

3584

REPORT ON
Blast, ZZ Gabby,
T. Gabby & T. Group of
claims 92B/5E

SOOKE PROPERTY
CITEX MINES LTD. (M.P.L.)

FEBRUARY 20, 1972

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 3584 MAP

- #1 Location Sketch
- 2 Mag. Survey - Claim - Location
- 3 Mag. Survey
- 4 Mag. Survey - Interpretation



SOUNDRAM ENGINEERING LTD.

MINERAL EXPLORATION & DEVELOPMENT
750-890 W Pender st. VANCOUVER B.C.
telephone : (604) 688-5322

February 20, 1972

INTRODUCTION:

This is a comprehensive report on the Sooke Property covering the exploration work so far carried out and with future recommendations.

PROPERTY:

The property consists of 20 contiguous mineral claims as follows:

| <u>Claim Name</u> | <u>Record Numbers</u> |
|------------------------------|-----------------------|
| Blast 1 & 2 | 16355 and 16356 |
| ZZ Gabby 1 - 6 (inclusive) | 16323 - 16328 |
| ZZ Gabby 11 - 16 (inclusive) | 16329 - 16334 |
| T Gabby 7 - 10 (inclusive) | 16335 - 16338 |
| "T" 5 - 8 | 16350 - 16353 |

The above claims are recorded in the Mining Recorder's office in the Victoria Mining Division, Province of British Columbia.

GEOLOGY OF THE PROPERTY:

The area of this property is underlain by Sooke gabbro of the Tertiary Age. There are numerous outcrops of this gabbro on this property, which are dark greenish grey coarse grained rocks with conspicuous plagioclase crystals. The ferromagnesian mineral is mainly augite. In places this gabbro is homogenous, massive and with no definite lineation. Predominant joint lines appear to bear 060 (T) with near vertical dip. Subordinate lineations of similar character bear 020 and 090.

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Alterations appear to be moderate with chlorite and secondary augite in abundance. In and around the major joint systems epidote, calcite and sericite are present.

MINERALIZATION:

Several shear zones and joints along the shore line exhibit mineralization of malachite, azurite and closely disseminated chalcopryrite. Pyrite and pyrrhotite are usually present. The siliceous impregnations along the joint contain veinlets and blebs of massive sulphide, pyrite and chalcopryrite.

On the southwest corner of T-7 Claim occurs a mineralized vein of about four feet wide. The length of this vein could not be determined as it plunges into the ridge. This zone was sampled and the assays are as follows:

| | <u>Au</u> | <u>Cu</u> | <u>Zn</u> |
|----|-------------|-----------|-----------|
| 1) | 0.01 oz/ton | 1.24% | Trace |
| 2) | 0.01 oz/ton | 1.26% | Trace |

Velocity Surveys Ltd. conducted an examination of this property on March 3, 1969 and a few samples were taken which yielded the following values:

| | <u>Au</u> | <u>Ag</u> | <u>Cu</u> |
|--------------------------------------|--------------|-------------|-----------|
| No. 1 - 2 ft. wide channel sample | 0.005 oz/ton | 0.25 oz/ton | 2.20% |
| | 0.01 oz/ton | 0.05 oz/ton | 0.90% |

HISTORY AND WORK PERFORMED:

The claims in this area were originally staked by Z. Piaskowski in the months of November 1968 and February and March 1969. Property examination was made on behalf of Citex Mines Ltd. (N.P.L.) by Mr. C. T. Pasioka

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of Velocity Surveys Limited. Following this property examination and his recommendation about 13 miles of grid lines were laid out and reconnaissance and detailed electromagnetic surveys were conducted on this property which yielded 6 separate conductive features. The results of this electromagnetic survey was described in detail by Mr. J. B. Prendergast, M.A., P.Eng., Geophysicist in his report dated April 29, 1969.

The electromagnetic survey yielded some very encouraging results and further detailed exploration work has been recommended on this property. The conductor "C" extends from line one north to line 28 north and the strength and the shape indicates that a heavy sulphide accumulation might be expected. Since this conductor appears to be associated with known mineralization a diamond drilling programme has been recommended on this property. In February 1970 some additional trenching was carried out over the known mineralized areas. Sulphide veins with chalcopyrite and pyrite were uncovered along with disseminated native copper. The assays of the samples obtained from the trenches were described in this report under the heading "Mineralization.

In March 1970, a legal survey of some of these claims were carried out by McElhanney Associates. The survey was initiated to locate the exact boundaries of the claims belonging to Citex Mines Ltd. (N.P.L.) as a result of this survey, some discrepancies were noted and abandonment of these claims were filed and they were restaked within the prescribed period. These claims are all in good standing at the present time.

In order to carry out the recommended diamond drilling it was necessary to repair the existing trail leading into this property. Considerable amounts of money and time were spent in repairing the old trail, but work has to be abandoned because of some legal matters pending to be settled. Part of this road still remains to be repaired.

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In January 1972, a magnetometer survey was carried out using an MF-2 magnetometer. The results are plotted on the accompanying map and the interpretation by Mr. P. Fominoff, B.A.Sc., Geophysicist are as follows:

"Vertical component magnetic field intensities were recorded at 100 foot intervals along a grid consisting of fifteen lines spaced 400 feet apart. The lines were oriented east-west. A Scintrex MF-2 fluxgate magnetometer was employed to survey a total of about 12 line miles. The magnetometer survey and compilation has been carried out by Citex Mines Ltd. (N.P.L.)

The magnetic survey data has been contoured with a 20 gamma station interval except in areas of high magnetic relief where a 100 gamma interval was employed. The base map scale is 1 inch = 400 feet. The magnetic grain is seen to be predominantly northwesterly. However the northern component may be accentuated by the relatively wide line spacing as compared to the contour interval. Most magnetic values on the contour map are seen to be negative. However, the relative rather than the absolute values are being considered. Thus the negative signs are of no consequence. They could be removed by simply adding a constant value such as 1000 gammas to the given results.

The total magnetic relief is about 250 gammas. An interpreted magnetic contact is shown separating the area of lower magnetic relief to the west from the area of higher magnetic relief to the east. Since the magnetic grain is in the same general direction over the whole property, the lower relief in the western part of the property may be caused by increased overburden depth.

Two linear features of increased magnetic susceptibility occur in the eastern part of the grid area. These have been interpreted as basic dykes. A roughly equidimensional magnetic feature of increased susceptibility occurs

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in the north central part of the grid, bounded by the -100 gamma contour line. The feature may be interpreted as a basic plug. Two interpreted faults are also shown trending northeasterly across the property.

Sulphides in the form of pyrite, pyrrhotite and chalcopyrite are known to occur on the property. The locations of increased magnetic response may thus indicate concentrations of pyrrhotite and possibly of associated economic type of copper sulphides. Because the known sulphides are seen to be disseminated rather than massive, induced polarization surveying is recommended as a geophysical tool to further explore the property."

CONCLUSIONS AND RECOMMENDATIONS:

Very little is known of the history of the property but near the southwest corner of the T7 claims occurs a short caved tunnel and shallow shaft near the beach. Sporadic mining activities were carried out within this area during the turn of this century but no systematic exploration work seems to have been done on this Sooke Peninsula. The geology and the structure of this area appear to be quite favourable for mineral deposits and outcrops of mineralized zones in several places within this peninsula indicates a detailed exploration work on this area is essential. Even though many mining companies were involved with the mining claims in this Sooke area there are no records of any detailed exploration work in this general area. The immediate exploration expenditure on this property would be \$67,540.00 as outlined below:

Access Road Work, Bulldozer Stripping,
Preparing Diamond Drill Sites, etc.

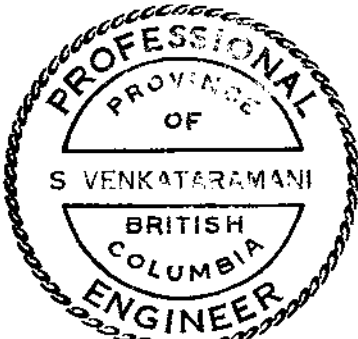
| | |
|------------------------------|-------------|
| D 8 caterpillar - 300 hours | |
| @ \$40.00 per hour | \$12,000.00 |
| 3,000 feet of B.Q. wire line | |
| @ \$12.00 per foot | \$36,000.00 |

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|--|--------------------|
| 13 miles of Magnetometer Survey @ \$150.00 per mile | \$1,950.00 |
| 13 miles of Geochemical Survey @ \$150.00 per mile | \$1,950.00 |
| Assaying and Core Boxes | \$4,000.00 |
| Engineering Supervision | \$4,000.00 |
| Transportation and Communication | <u>\$1,500.00</u> |
| Sub Total | \$61,400.00 |
| Contingency @ 10% | <u>\$6,140.00</u> |
| TOTAL | <u>\$67,540.00</u> |

On completion of this phase of exploration programme and depending on the results, it will be necessary to carry out further diamond drilling to test the other anomalous zones revealed by the extromagnetic survey. This second stage exploration work would involve an expenditure of \$75,000.00.

At that time, if the results continued to be favourable it will be necessary to rehabilitate the old shaft and the tunnel to do further underground development and exploration work. This third stage of exploration work would involve an expenditure of approximately \$100,000.00.



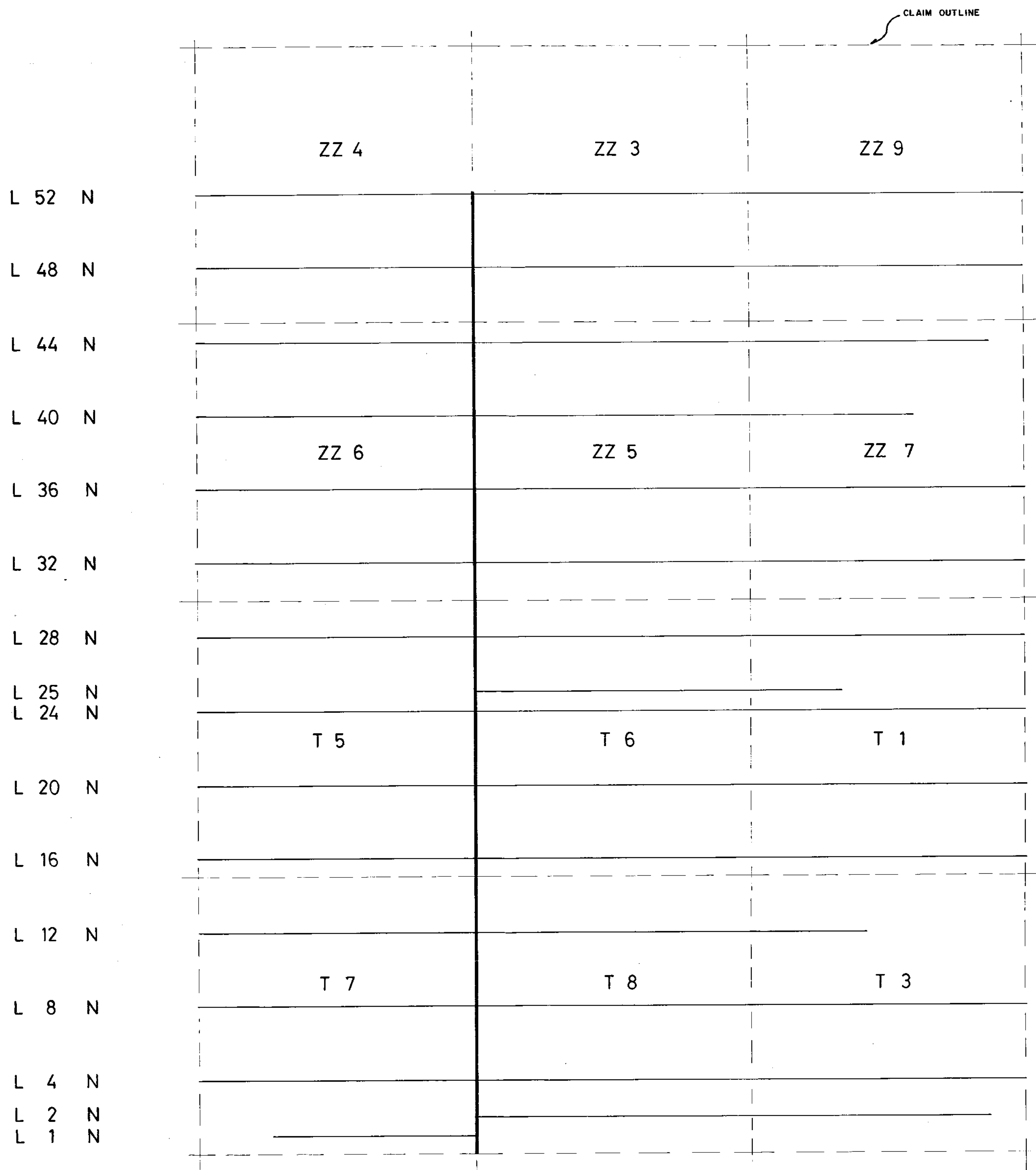
Vancouver, B. C.
February 20, 1972

Respectfully submitted

SOUNDRAM ENGINEERING LTD.

S. Venkataramani

S. Venkataramani, M.Sc., P.Eng.
Consulting Geological Engineer



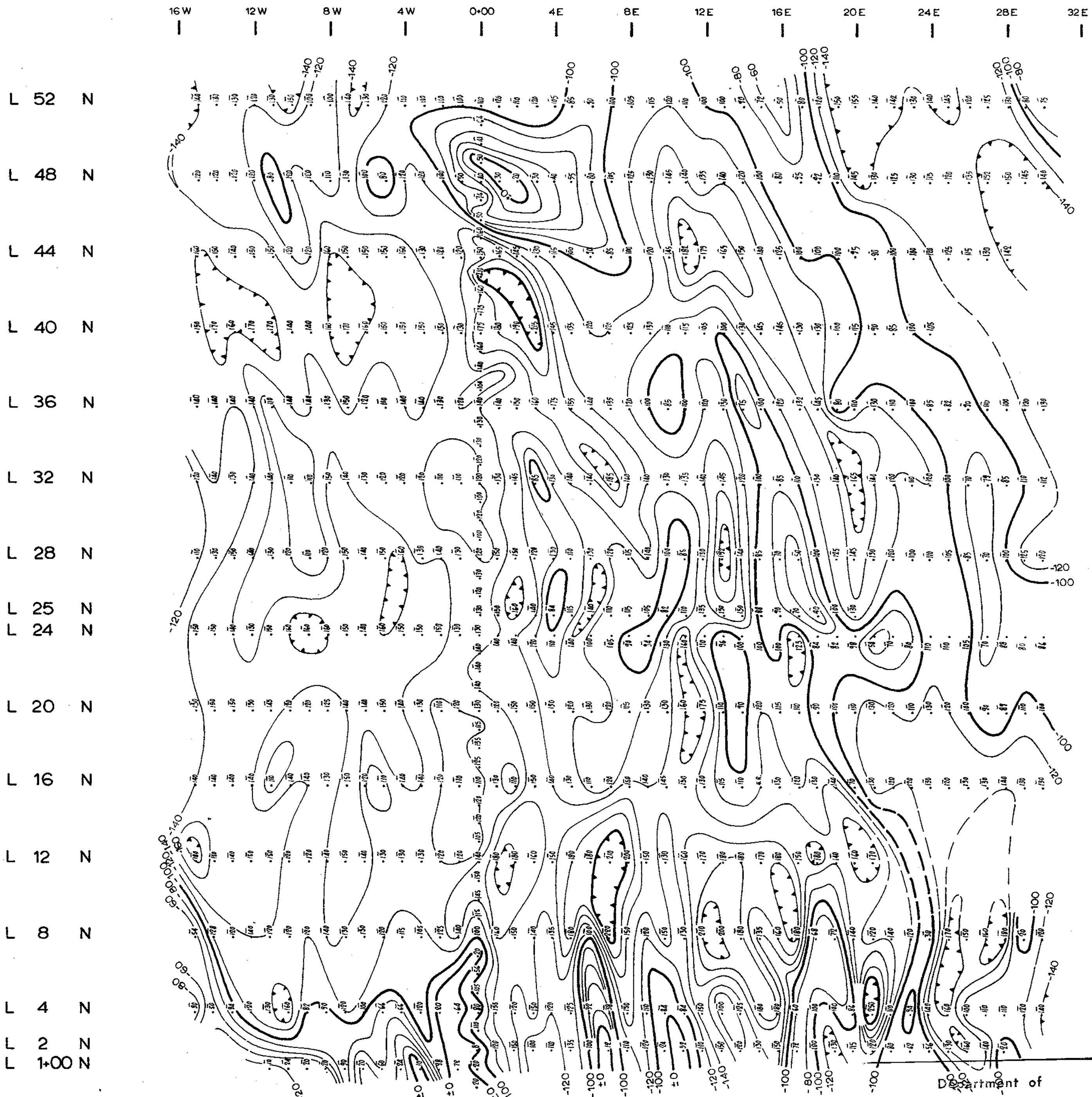
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CITEX MINES LIMITED

MAGNETOMETER SURVEY
 GRID- AND CLAIM- LOCATION MAP
 T AND ZZ CLAIMS
 SOOKE AREA
 VANCOUVER ISLAND B.C.

SCALE 1" = 400'

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 3584 MAP #2

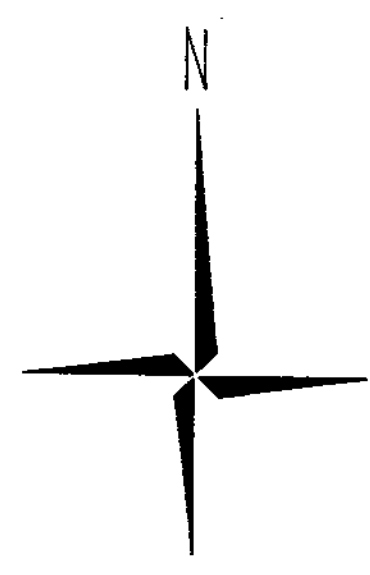


L 52 N
 L 48 N
 L 44 N
 L 40 N
 L 36 N
 L 32 N
 L 28 N
 L 25 N
 L 24 N
 L 20 N
 L 16 N
 L 12 N
 L 8 N
 L 4 N
 L 2 N
 L 100 N

16W 12W 8W 4W 0-00 4E 8E 12E 16E 20E 24E 28E 32E

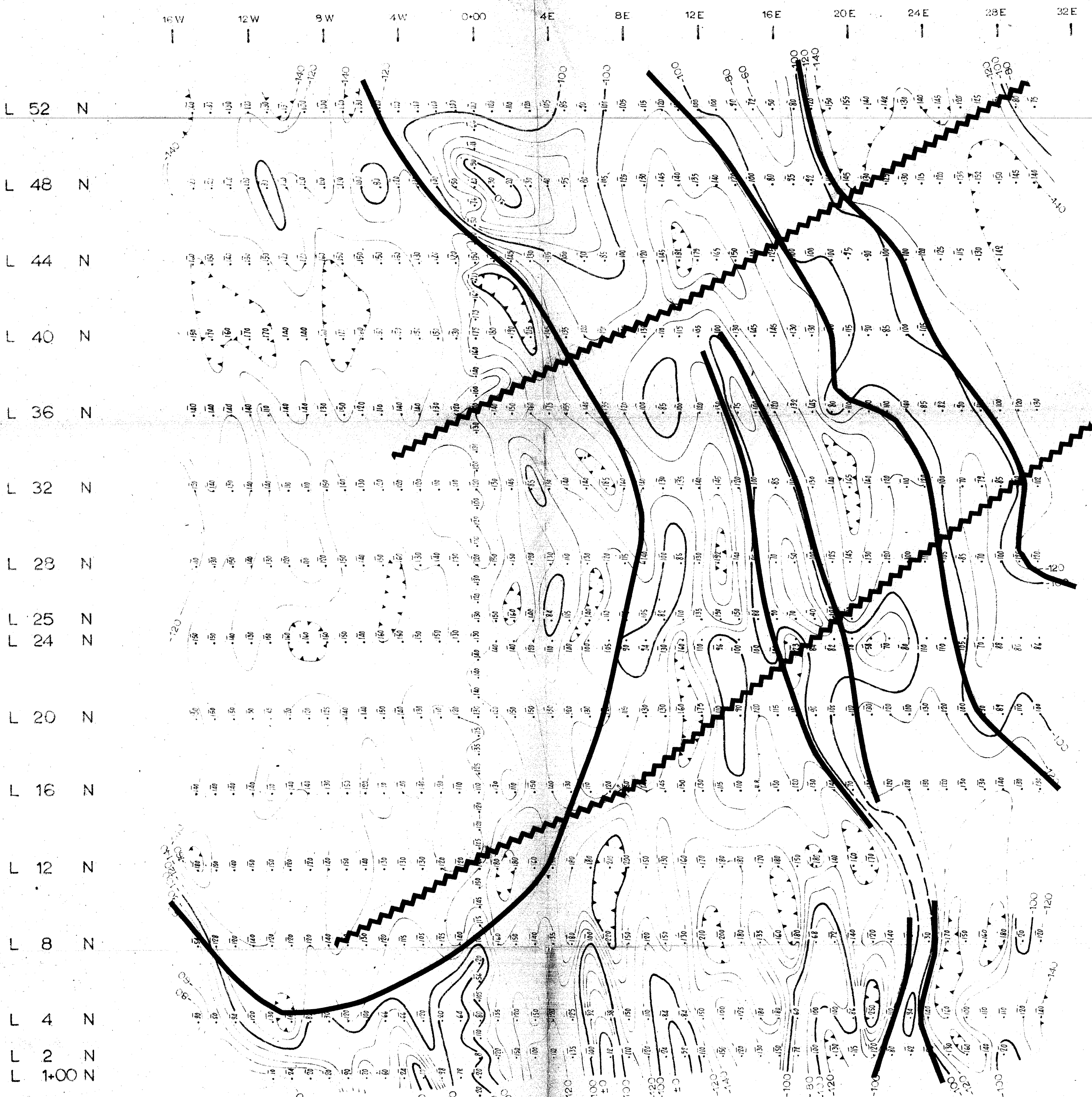
LEGEND

100 100 GAMMA CONTOUR INTERVAL
 20 20 GAMMA CONTOUR INTERVAL



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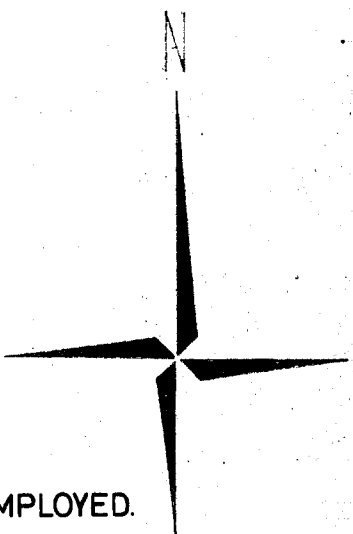
| |
|---------------------------------------|
| CITEX MINES LTD. |
| SOOKE PROPERTY MAGNETOMETER SURVEY |
| SCALE: 1" = 400' SCALE IN FEET |



LEGEND

- 100 GAMMA CONTOUR INTERVAL
- 20 GAMMA CONTOUR INTERVAL
- INTERPRETED FAULT
- INTERPRETED MAGNETIC CONTACT

NOTES: SCINTREX MF-2 MAGNETOMETER EMPLOYED.



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| CITEX MINES LTD. |
| SOOKE PROPERTY INTERPRETATION MAGNETOMETER SURVEY |
| SCALE: 1" = 400' |
| <p>SCALE IN FEET</p> |

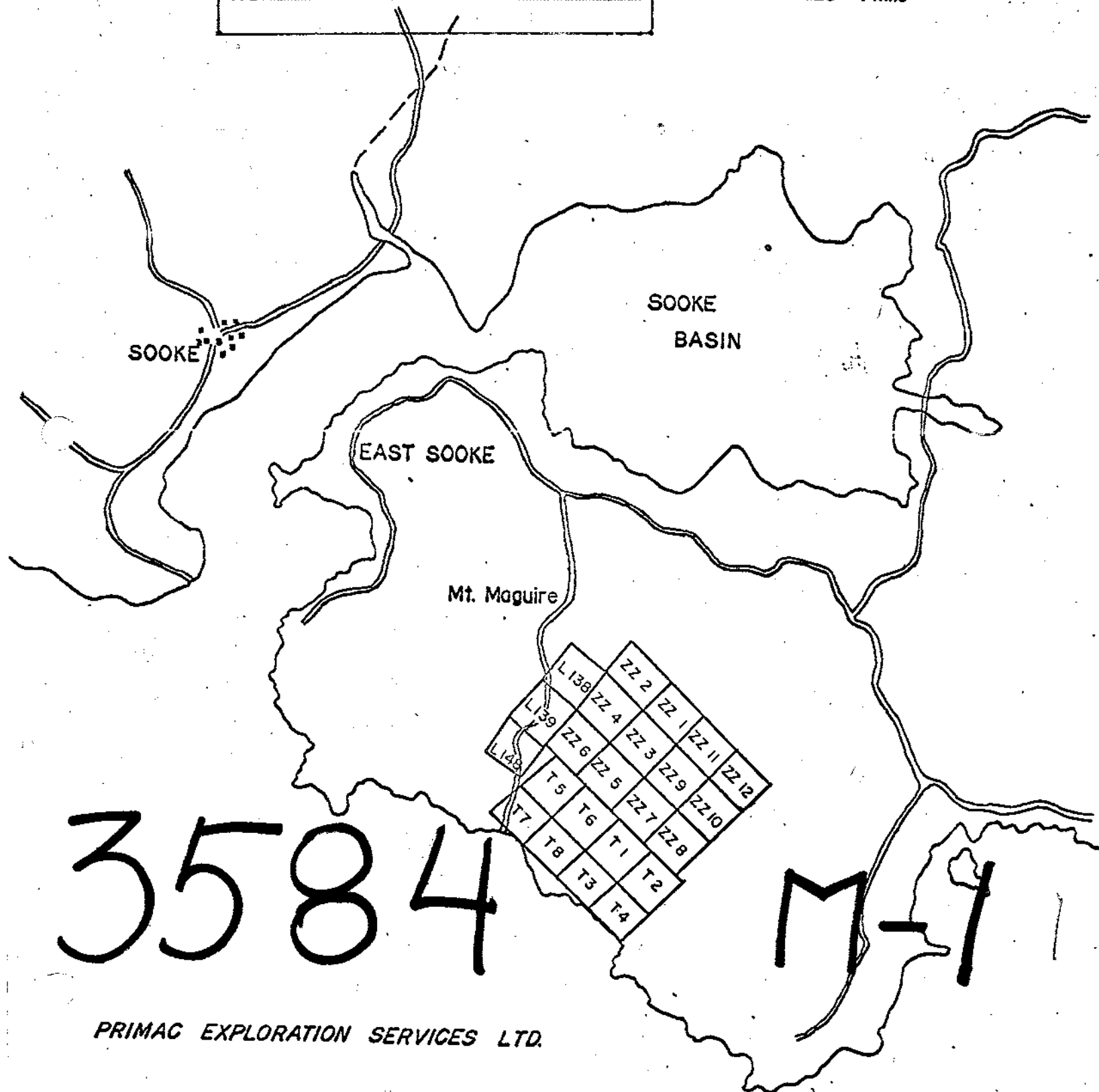
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| Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. 3584 MAP <i>AK</i> |
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Department of
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ASSESSMENT REPORT

NO. 3584 MAP

LOCATION SKETCH
T & ZZ CLAIMS
CITEX MINES LTD.
SOOKE AREA
VANCOUVER ISLAND, B.C.

Scale 1:25" = 1 mile



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PRIMAC EXPLORATION SERVICES LTD.