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PART 2
OF 2

GEOPHYSICAL REPORT

SQ GROUP

CONTENTS

INTRODUCTION

An induced polarization survey has been carried out on the SQ group. This property is located on the north side of the Skeena River, west of Usk. It is owned by Coast Range Explorations Ltd.

Field work was carried out under the supervision of the author between July 5 and 11 inclusive by D.B. Trussell assisted by D.A. McDonald and R. Cividen, also assisted on July 5 by G. Woodsworth and T. Elliot and on July 8 by T. Elliot.

Work was carried out on claims SQ 20, 21, 22, 23.

INSTRUMENTATION

The induced polarization equipment was manufactured by Geoscience Incorporated of Lexington, Massachusetts. 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.

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° diagonal lines drawn from the midpoints of the sender and receiver dipoles. Percent frequency effect values are plotted below the reference line, resistivity values in ohm-feet above. The row of data nearest the reference line corresponds with N = 1 values, the second row N = 2 and the third N = 3.

RESULTS

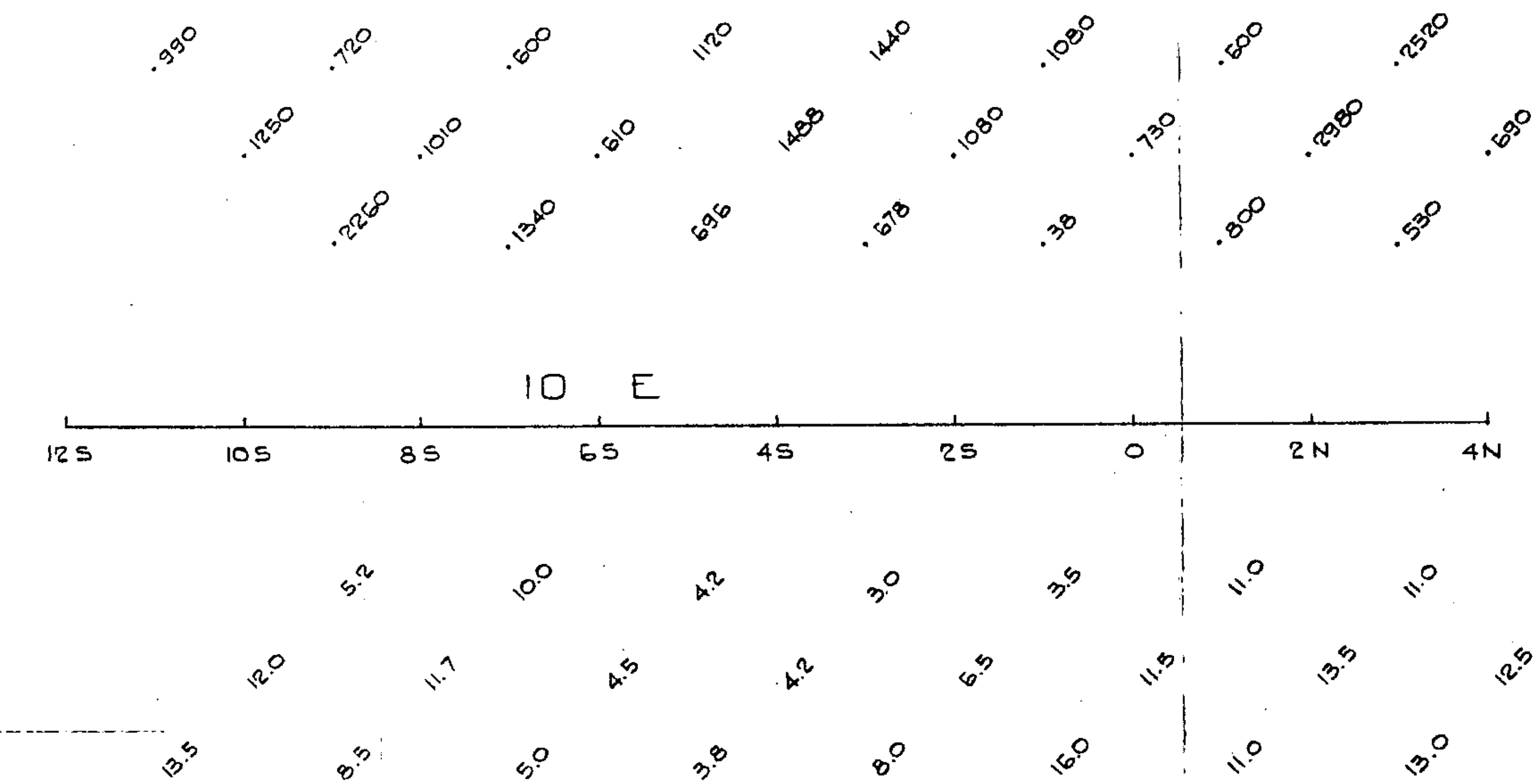
An electrode spacing a = 200 feet was used, a high frequency of 3 cps and a low frequency of 0.1 cps was employed, except on L10E and north of 7S on L14E, where the low frequency was 0.05 cps. The results are shown on the accompanying figures for lines 10E, 14E, 18E, 22E, 26E. Anomalies occur on line 14E from 12S to the north end, on line 18E 10S to 14S, line 22E 12S to the south end of the line surveyed. On line 10E, an anomaly occurred between 8S and the south end of the line surveyed, and between 2N and the north end of the line surveyed.

Respectfully submitted,

D. W. SMELLIE, P.Eng.

DWS:ds

August 9, 1966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.1250 .1010 .610 1488 .1080 .730 .2980 .690
.2260 .1340 696 .678 .38 .800 .530
10 E
12S 10S 8S 6S 4S 2S 0 2N 4N
5.2 10.0 4.2 3.0 3.5 11.0 11.0
12.0 11.7 4.5 4.2 6.5 11.5 13.5 12.5
13.5 8.5 5.0 3.8 8.0 16.0 11.0 13.0

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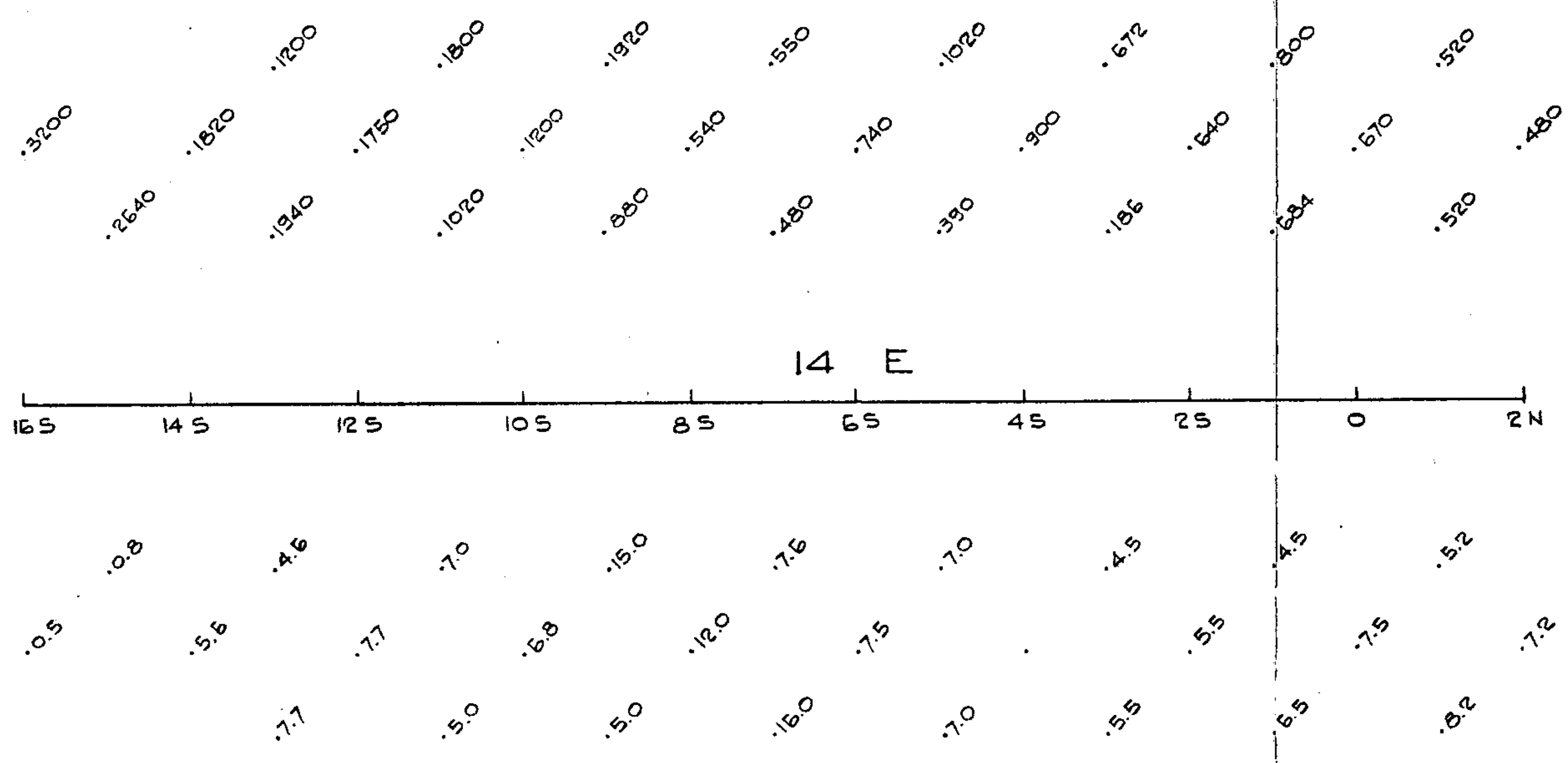

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.3200 .1820 .1750 .1200 .540 .740 .900 .640 .670 .480
.2640 .1940 .1020 .880 .480 .390 .186 .684 .520
14 E
16S 14S 12S 10S 8S 6S 4S 2S 0 2N
.0.8 .4.6 .7.0 .15.0 .7.6 .7.0 .4.5 .4.5 .5.2
.0.5 .5.6 .7.7 .6.8 .12.0 .7.5 .5.5 .7.5 .7.2
.7.7 .5.0 .5.0 .15.0 .7.0 .5.5 .6.5 .8.2

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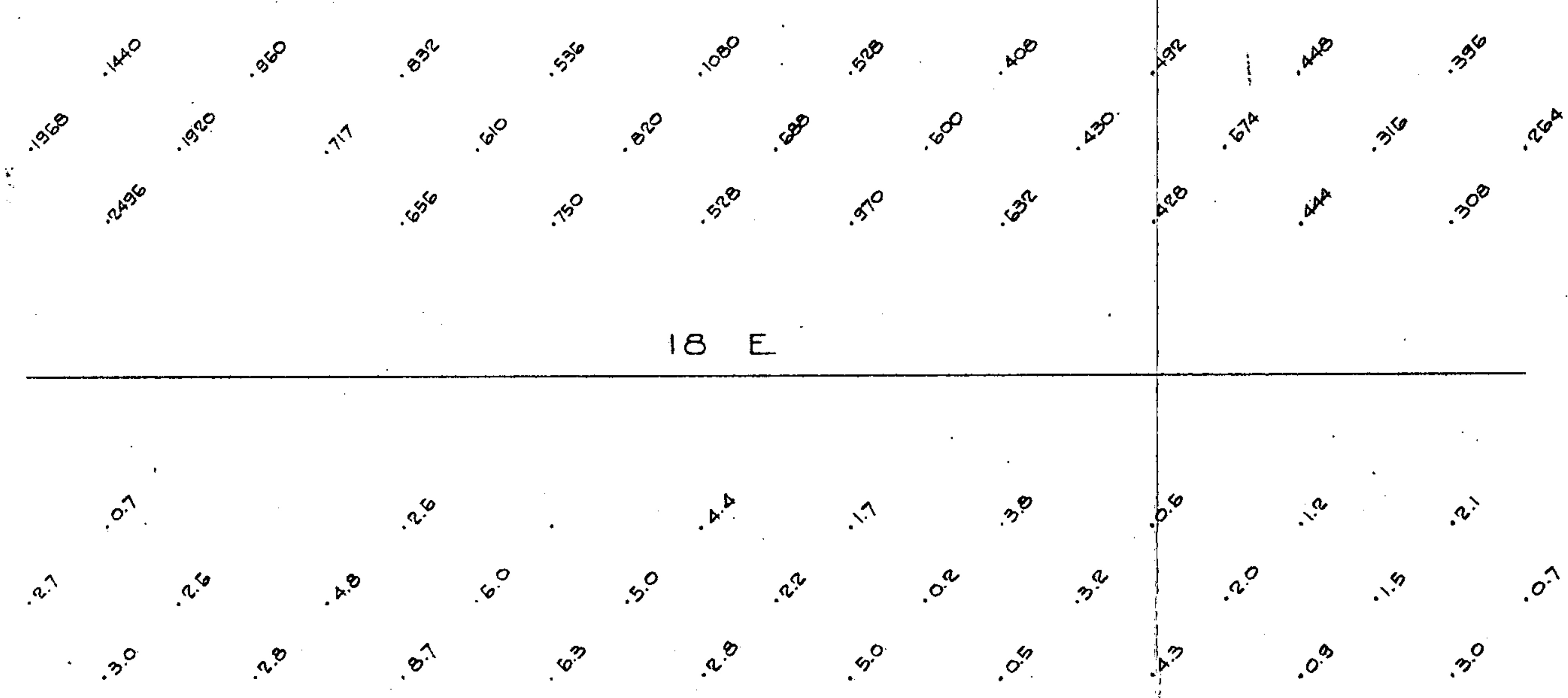

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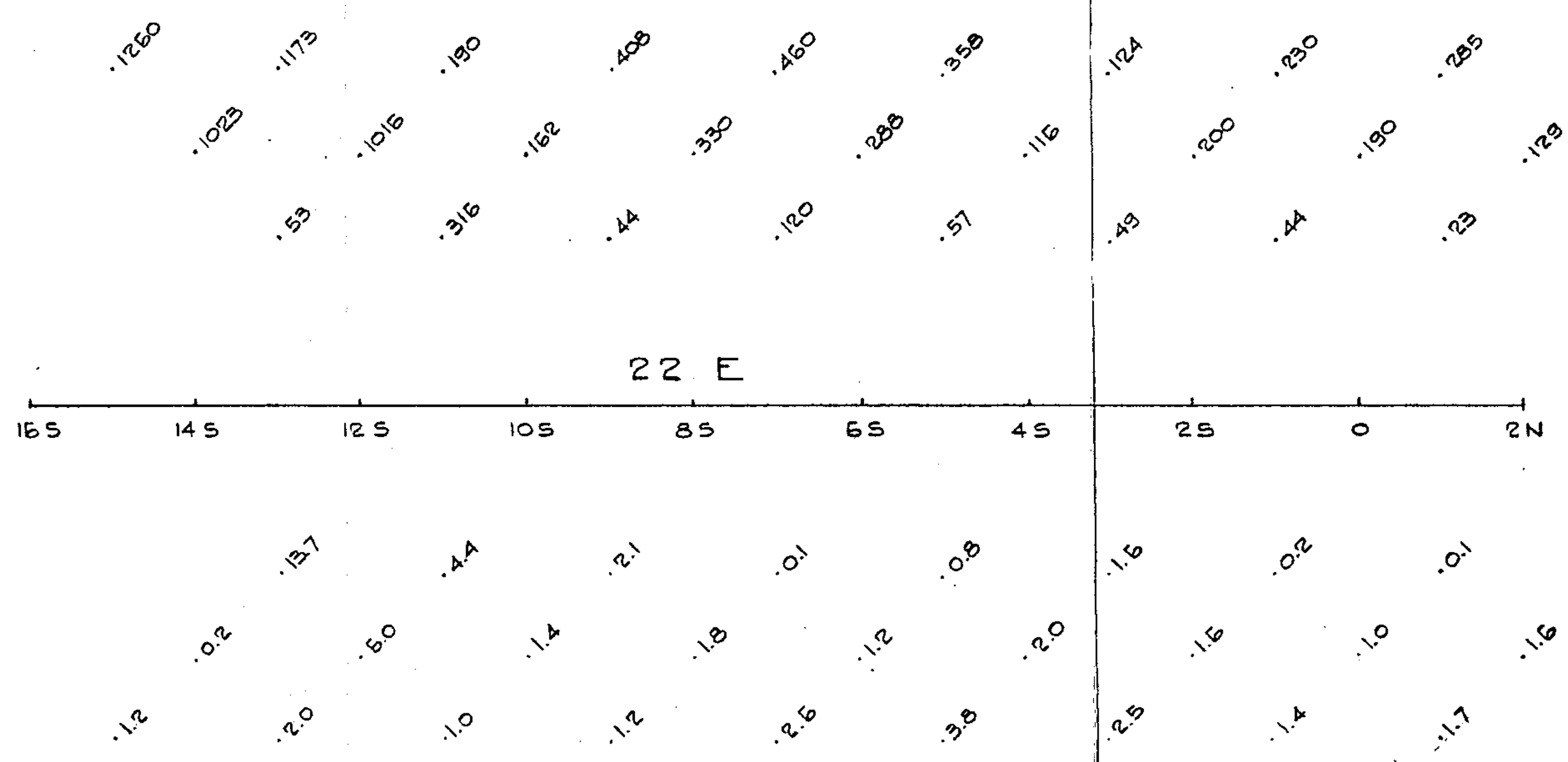

22 E
16S 14S 12S 10S 8S 6S 4S 2S 0 2N
.1260 .1173 .190 .408 .460 .358 .124 .230 .285
.1023 .1016 .162 .330 .288 .116 .200 .190 .129
.53 .316 .44 .120 .57 .49 .44 .23
.137 .4.4 .2.1 .0.1 .0.8 .1.6 .0.2 .0.1
.0.2 .6.0 .1.4 .1.8 .1.2 .2.0 .1.6 .1.0 .1.6
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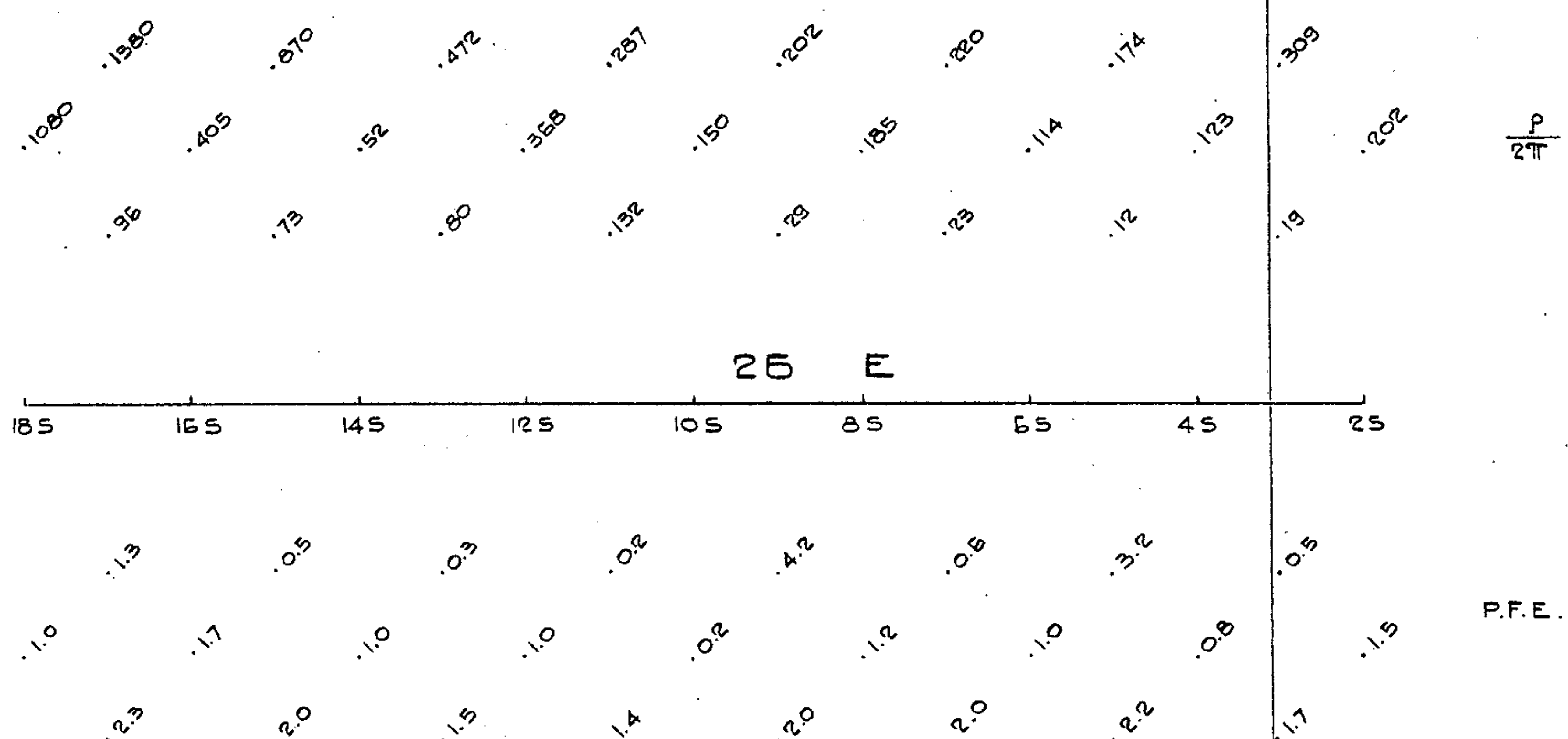
.1380 .870 .472 .287 .202 .220 .174 .309
.1080 .405 .52 .368 .150 .185 .114 .123 .202
.96 .73 .80 .132 .29 .23 .12 .19
$\frac{\rho}{2\pi}$
26 E
18S 16S 14S 12S 10S 8S 6S 4S 2S
.1.3 .0.5 .0.3 .0.2 .4.2 .0.6 .3.2 .0.5
.1.0 .1.7 .1.0 .1.0 .0.2 .1.2 .1.0 .0.8 .1.5
.2.3 .2.0 .1.5 .1.4 .2.0 .2.0 .2.2 .1.7
P.F.E.

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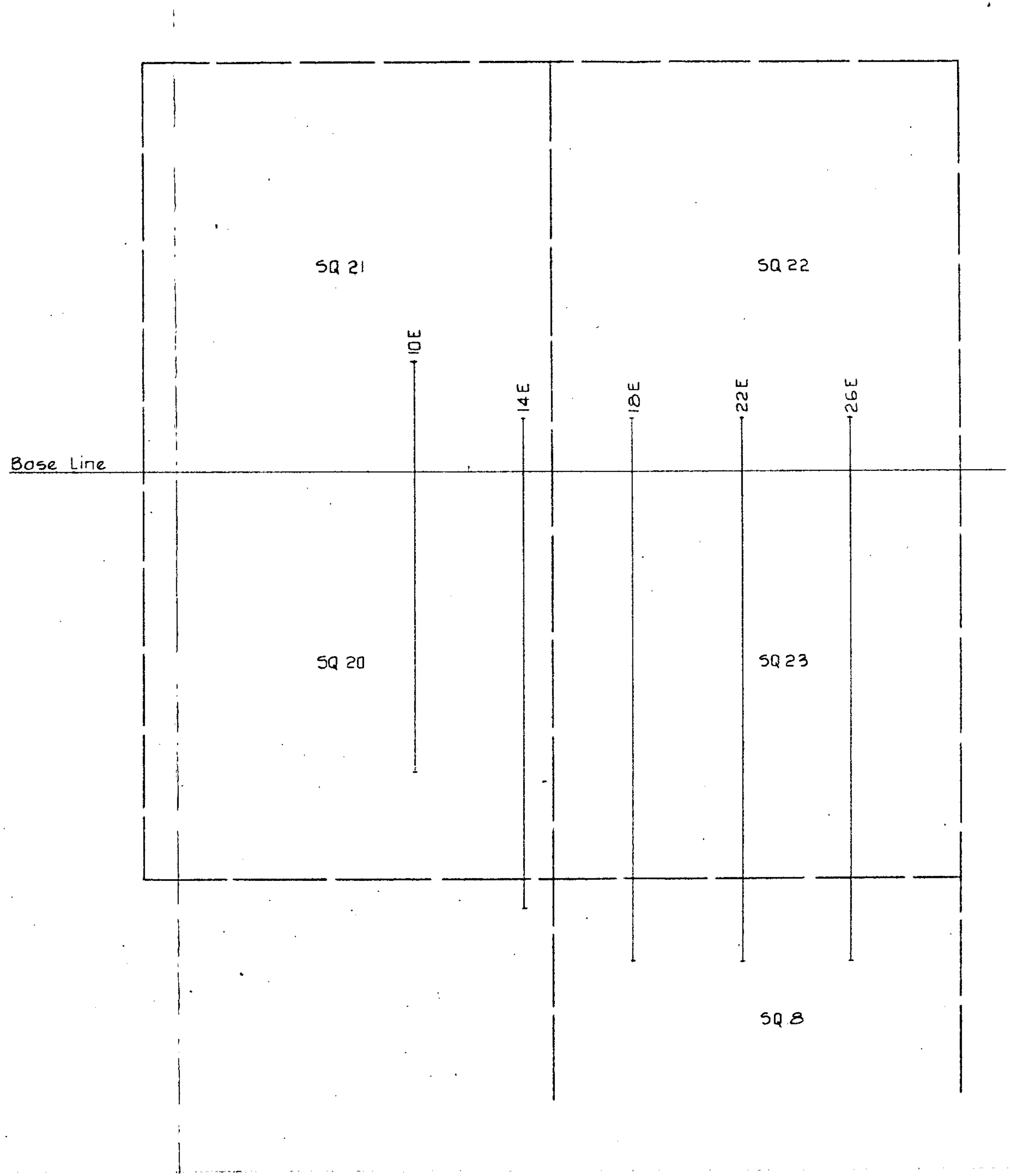

SQ Group
Lines covered by I.P. survey

Plan to accompany Geophysical Report by Donald W. Smellie, P. Eng., on the SQ Group. Dated August 9, 1966.

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