

IOFR
NU/TUS/
AMAX-9

GLO2219

MAGNETOTELLURIC SURVEY
TUSCARORA PROSPECT NEVADA

for

AMAX EXPLORATION, INC.

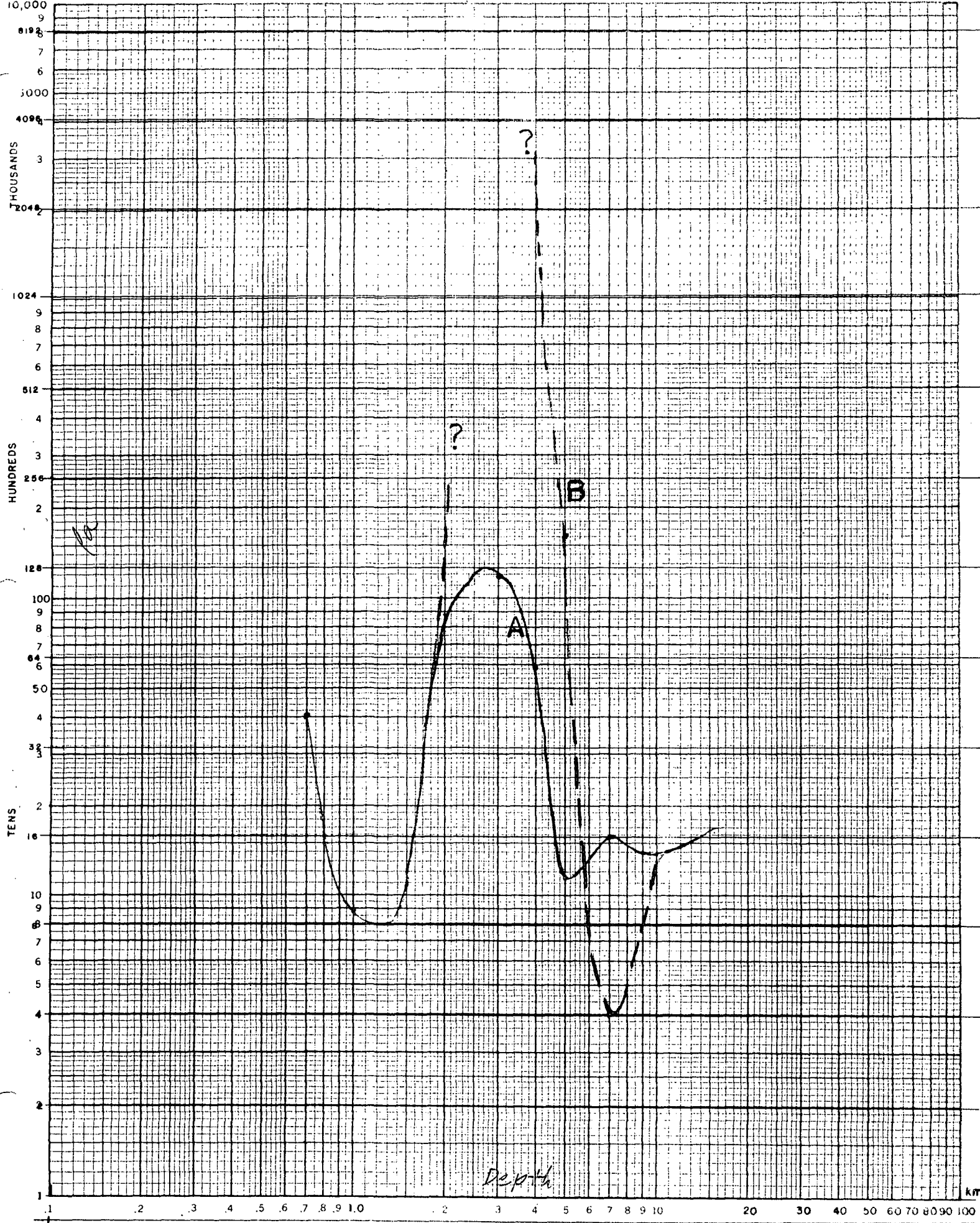
July 1980

by

TERRAPHYSICS
BOX 686
INVERNESS, CALIFORNIA 94937

Some of the enclosed information represents data obtained on July 28th and 29th, 1980 at the Tuscarora prospect, Nevada. One setup was obtained consisting of three sites: one base station (M8a) and two remote locations (A8a and B8a). Two TE Mode inversion (one dimensional) interpretations are presented along lines CC' and DD'. These are indicated on the location map. The data suggest that thermal fluids may lie beneath station A8a at a depth of 500 to 600 meters (a 2 ohm meter resistivity zone) and the source may lie to the south (stations M8a to M3) at depths of 4 to 15 kilometers.

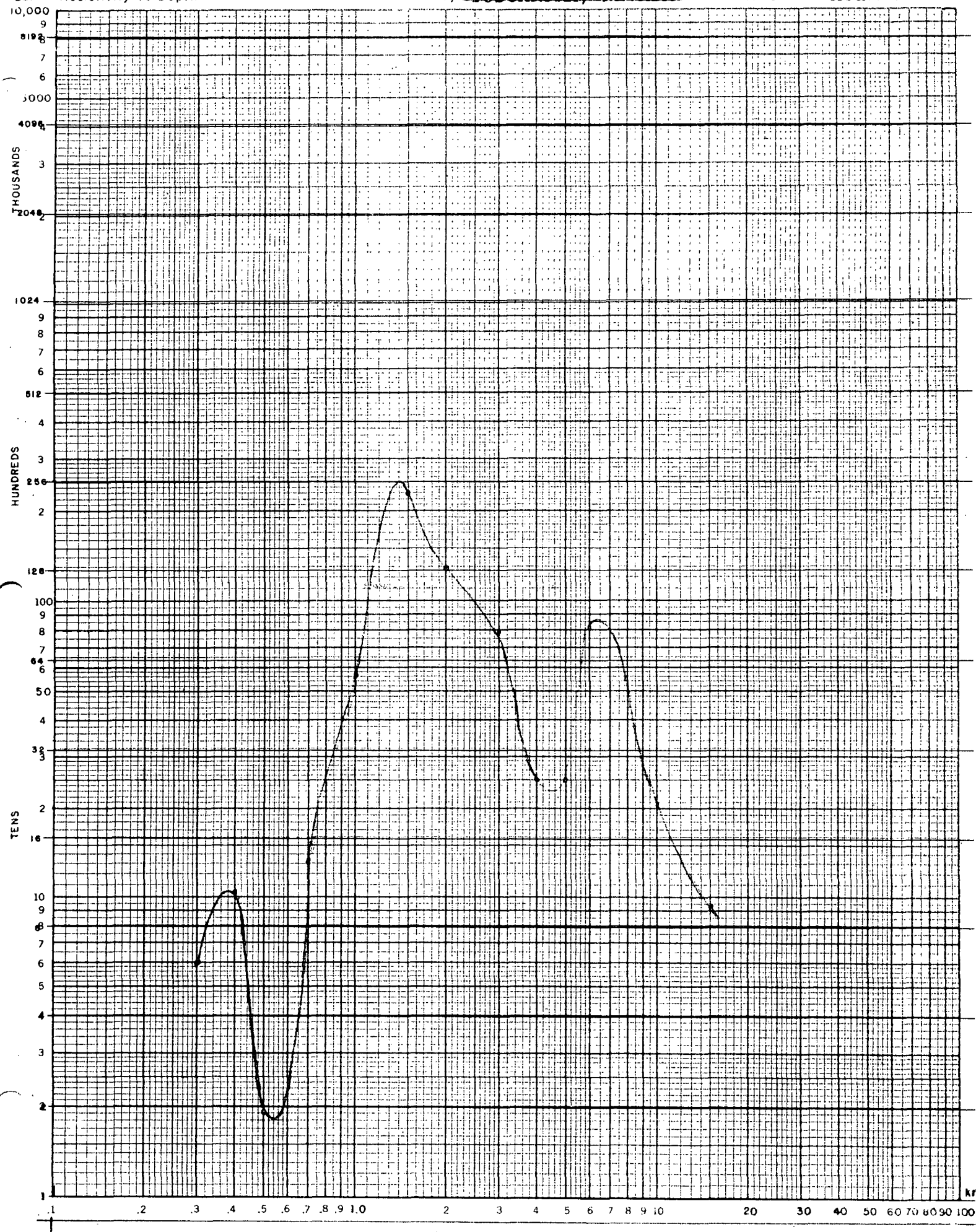
5m Resistivity vs Depth



Ωm Resistivity vs Depth

Proj. TUSCARORA, NEVADA

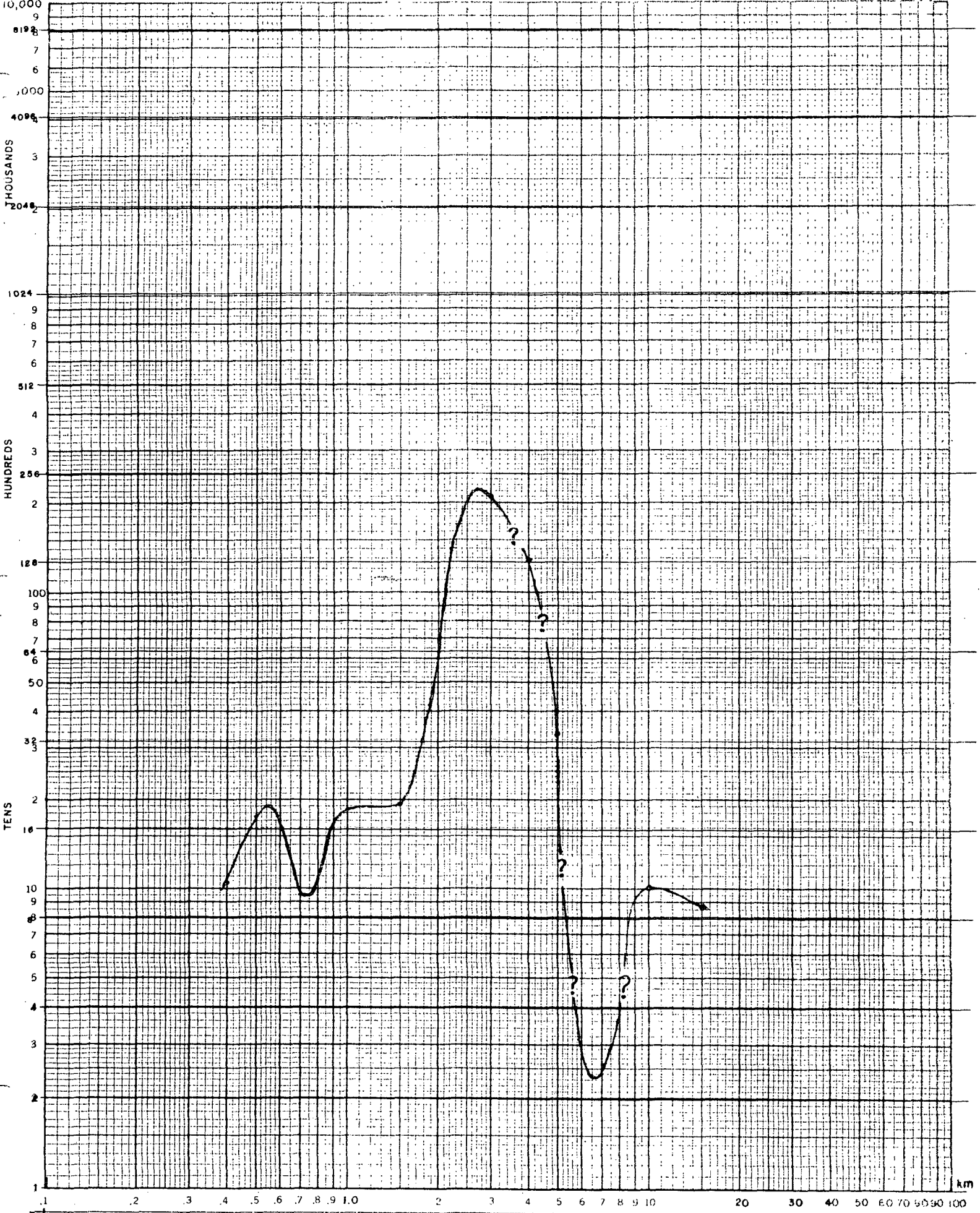
Station A8a



Resistivity vs Depth

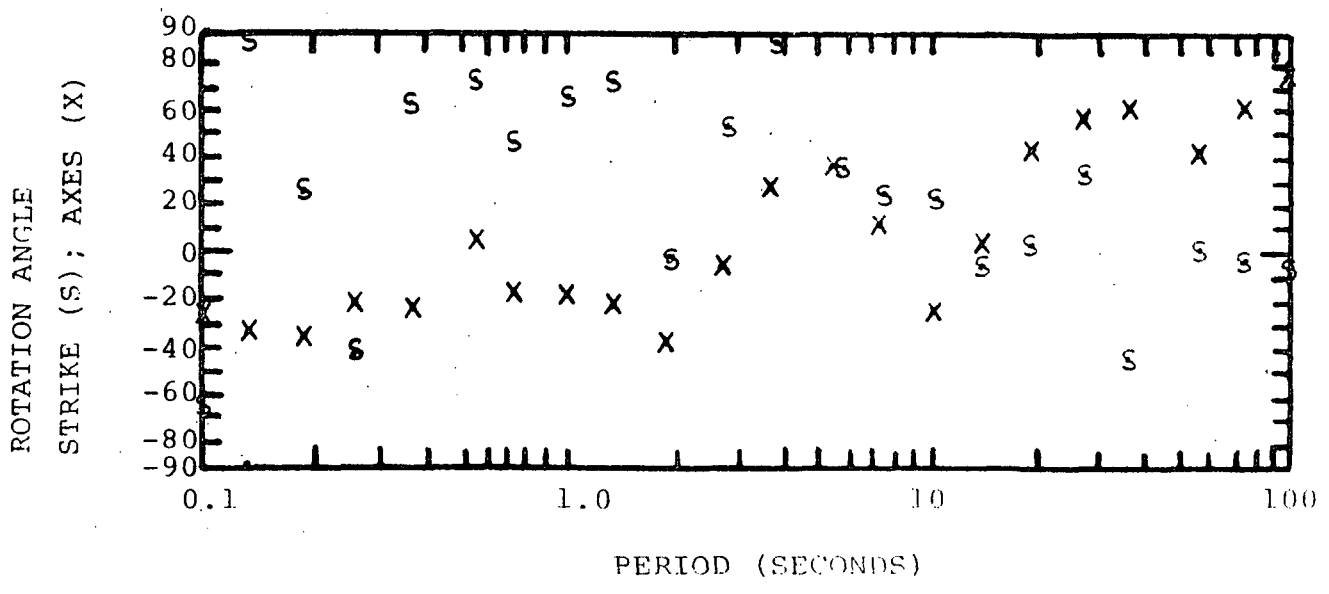
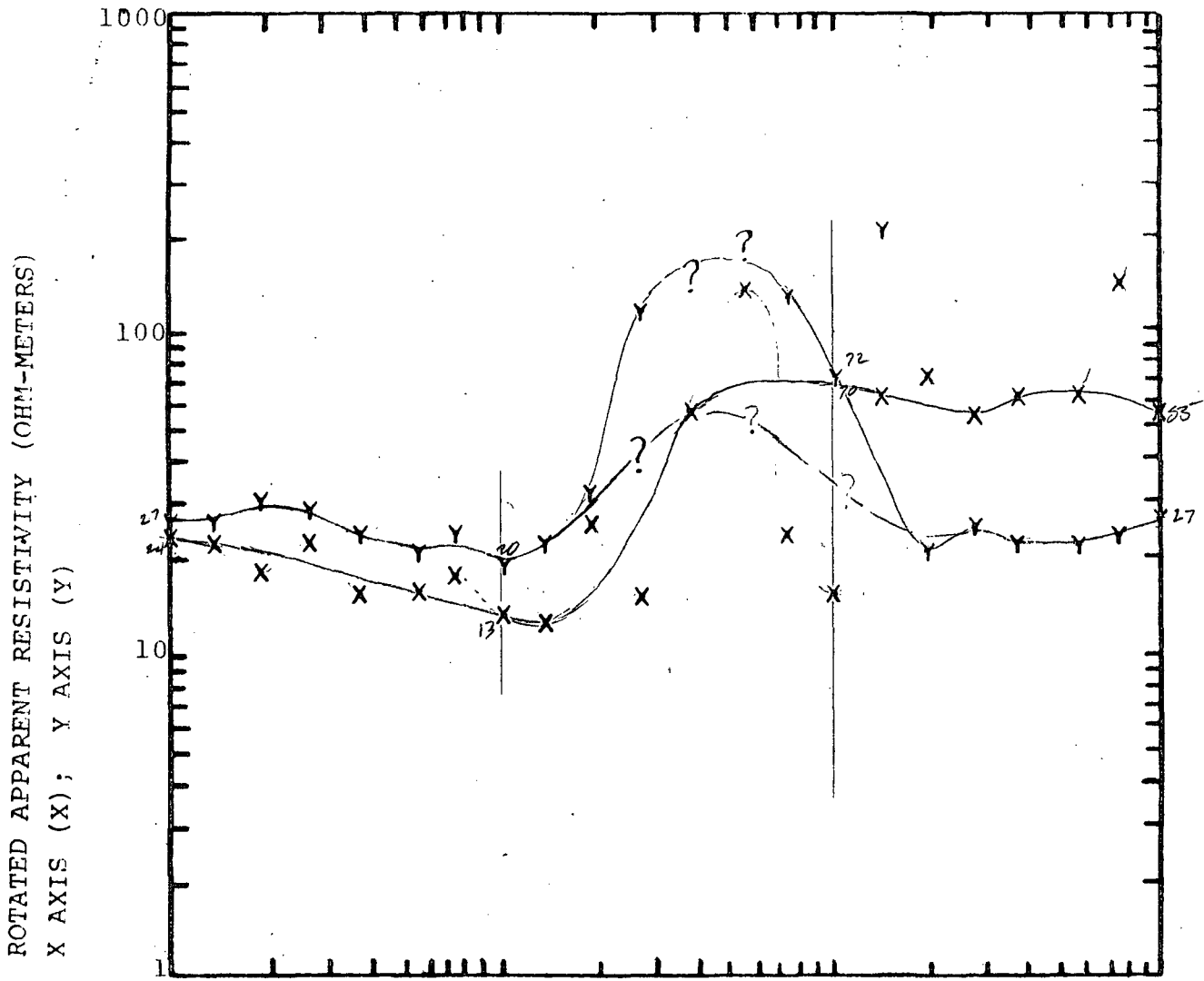
Proj

Station



X - JM ?
 Y - TE ?

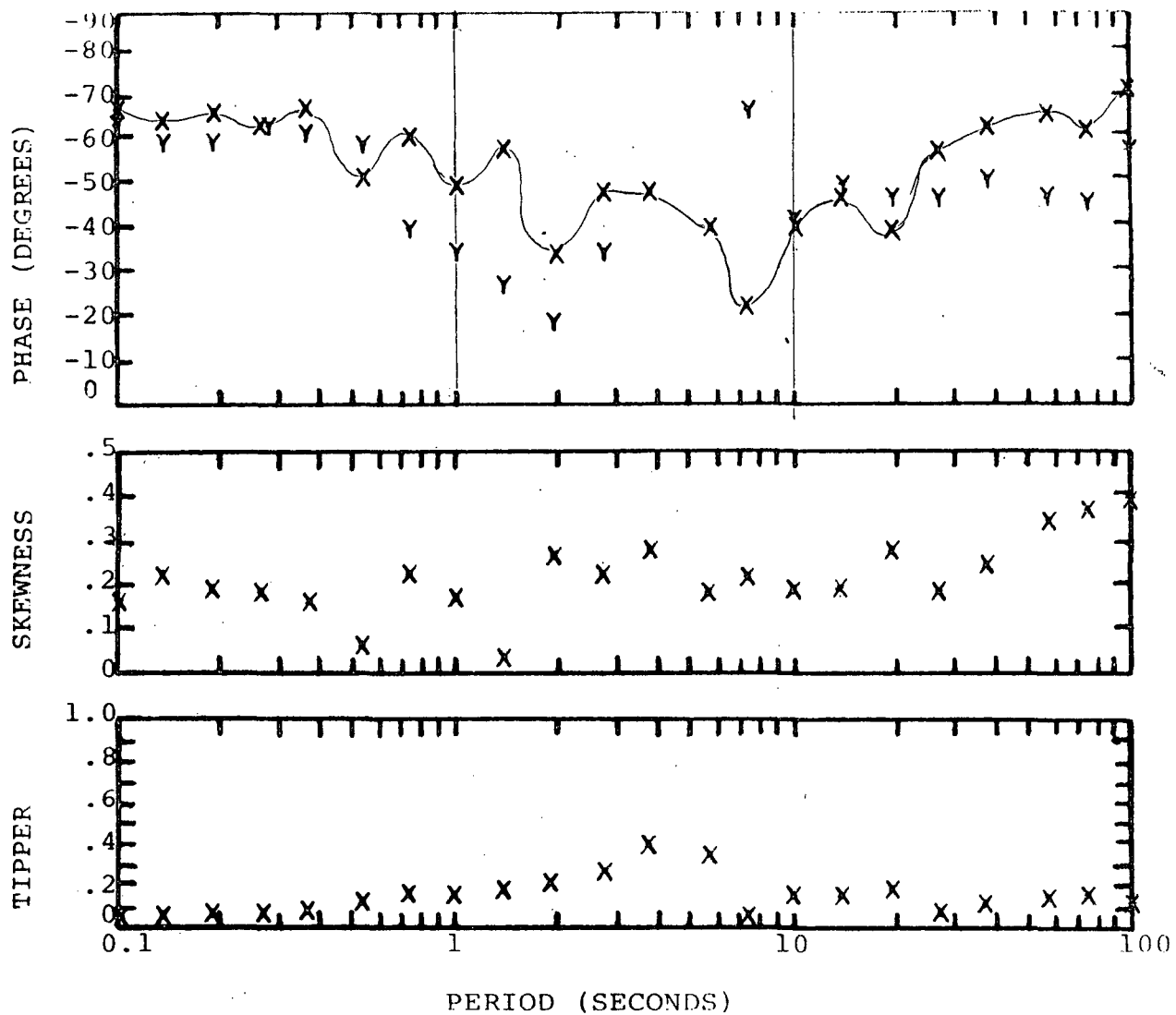
PROSPECT TUSCARORA, NEVADA (July 1980)
 STATION M8a



PERIOD (SECONDS)

TUSCARORA, NEVADA (July 1980)

STATION M8a

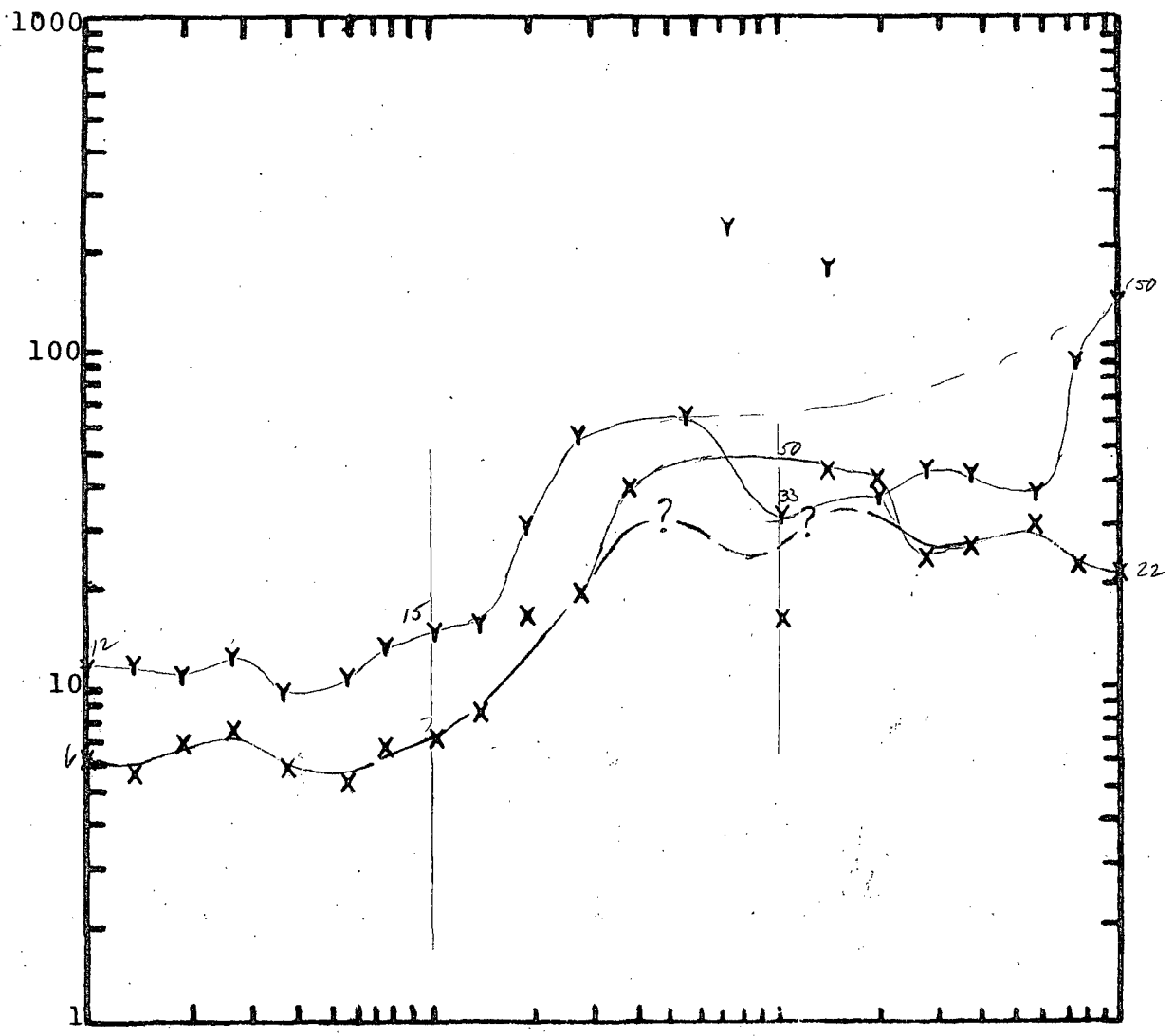


X - TM ?
Y - TE ? 7.

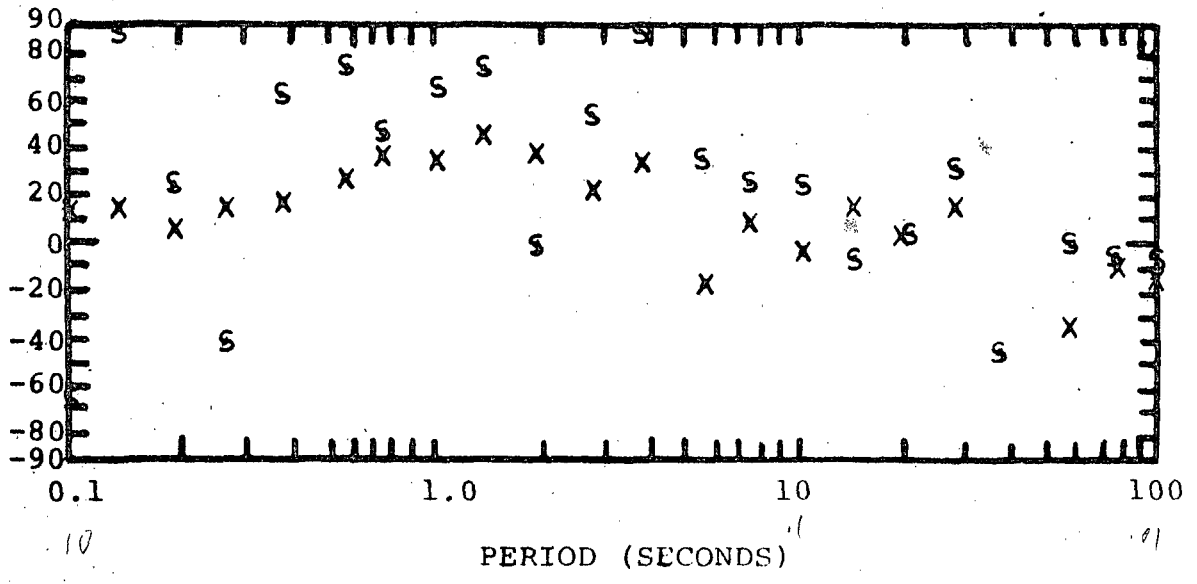
PROSPECT TUSCARORA, NEVADA (July 1980)

STATION A8a

ROTATED APPARENT RESISTIVITY (OHM-METERS)
X AXIS (X); Y AXIS (Y)

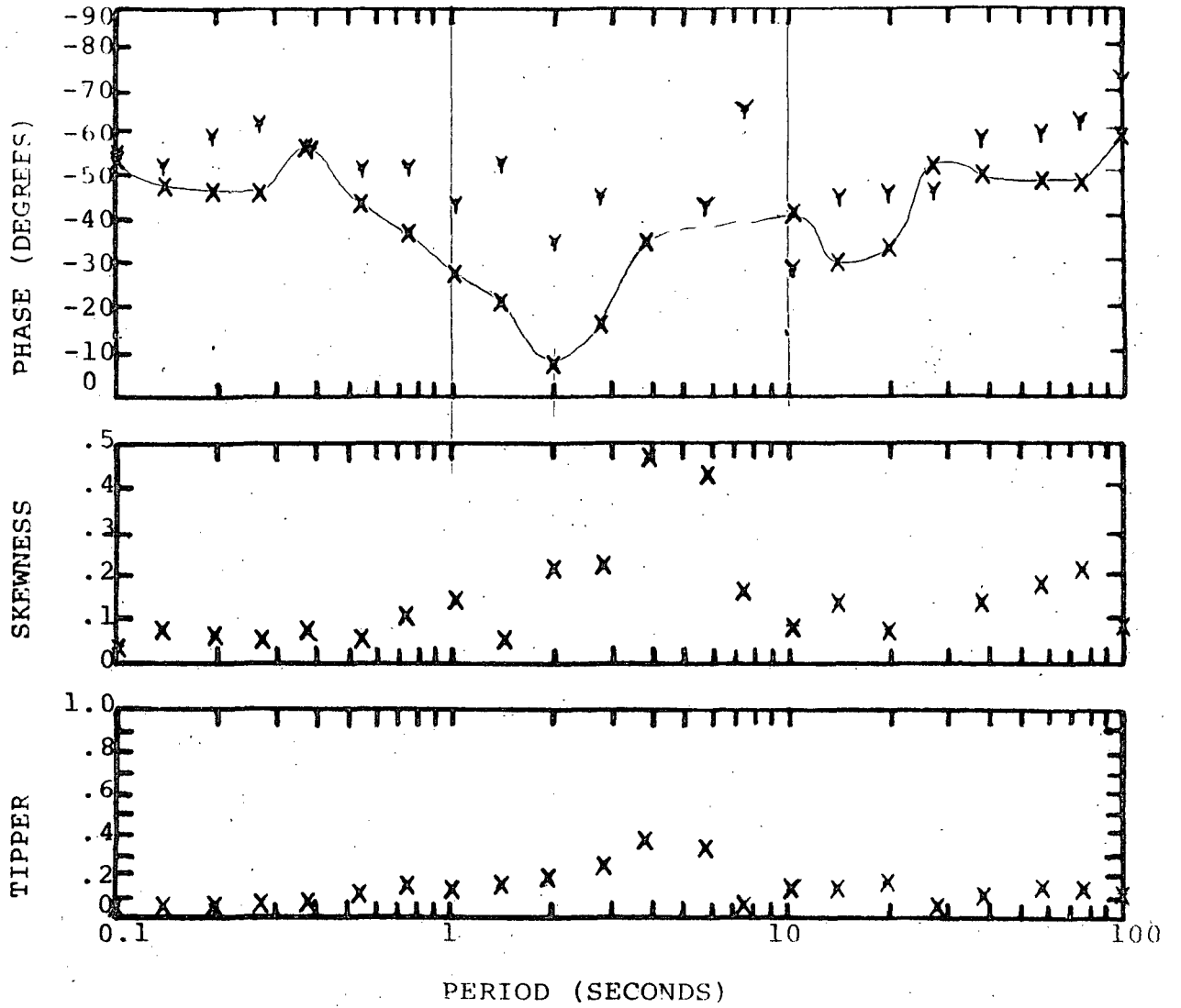


ROTATION ANGLE
STRIKE (S); AXES (X)



TUSCARORA, NEVADA (July 1980)

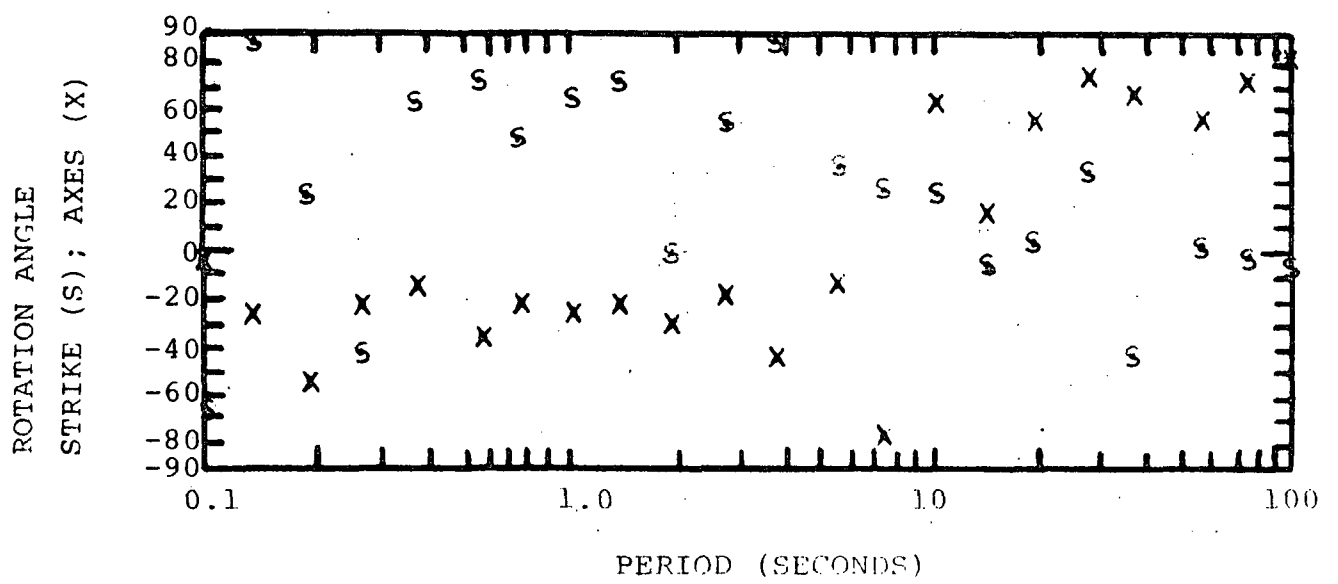
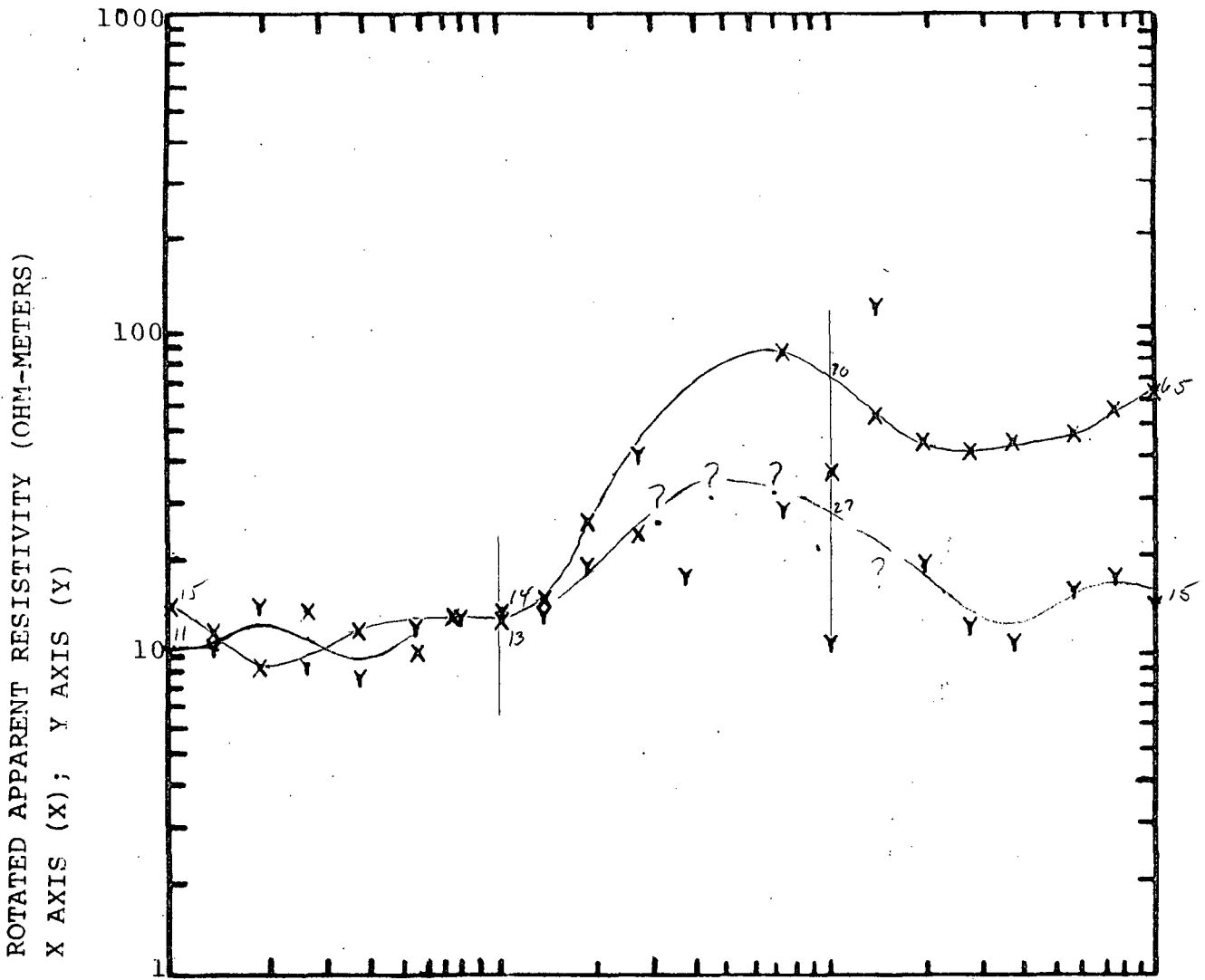
STATION A8a



x - TM ?
y - TE ? 9.

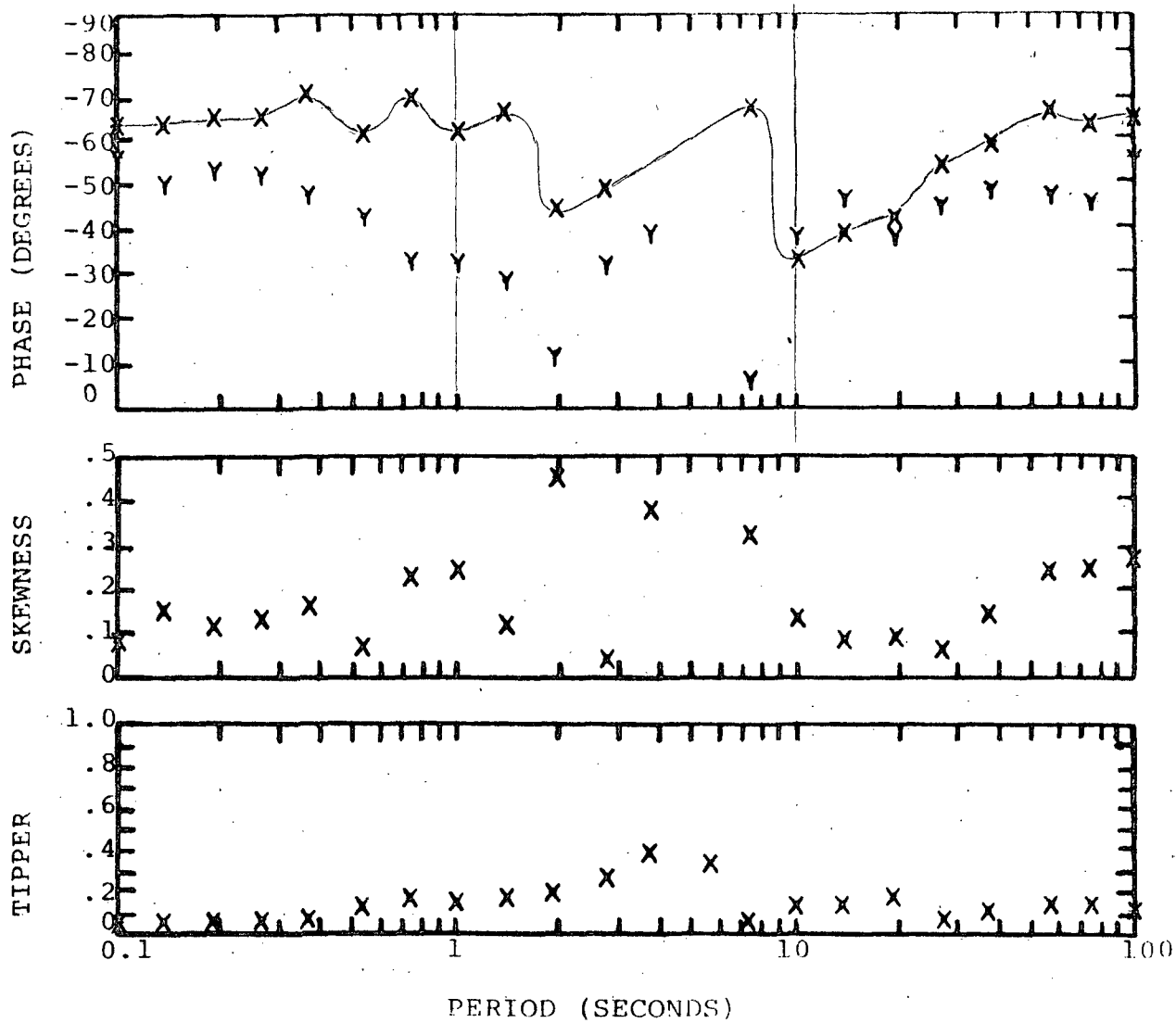
PROSPECT TUSCARORA, NEVADA (July 1980)

STATION B8a



TUSCARORA, NEVADA (July 1980)

STATION B8a



MONTH

JULY 1980

TERRAPHYSICS

PERSONNEL

CHARGE DAYS	DATE	TECHNIQUE	TOTAL STATIONS	PROJECT TUSCARORA, NEVADA LOCATIONS	PERSONNEL			
					MAZZELLA	DORY	LANGE	BERKMAN
1S	28	MT	-	Fill magnetometer in morning Lv Elko 6A.M. drive to Tuscarora prospect, survey M8a, A8a, and B8a; layout dipole wires Rough terrain takes considerable time to drive deep ditches hidden by tall grass. setup electronics Start data about 2P.M. Lightning storm started about 11 A.M. Light rain in afternoon; <u>Low signals</u> Back Elko 5:30 P.M.	X	X		
1S	29	TMT	3	Lv Elko 5:00 A.M. Start data about 10:00A.M. :M8a, A8a, B8a complete stations, pick up equipment, wires Heavy storm coming up, back Elko 4:30 P.M. Rains more than 1 inch in less than an hour Pack equipment for de-mobilization back to California	X	X		
1M	30	Mobilization		Elko to Inverness Ca. , Austin, Nevada	X	X		
N/C	31			Unpack return He dewar				

TOTALS

Survey 2
Mobilization 1

T - TELLURICS OT - ORTHOGONAL TELLURICS MT - MAGNETOTELLURICS

M- MOBILIZATION