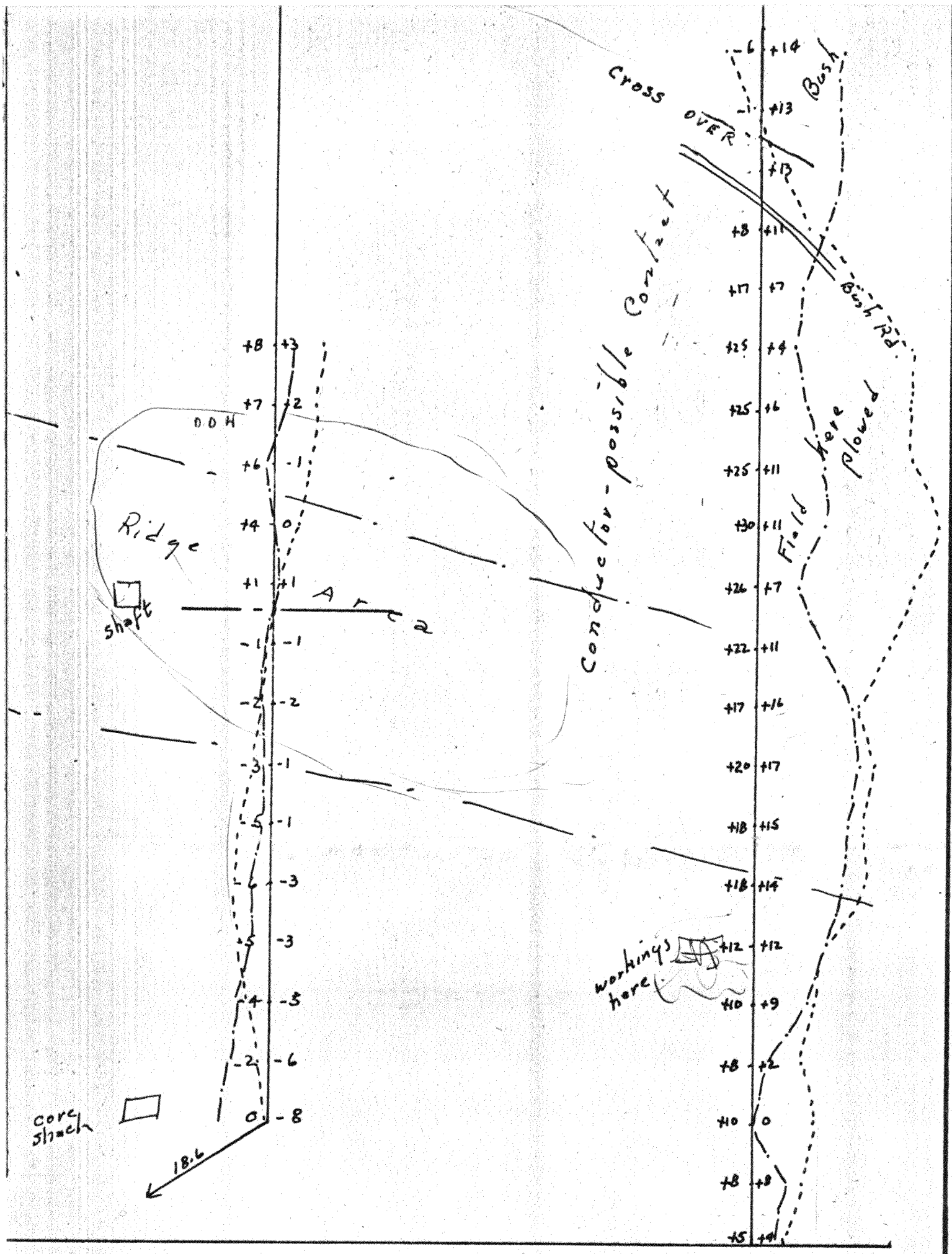
using 18.6

conductor

conductor

No. 1

FALCONBRIDGE NICKEL MINES LTD.,
PHOENIX OPEN PIT - GREENWOOD B.C.
E.M. 16 SURVEY - Pace and Compass
Inphase ------ 1" = 20%
Out of Phase — — —
Scale 1" = 200' Nov. 6/1966 S.P.



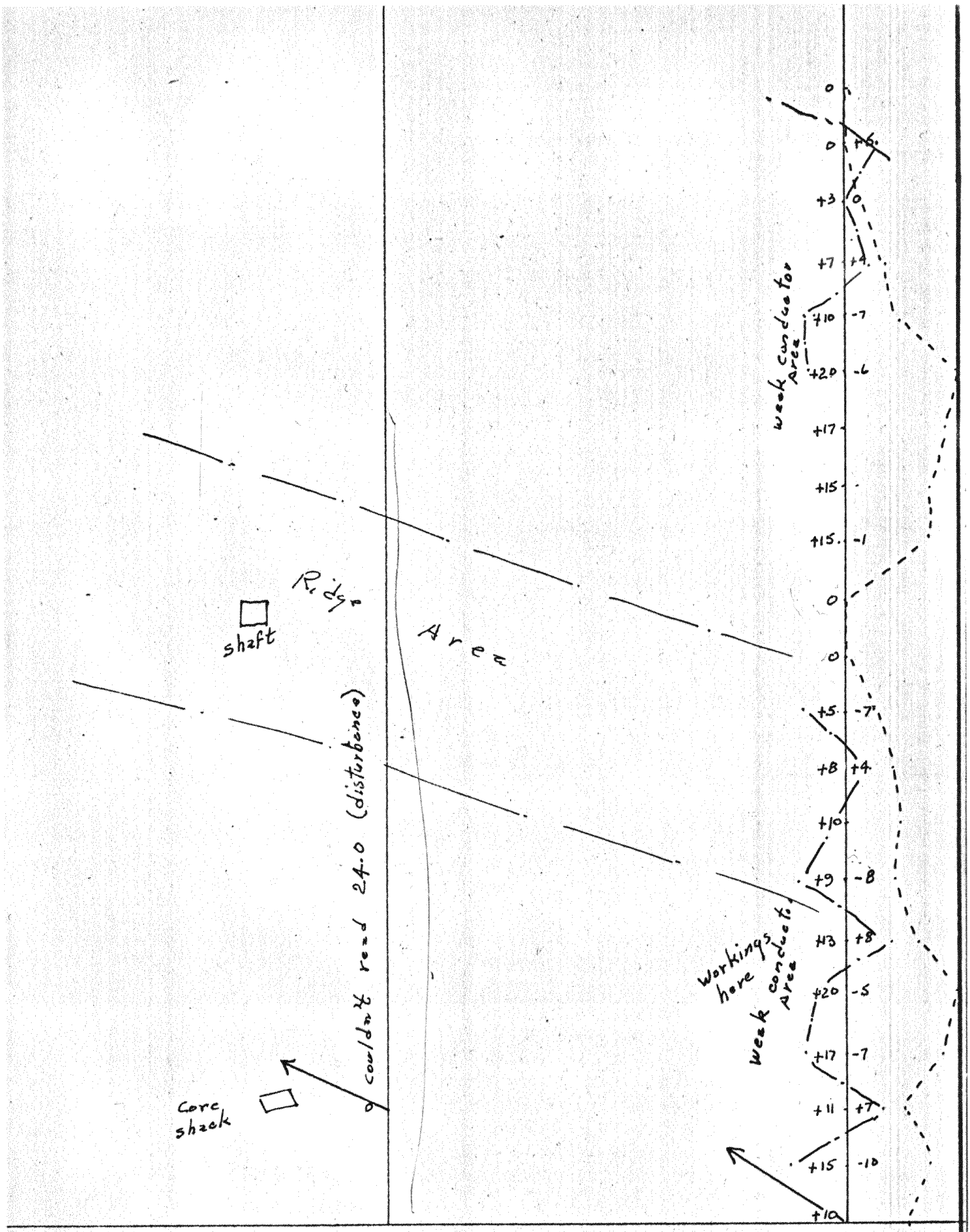
Road to Greenwood ⟶

No. 3

FALCONBRIDGE NICKEL MINES LTD.,
GREYHOUND PROPERTY
GREENWOOD AREA B.C.

E.M. 16 Survey - Peace and Compass
Inphase - - - - - - - - - - }
Out of Phase —.—.—.—. } 1" = 20%
Scale 1" = 100' Nov. 7/66 S.P.

18.6



No. 3-A

FALCONBRIDE NICKLE MINES LTD.,
GREYHOUND PROPERTY
GREENWOOD AREA B.C.

E.M. 16 Survey Pace and Compass

In phase - - - - - . - - - - -
Out of Phase — . — . — . } 1" = 20%

Scale - 1" = 100' Nov. 7/1966 S.P.

Out of phase Readings V. noisey

40

Same line

+3	+14	-10	+11
+2	+18	-15	+2
0	+14	-15	+10
-1	+18	-6	-2
-2	+15	-7	+3
0	+15	-6	+6
+2	+12	-3	+2
+1	+11	-6	+2
+1	+13	-5	+2
+3	+13	-10	+5
+5	+9	-12	+7
+2	+14	-15	+6
0	+8	-15	+6
-2	+10	-20	+8
0	+10	-10	+12
+5	+11	+15	+5
+2	0	+12	+4

Conductor

Cross over

B.L.

Direction of induced field

L-0

L-0

Direction of field

17.8 K.C.

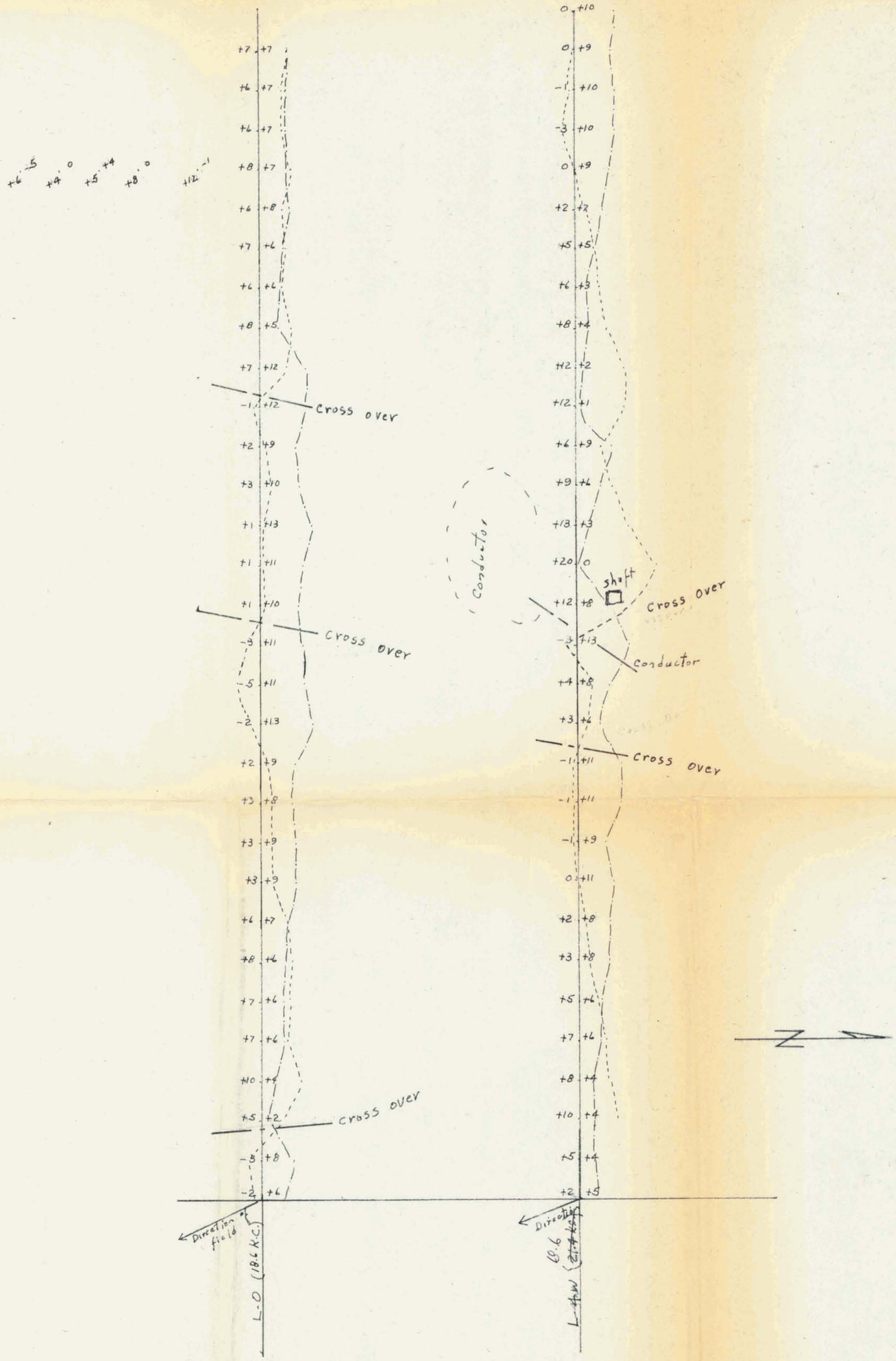
No. 2-B

24.0 K.C.

24.0 is best for this particular grid
18.6 is good 5T. to use with 24.0

FALCONBRIDGE NICKEL MINES LTD.
SAN JACINTO Ex
GREENWOOD B.C.

E.M.16. In phase ------ } 1" = 20%
Out-of-phase .—.—. }
Scale 1" = 100' Nov. 6/1966 S.P

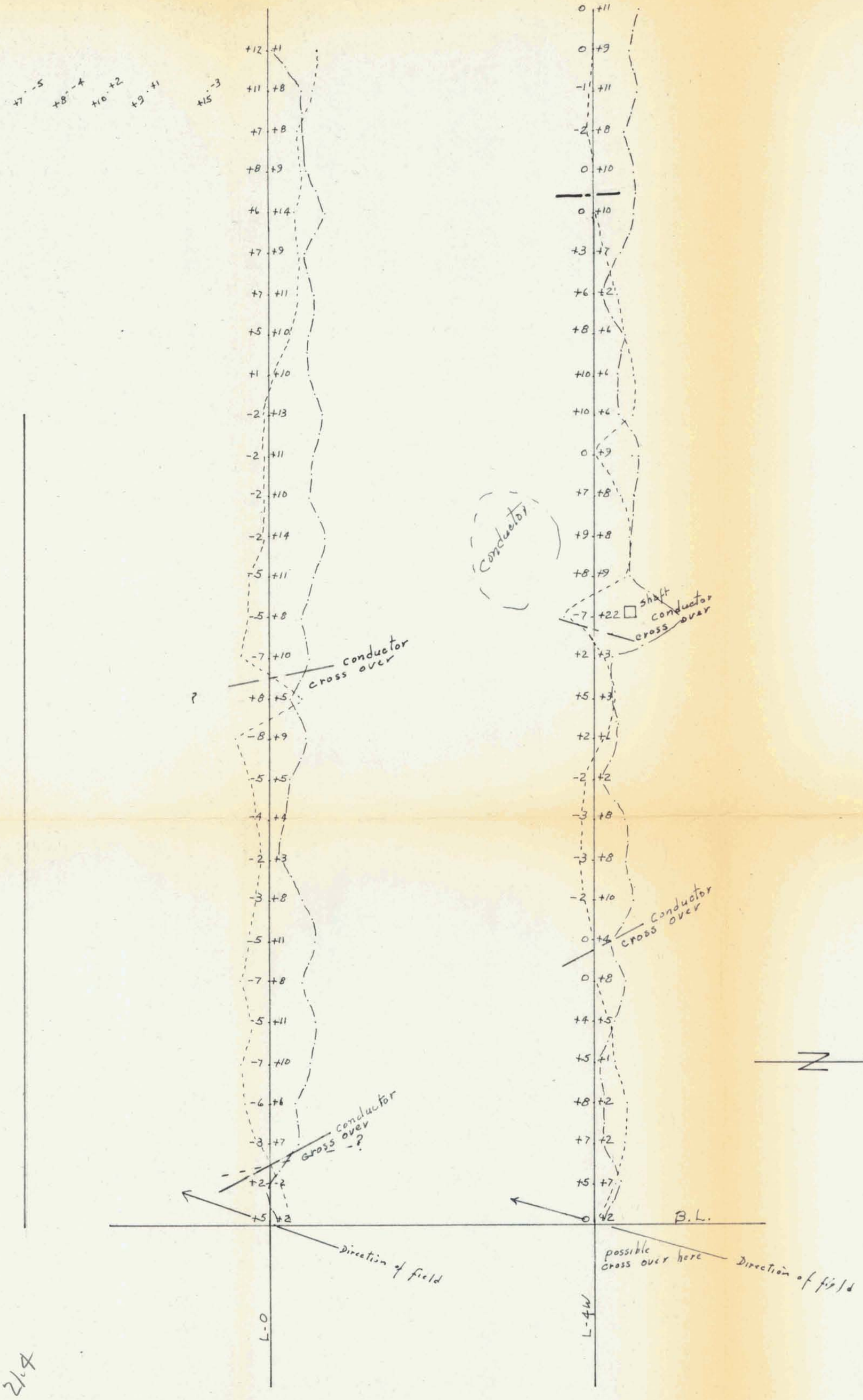


18.6

No. 2

FALCONBRIDGE NICKEL MINES LTD.,
SAN JACINTO EX.
GREENWOOD B.C. 18.6

E.M. 16 Pace and Compass Survey
Inphase - - - - - - - - - - - -
Out-of Phase . — . — . — . } 1" = 20'
Scale 1" = 100' Nov. 6/1964 S.P.



21.4

No. 2-A

FALCONBRIDGE NICKEL MINES LTD.,
SAN JACINTO EX.
GREENWOOD B. C. 21.4

E.M.16 Pace and Compass Survey
Inphase - - - - - - - - - - }
Outphase . — . — . — . — } 1" = 20%
Scale 1" = 100' Nov. 6/1966