



010

TEXASGULF CANADA LTD.
REPORT ON GEOPHYSICAL WORK
ON
ELDORADO TOWNSHIP
NTS - 42-A-G

CLAIMS: P-504595
P-504726 - 504727
P-504787 - 504789
P-504797 - 504799

RECEIVED

JAN 25 1979

MINING LANDS SECTION

January 23, 1979

W.A. Gasteiger

TEXASGULF CANADA LTD.
REPORT ON GEOPHYSICAL WORK
ON
ELDORADO TOWNSHIP
NTS: - 42-A-6

INTRODUCTION:

A geophysical survey consisting of very low frequency (V.L.F.) electromagnetic traverses was performed over nine contiguous claims located in the north-east quadrant of Eldorado Township.

This property is located fourteen air miles southeast of Timmins. Automobile access is readily attained by the Langmuir Mine road from South Porcupine and then by an all-weather road which passes the north-west corner of the claim group.

PREVIOUS WORK:

The claims were staked on previously known base metal mineralization that occurs in a discontinuous iron formation. Previous work on the property has been carried out by Noranda Mines (geological mapping, 1961); C. Lamothe (three short diamond drill holes, 1962) and C. McAllister (magnetometer survey, 1973).

The drilling indicated some mineralization but no assay results are available.

PRESENT SURVEY:

Dip angles of the total electromagnetic field were read at

intervals of twenty or forty metres along lines spaced at one hundred metres.

Two maps of the results are included, one of the dip angles and one of the resultant contour map when the Fraser calculation is applied to the dip angles.

The profiles for the most part are fairly erratic, which is common in this sort of property where there are superficial variations of outcrop and overburden. Correspondingly, numerous highs occur on the Fraser plot.

These highs can be divided into three broad categories:

- (1) Anomalies of less than fifteen units. These weak zones are very likely due to overburden effects. Even if the conductivity were due to sulphides, the mineralization would be too weak to be of interest.
- (2) Strong anomalies (greater than fifteen units), due to major bedrock overburden interfaces. Zones A and B definitely fall into this class and anomalies C, D, and E very likely do also.
- (3) Strong anomalies (greater than fifteen units), that are due to bedrock conductors. These zones would include anomalies F, G, H, I, and J. F and G lie slightly east of the mineralized showing; however, they are weak and localized and are unlikely to represent a major sulphide accumulation.

Anomalies H and J are on the same trend. Anomaly J represents the strongest crossover on the claim and is the most interesting zone for further investigation.

CONCLUSIONS:

All the V.L.F. anomalies (except for Zone J) are weak or are definitely major overburden effects. Little purpose would be served in running horizontal loop except over Anomaly J. This would better define the conductivity and width of this anomaly.

Magnetics should definitely be run to ascertain if the V.L.F. trends correspond to the trends of the iron formation.

Prospecting in the vicinity of anomalies F, G, H, I, and J is warranted.

January 23, 1979

W.A. Gasteiger

W.A. Gasteiger



Ministry of M

GEOPHYSICAL - GEOI
TECHNICAL E



42A06SE0091 2.2883 ELDORADO

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.

Type of Survey(s) Geophysical
Township or Area Eldorado
Claim Holder(s) Texasgulf Canada Ltd.
P.O. Box 175, Suite 5000, Commerce Court, Toronto, Ont
M51 1E7
Survey Company Same as Above
Author of Report W. A. Gasteiger
Address of Author P.O. Box 1140, 571 Moneta Ave. Timmins, Ont
Covering Dates of Survey September/78 to January /79
(linecutting to office)
Total Miles of Line Cut 10 miles

MINING CLAIMS TRAVERSED
List numerically

P.....504595.....
(prefix) (number)
P.....504726.....
P.....504727.....
P.....504787.....
P.....504788.....
P.....504789.....
P.....504797.....
P.....504798.....
P.....504799.....

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

Geophysical _____
--Electromagnetic 40
--Magnetometer _____
--Radiometric _____
--Other _____
Geological _____
Geochemical _____

DAYS per claim

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

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Jan 24 / 79 SIGNATURE: William Gasteiger
Author of Report or Agent

Res. Geol. 1.P. Qualifications 2. 1798

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 9

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 588 Number of Readings 588
Station interval 20 and 40 metres Line spacing 100 metres
Profile scale 1cm = 10^0
Contour interval 5 units for Fraser map

MAGNETIC

Instrument
Accuracy - Scale constant
Diurnal correction method
Base Station check-in interval (hours)
Base Station location and value

ELECTROMAGNETIC

Instrument Crone Radem
Coil configuration Vertical
Coil separation Indefinite
Accuracy - 1^0
Method: [x] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency Cutler, Maine 17.8 KHZ (specify V.L.F. station)
Parameters measured Dip Angle Of Total E.M. Field

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

Shaw Tp. - M.311

2.2883
THE TOWNSHIP OF
ELDORADO

DISTRICT OF
COCHRANE

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 the shores of all lakes and rivers.

This township lies within the Municipality of CITY of TIMMINS.

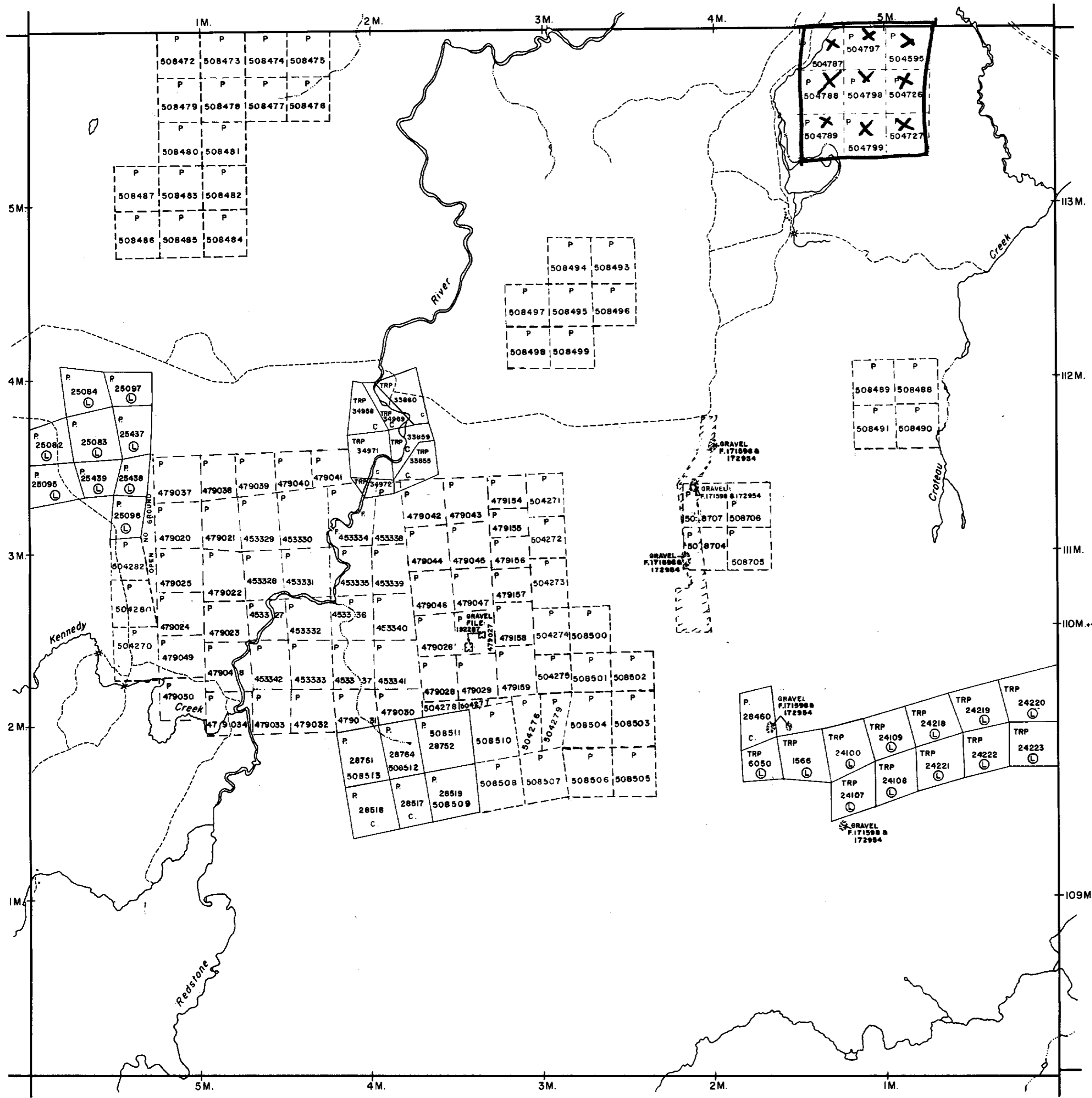
DATE OF ISSUE
JAN 25 1979
SURVEYS AND MAPPING
BRANCH

PLAN NO. **M.276**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

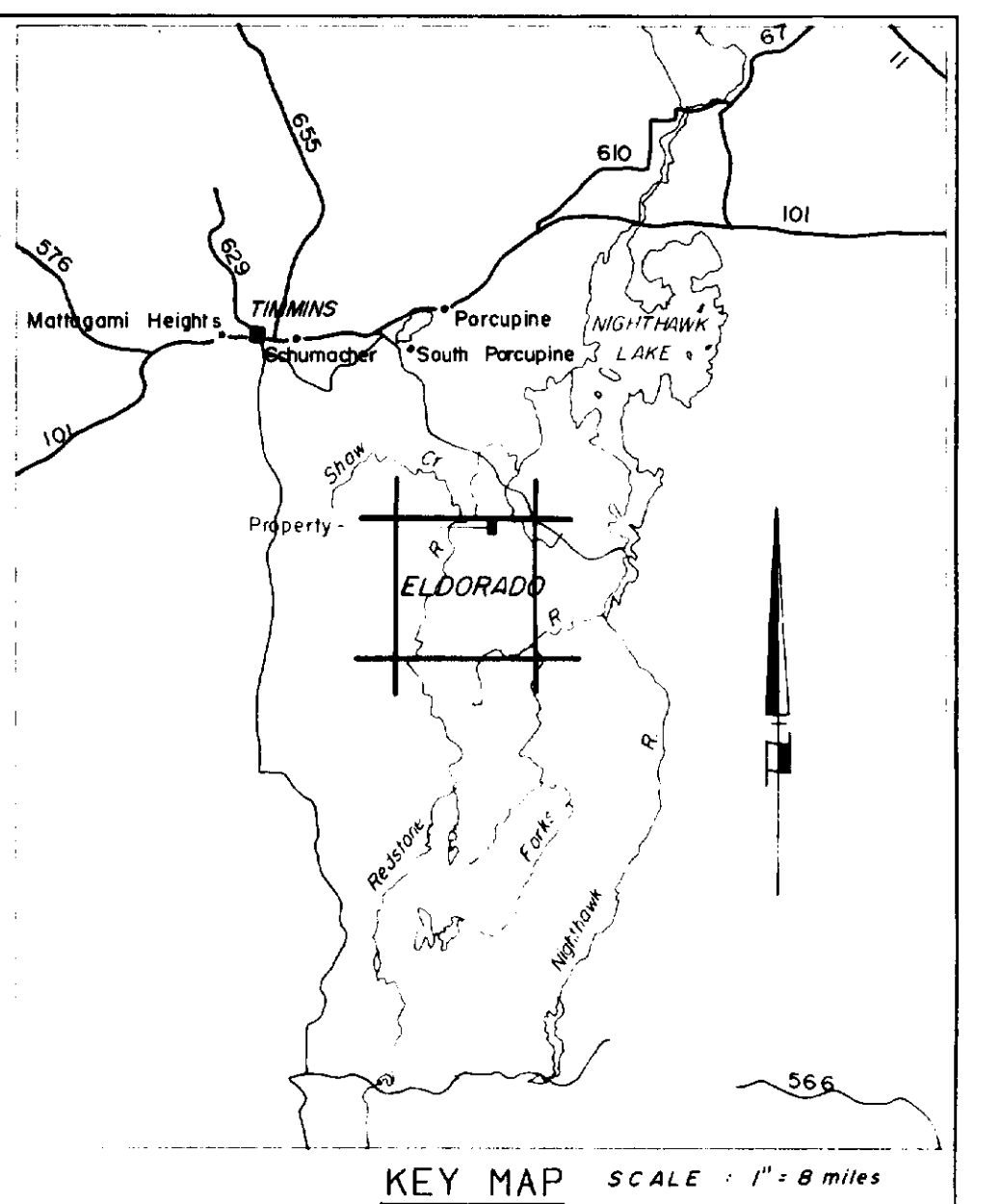
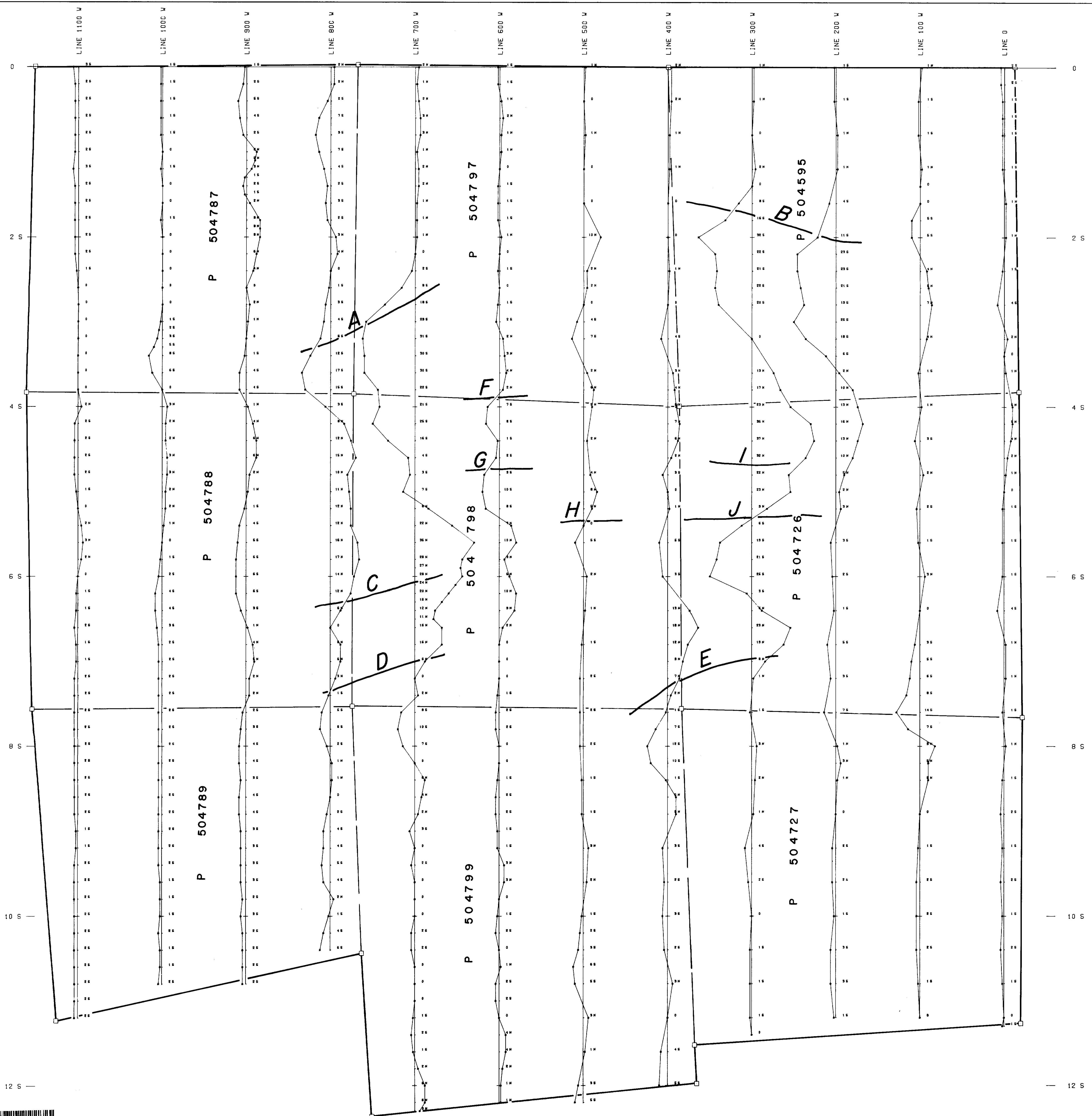
Adams Tp. - M.261

Langmuir Tp. - M.292



Douglas Tp. - M.274



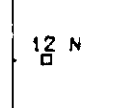


KEY MAP SCALE - 1" = 8 miles

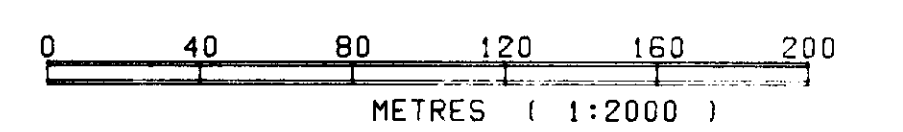


LEGEND

DIP ANGLE (DEGREES)



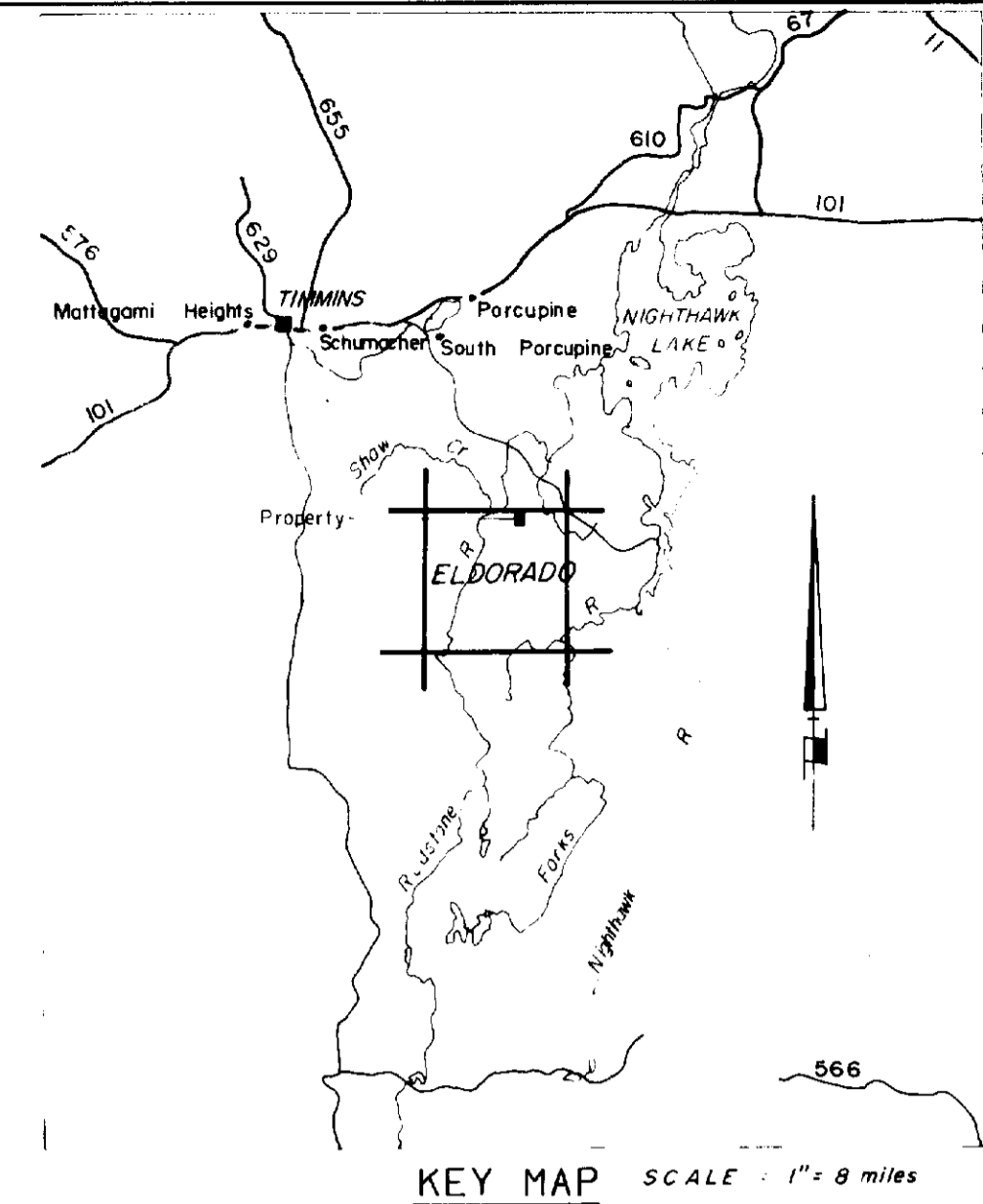
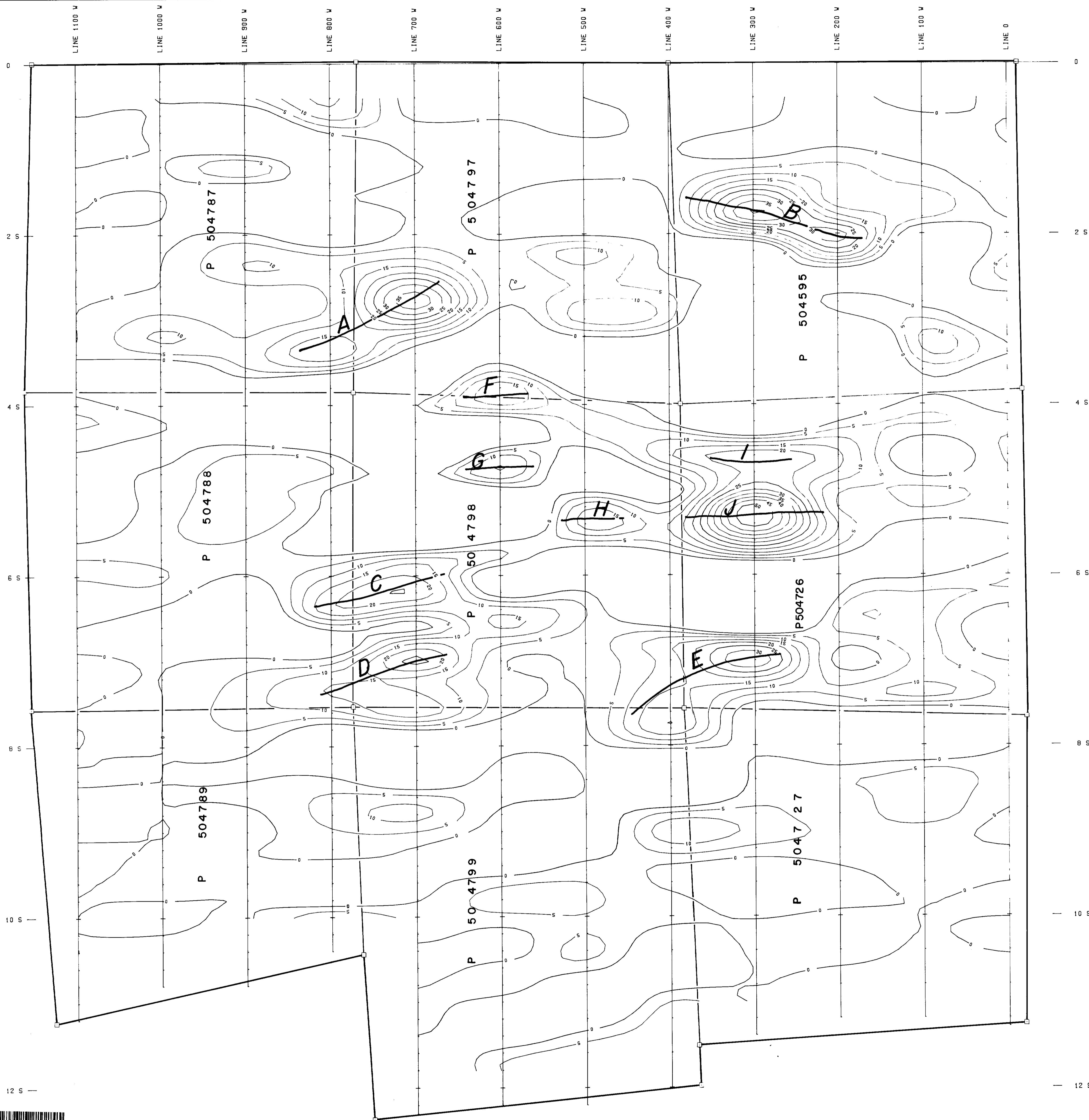
INSTRUMENT : CRONE RADEM
 STATION : CUTLER, 17.8 KH
 PROFILE SCALE : DIP ANGLE 1 CM = 10°



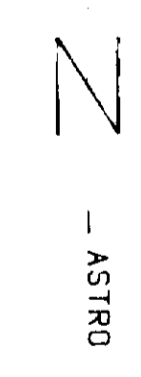
TEXASGULF CANADA LTD.	
V L F SURVEY	
ELDORADO 65	
NTS:42A6	PROJ.#61
2-2883	
WORK BY	DATE
	1979



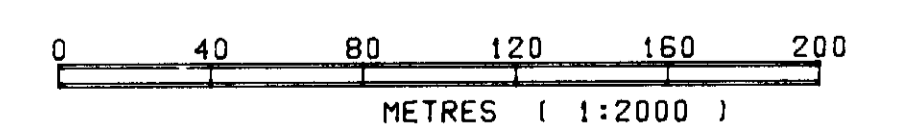
H. Santiago



KEY MAP SCALE: 1" = 8 miles



LEGEND
FRASER PLOT



TEXASGULF CANADA LTD.
 VLF SURVEY
 ELDOORADO 65
 NTS:42A6 2.2883 PROJ.#61
 WORK BY _____ DATE 1979

W. Bookley

