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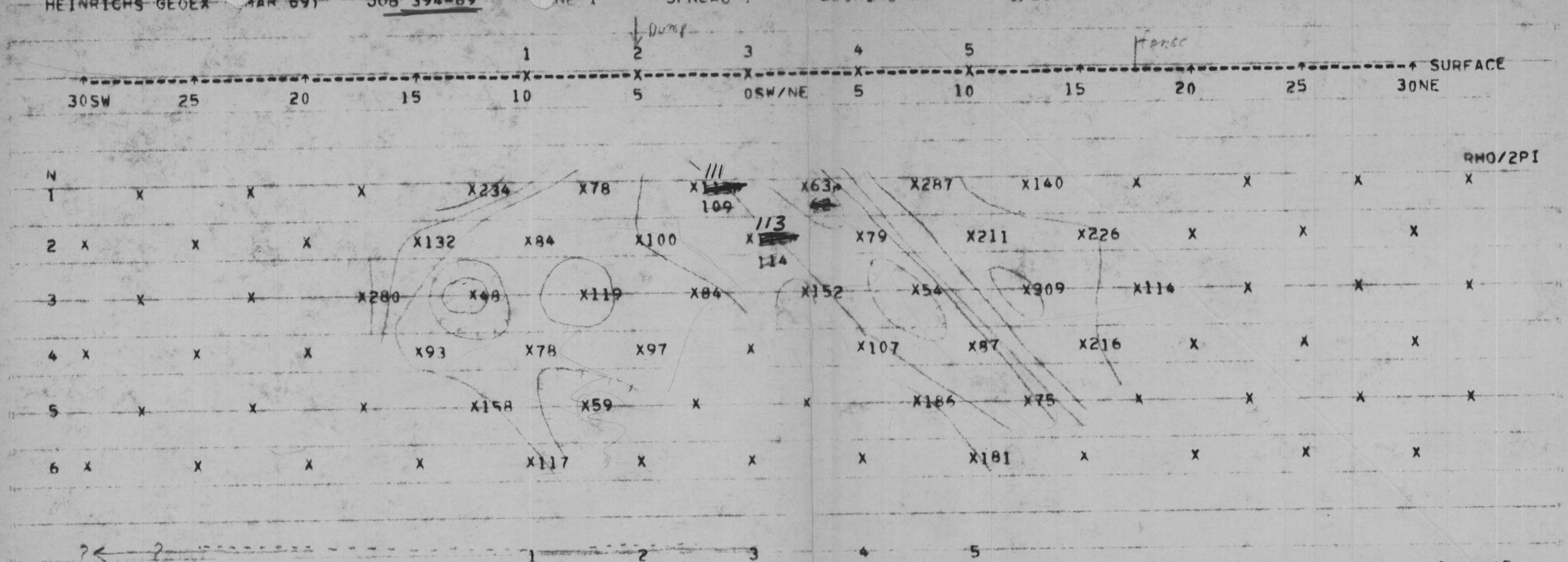
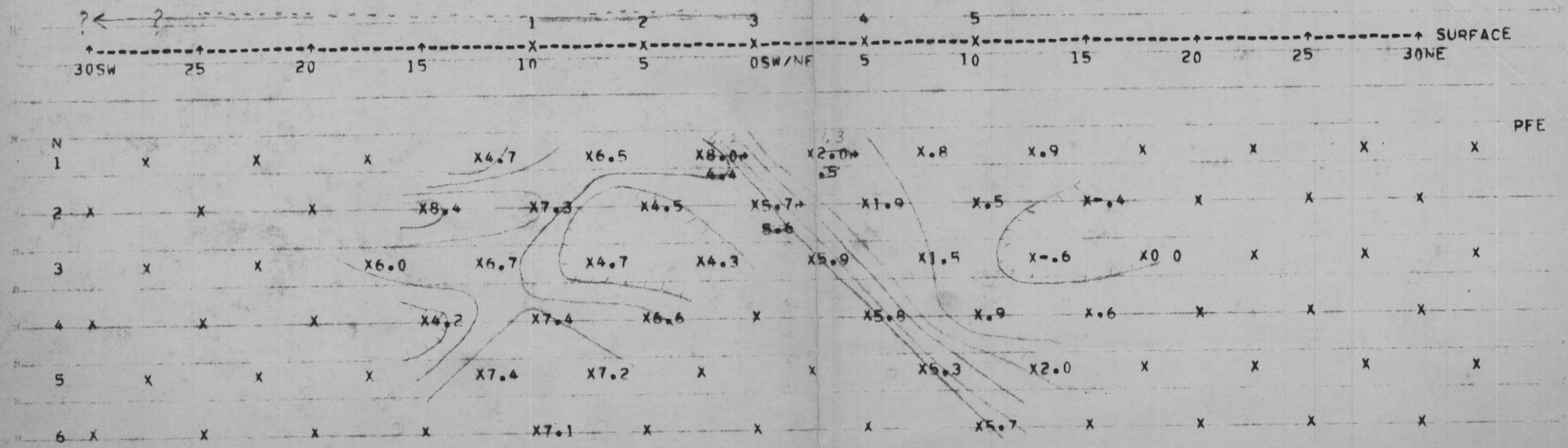
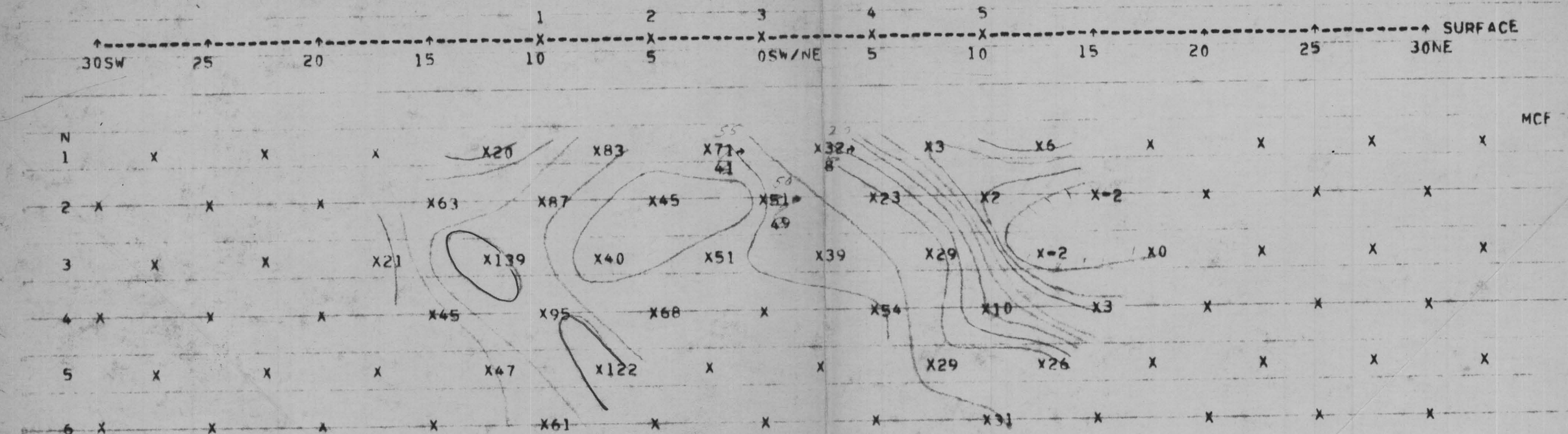
File

HEINRICHS GEOEX (MAR 69) JOB 394-69 LINE 1 SPREAD 1 LOOKING NW 5/20/69 A= 500 FEET, FREQUENCIES .10 AND 3.0



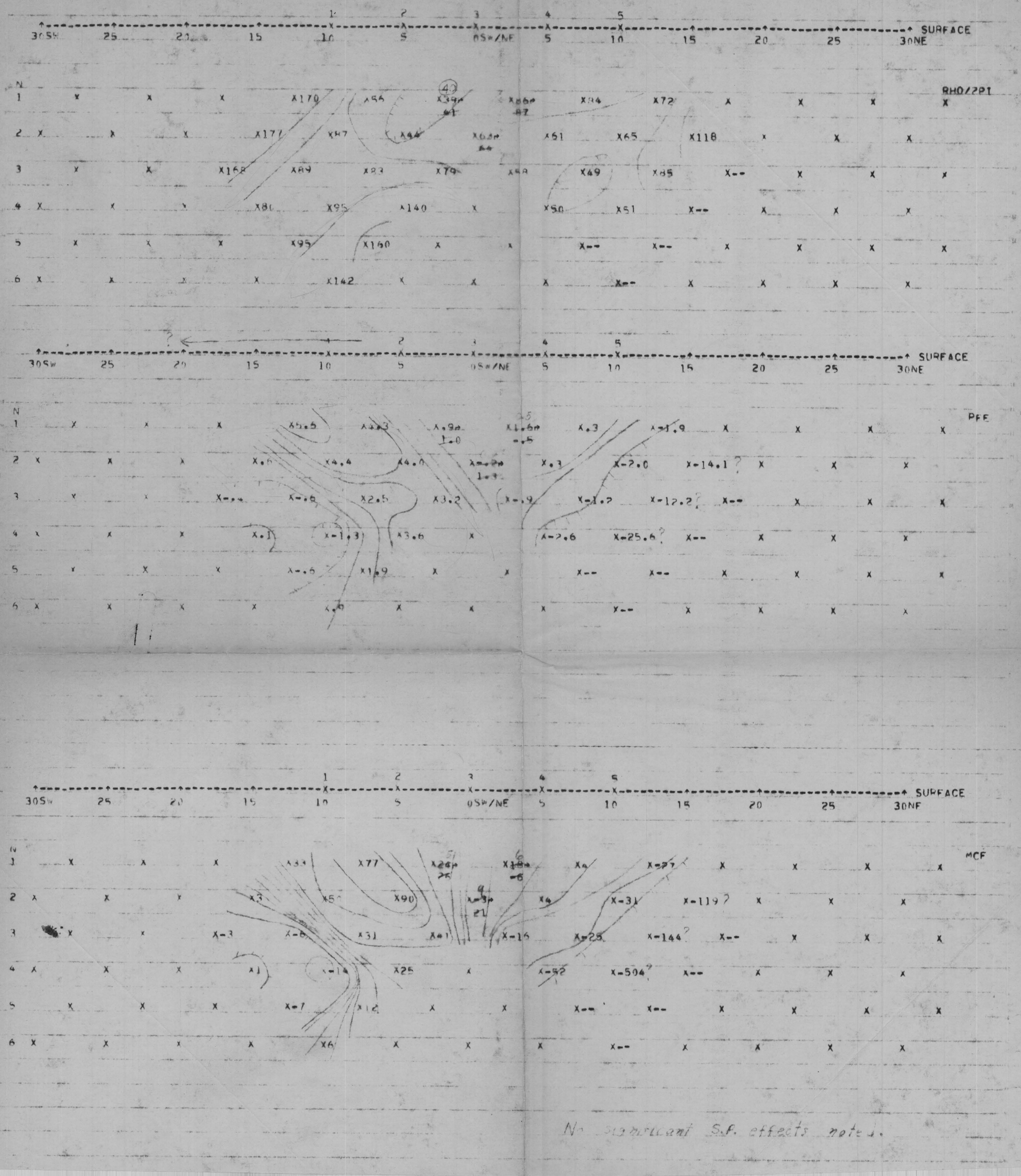




Minor S.P. Low at 5.0 NE

File

HEINRICHS GEOEX MAR 691 JOB 394-69 LINE 2 SPREAD 1 LOOKING NW 5-28-69 A= 500 FEET, FREQUENCIES .10 AND 3.0



No significant S.P. effects noted.

Howard Birchfield

TED L. HANKS
1. TWO 500A LINES
APP. 560W BEARING

2. ROUGH PLOT
3. BASIC METALS, INC (SL.C)
4. SOMEONE AT MIDDLE MARCH MINE
TO HELP LOCATE LINES

5. LINES ARE
FLAGGED 5'
REP. SAMPLE
TRAVERSE
MARCLES IF POSS.

6. SEND DATA
TO ME
AT
SALEM UTAH

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PEARCE QUADRANGLE
ARIZONA—COCHISE CO.
15 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by ER-55 plotter
Aerial photographs taken 1956. Field check 1958

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, east zone
1000-meter Universal Transverse Mercator grid ticks,
zone 12, shown in blue

Unchecked elevations are shown in brown

Land lines unsurveyed in parts of T. 18 S.–R. 24 E.

TRUE NORTH
MAGNETIC NORTH
13°
APPROXIMATE MEAN DECLINATION, 1958

SCALE 1:62 500

CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ARIZONA
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Medium-duty — Light-duty
Unimproved dirt
U. S. Route

#394

PEARCE, ARIZ.
N3145—W10945/15
1958

June 4, 1969

Mr. Ted L. Hanks
P. O. Box 247
Salem, Utah 84653

Dear Ted:

Despite all the trials and tribulations the two lines requested at Middle March Mine are completed. I would suppose that Howard Birchfield has by now told you that we also lost a day on account of the U.S. Forest Services. They didn't like our generator!'

Enclosed are the computer work sheets showing the results of the survey and interpretation as requested. This letter will be the final report.

Line 1 over the mine is quite anomalous over all of the SW half with moderate frequency effects centered 500 feet SW of center, near the dump. A second and possibly stronger anomaly may be centered at about 22.5 SW. This is based on an incomplete anomaly pattern and therefore both its strength and position is questionable. The very weak interpretation shown between these anomalies is probably interference fringe effects from these anomalies or possibly to a southwest dip of the polarizing body.

Line 2 is very strange. Very strong negative PFE values were measured on the NE end of the line which I can not trust but which the crew insists are valid. At this point all I can suggest as an explanation is that the electrodes were crossing a massive conductor imbeded in high resistivity material-probably outcropping. The lack of any S.P. low in that area tends to squash that idea completely.

The southwest end of the line is weakly anomalous from 7.5 SW to at least 20 SW. This anomaly undoubtedly represents the same mineralization as the anomaly on Line 1.

I hesitate to suggest that we do more work here as it seems to be a real disaster area for Geoex. However, if this anomaly appears to correlate with your established zone of interest I strongly urge that you contemplate tracing this anomaly completely. Since the source seems to be very near surface, 200 foot dipoles might be used to more advantage in guiding a drilling program although somewhat more expensive than 500 foot dipoles for an equal area.

We have also been working with a gradient array I. P. technique recently which in many cases is more economical and will usually offer about the same or greater resolution of closely spaced parallel anomalies while also showing anomalies from deep mineralization.

Please feel free to come in and discuss any portion of this job with us.

Very truly yours,

HEINRICHS GEOEXPLORATION COMPANY

Paul A. Head
Geophysicist

PAH/rc

Enclosures: 2 Sectional Data Sheets

1 Final Billing