



42A11NW004 2.799 PROSSER

010

Texas Gulf Sulphur Company
Report on Geophysical Work
in
Prosser Township

Claims: P293823 - P293826

A geophysical survey, consisting of magnetometer and horizontal loop traverses, was carried out over this group of 4 contiguous claims, located in the S $\frac{1}{2}$ of Lot 5, Con I, Prosser Township. The results of the survey are as follows:

Magnetic:

The magnetic survey shows two highs, both trending north-east. The source of the one on Lines 0+00W and 3+00W is a body of higher susceptibility material, probably basic rock, at a depth of less than 200 feet. It's indicated dip is to the north-west.

The source of the anomaly on Lines 24+00W and 26+00W is considerably shallower - approximate depth = 75 feet. Dip is vertical.

MARCH, 1972

Excepting the above features, the magnetic results are essentially flat and do not reflect any geologic features.

Horizontal Loop:


The only anomalous response obtained is on Line 24+00W at the Base Line. The weak anomaly appears to be caused by a narrow zone of poor conductivity located at a depth of 100 feet and, thus, represents a bedrock conductor. Dip is near vertical.

The anomaly lies at the eastern end of the magnetic high but is actually coincident with a local magnetic low. There is no indication of the conductive zone on adjacent lines.

Conclusions:

The conductor detected by the horizontal loop survey shows poor conductivity and no direct magnetic correlation. It does, however, seem to reflect a bedrock source. In view of the deep overburden in this area, electromagnetic methods with greater depth penetration, such as vertical loop, might be attempted for further investigation.

JAS:ks


J.A. Slankis

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS MAG: 487 MAG: 487
Number of Stations EM: 242 Number of Readings EM: 242
Station interval EM: 100' (50' detail) MAG:
Line spacing 300'
Profile scale or Contour intervals EM: 1" = 20% MAG: 50 gammas
(specify for each type of survey)

MAGNETIC

Instrument ELSEC # 592, Proton precession, total field
Accuracy - Scale constant ± 2 γ
Diurnal correction method Looping
Base station location At base line on line 0+00W

ELECTROMAGNETIC

Instrument Geonics EM 17
Coil configuration Horizontal Loop
Coil separation 300'
Accuracy ± 2% on In-phase and Quadrature
Method: [] Fixed transmitter [] Shoot back [x] In line [] Parallel line
Frequency 1600 Hz
Parameters measured In-phase and quadrature components of secondary field as percent of primary.
(specify V.L.F. station)

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location

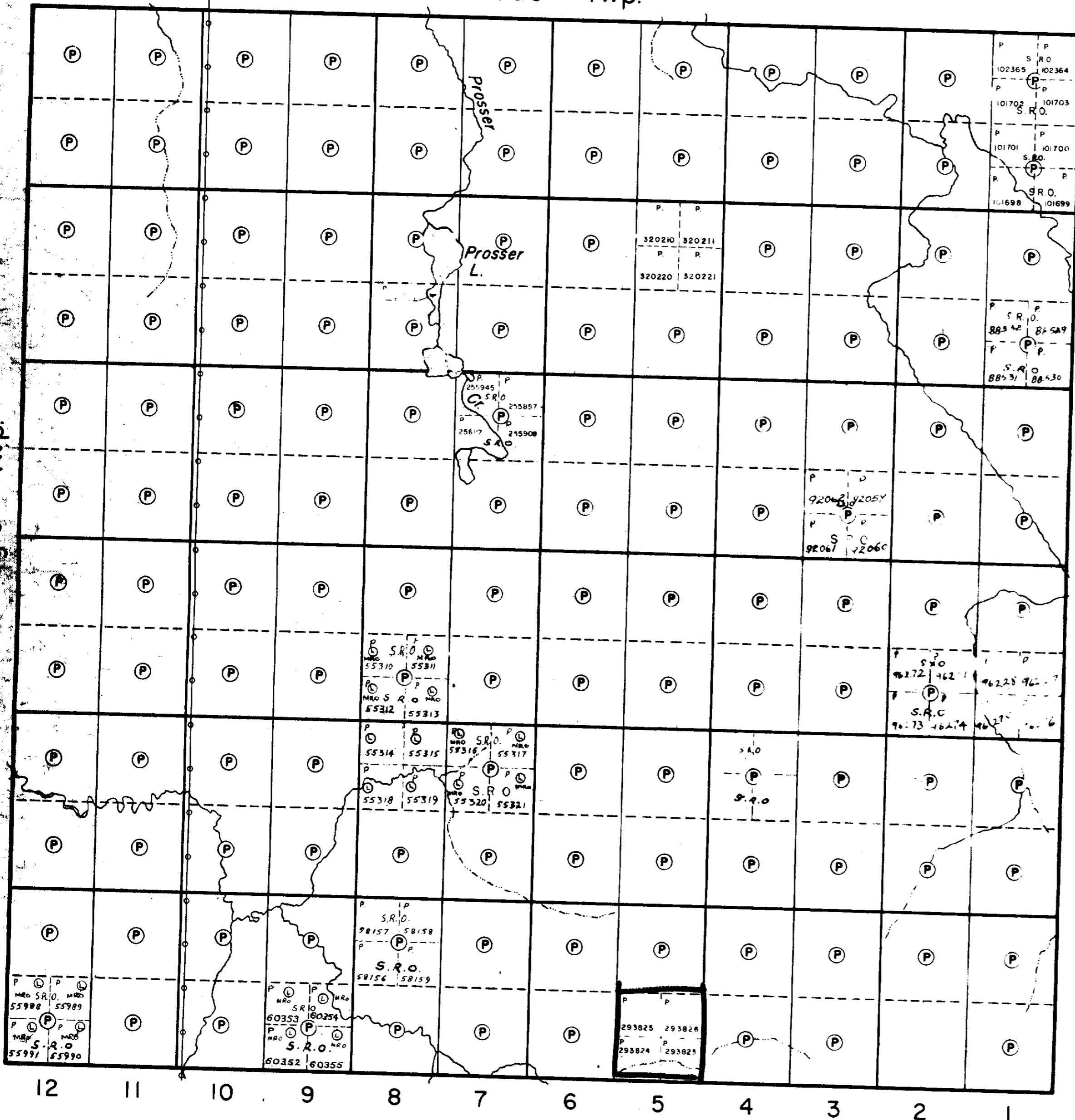
Elevation accuracy

INDUCED POLARIZATION -- RESISTIVITY

Instrument
Time domain Frequency domain
Frequency Range
Power
Electrode array
Electrode spacing
Type of electrode

Lucas Twp.

Garnegie Twp.



Wark Twp.

THE TOWNSHIP OF
OF
PROSSER

DISTRICT OF COCHRANE
PORCUPINE MINING DIVISION
SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND
- CROWN LAND SALE
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- ROADS
- IMPROVED ROADS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG

NOTES

400' Surface Rights Reservation around all Lakes and Rivers.

2.799

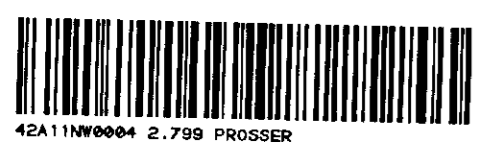
DATE OF ISSUE

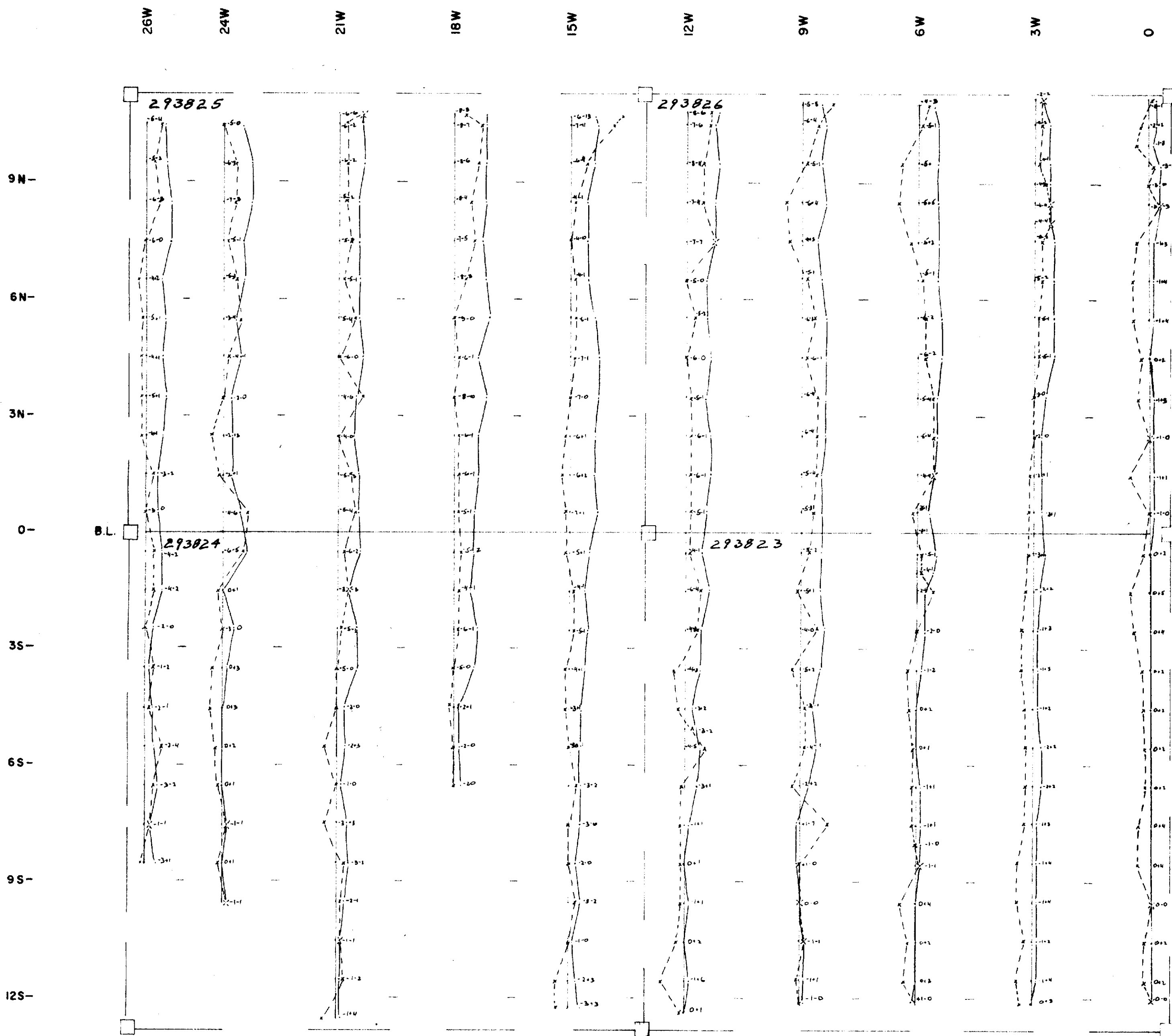
APR - 6 1972

ONT. DEPT. OF MINES AND NORTHERN AFFAIRS

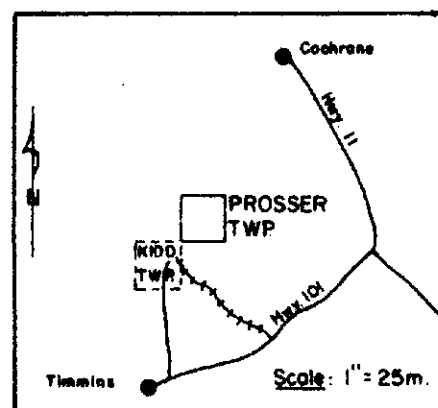
PLAN NO. - M 571

ONTARIO DEPARTMENT OF MINES AND NORTHERN AFFAIRS





SCALE: ONE INCH = 200'



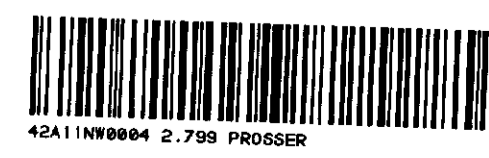
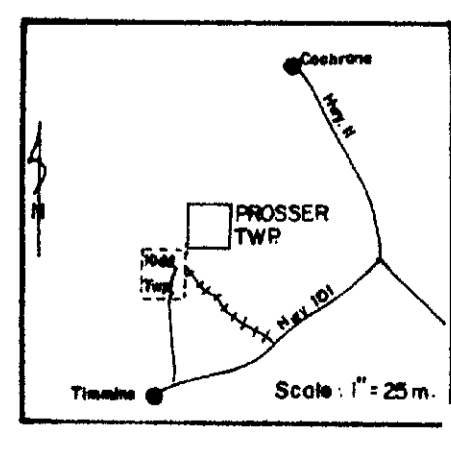
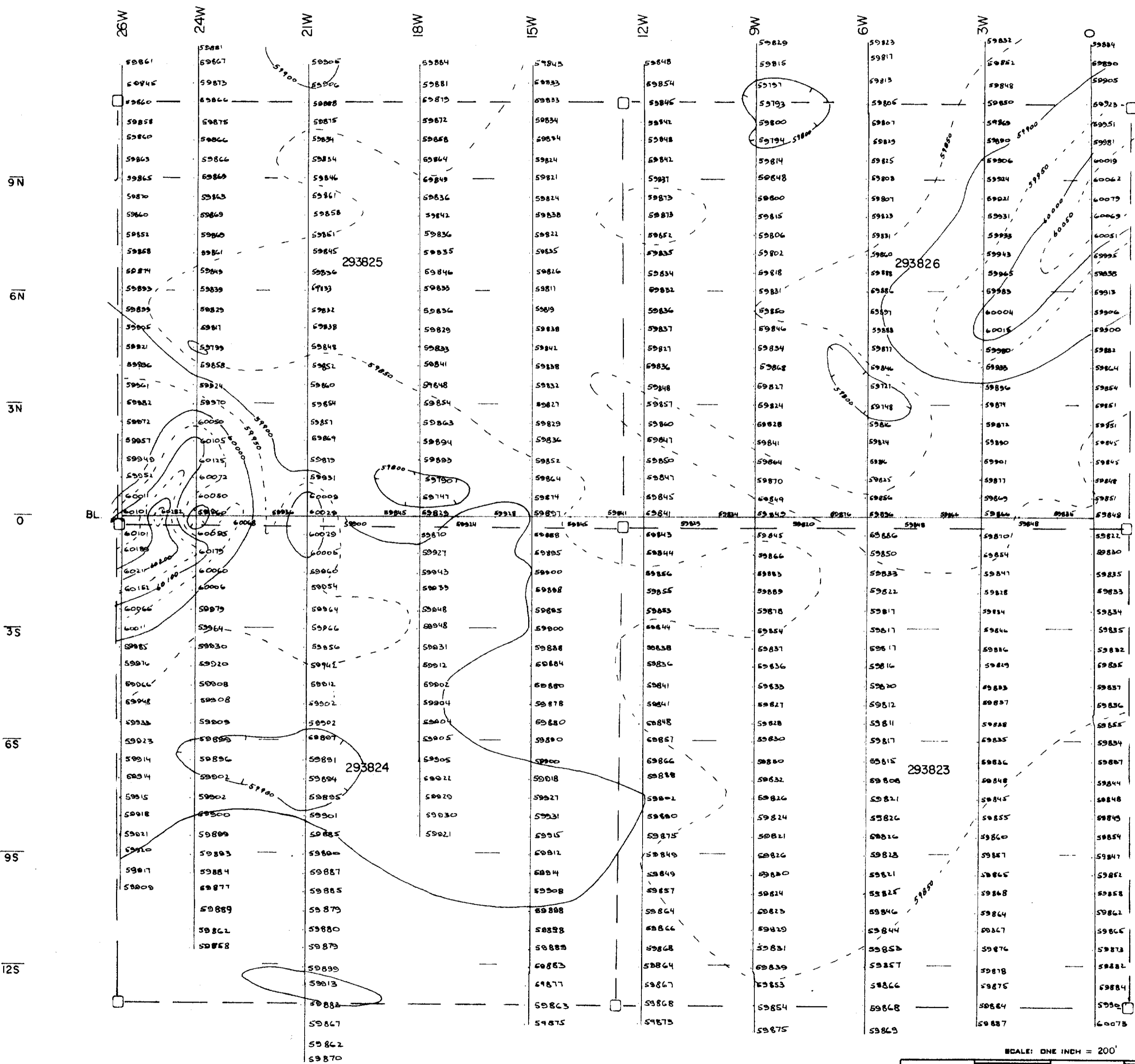
INSTRUMENT:
 Geonics EM-17
 300' cable
 1600 Hz

NOTE:
 Profile Scale: 1" = 20%
 In Phase: ———
 Quadrature: x---x
 + Rdgs. ← → - Rdgs.

TEXAS GULF SULPHUR CO.		
HORIZONTAL LOOP E.M.		
PROSSER 14		
WORK BY	DRAWN BY	DATE
D. Tremblay	J.K.	Jan. 1972

J.A. Slavin 28/2/72





INSTRUMENT: Elsec 592
Total field Proton Mag.

TEXAS GULF SULPHUR CO.		
MAGNETICS		
PROSSER 14		
WORK BY	DRAWN BY	DATE
M. G.	J.P.	March 1972

J.A. Slank 28/2/72