3017

GEOPHYSICAL REPORT

ELN GROUP

Similkameen MD

49° 120° N.E.

92H / 9W

CONTENTS

#6 Eln Group

INTRODUCTION

An Induced Polarization survey has been carried out on the ELN group. This property is located east of Summers Creek and about 10 miles NNE of Princeton. It is owned by Canwex Explorations Ltd. (N.P.L.). Field work was carried out on April 20, 21, 22 and 23, 1971, by a crew from McPhar Geophysics Limited under the supervision of the author. Work was carried out on claims ELN 1, 2, 3 and 4.

INSTRUMENTATION

A McPhar variable-frequency I.P. unit was used. The Sender supplied a preset constant current that is applied to the ground through two electrodes. The voltage between two potential electrodes is passed into the Receiver. A meter is nulled at one frequency and gives a direct reading of the percent frequency effect at a second frequency. From the applied current and received potential, the apparent resistivity of the medium may be calculated. The metal factor is calculated from the percent frequency effect and apparent resistivity.

FIELD PROCEDURE

The electrodes are in a collinear array, with the current electrodes separated by a distance "a". The

potential electrodes are also separated by a distance "a". The nearest current and potential electrodes are separated by a distance "na" where n = 1, 2 or 3. By varying n, the sender-receiver spacing, one obtains a depth-probing effect, since the effective depth of exploration varies with this spacing. The results are plotted at the intersection between 45 degree diagonal lines drawn from the mid-points of the sender and receiver dipoles. Above the upper reference line are plotted the resistivity values ($\rho_a/2\pi$), below it the metal factor (M.F.). The row of data nearest the reference line corresponds with n = 1 values, the second row n = 2 and the third n = 3. Below the lower reference line are values of Percent Frequency Effect (P.E.).

RESULTS

The results are plotted on the accompanying sectional diagrams for the lines 16W, 24W, 32W, 40W. The locations of these lines are shown on the accompanying Plan of the southern portion of the ELN group. The lines were surveyed using an electrode spacing a = 300 ft. A high frequency of 5 and a low frequency of 0.3 Hz was used. An anomaly occurs at 0-600N on line 16W, 600S to 600N on line 24W, 600S to 900N on line 32W, 600N to 900N on

line 40W. This correlates with an anomaly at 600-900W on the base line, shown by a survey reported on December 8, 1970.

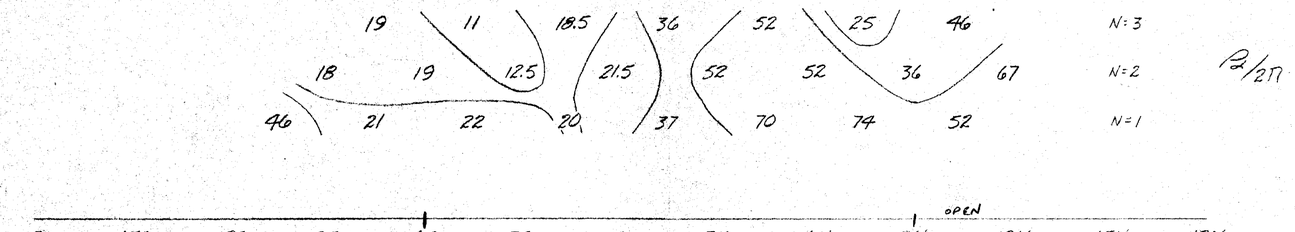
Respectfully submitted,

D. W. SMELLIE, P.Eng.

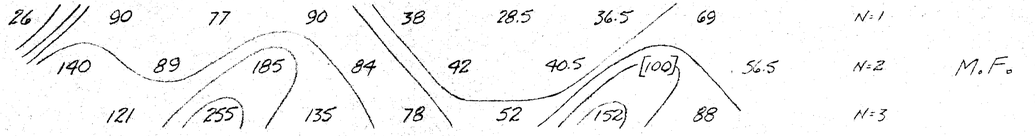
DWS/sd

May 12, 1971

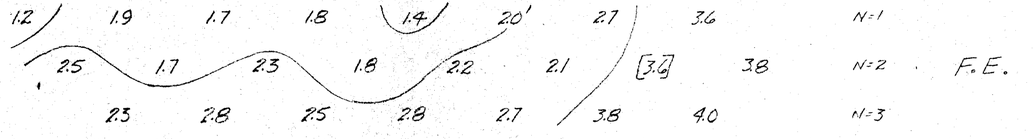
CANWEX EXPLORATION LTD
ELN GROUP
PRINCETON B.C.
H.P. - I.P. DIPOLE - DIPOLE
1 IN. = 300 FT. N=3
0.3 + 5 CPS.
APRIL 22 1971
LINE 32 WEST
DATA BY DAVE BROSWICK



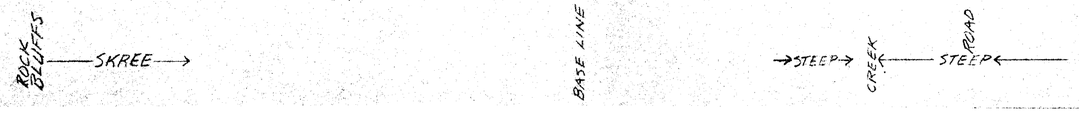
R/27



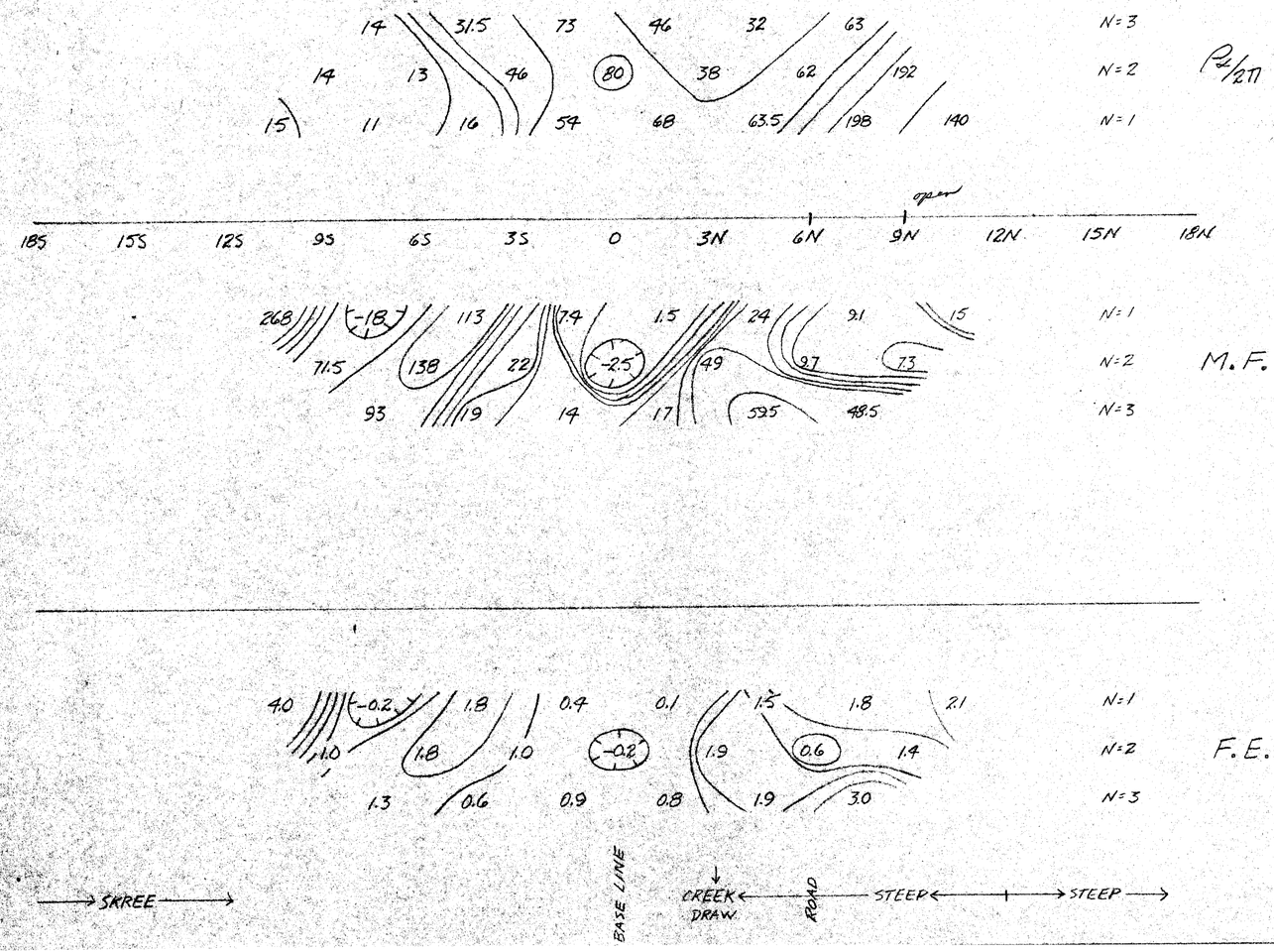
M.F.



F.E.



CANWEX EXPLORATION LTD.
ELN GROUP -
PRINCETON B.C.
H.P. - I.P. DIPOLE - DIPOLE
1 IN. = 300 FT. N=3
0.3 & 5 CPS.
APRIL 21 1971
LINE 40 WEST
DATA BY DAVE BROSWICK



LINE 40W LINE 32W LINE 24W LINE 16W

ELN 1

ELN 3

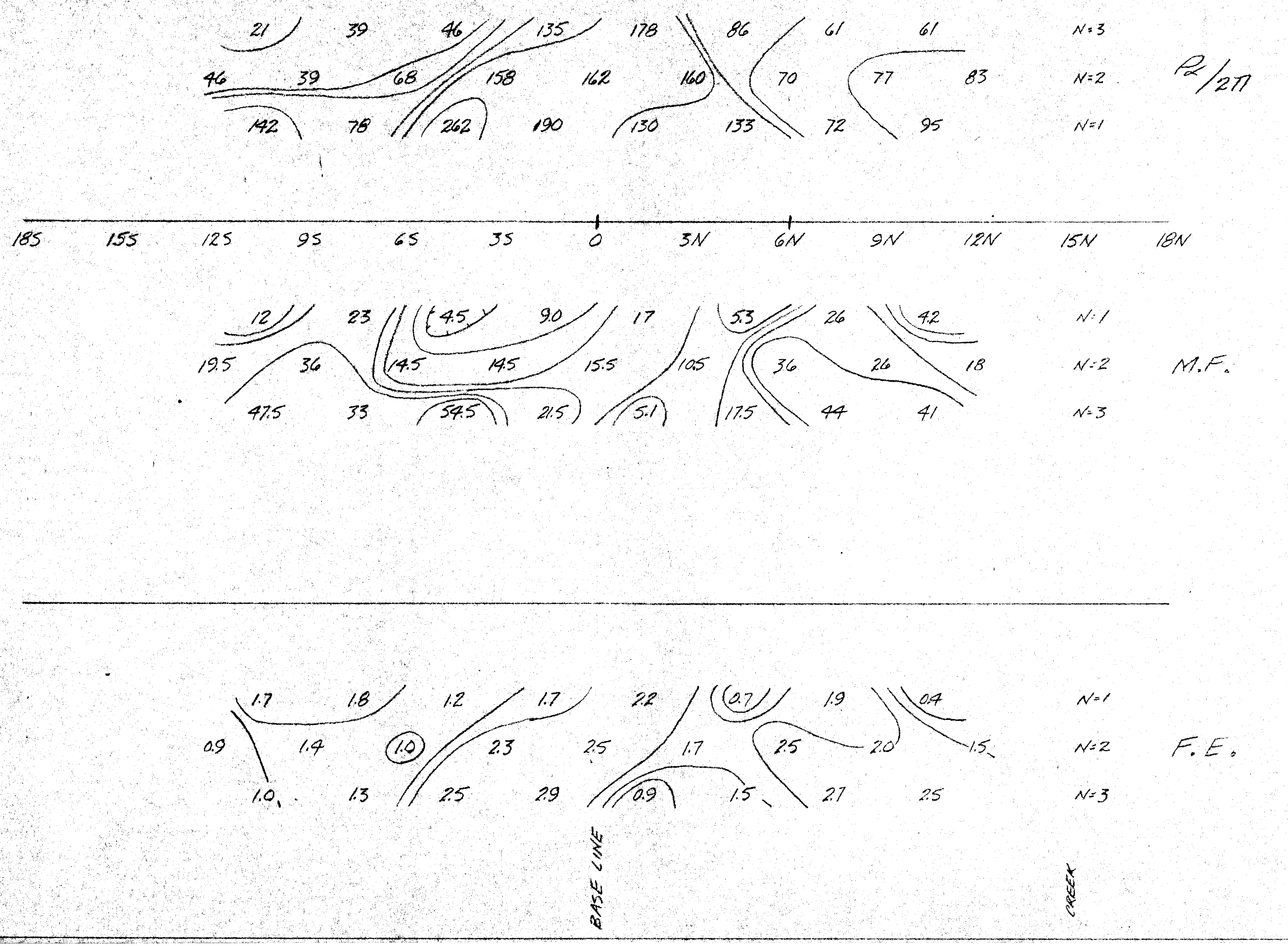
ELN 2

ELN 4

N

3017 M-1

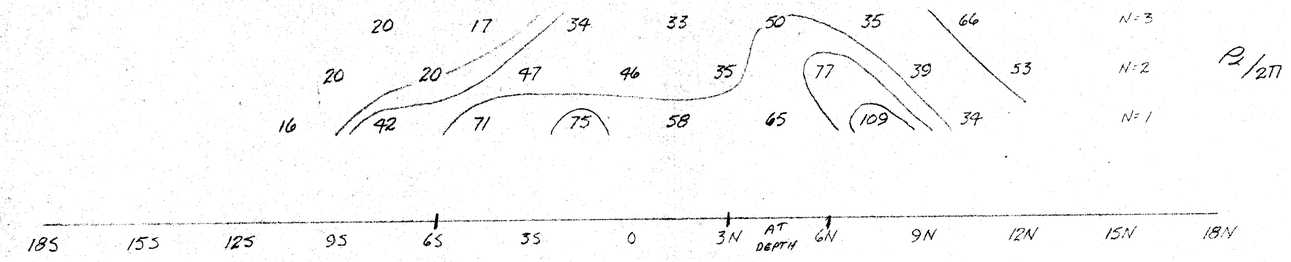
CANWEX EXPLORATIONS LTD (N.P.L.)
PLAN
ELN GROUP
SIMILKAMEEN MINING DIVISION, B.C.
SCALE 1" = 400 FT MAY 1971

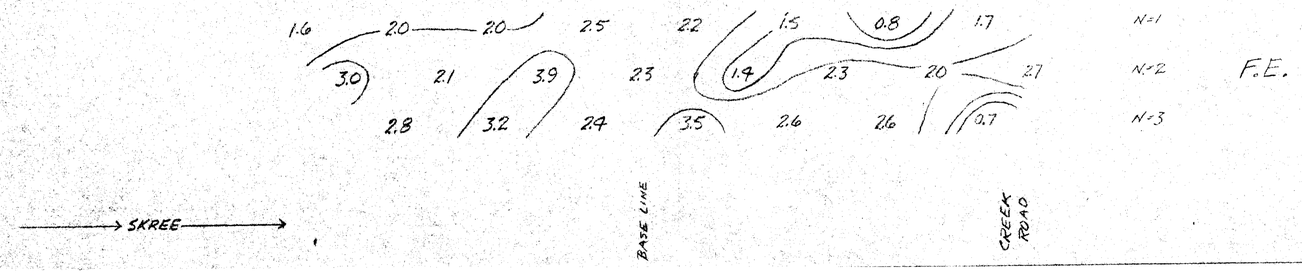


CANWEX EXPLORATION LTD.
ELN GROUP
PRINCETON B.C.
H.P. - I.P. DIPOLE - DIPOLE
1 IN. = 300 FT. N=3
0.3 + 5 CPS.
APRIL 23 1971
LINE 16 WEST
DATA BY DAVE BROSWICK

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3017 MAP #8

CANWEX EXPLORATION LTD.
ELN GROUP
PRINCETON B.C.
H.P. – I.P. DIPOLE - DIPOLE
1 IN. = 300 FT. N-3
0.3 & 5 CPS.
APRIL 22 1971
LINE 24 WEST
DATA BY DAVE BROSWICK



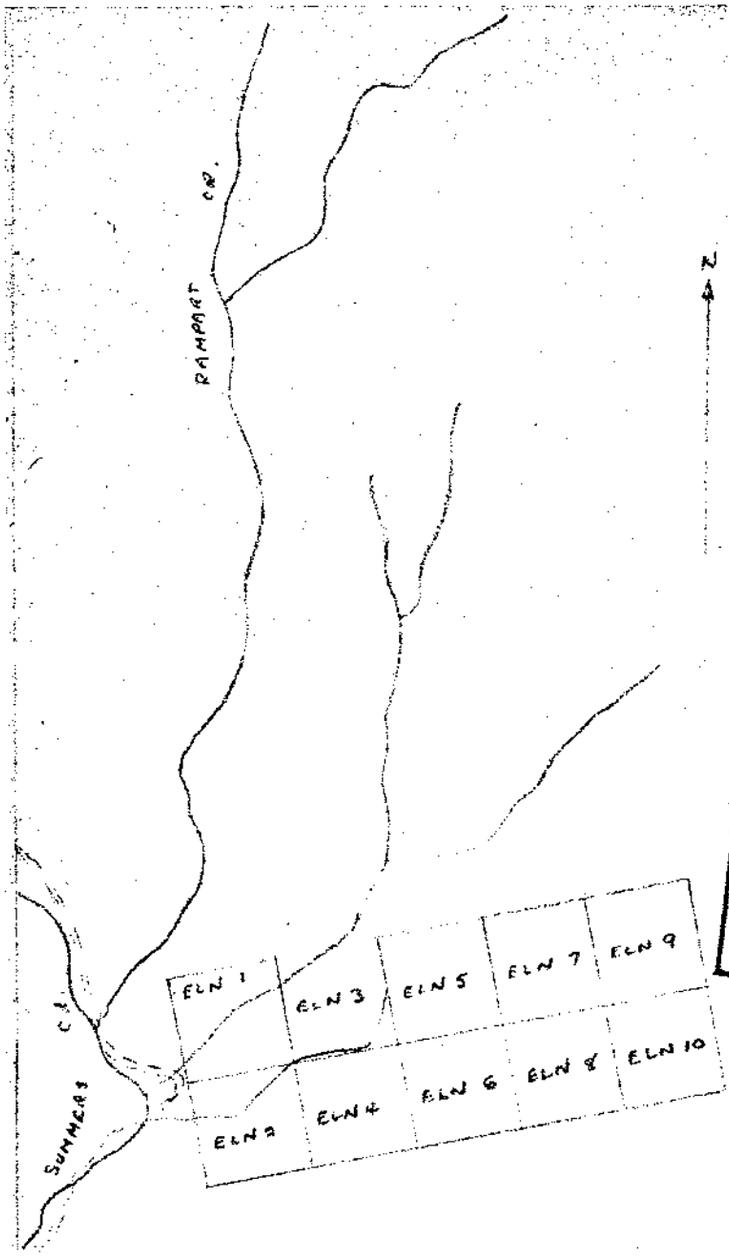


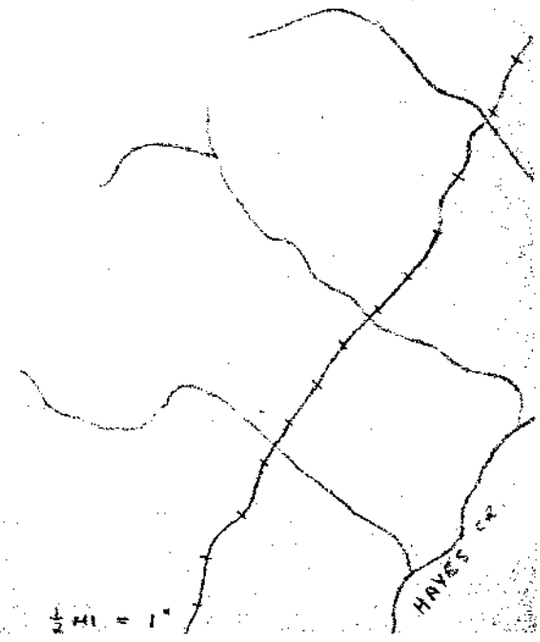
CANWEX EXPLORATIONS LTD. (N.P.L.)

ELN GROUP

SIMILKAMEEN M.D.

MAY 1971





½ MI. = 1"