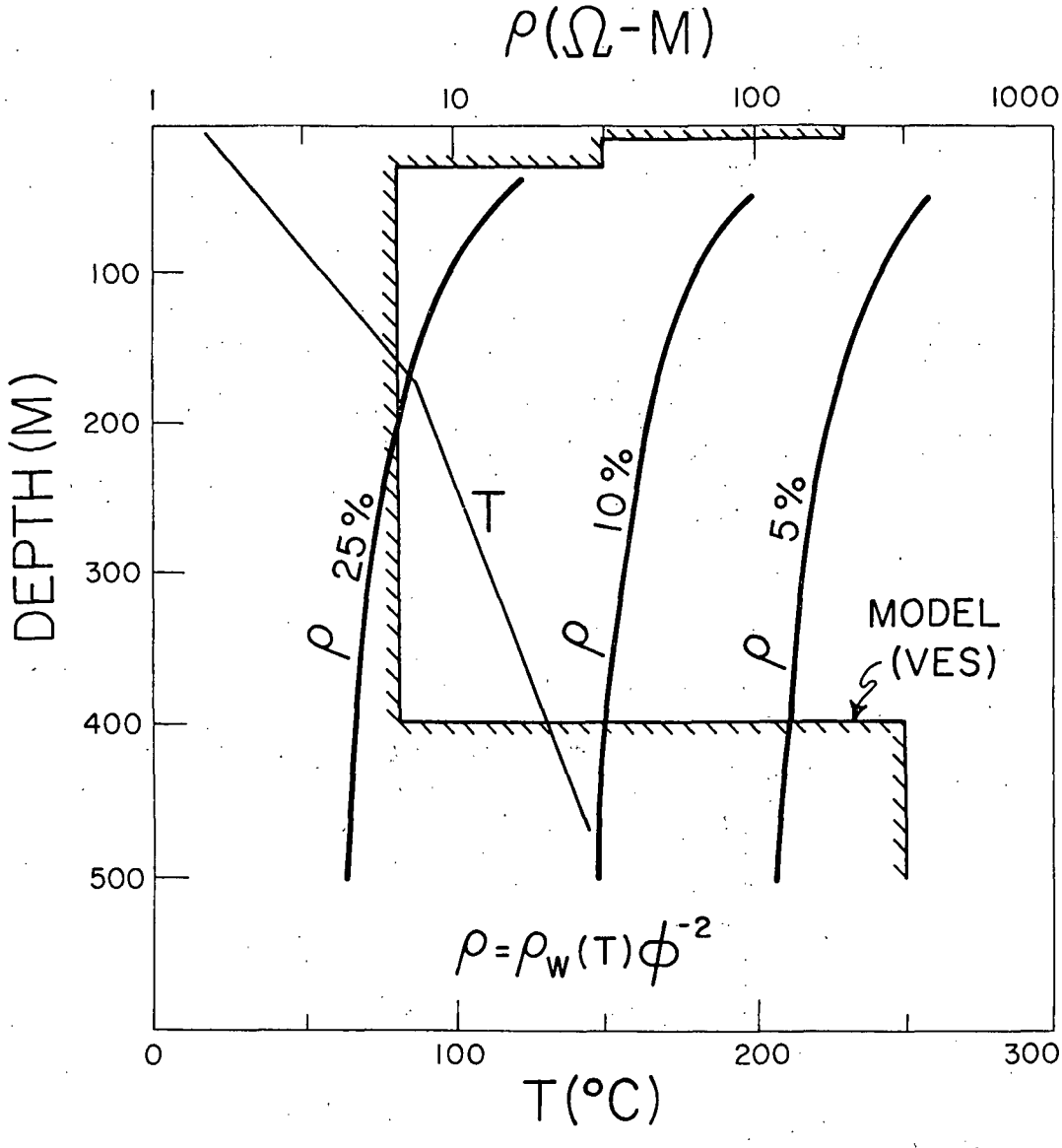
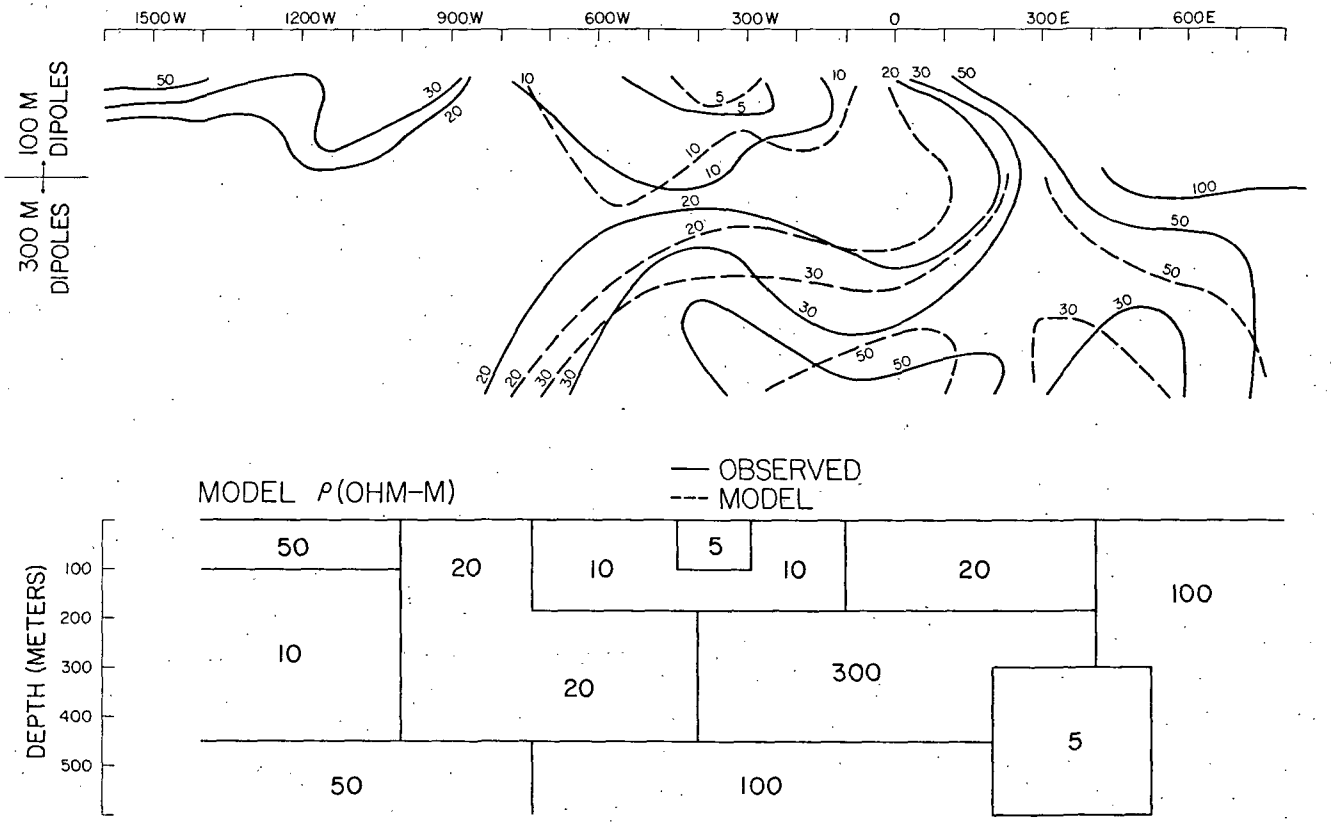

ρ(Ω-M)
1
10
100
1000
DEPTH (M)
100
200
300
400
500
T
ρ 25%
ρ 10%
ρ 5%
MODEL
(VES)
ρ=ρw(T)φ^-2
0
100
200
300
T(°C)

Figure 53

LINE 1000 N.

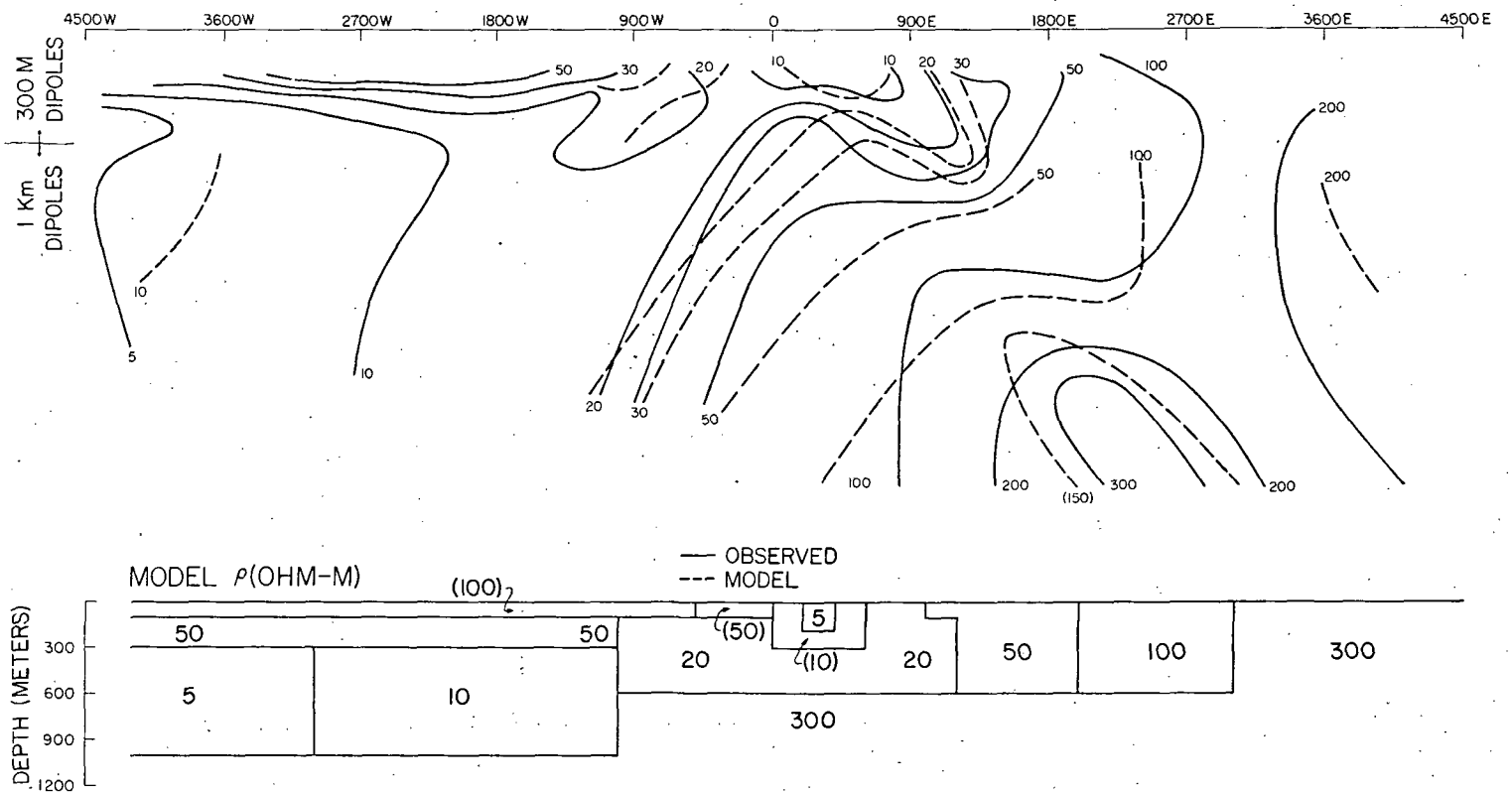


ROOSEVELT HOT SPRINGS KGRA
OBSERVED & INTERPRETED RESISTIVITY

SCALE
0 300 600
METERS

Figure 49

LINE 4000 N.

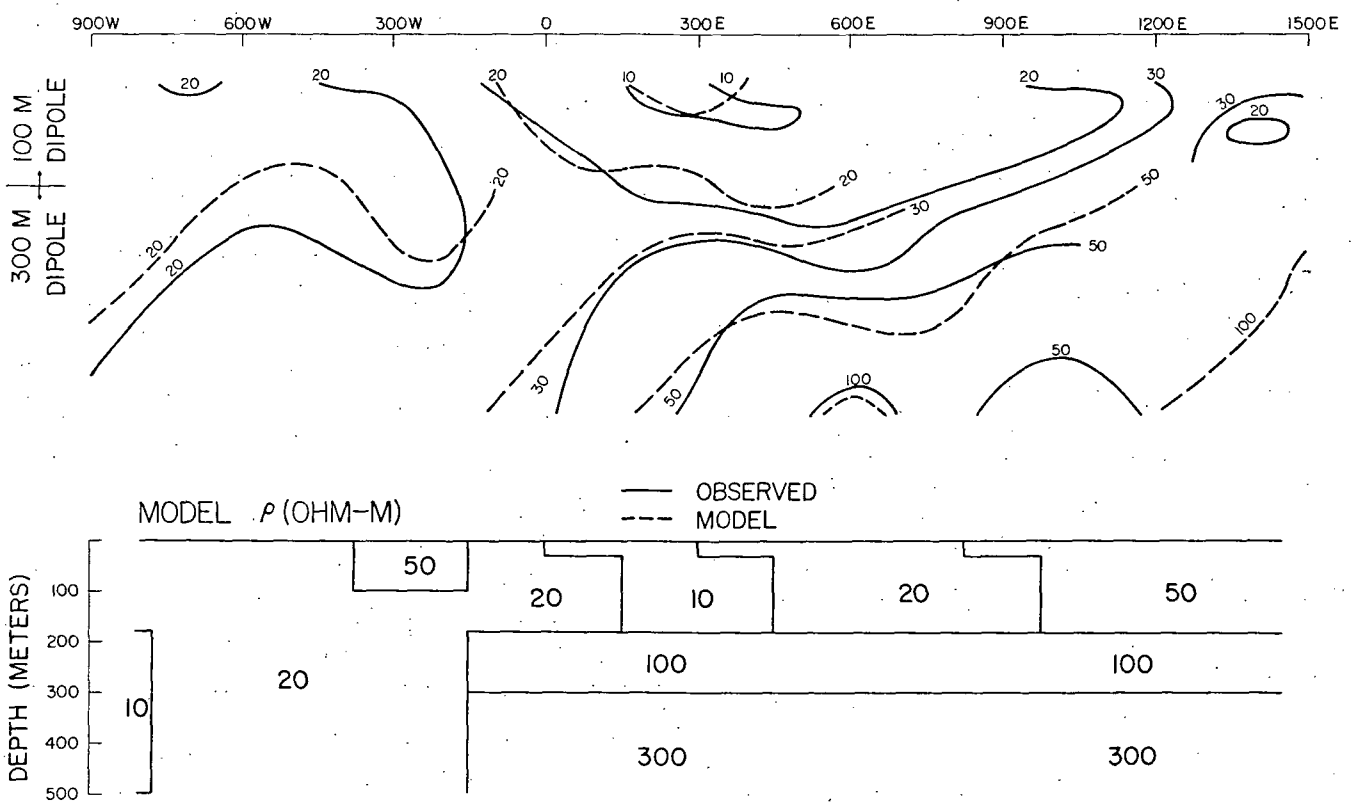


ROOSEVELT HOT SPRINGS KGRA
OBSERVED & INTERPRETED RESISTIVITY

SCALE
0 500 1000
METERS

Figure 51

LINE 8100N.

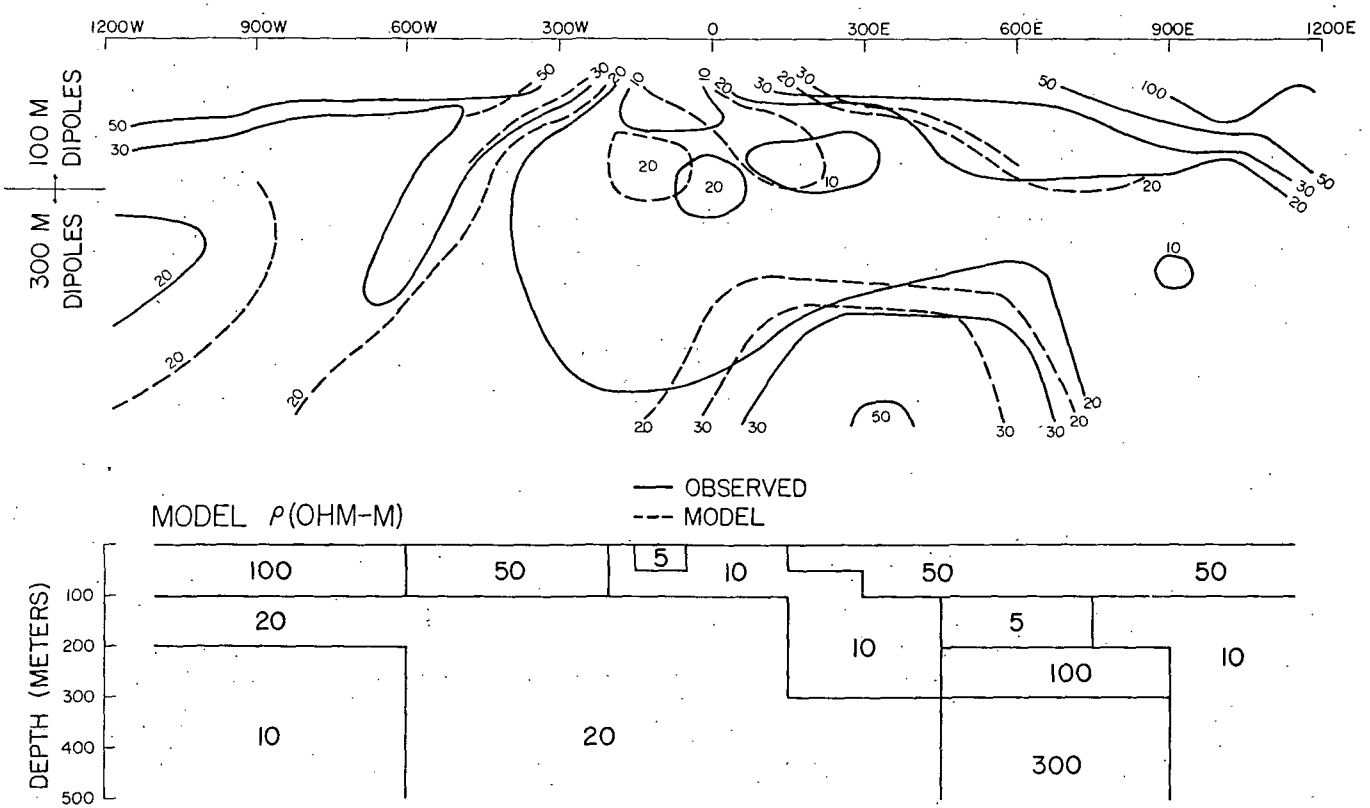


ROOSEVELT HOT SPRINGS KGRA
OBSERVED & INTERPRETED RESISTIVITY

SCALE
0 300 600
METERS

Figure 52

LINE 3000N.



ROOSEVELT HOT SPRINGS KGRA
OBSERVED & INTERPRETED RESISTIVITY

SCALE
0 300 600
METERS

Figure 50

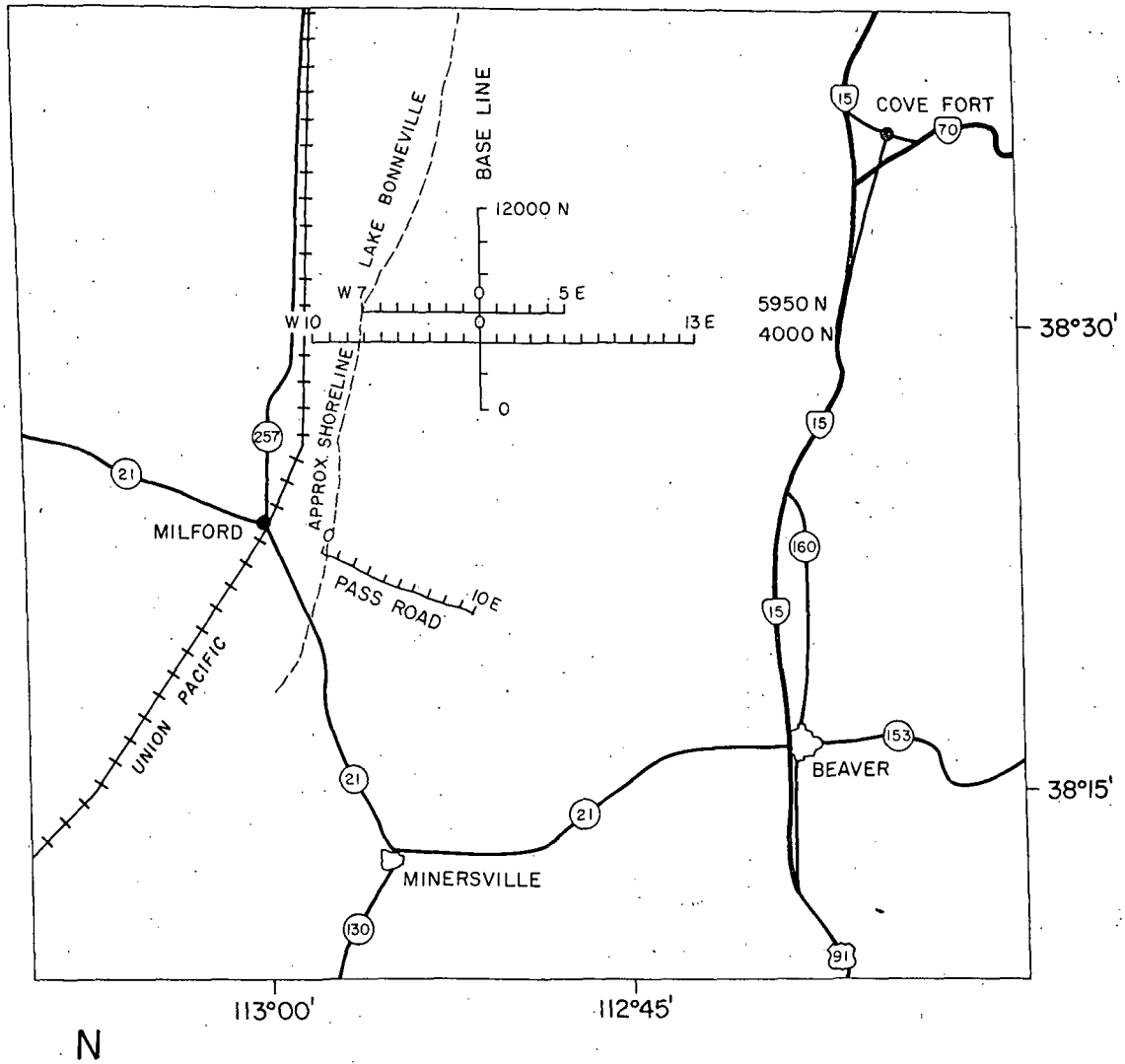
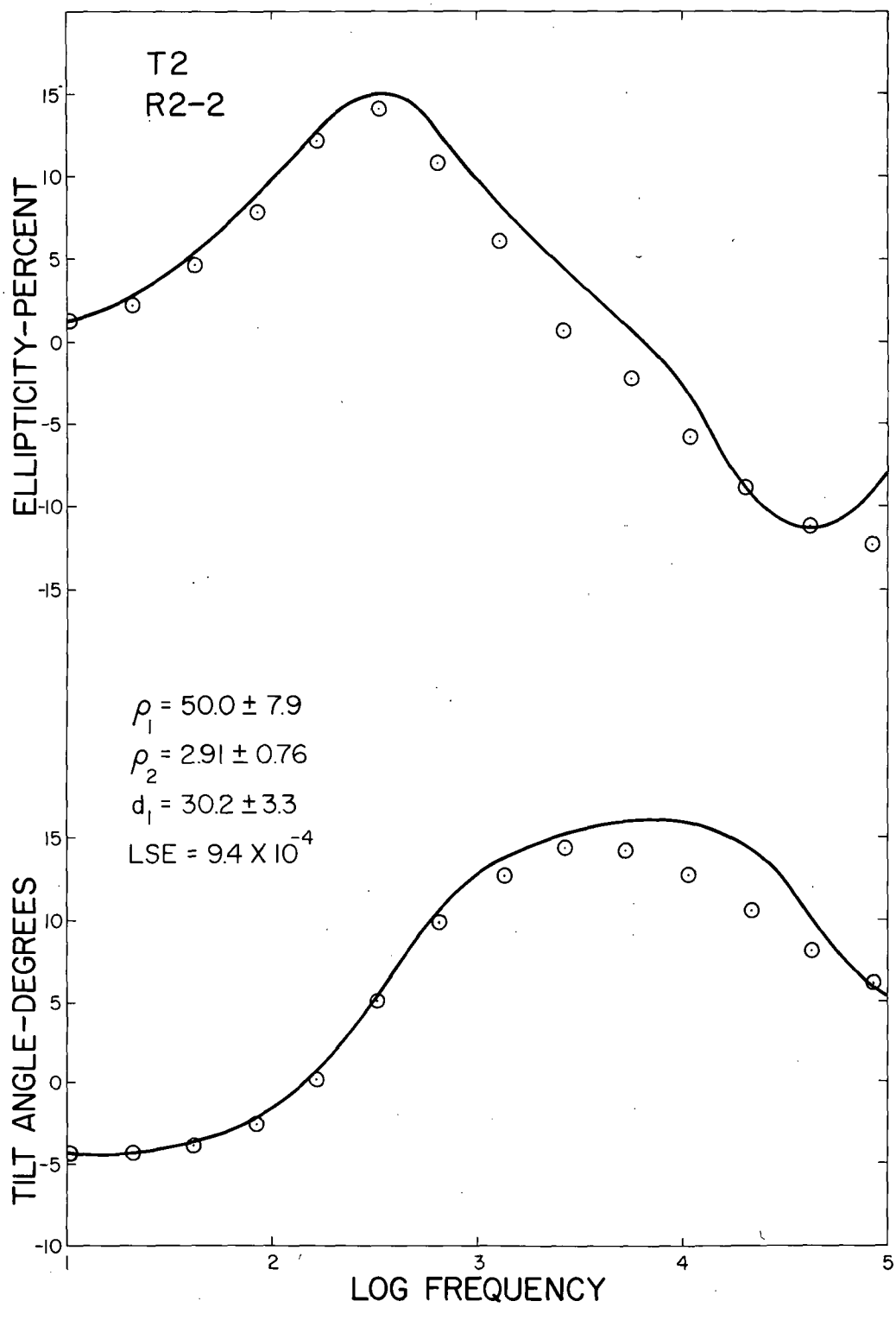
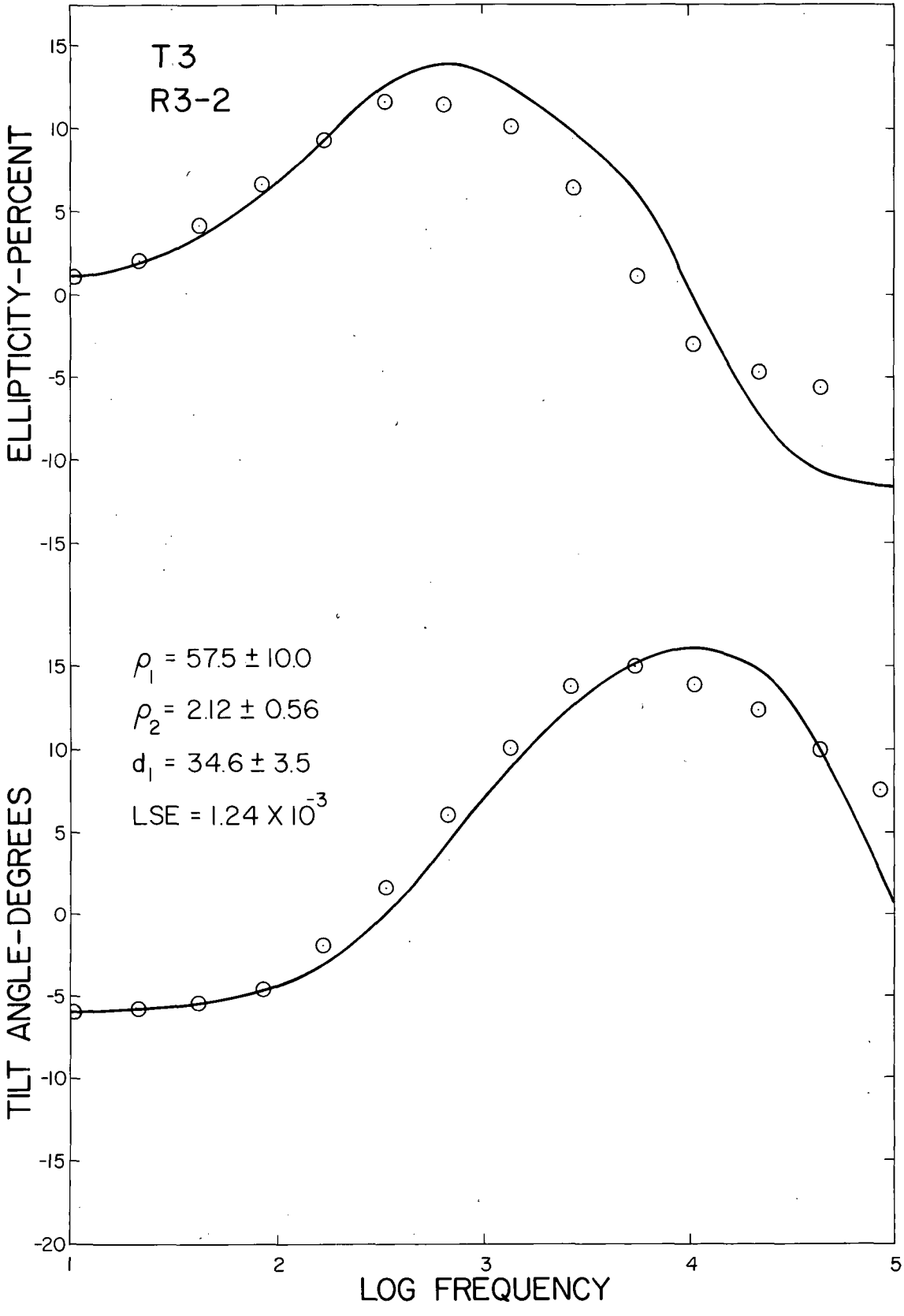
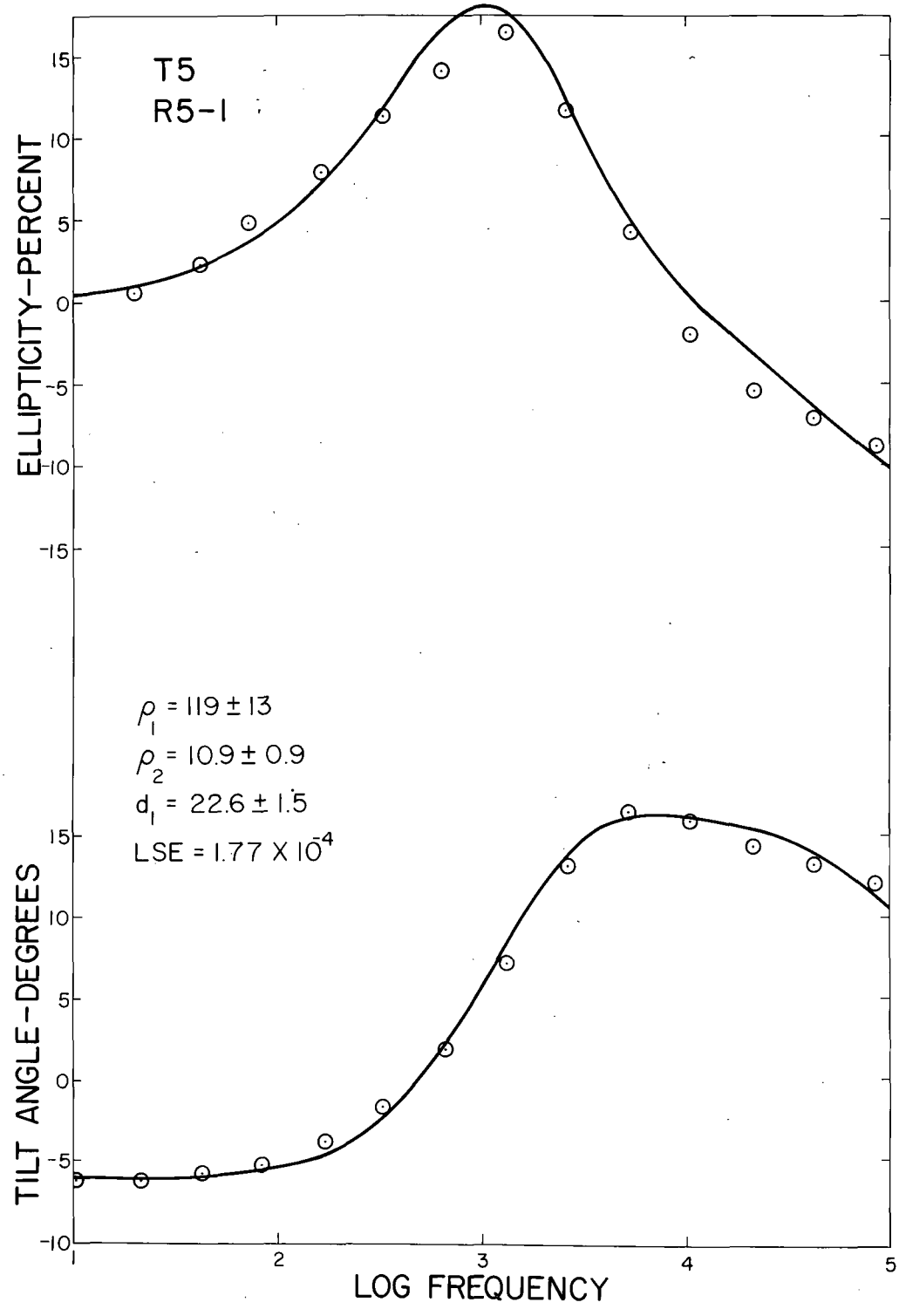
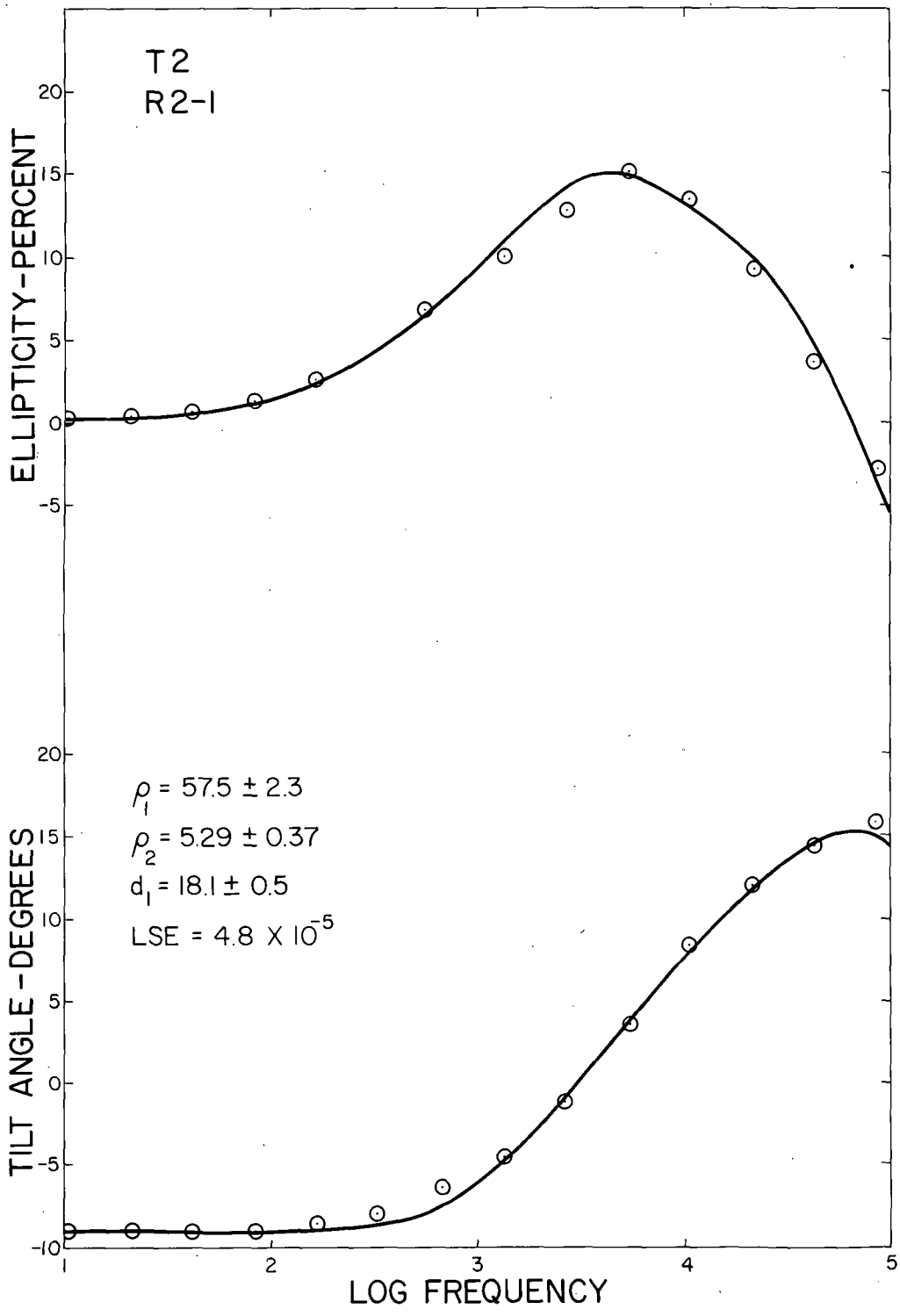

LAKE BONNEVILLE
BASE LINE
12000 N
W 7
5 E
W 10
13 E
0
APPROX. SHORELINE
257
21
MILFORD
PASS ROAD
10E
UNION PACIFIC
MINERSVILLE
130
21
21
15
COVE FORT
70
5950 N
4000 N
15
160
15
153
BEAVER
91
38°30'
38°15'
113°00'
112°45'
N
ROOSEVELT HOT SPRINGS KGRA
LOCATION OF TRAVERSE LINES
FOR 1 Km DIPOLE SURVEY
5 0 5 10 15 20 25 30
KILOMETERS

Figure 46

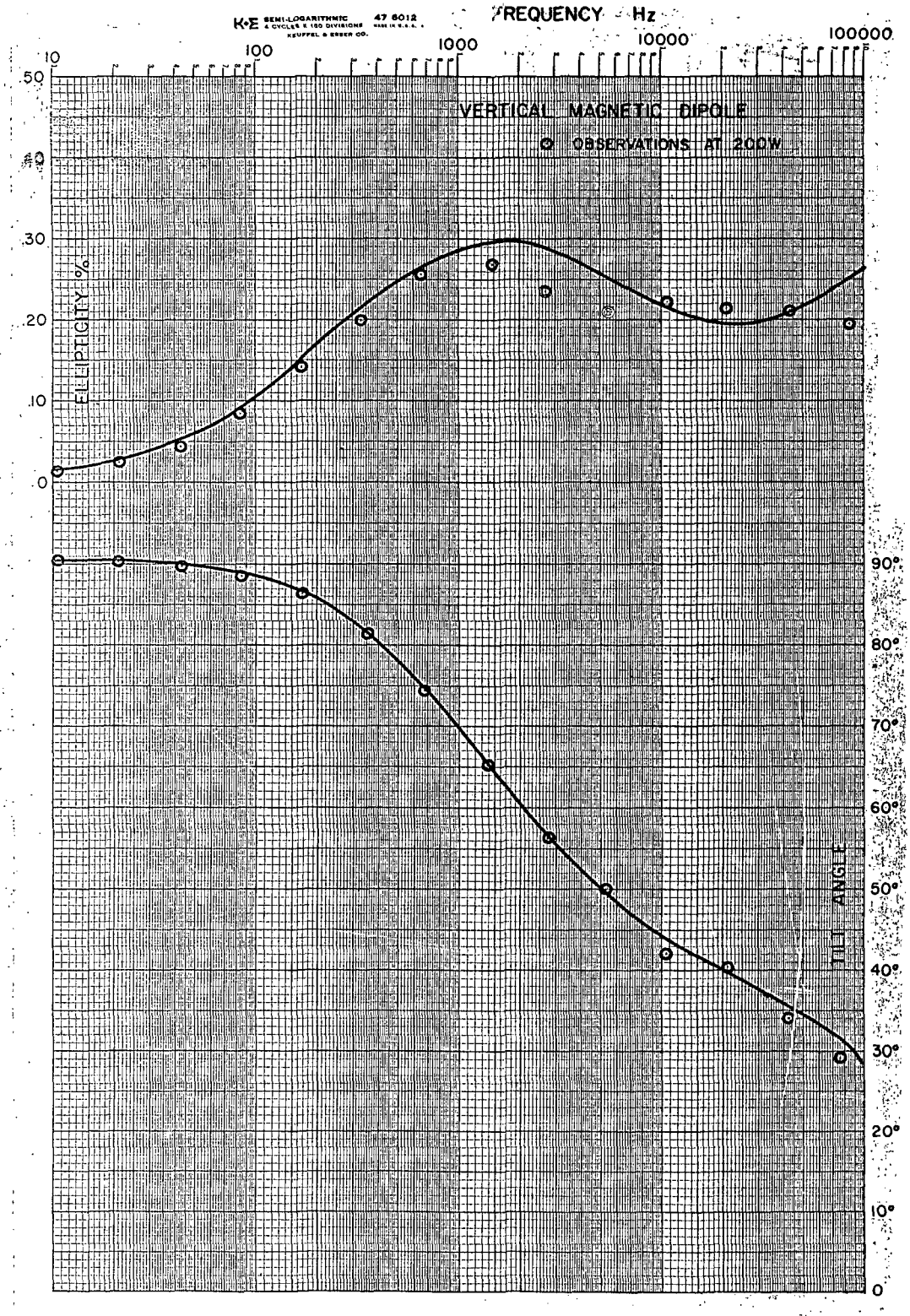

T2
R2-2
ELLIPTICITY-PERCENT
15
10
5
0
-5
-10
-15
ρ_1 = 50.0 ± 7.9
ρ_2 = 2.91 ± 0.76
d_1 = 30.2 ± 3.3
LSE = 9.4 X 10^{-4}
TILT ANGLE-DEGREES
15
10
5
0
-5
-10
1
2
3
4
5
LOG FREQUENCY

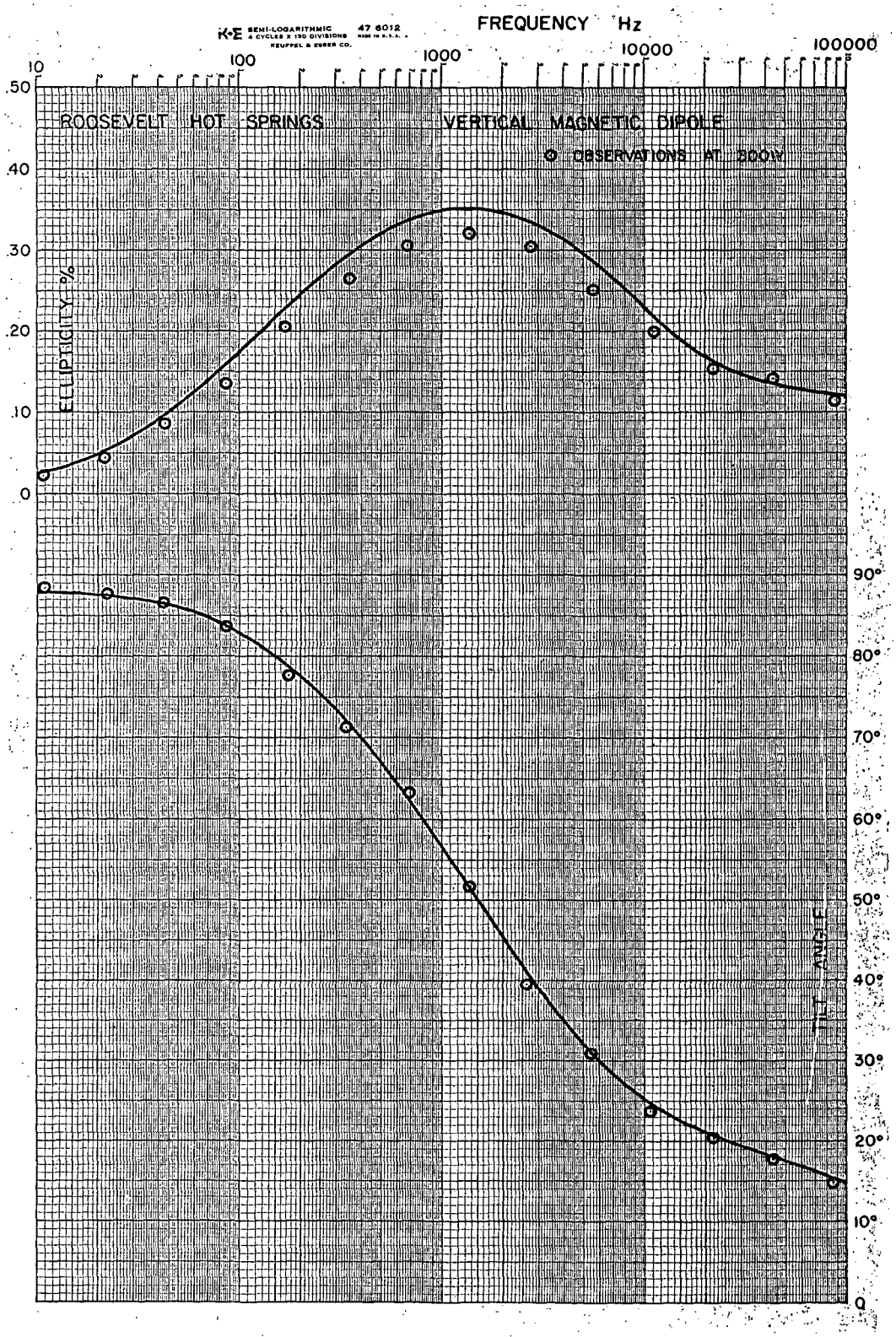

T3
R3-2
ELLIPTICITY-PERCENT
15
10
5
0
-5
-10
-15
ρ_1 = 57.5 ± 10.0
ρ_2 = 2.12 ± 0.56
d_1 = 34.6 ± 3.5
LSE = 1.24 X 10^{-3}
TILT ANGLE-DEGREES
15
10
5
0
-5
-10
-15
-20
1
2
3
4
5
LOG FREQUENCY

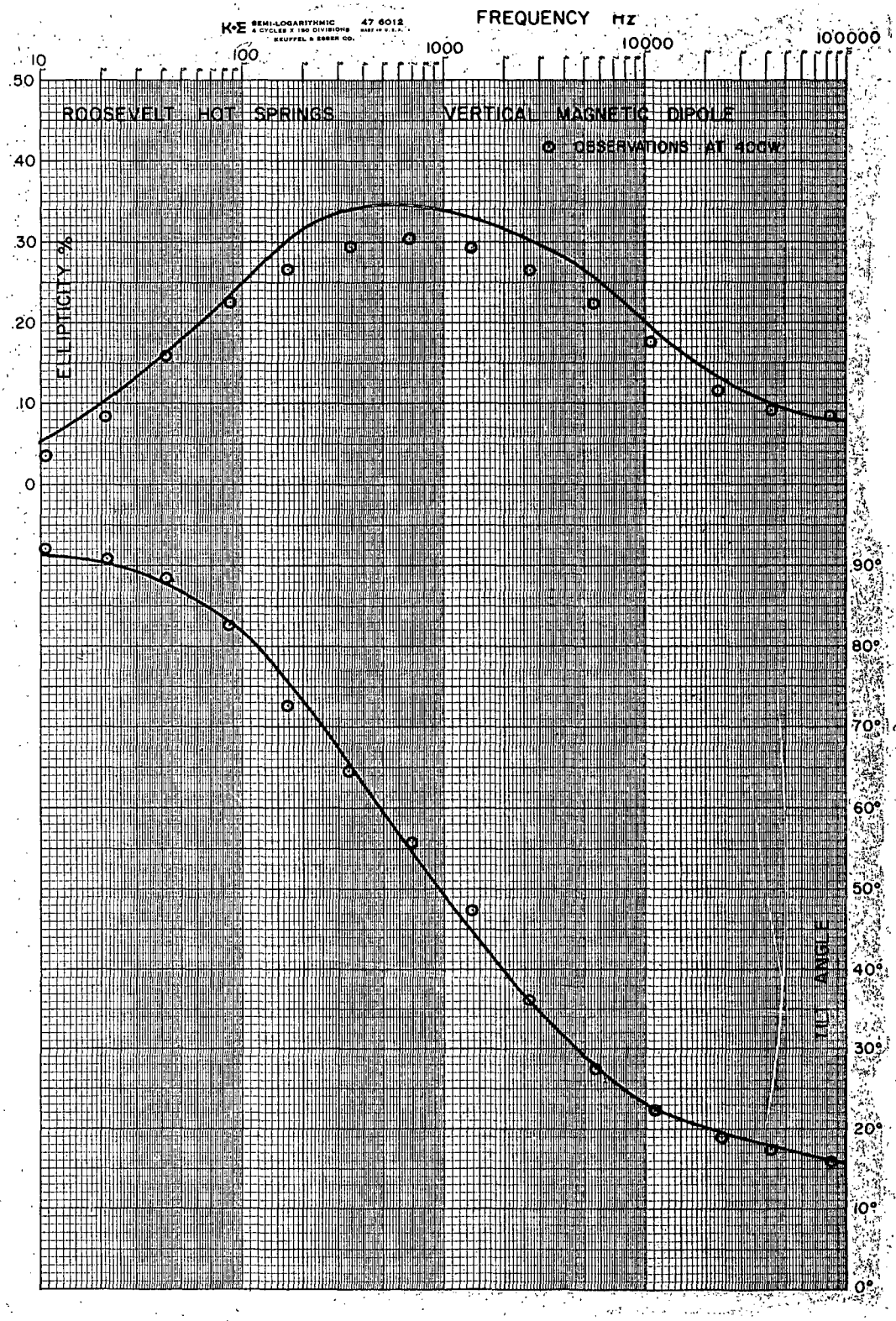

T5
R5-1
ELLIPTICITY-PERCENT
15
10
5
0
-5
-10
-15
$\rho_1 = 119 \pm 13$
$\rho_2 = 10.9 \pm 0.9$
$d_1 = 22.6 \pm 1.5$
LSE = 1.77×10^{-4}
TILT ANGLE-DEGREES
15
10
5
0
-5
-10
1
2
3
4
5
LOG FREQUENCY

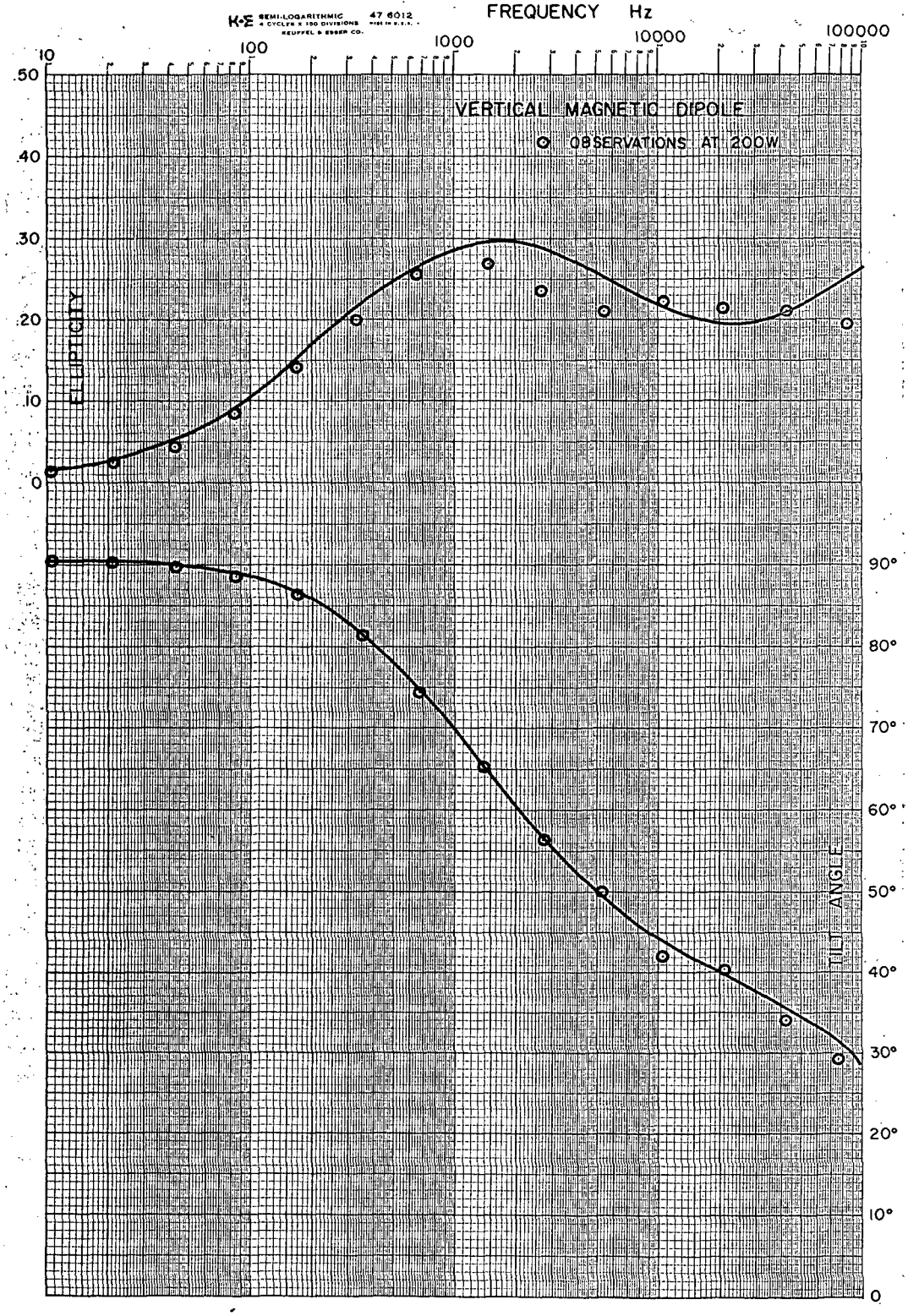

T2
R2-1
ELLIPTICITY-PERCENT
TILT ANGLE-DEGREES
LOG FREQUENCY
$\rho_1 = 57.5 \pm 2.3$
$\rho_2 = 5.29 \pm 0.37$
$d_1 = 18.1 \pm 0.5$
LSE = 4.8×10^{-5}

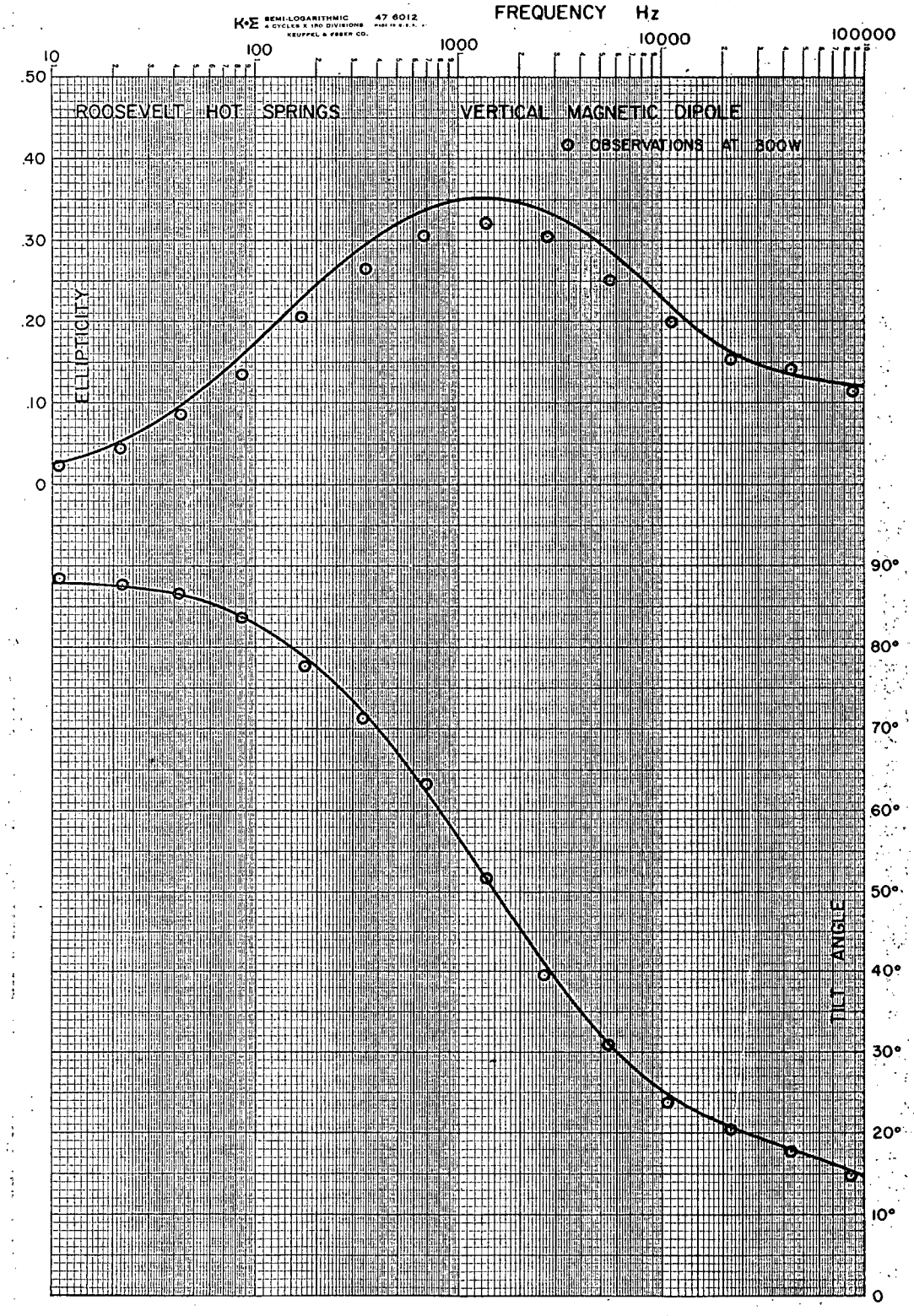
	1-2	6-1	6-2	7-2	7-1
σ_1 σ_2	.108	.380	.139	.407	.197
$\sigma_1 - t_1$	.272	.649	.268	.748	.454
$\sigma_2 - t_1$	.771	.787	.709	.795	.689

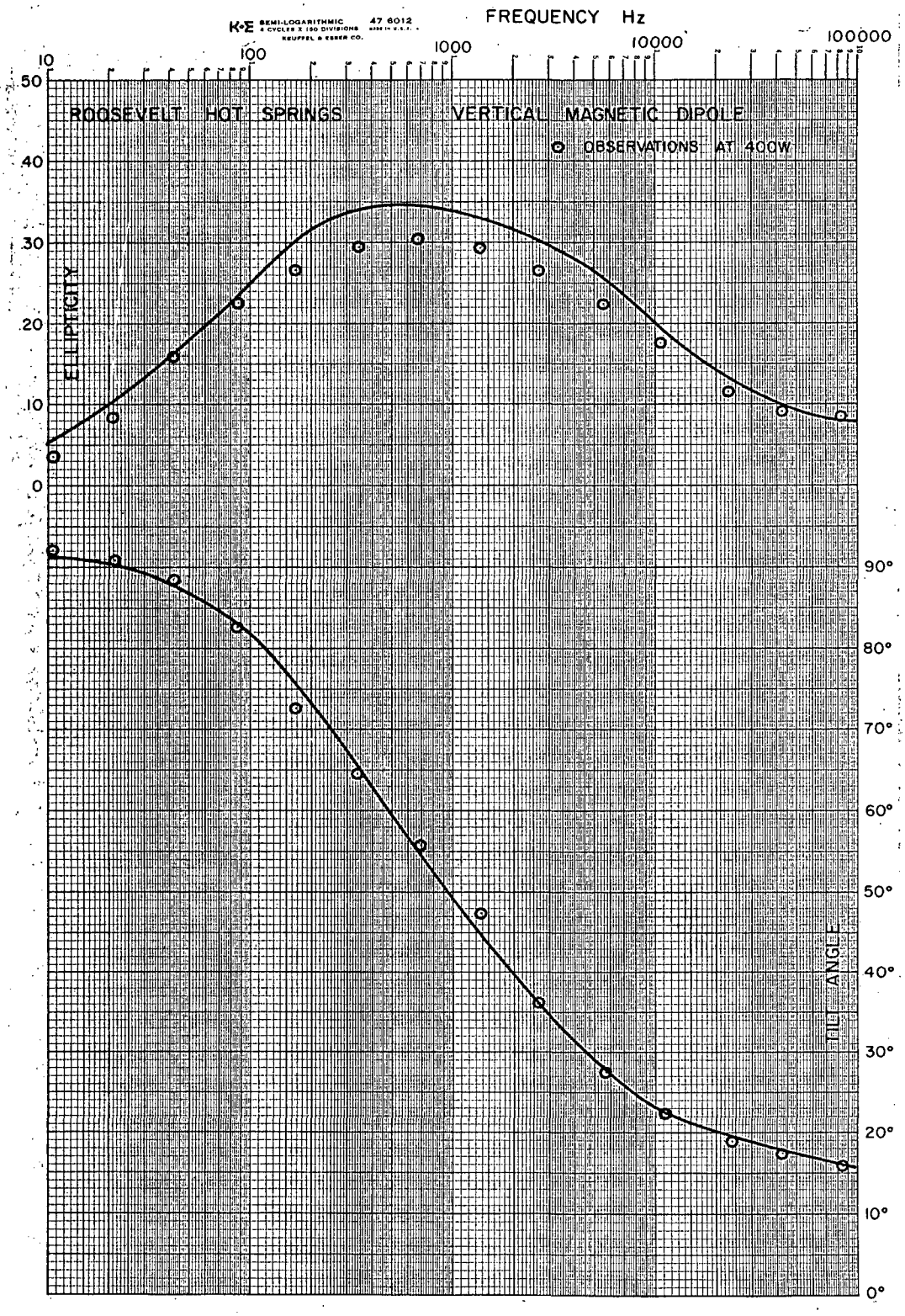

K+E SEMI-LOGARITHMIC 47 6012
4 CYCLES X 100 DIVISIONS
KEUFFEL & ESSER CO.
FREQUENCY - Hz
10
100
1000
10000
100000
VERTICAL MAGNETIC DIPOLE
OBSERVATIONS AT 200W
ELLIPTICITY %
.50
.40
.30
.20
.10
0
TILT ANGLE
90°
80°
70°
60°
50°
40°
30°
20°
10°
0


K·E SEMI-LOGARITHMIC 47 6012
4 CYCLES X 150 DIVISIONS
KEUFFEL & ESSER CO.
FREQUENCY Hz
10
100
1000
10000
100000
ROOSEVELT HOT SPRINGS
VERTICAL MAGNETIC DIPOLE
OBSERVATIONS AT 200W
ELLIPTICITY %
.50
.40
.30
.20
.10
0
90°
80°
70°
60°
50°
40°
30°
20°
10°
0
TILT ANGLE


K-E SEMI-LOGARITHMIC 47 6012
5 CYCLES X 100 DIVISIONS
KEUFFEL & ESSER CO.
FREQUENCY Hz
10
100
1000
10000
100000
ROOSEVELT HOT SPRINGS
VERTICAL MAGNETIC DIPOLE
OBSERVATIONS AT 400W
ELLIPTICITY %
.50
.40
.30
.20
.10
0
TILT ANGLE
90°
80°
70°
60°
50°
40°
30°
20°
10°
0°


K-E SEMI-LOGARITHMIC 47 6012
X CYCLES X 100 DIVISIONS
KEUFFEL & ESSER CO.
FREQUENCY Hz
10
100
1000
10000
100000
VERTICAL MAGNETIC DIPOLE
OBSERVATIONS AT 200W
ELLIPTICITY
.50
.40
.30
.20
.10
0
TILT ANGLE
90°
80°
70°
60°
50°
40°
30°
20°
10°
0


K•Σ SEMI-LOGARITHMIC 47 6012
4 CYCLES X 100 DIVISIONS
KEUFFEL & ESSER CO.
FREQUENCY Hz
10
100
1000
10000
100000
ROOSEVELT HOT SPRINGS
VERTICAL MAGNETIC DIPOLE
OBSERVATIONS AT 300W
ELLIPTICITY
.50
.40
.30
.20
.10
0
90°
80°
70°
60°
50°
40°
30°
20°
10°
0
TILT ANGLE


K-E SEMI-LOGARITHMIC 47 6012
5 CYCLES X 150 DIVISIONS
KEUFFEL & ESSER CO.
FREQUENCY Hz
10
100
1000
10000
100000
ROOSEVELT HOT SPRINGS
VERTICAL MAGNETIC DIPOLE
OBSERVATIONS AT 400W
ELLIPTICITY
50
40
30
20
10
0
TILT ANGLE
90°
80°
70°
60°
50°
40°
30°
20°
10°
0°

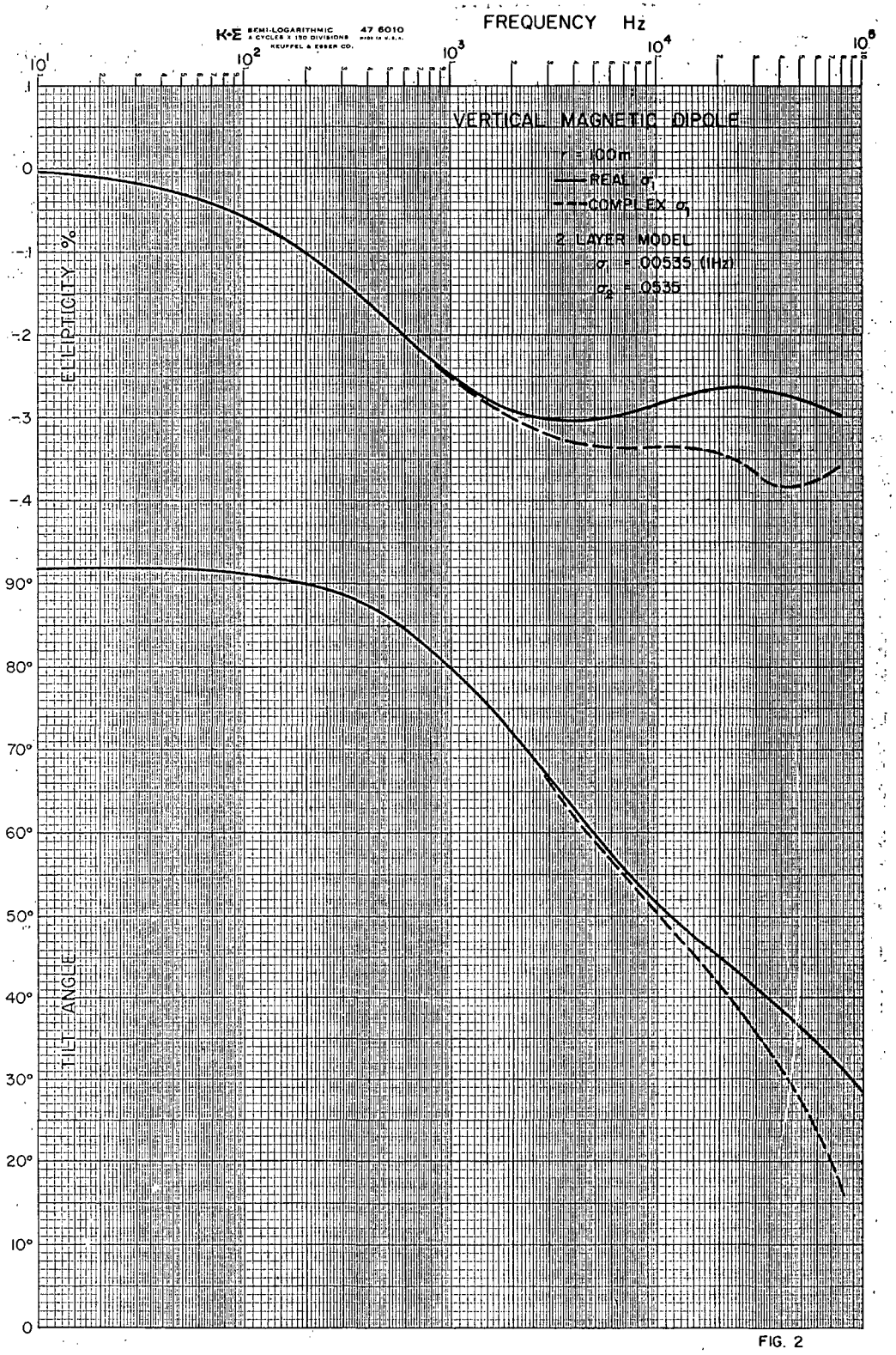

K+E SEMI-LOGARITHMIC 47 6010
FREQUENCY Hz
VERTICAL MAGNETIC DIPOLE
r = 100m
REAL σ1
COMPLEX σ1
2 LAYER MODEL
σ1 = .00535 (IHz)
σ2 = .0535
ELLIPTICITY %
TILT ANGLE

FIG. 2

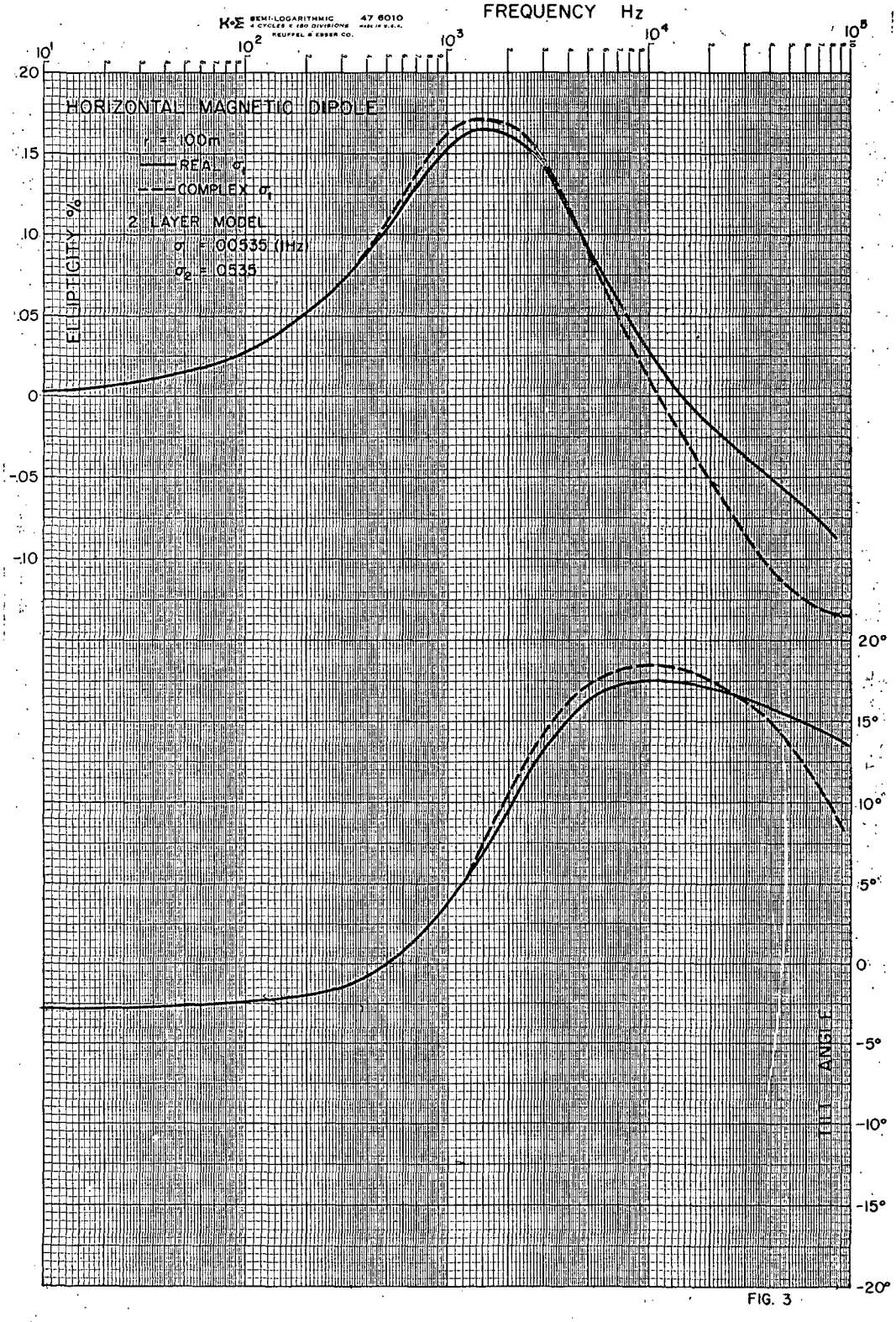

K+E SEMI-LOGARITHMIC 47 6010
4 CYCLES X 180 DIVISIONS
KEUFFEL & ESSER CO.
FREQUENCY Hz
10^1
10^2
10^3
10^4
10^5
HORIZONTAL MAGNETIC DIPOLE
r = 100m
REAL σ_1
COMPLEX σ_1
2 LAYER MODEL
σ_1 = .00535 (mhos)
σ_2 = .0535
ELLIPTICITY %
.20
.15
.10
.05
0
-.05
-.10
20°
15°
10°
5°
0
-5°
-10°
-15°
-20°
TILT ANGLE

FIG. 3

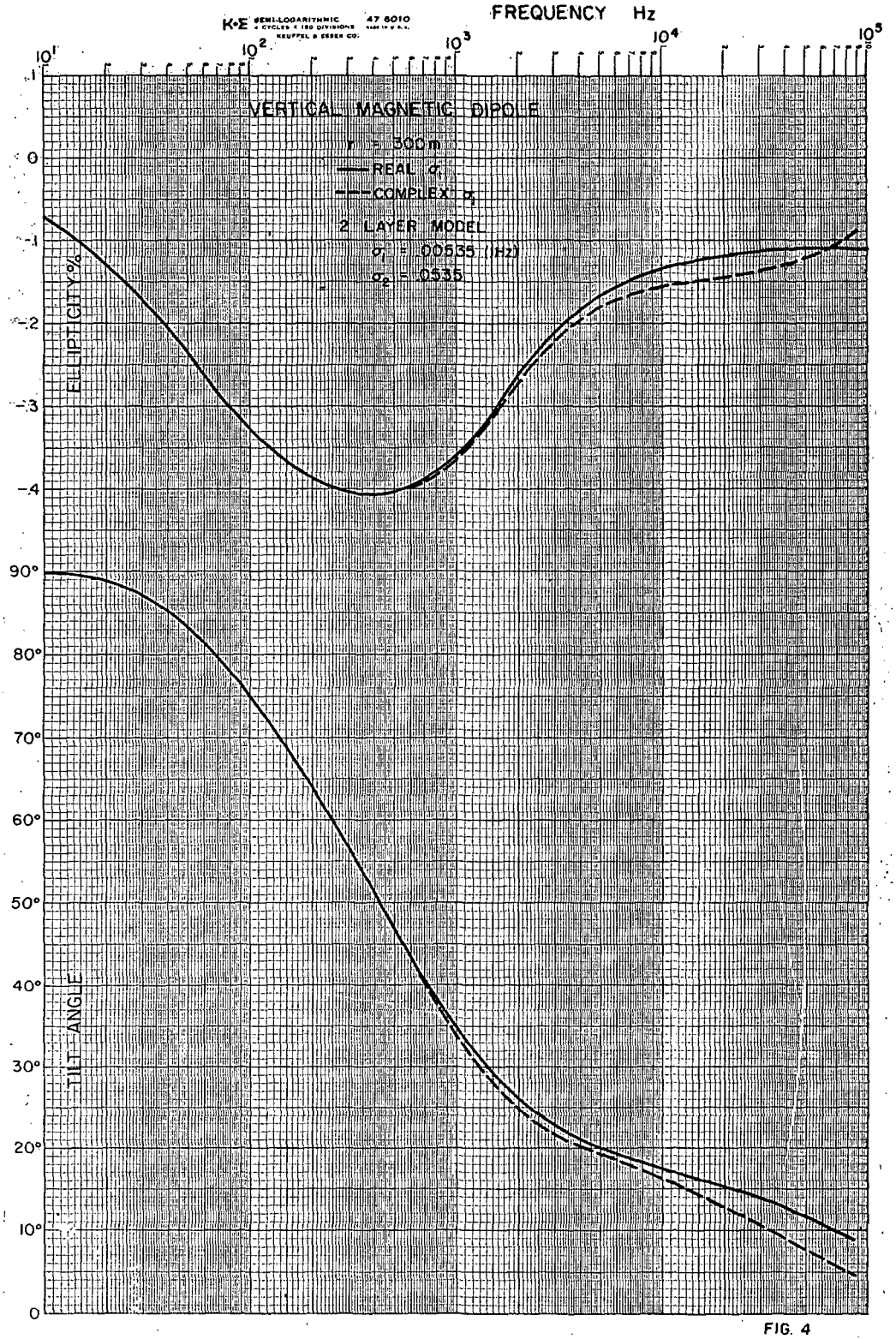

K+E SEMI-LOGARITHMIC 47 5010
FREQUENCY Hz
10^1
10^2
10^3
10^4
10^5
VERTICAL MAGNETIC DIPOLE
r = 300m
REAL σ_1
COMPLEX σ_1
2 LAYER MODEL
σ_1 = .00535 (Hz)
σ_2 = .0535
ELLIPTICITY %
.1
0
-.1
-.2
-.3
-.4
TILT ANGLE
90°
80°
70°
60°
50°
40°
30°
20°
10°
0

FIG. 4

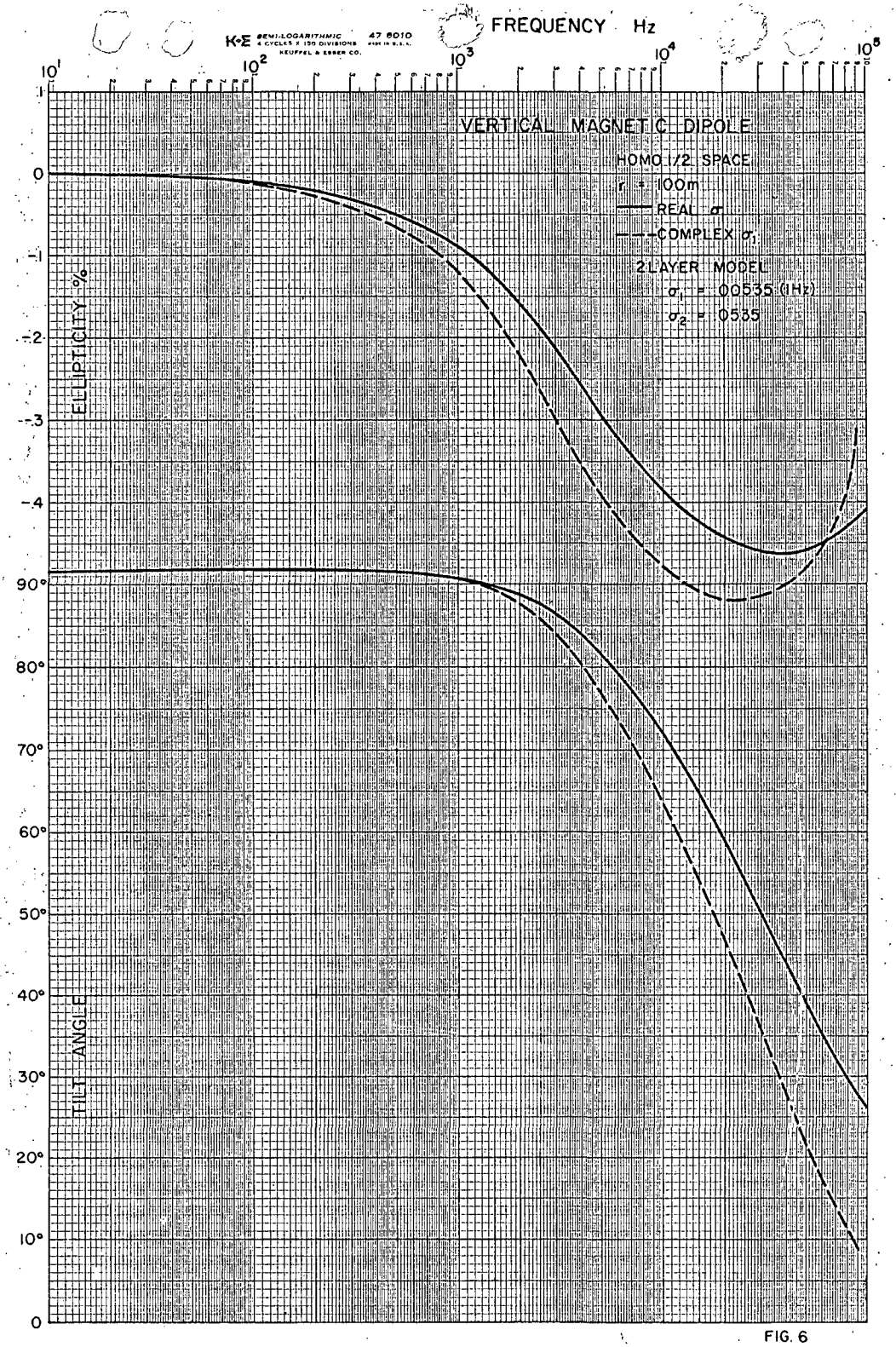

K&E SEMI-LOGARITHMIC 4 CYCLES X 150 DIVISIONS KEUFFEL & ESSER CO. 47 6010
FREQUENCY Hz
10^1
10^2
10^3
10^4
10^5
VERTICAL MAGNETIC DIPOLE
HOMO 1/2 SPACE
r = 100m
REAL σ_1
COMPLEX σ_1
2 LAYER MODEL
σ_1 = .00535 (1Hz)
σ_2 = .0535
ELLIPTICITY %
0
-1
-2
-3
-4
TILT ANGLE
90°
80°
70°
60°
50°
40°
30°
20°
10°
0

FIG. 6

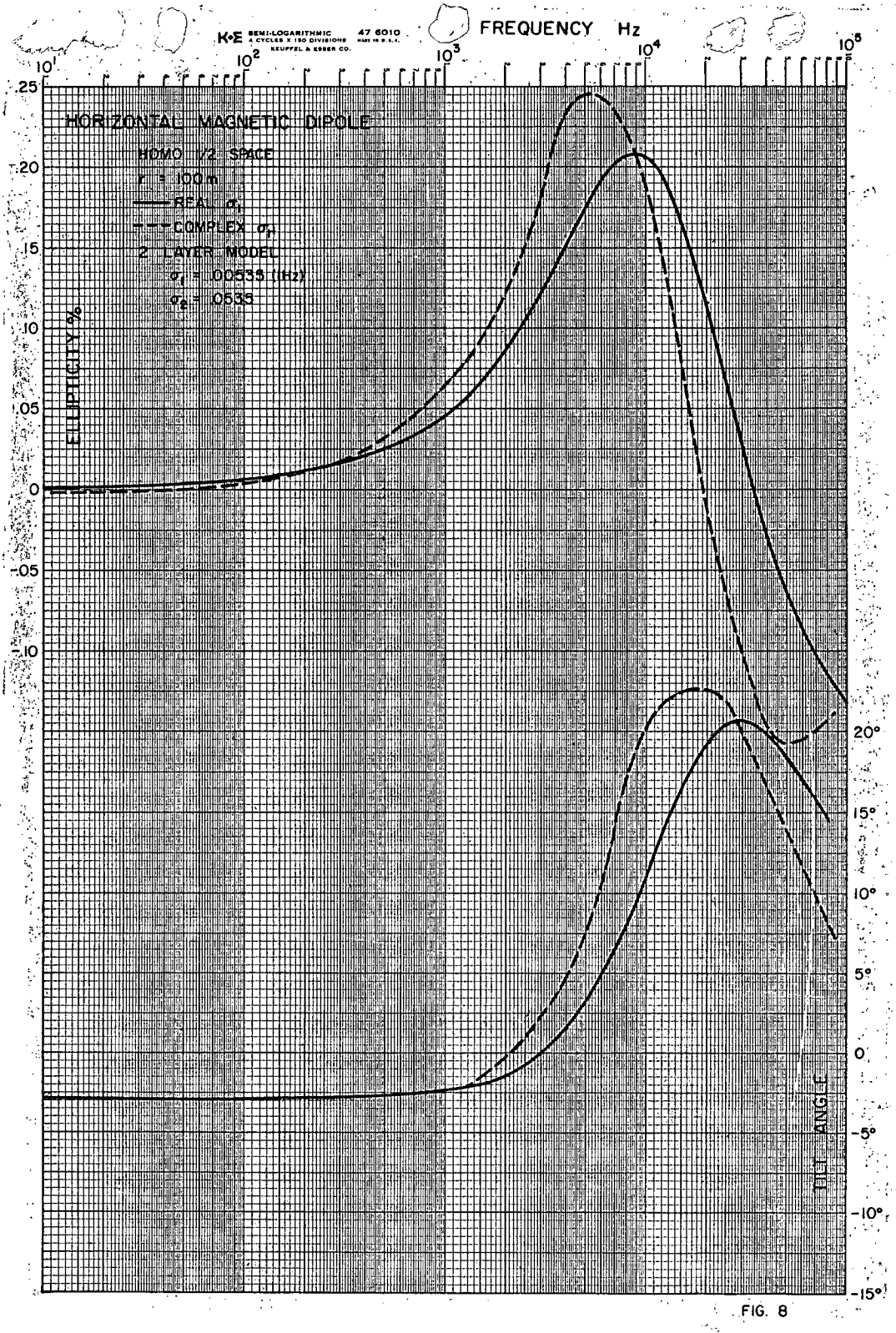
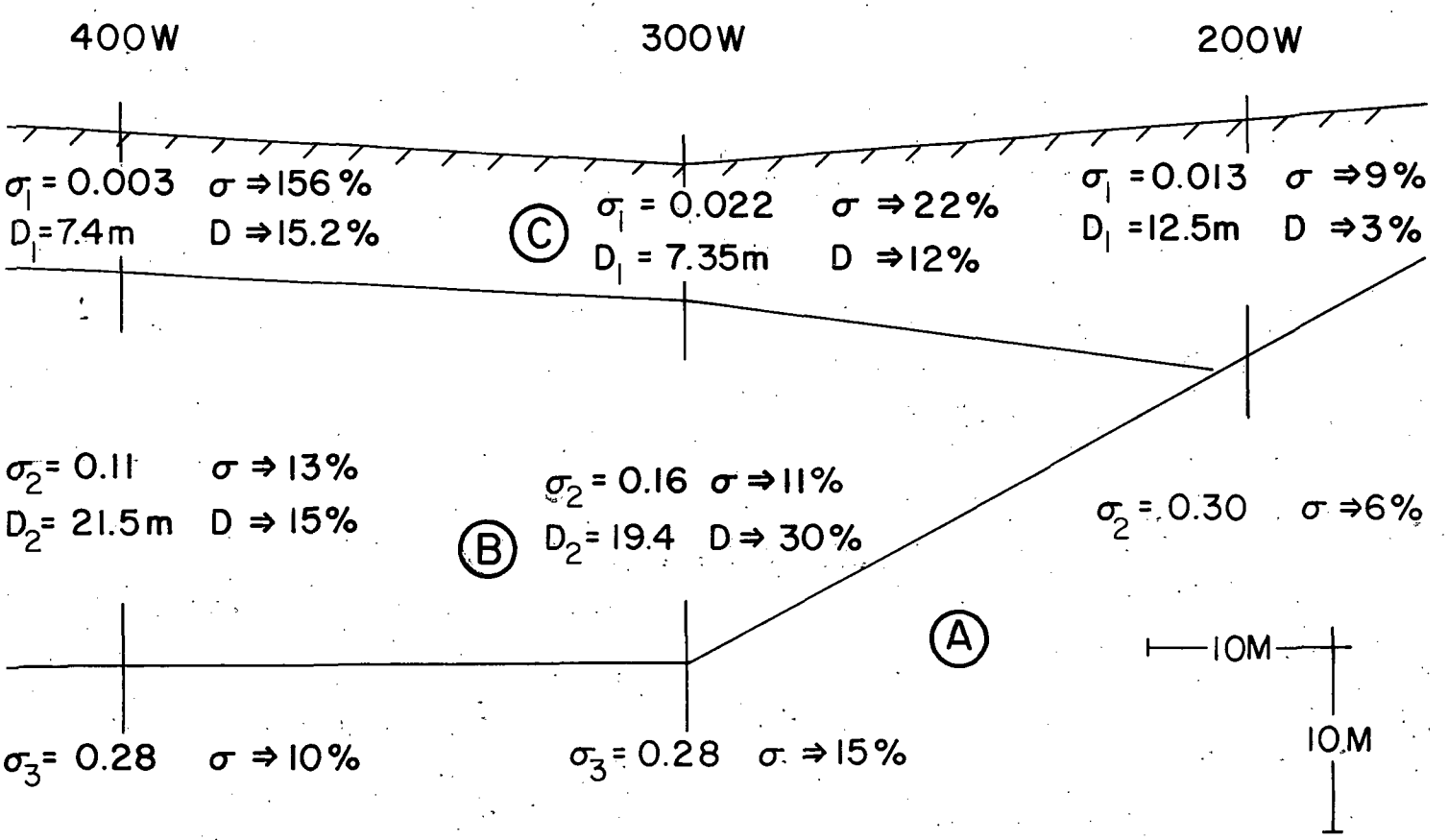

K+E SEMI-LOGARITHMIC 47 6010
4 CYCLES X 150 DIVISIONS
KEUFFEL & ESSER CO.
FREQUENCY Hz
10^1
10^2
10^3
10^4
10^5
HORIZONTAL MAGNETIC DIPOLE
HOMO 1/2 SPACE
r = 100 m
——REAL σ_1
– – –COMPLEX σ_1
2 LAYER MODEL
σ_1 = .00535 (Hz)
σ_2 = .0535
ELLIPTICITY %
.25
.20
.15
.10
.05
0
-.05
-.10
TILT ANGLE
20°
15°
10°
5°
0
-5°
-10°
-15°

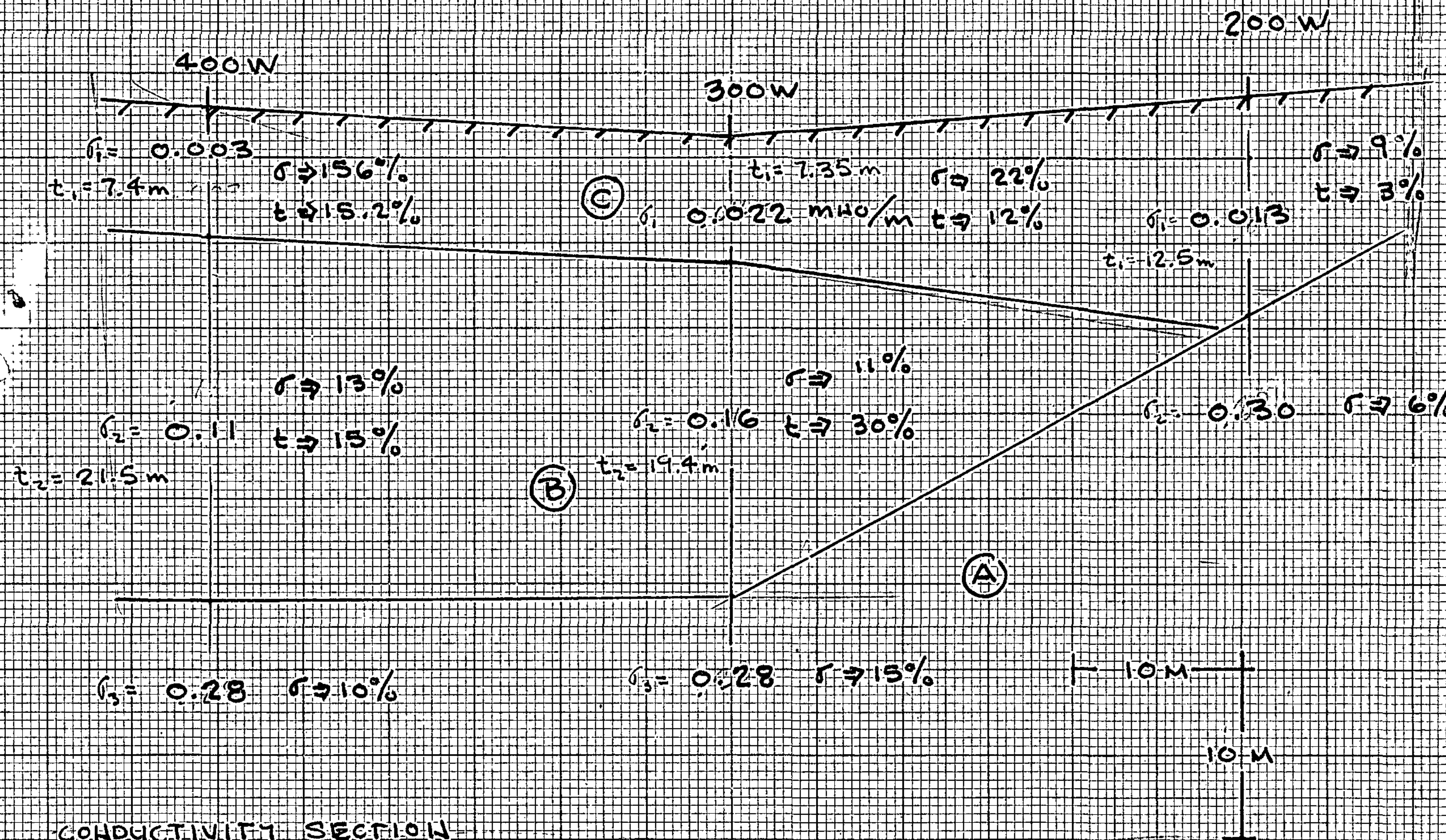
FIG. 8



CONDUCTIVITY SECTION
WITH PERCENT PARAMETER
STANDARD DEVIATION

ROOSEVELT V.M.D.

FIG. 8



CONDUCTIVITY SECTION
WITH PERCENT PARAMETER STD. DEVIATION.

ROOSEVELT V.M.D.

FIG ~~VIII~~ 8

VIII

20 Squares to the Inch

MINIMUM GEOTHERMAL RESERVOIR TEMPERATURES ESTIMATED USING THE SODIUM, POTASSIUM, CALCIUM GEOTHERMOMETER OF FOURNIER AND TRUESDELL (GEOCHIM. COSMOCHIM ACTA 37, 1255, 1973) (TEMPERATURE OF LAST WALL ROCK EQUILIBRATION)

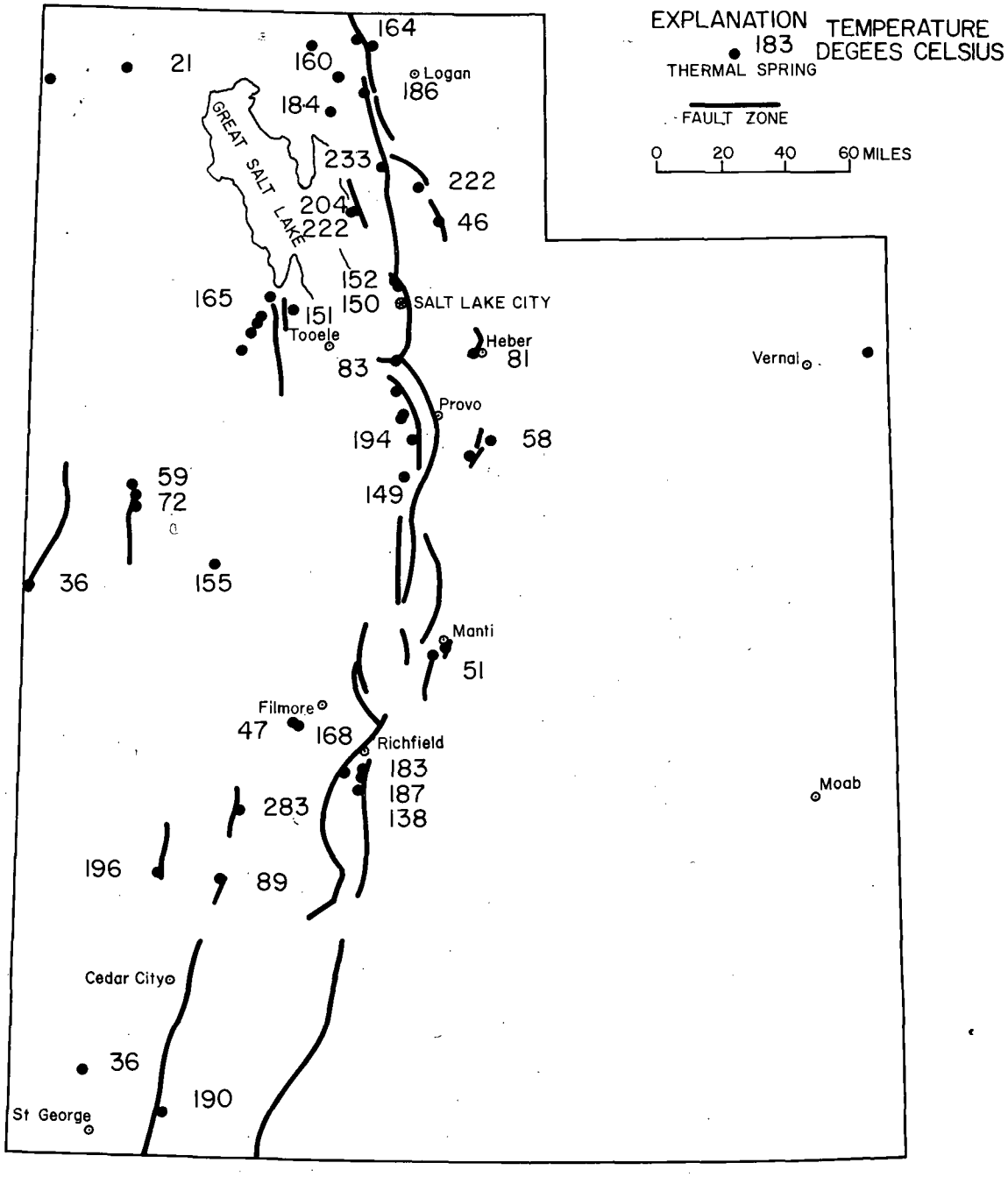


Fig.2.8.1

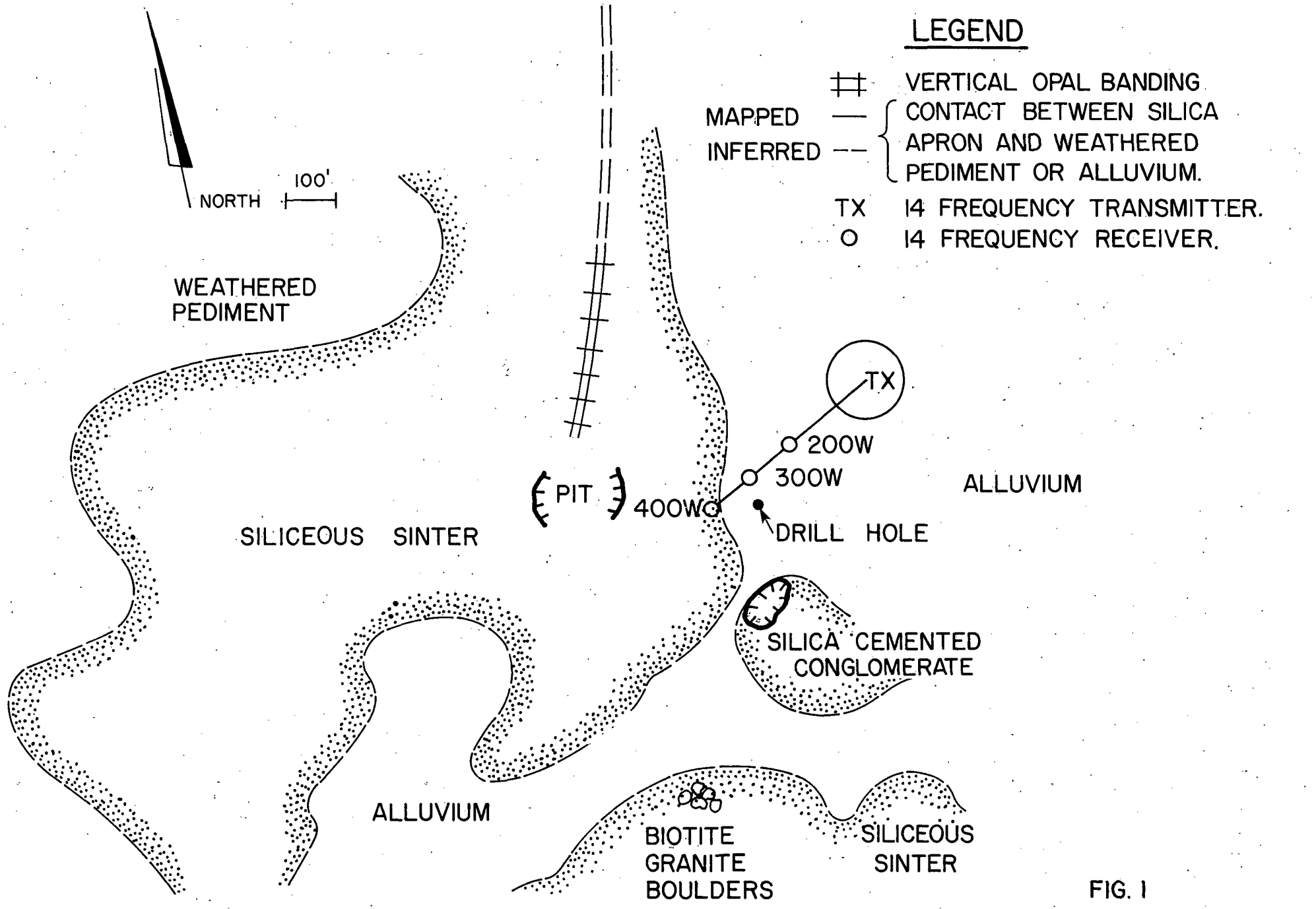

LEGEND
VERTICAL OPAL BANDING
MAPPED
INFERRED
CONTACT BETWEEN SILICA APRON AND WEATHERED PEDIMENT OR ALLUVIUM.
TX 14 FREQUENCY TRANSMITTER.
14 FREQUENCY RECEIVER.
NORTH
100'
WEATHERED PEDIMENT
TX
200W
300W
400W
PIT
DRILL HOLE
ALLUVIUM
SILICEOUS SINTER
SILICA CEMENTED CONGLOMERATE
ALLUVIUM
BIOTITE GRANITE BOULDERS
SILICEOUS SINTER

FIG. 1

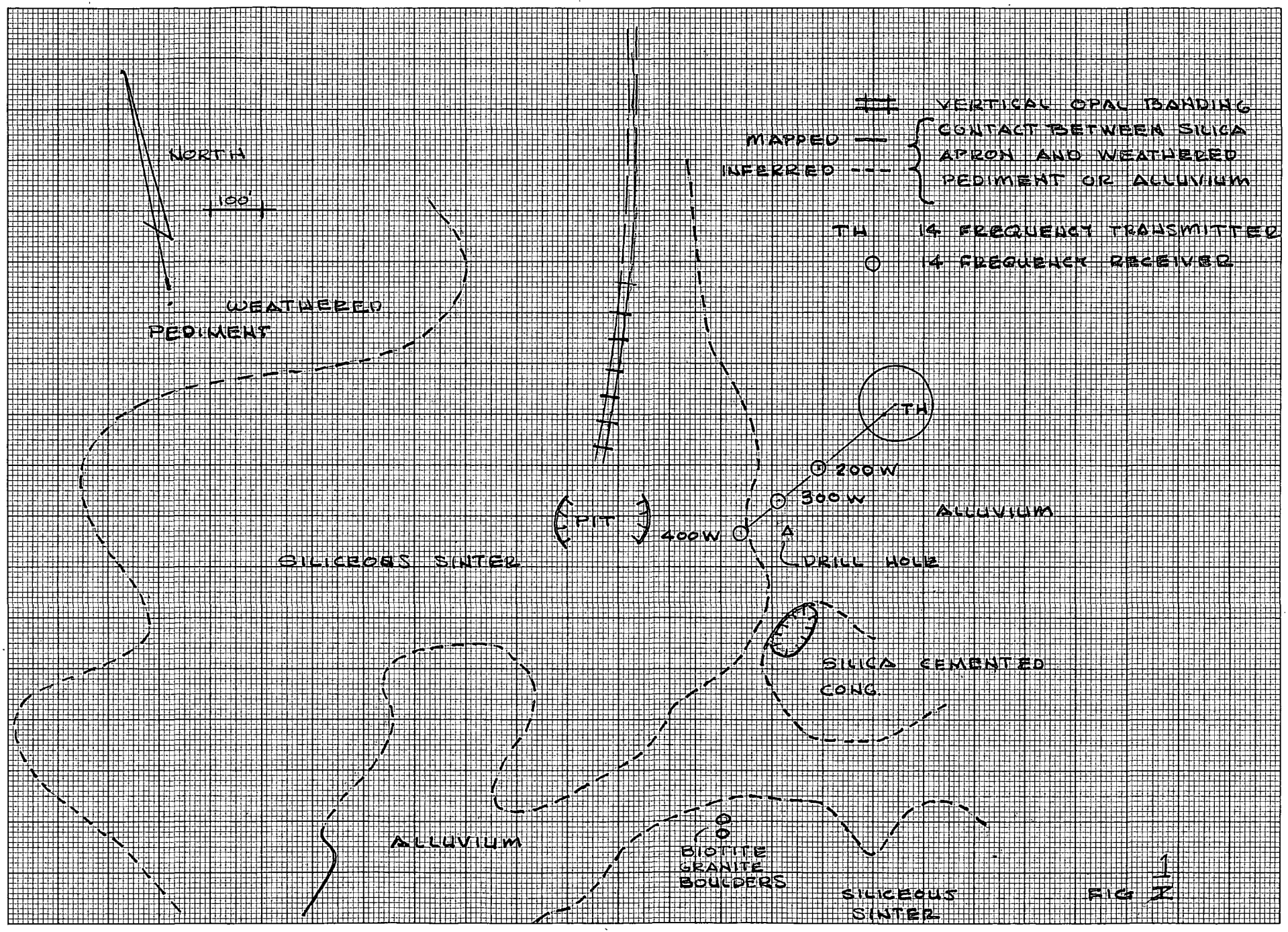


FIG 1

		σ_1	σ_2	
300W	σ_1	1.00		
	σ_2	.49	1.00	
	σ_3	.16	.42	1.0
	t_1	.72	.83	.28
	t_2	.21	.66	.82

200W	σ_1	σ_2	t_1
σ_1	1.00		
σ_2	.25	1.00	
t_1	.39	.65	1.00

200W

	σ_1	σ_2	t_1
σ_1	1.00		
σ_2	.25	1.00	
t_1	.39	.65	1.00

400W

	σ_1	σ_2	σ_3	t_1	t_2
σ_1	1.00				
σ_2	.57	1.00			
σ_3	.21	.42	1.00		
t_1	.81	.84	.30	1.00	
t_2	.12	.54	.81	.28	1.00