



42A05NE0343 2.801 CARSCALLEN

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Texas Gulf Sulphur Company
Report on Geophysical Work
in
Carscallen Township

Claims: P308324 - P308329, P308332-P308337,
P308340, P308341.

A geophysical survey, consisting of magnetic
and horizontal loop traverses, was carried out
over this group of 14 contiguous claims located
in Lots 9, 10 and 11 of Con IV and V, Carscallen
Township.

The work was carried out under contract
by the geophysical survey company of Sigouin-Hussey
and directed by Texas Gulf Sulphur staff.

MARCH, 1972

... 2

Horizontal Loop:

There are no definite indications that any conductive material is present in the survey area.

Magnetics:

The southern part of the claim group is crossed by a number of east-west trending magnetic highs. Some of the anomalies (3+00S on Line 48+00W and 20+00S on Line 42+00W) can be definitely attributed to the presence of magnetite-rich rocks. Most of the others could be caused by either pyrrhotite or low concentrations of magnetite; in view of the lack of and e-m response the latter is more probable.

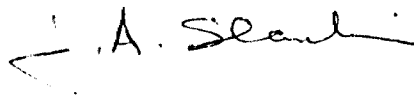
An exception to the general east-west trend is the weak magnetic high (300-700 gammas above background) that is centered on Line 9+00W and strikes north-south. This may represent an intrusion of more mafic rock.

Conclusions:

The magnetics indicate a general east-west strike of the geology in the area with a possible

cross-cutting intrusion of basic rocks near the eastern edge.

The horizontal loop survey did not detect any conductors. In view of this, any further electromagnetic work should employ methods such as IP or tellurics which have a greater depth of penetration and better response to low concentrations of conductive material.



JAS:ks

J.A. Slankis



GEOLOGICAL - GEOLOGICAL
 TECHNICAL DATA STATEMENT

42A05NE0343 2.801 CARSCALLEN

900

PROJECTS SECTION

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
 FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
 TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey GEOLOGICAL
 Township or Area CARSCALLEN TWP.
 Claim holder(s) TEXAS GULF SULPHUR COMPANY
BOX 149 TORONTO DOMINION CENTRE, TORONTO
 Author of Report J.A. SLANKIS
 Address as above
 Covering Dates of Survey JULY 29, 1971 - MARCH 28, 1972
 Total Miles of Line cut 12.4 (linecutting to office)

MINING CLAIMS TRAVERSED	
List numerically	
(prefix)	(number)
P	308324
P	308325
P	308326
P	308327
P	308328
P	308329
P	308330 1/2
P	308331 1/2
P	308332
P	308333
P	308334
P	308335
P	308336
P	308337
P	308338 1/2
P	308339 1/2
P	308340
P	308341
* No credit requested for 5 circled claims	
See letter 29/3/1972	
TOTAL CLAIMS <u>14</u>	

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
Geophysical	
- Electromagnetic	40
- Magnetometer	20
- Radiometric	
- Other	
Geological	
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
 Magnetometer _____ Electromagnetic _____ Radiometric _____
 (enter days per claim)
 DATE: 29/3/72 SIGNATURE: J.A. Slankis
 Author of Report

PROJECTS SECTION
 Res. Geol. _____ Qualifications Q. 686
 Previous Surveys L.D.
 Checked by _____ date _____
 GEOLOGICAL BRANCH _____ *
 Approved by _____ date _____
 GEOLOGICAL BRANCH _____
 Approved by _____ date _____

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS MAG: 731 MAG: 768
Number of Stations E-M: 593 Number of Readings E-M: 593
Station interval MAG: 100' with 50' detail E-M: 100'
Line spacing 300 FEET
Profile scale or Contour intervals E-M: 1" = 20% MAG: 500 and 1000 gammas
(specify for each type of survey)

MAGNETIC

Instrument McPhar M 700 Fluxgate Magnetometer
Accuracy - Scale constant 20 gamma
Diurnal correction method LOOPING
Base station location AT BASE LINE ON LINE 57+00W

ELECTROMAGNETIC

Instrument GEONICS EM-17
Coil configuration HORIZONTAL LOOP
Coil separation 200 FEET
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 TRANSMITTED FIELD
(specify V.I.F. station)

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location

Elevation accuracy

INDUCED POLARIZATION - RESISTIVITY

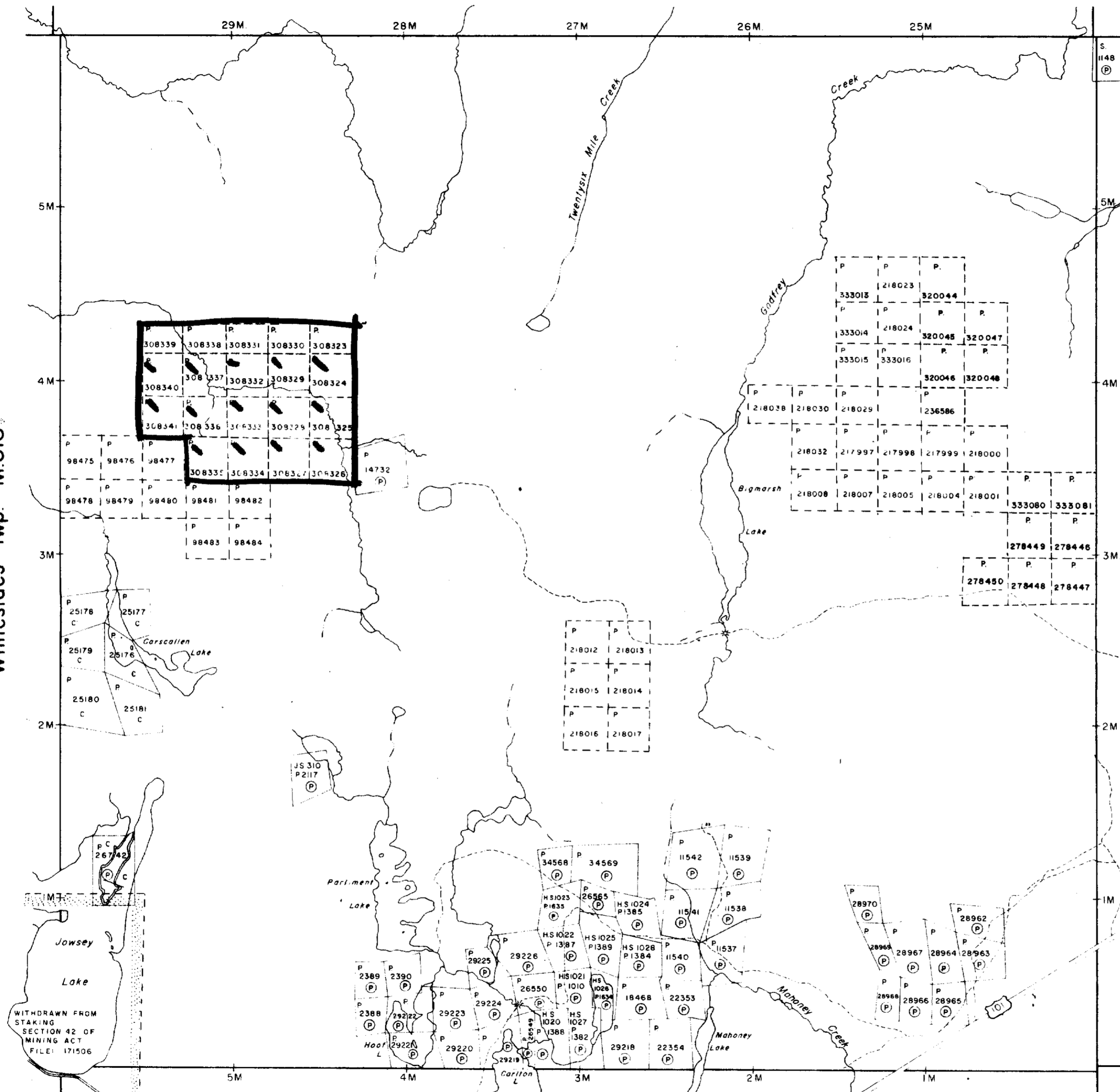
Instrument
Time domain Frequency domain
Frequency Range
Power
Electrode array
Electrode spacing
Type of electrode

Turnbull Twp. - M.316

Whitesides Twp. - M.318

Bristol Twp. - M.264

Denton Twp. - M.273



THE TOWNSHIP OF
CARSCALLEN

DISTRICT OF
COCHRANE

PORCUPINE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	C.S.
LEASES	L.
LOCATED LAND	L.C.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	—
IMPROVED ROADS	—
KING'S HIGHWAYS	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKEG	—
MINES	Ⓢ
CANCELLED	C.

NOTES

400' Surface Rights Reservation around
all lakes and rivers.

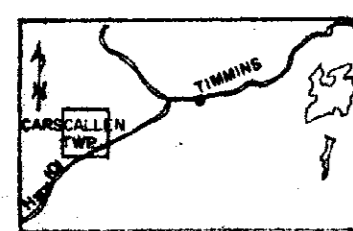
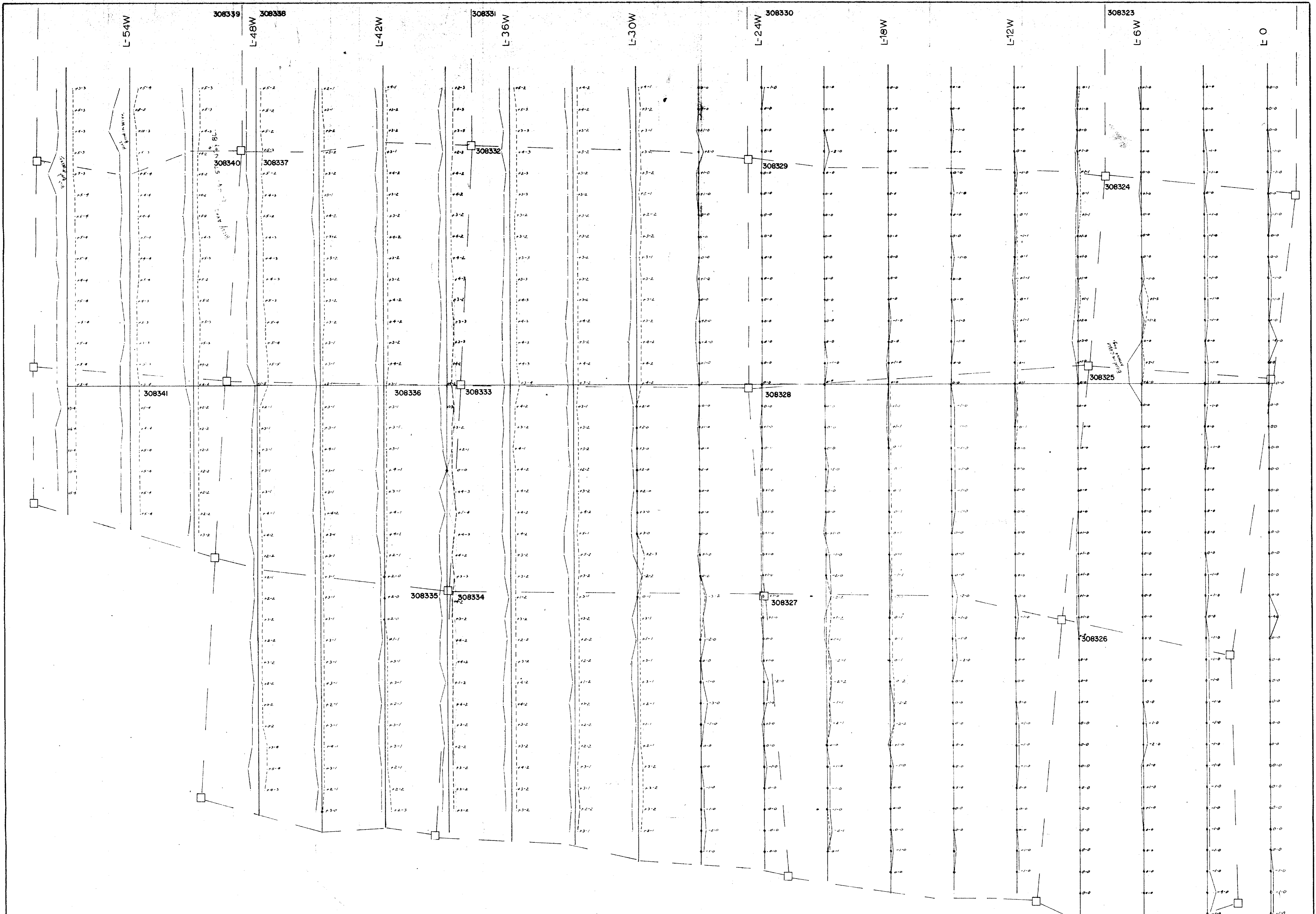
2.801

DATE OF ISSUE
APR - 6 1972
ONT. DEPT. OF MINES
AND NORTHERN AFFAIRS

PLAN NO. M.267

ONTARIO
DEPARTMENT OF MINES
AND NORTHERN AFFAIRS





LOCATION SKETCH

Scale 1" = 25 m.



TEXAS GULF SULPHUR CO.
EXPLORATION DIVISION
CARSCALLEN TWP
HEM-17 SURVEY (200' coil spacing)
SCALE 1" = 200'
SCALE 1" = 20%
REAL: ———
IMAGINARY: - - - -
FEB 1972
SIGUIN-HUSSEY

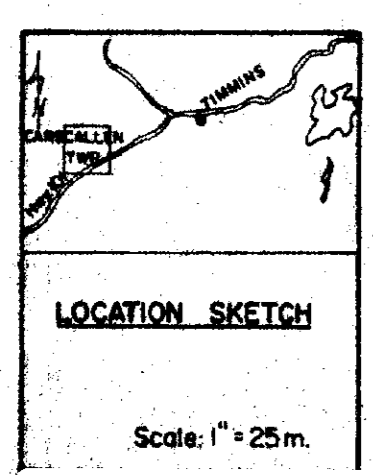
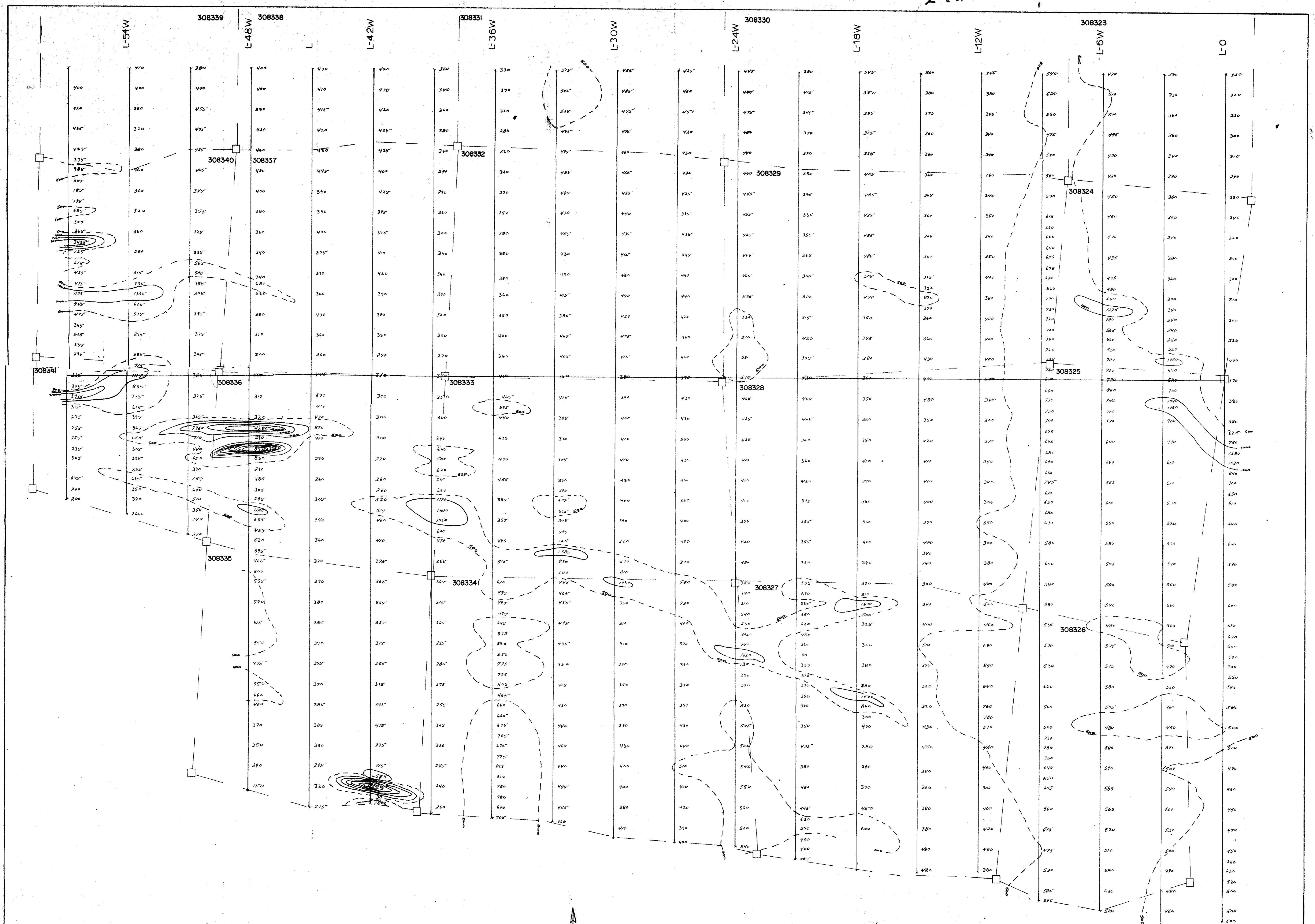
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INSTRUMENT: Geonics EM-17
200' cable
1600 Hz

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

A. S. Hussey
2/9/72





TEXAS GULF SULPHUR CO
 EXPLORATION DIVISION
 CARSCALLEN TWP
 MAG SURVEY (MCPHAR 700)
 SCALE 1"=200' JAN 1972
 SIGOUIN-HUSSEY
 J. A. Stalder
 8/7/72

INSTRUMENT
 McPhar M700
 Vertical Fluid Flange Map
 Zero level arbitrary

