



41P125W0090 2.2533 CHESTER

010

TEXASGULF CANADA LIMITED
REPORT ON GEOPHYSICAL WORK
CHESTER TOWNSHIP
N.T.S. - 41-P-12

CLAIMS: P-451639, P-451640, P-494092, P-492359, P-492360, P-492361
P-499446 and P-499447

A geophysical survey consisting of proton precession magnetometer traverses was performed over eight contiguous claims in Chester Township.

Very Low Frequency (V.L.F.) electromagnetic surveying was done on a portion of the property.

PREVIOUS WORK:

A great deal of previous exploration activity has taken place in Chester Township, mainly in the search of gold. Recently, some effort has been concentrated into transforming the numerous isolated chalcopyrite showings into porphyry copper type deposits.

Work has been carried out in the vicinity of the present claim group by Viewpoint Exploration (1971-1972), Rockzone Mines (1973) and Gomuk Group (1965).

NOV 7, 1977

W. A. GASTEIGER

PRESENT SURVEYS:

Previously cut lines were re-chained and flagged at 100 foot intervals. The present surveys attempted to determine any geophysical expression that might be associated with chalcopyrite mineralization in a pit located at approximately 200 feet north on Line 3200N.

The magnetic results indicate a general east-west trend. This trend is somewhat disturbed in the vicinity of Lines 32W and 36W by anomalously high magnetics in a north-south direction. Most of the area appears to be underlain by porphyritic quartz diorite. The anomalous high running from 200N on Line 0 to 800N on Line 2400W is located near outcrops of basalt or andesite and probably represents a thin (100-200') sequence of these higher susceptibility rocks.

A narrow linear trend occurs along the Base Line from 4000W to 2400W. This zone is defined by only one or at most two fifty foot readings but seems to be fairly continuous. The mineralization occurs about 100' north of this high. This magnetic expression may represent the trend of the mineralization.

The V.L.F. survey partially covered the claim group. The very sharp crossover south of the Base Line is due to an abandoned power line. An interesting crossover occurs at the showing on Line 32W. The conductor strikes in a linear pattern from 36W to 20W. On lines 32W and 24W a second crossover occurs 200 feet further north. These conductors appear to cross-cut the magnetic trends and are likely representative of mineralized shear zones.

CONCLUSIONS:

The geophysical indications provide some encouragement for further

prospecting in the vicinity of the mineralization. The first priority would be to prospect and trench along the strike of the V.L.F. conductor. Also, a horizontal loop or induced polarization test would be warranted on the best conductor (36W at 1+25N).

November 7, 1977

William Eastwig

W. A. Gasteiger

qualifications 2. 1798



Ontario

Ministry of Nature

GEOPHYSICAL - GEOLOGIC
TECHNICAL DATA



41P12SW0090 2.2533 CHESTER

900

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.

NOV 18 1977

PROJECTS UNIT

Type of Survey(s) Geophysical
 Township or Area Chester Township
 Claim Holder(s) Texasgulf Canada Limited
 P.O. Box 175, Suite 5000, Commerce Court, Toronto
 Survey Company (as above) M5L 1E7
 Author of Report W.A. Gasteiger
 Address of Author P.O. Box 1140, Timmins, Ont. P4N 7H9
 Covering Dates of Survey July/77 - Nov/77
 (linecutting to office)
 Total Miles of Line Cut 0. (used old lines)

MINING CLAIMS TRAVERSED
List numerically

P (prefix)	(number)
P	451639 ✓
P	451640 ✓
P	492359 ✓
P	492360 ✓
P	492361 ✓
P	494092 ✓
P	499446 ✓
P	499447 ✓

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
ENTRANCE line cutting for first survey	40 days (includes line cutting) for first survey
ENTRANCE additional survey using same ground.	20 days for each additional survey using same ground.
Geophysical	
-Electromagnetic	20
-Magnetometer	
-Radiometric	
-Other	
Geological	
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: Nov. 16/77 SIGNATURE: William Gasteiger
Author of Report or Agent

Res. Geo L.D. Qualifications 2.1798

Previous Surveys File No	Type	Date	Claim Holder

TOTAL CLAIMS 8

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUN SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations 461 Number of Readings 505

Station interval 100 feet (50' detail) Line spacing 400 feet

Profile scale _____

Contour interval 200 gammas

MAGNETIC

Instrument Geometrics Proton Precession Magnetometer

Accuracy - Scale constant + 1 gamma

Diurnal correction method Readings tied into base stations established over

Base Station check-in interval (hours) every 400' along base line by hopping

Base Station location and value 800W on Base Line -59209 gammas

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method Fixed transmitter Shoot back In line Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____

Method Time Domain Frequency Domain

Parameters - On time _____ Frequency _____

- Off time _____ Range _____

- Delay time _____

- Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

NEVILLE TP. M.888

THE TOWNSHIP
2.2417 OF
CHESTER

DISTRICT OF
SUDBURY

PORCUPINE
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	● or ⊕
CROWN LAND SALE	C.S.
LEASES	⊙
LOCATED LAND	Loc.
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	⋈
PATENTED S.R.O.	⊙

NOTES

400' Surface Rights Reservation along
all Lakes and Rivers.

Flooding Rights To 1200' Contour Reserved
To H.E.P.C. File: 10621.-L.O.7543(Loc.HY.34)

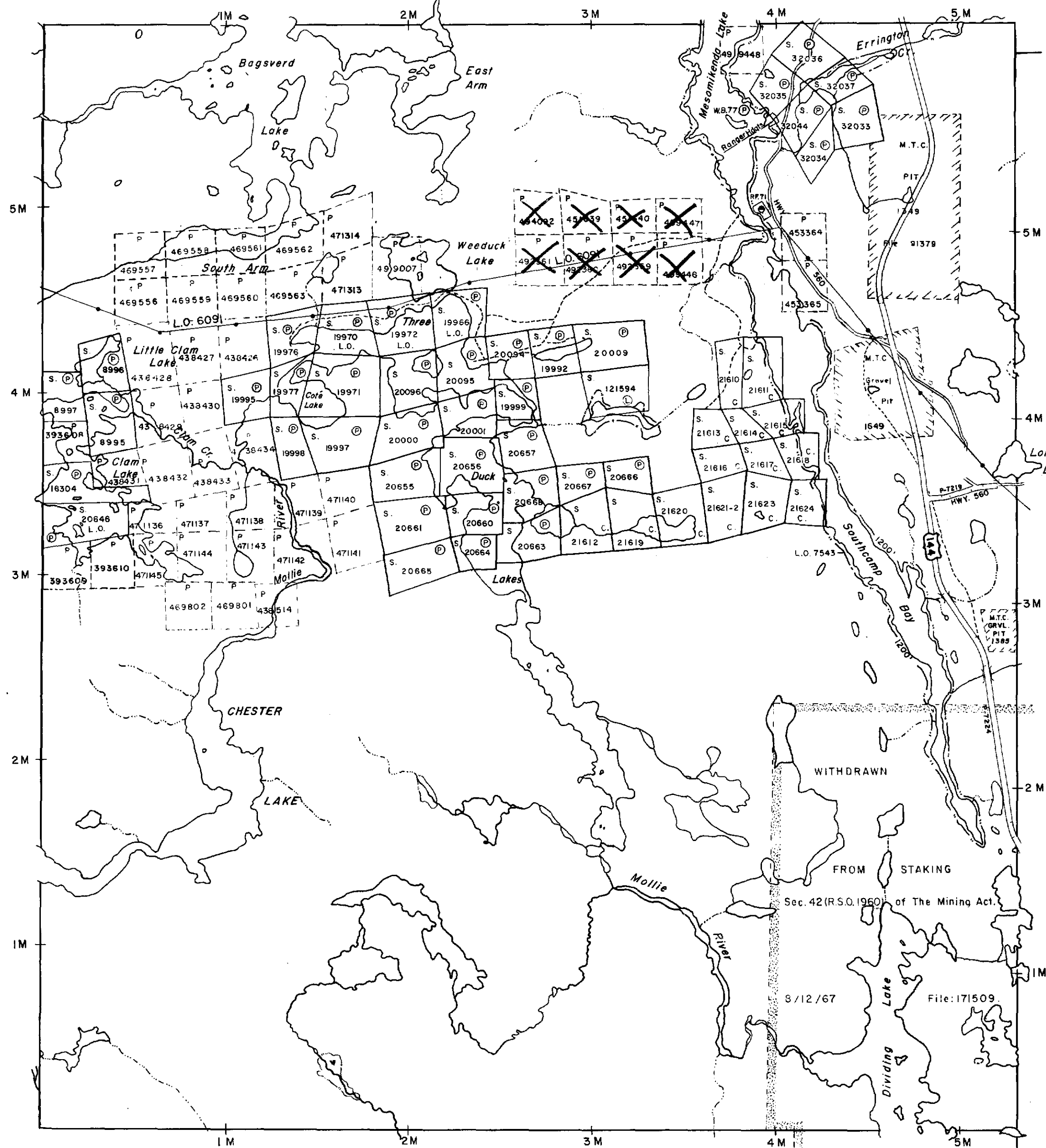
DATE OF ISSUE
NOV 22 1977
SURVEYS AND MAPPING
BRANCH

PLAN NO.-M.717

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

YEO TP. M.1188

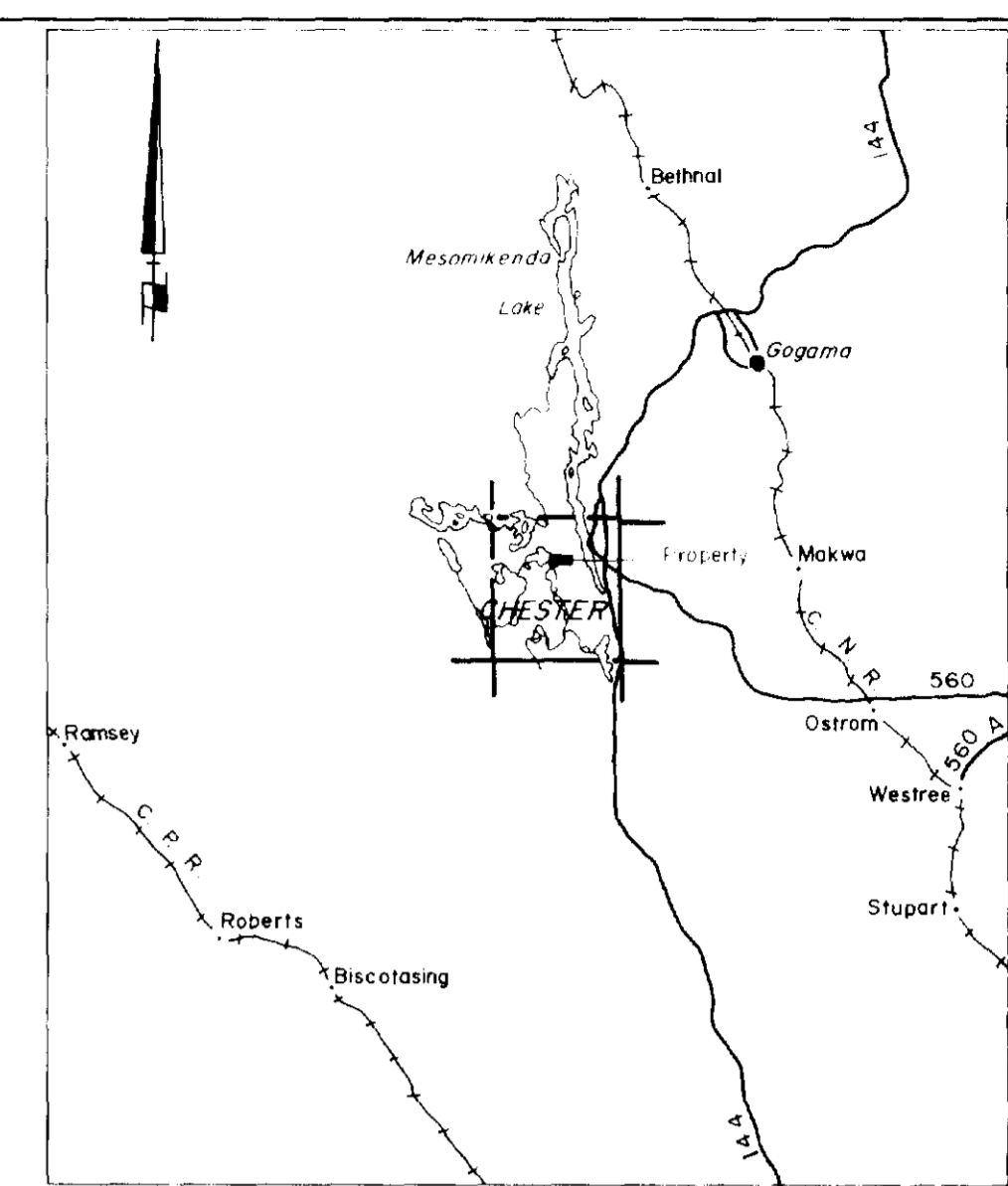
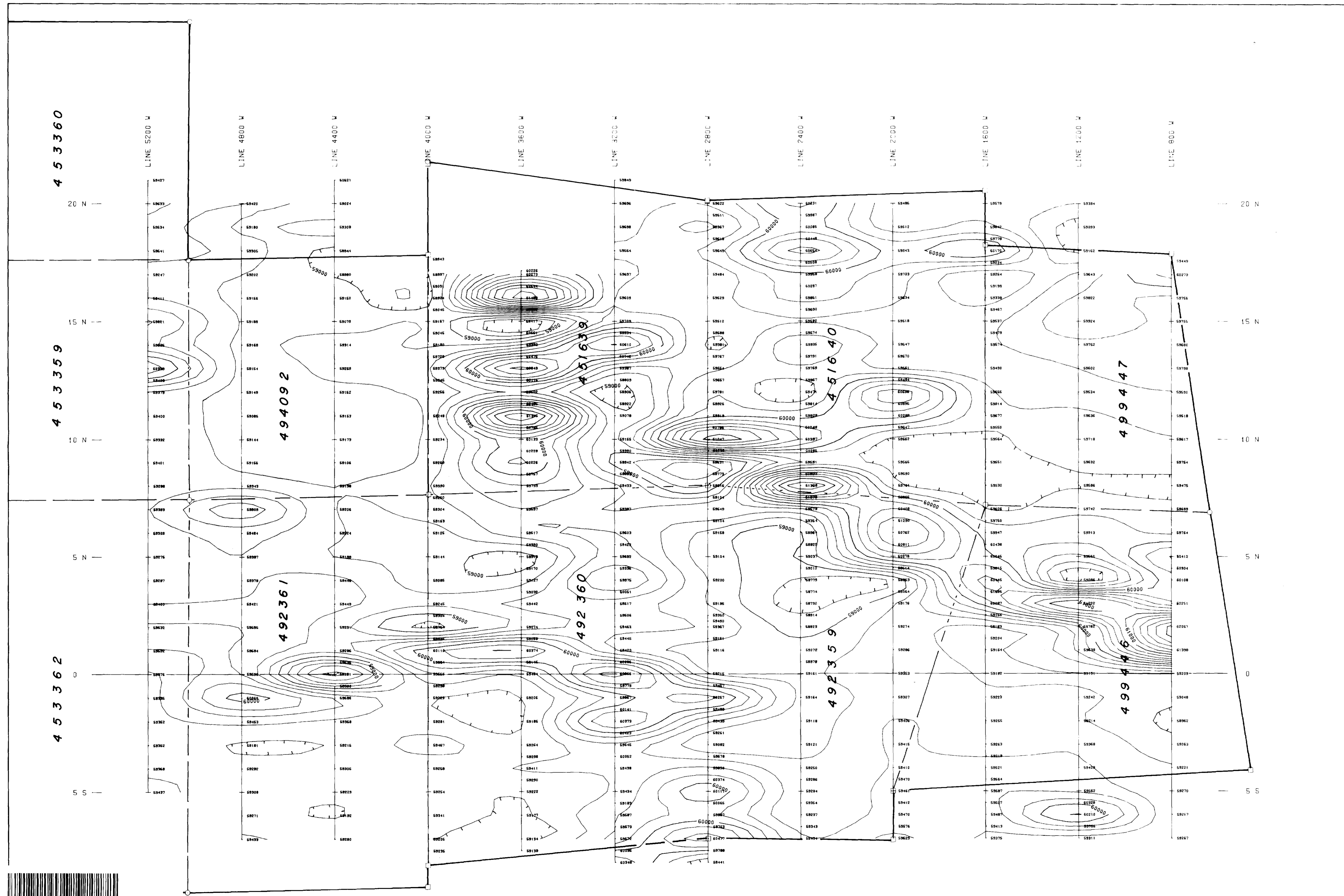
BENNEWEISS TP. M.658



INVERGARRY TP. M.948



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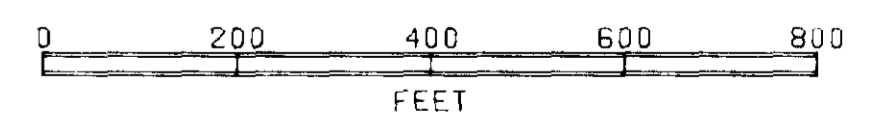


KEY MAP Scale 1" = 8 miles



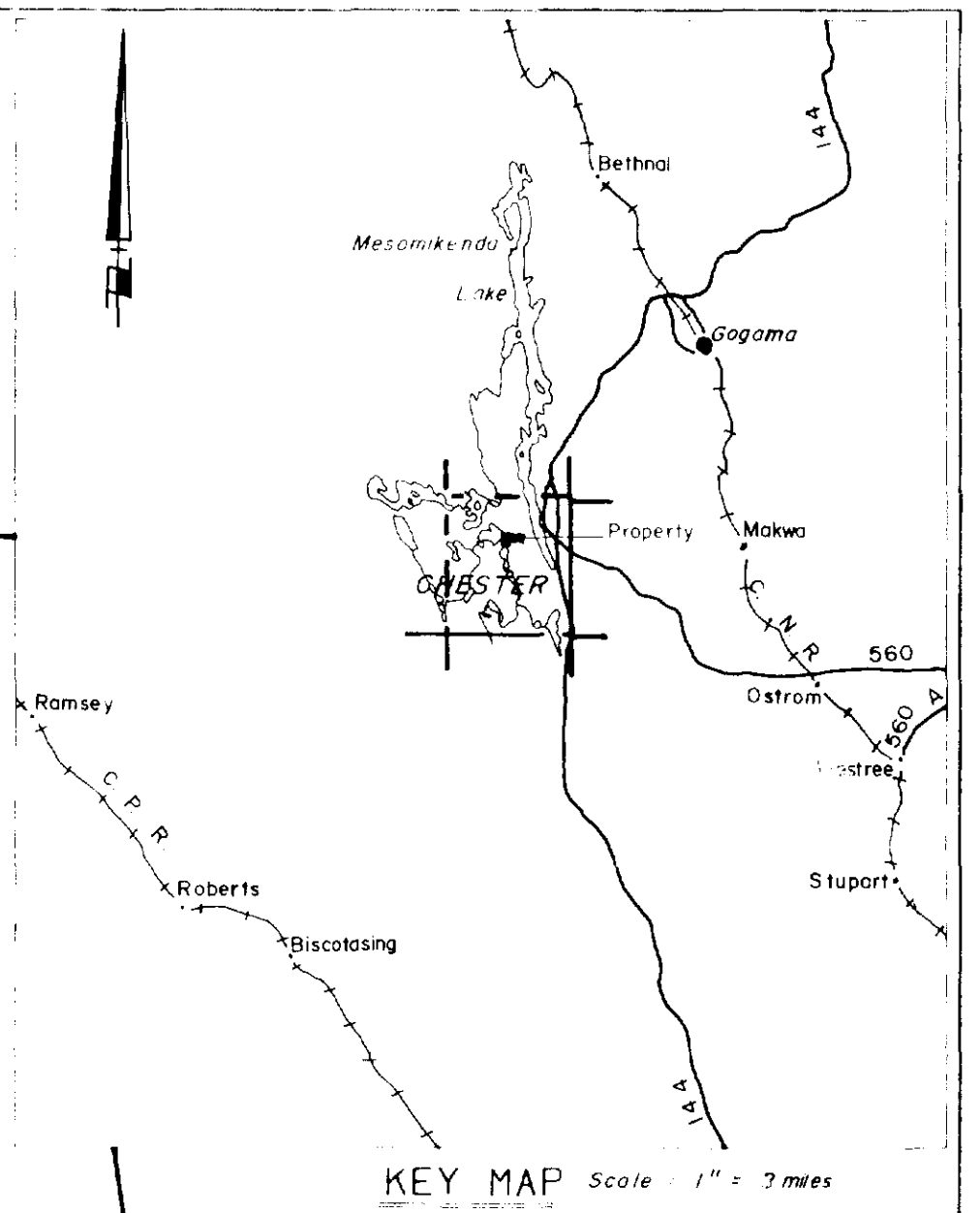
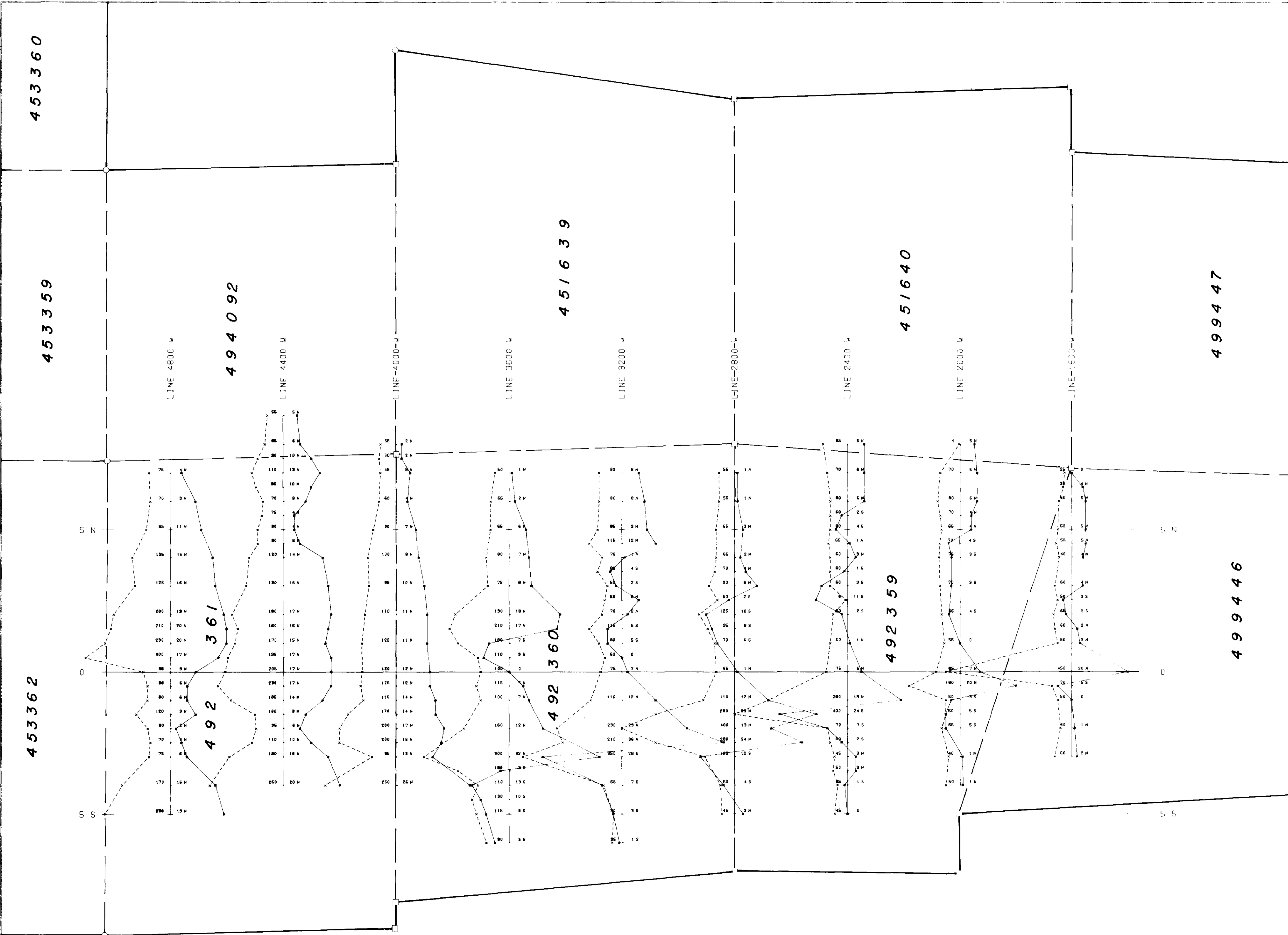
LEGEND

INSTRUMENT : GEOMETRICS G816
 TYPE : PRONON PRECESSION, TOTAL FIELD
 READINGS IN GAMMAS
 ▲ MAGNETIC BASE STATION



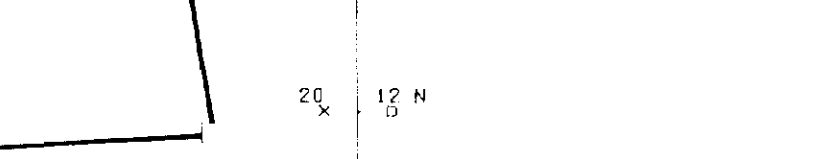
TEXASGULF CANADA LTD.
MAGNETIC SURVEY
CHESTER TWP.
 NTS: _____ PROJ. #81
 WORK BY _____ DATE _____
 1977





LEGEND

FIELD STRENGTH DIP ANGLE (DEGREES)



INSTRUMENT : CRONE RADEM
 STATION : LUTLER, 17.8 KH_z
 PROFILE SCALE : DIP ANGLE 1" = 20°
 FIELD STRENGTH 1" = 200

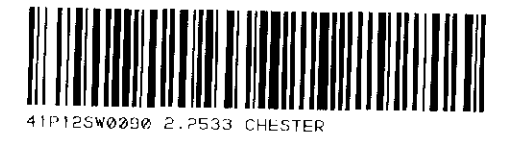
0 200 400 600 800

FEET

TEXASGULF INC.
 V L F SURVEY
 CHESTER

NTS: 4 - P / 12 PROJ. #81

WORK BY: _____ DATE: _____
 1977



William S. Taylor