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TEXASGULF CANADA LIMITED REPORT ON GEOPHYSICAL WORK PROJECTS UNIT

IN

CUNNINGHAM TOWNSHIP CLAIMS: P-443159 - P-443167

October, 1976

W. A. Gasteiger

TEXASGULF CANADA LIMITED REPORT ON GEOPHYSICAL WORK IN CUNNINGHAM TOWNSHIP CLAIMS: P-443159 - P-443167

Geophysical surveys consisting of horizontal loop electromagnetic and proton precession magnetometer traverses were conducted over a group of nine contiguous claims in Cunningham Township. The claim group covers the showing known as the Ridout-Cunningham Prospect.

PREVIOUS WORK:

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A great deal of previous exploration work has been done on the property. In 1928-29, Ridout-Cunningham Mines did trenching and diamond drilling. Further diamond drilling was performed by Page-Harley Mines Limited in 1952 and 1953, and by Maneast Uranium Mines Limited in 1956.

The best intersection contained 1.63% Pb and 5.02% Zn over 60 feet. However, the mineralization seems to be very inconsistent

PRESENT SURVEYS:

Lines were cut at 300 foot intervals in a north-south direction.

MAGNETIC SURVEY:

The magnetic response is dominated by a east-west trending

iron formation that passes through claims P-443159, P-443164, P-443165. This zone contains a number of bands with varying magnetic susceptibilities (i.e. cherts, massive magnetite, graphitic and pyritic sediments). The economic mineralization of interest lies within this formation. The best intersections occur in the area of Line 300W at approximately 100N to 200N. Between Lines 300W and 600W the iron formation seems to have been faulted northward approximately 300 feet. In the east end of the property the zone of high magnetics thickens. This is probably due to folding of the iron formation.

The high magnetics on the south half of claim P-443166 is associated with a peridotite. Most of the remainder of the property is underlain by gabbro. There are various amounts of intermediate to felsic volcanics in close association with the iron formation.

HORIZONTAL LOOP:

All the horizontal loop conductors are within or close to the iron formation. As with the magnetics, the E.M. response is very strong but highly erratic. Conductors fade out or thicken very quickly, sometimes they are directly on magnetic highs, other times they are some distance to one side.

The conductivity of nearly all responses is good to excellent. On Lines 2400E and 2700E, there are zones of poor conductivity to approximately 1,000 south. This again is due to the thickening of the iron formation.

For the most part, the iron formation contains two main strongly conductive zones. The economic mineralization is within the south conductor.

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CONCLUSIONS AND RECOMMENDATIONS:

Most of the iron formation has been trenched by the previous owners of the property. It appears that the only encouragement that they received was in the area of concentrated drilling.

The mineralized zone requires a systematic program of drilling to accurately define the limits of economic mineralization. A first step should be the cutting of 100 foot lines from 600E to 600W, followed by detailed magnetic and 100 foot coil-spaced horizontal loop surveys. This may reveal a more definite relationship between the geophysical responses and the zone containing base metal mineralization.

October, 1976

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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.



PROJECTS UNIT

| Type of Survey(s) Geophysical | | | | | | |
|--|--|--|--|--|--|--|
| Township or Area Cunningham Township | MINING CLAIMS TRAVERSED | | | | | |
| Claim Holder(s) <u>Texasgulf</u> Canada Limited | List numerically | | | | | |
| P.O. Box 175, Suite 5000, Commerce Court, Toronto | | | | | | |
| Survey Company <u>Same as Above</u> M5L 1E7 | P k 443159 | | | | | |
| Author of Report <u>W. A. Gasteiger</u> | (prefix) (number) P. L. 443160 | | | | | |
| Address of Author P.O. Box 1140, Timmins, Ontario | | | | | | |
| Covering Dates of Survey Dec./75 - Oct. /76 (linecutting to office) | f. 🕵 443161 | | | | | |
| Total Miles of Line Cut 10.6 | P. L. 443162 | | | | | |
| | <u>k</u> 443163 | | | | | |
| SPECIAL PROVISIONS DAYS | | | | | | |
| CREDITS REQUESTED Geophysical DAYS | P. t. 443164 P. t. 443165 P. t. 443166 P. t. 443166 P. t. 443167 | | | | | |
| -Electromagnetic (20) | P. <u>1</u> . 443165 | | | | | |
| ENTER 40 days (include) | <u>f. x</u> 443166 | | | | | |
| | 0 | | | | | |
| ENTER 20 days for eachOther | <u>f: x 443167</u> | | | | | |
| additional survey using Geological | | | | | | |
| same grid. Geochemical | | | | | | |
| | | | | | | |
| AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys) MagnetometerElectromagneticRadiometric | | | | | | |
| (enter days per claim) | | | | | | |
| DATE: flor. 15 /76_SIGNATURE | | | | | | |
| Author of Report or Agent | | | | | | |
| I.D. | | | | | | |
| | | | | | | |
| Res. GeolQualificationsQ. 1798 | | | | | | |
| Previous Surveys | | | | | | |
| File No. Type Date Claim Holder | | | | | | |
| 2.1837 - M + 1975 Non & hewman | | | | | | |
| Mary | | | | | | |
| different values | | | | | | |
| | | | | | | |
| | | | | | | |
| | TOTAL CLAIMS9 | | | | | |
| | | | | | | |

GEOPHYSICAL TECHNICAL DATA

| G | ROUND SURVEYS - If more than one survey, spec | ify data for each t | type of surve | У | |
|-------------|---|---|--------------------------|---------------------|--|
| | Mag: 736 | | | Mag: | 788 |
| N | umber of Stations E.M. 598 | Numbe | r of Readings | 5 E.M. | 598 |
| S | tation interval <u>100' (50' detail)</u> | Line sp | acing | 300' | |
| P | rofile scaleE.M. 1" = 50% | | | | |
| С | ontour interval <u>Mag: 500 gammas</u> | | | | |
| MAGNETIC | Instrument McPhar M-700 + Accuracy - Scale constant = gammas Diurnal correction method _Magnetic field str Base Station check-in interval (hours) loops with to correct Base Station location and value At base li | ength establis 100' stations survey data. | shed along s. Baselir | the bas ne value | se line by reading 300 es subsequently used |
| CTROMAGNET | Instrument Geonics E.M 17 | | | | |
| | Coil configurationHorizontal_Loop | | | | |
| | Coil separation | | ······ | | |
| | Accuracy 2% | | | | |
| | Method: | 🗆 Shoot back | 🏝 In | line | Parallel line |
| | Frequency 1600 Hz. | (specify V.L.F. station) | | | |
| 떼 | Parameters measured In phase and quadratur | | | cy field | d as a percent |
| | of transmitted field. | | | | |
| | Instrument | | | | |
| | Scale constant | ····· | | | |
| <u>TTY</u> | Corrections made | | | | |
| GRAVIT | | <u> </u> | | | |
| GR | Base station value and location | | | | |
| | | | | | •••••••••••••••••••••••••••••••••••••• |
| | Elevation accuracy | | <u>_</u> | | |
| | | | | | |
| | Instrument | | | | |
| 1 | Method 🔲 Time Domain | | Frequency I | Domain | |
| | Parameters – On time | | Frequency_ | | |
| IZ | – Off time | | Range | | |
| IVI | – Delay time | | | | |
| RESISTIVITY | — Integration time | | | | |
| | Power | | | | |
| | Electrode array | ····· | | ····· | |
| | Electrode spacing | | | | |
| | Type of electrode | | | | |

INDUCED POLARIZATION

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