REPORT ON

A GEOCHEMICAL SURVEY

by

G.R. Peatfield - P.Eng.

on the

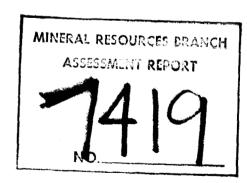
BOYA NO. 3 MINERAL CLAIM

Situated west of Graveyard Lake in the Liard Mining Division

59°15'N, 127°30'W

owned by
TEXASGULF CANADA LTD.
work by
TEXASGULF, INC.

Vancouver, B.C.



July 1979

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INTRODUCTION

Location, Access and Terrain

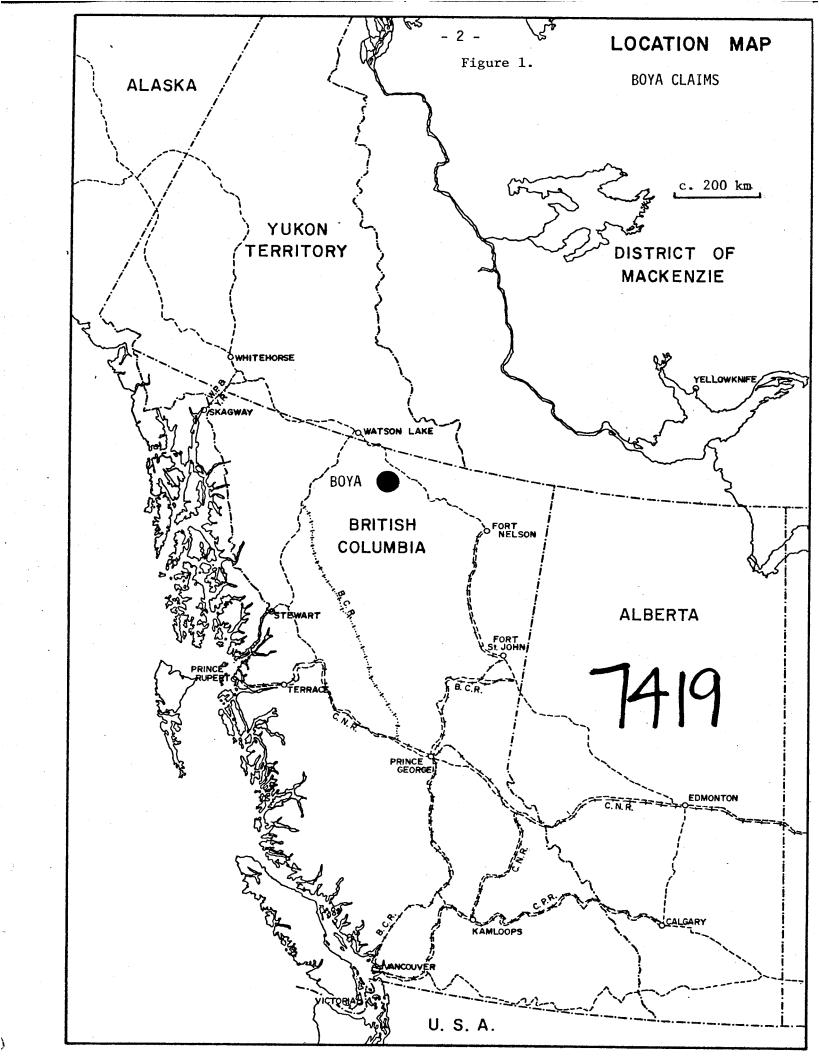
The BOYA property is located immediately northeast of the confluence of the Kechika and Turnagain Rivers, in northeastern British Columbia (see Figure 1). The nearest supply and transportation centre is Watson Lake, Yukon, some 115 km to the northwest.

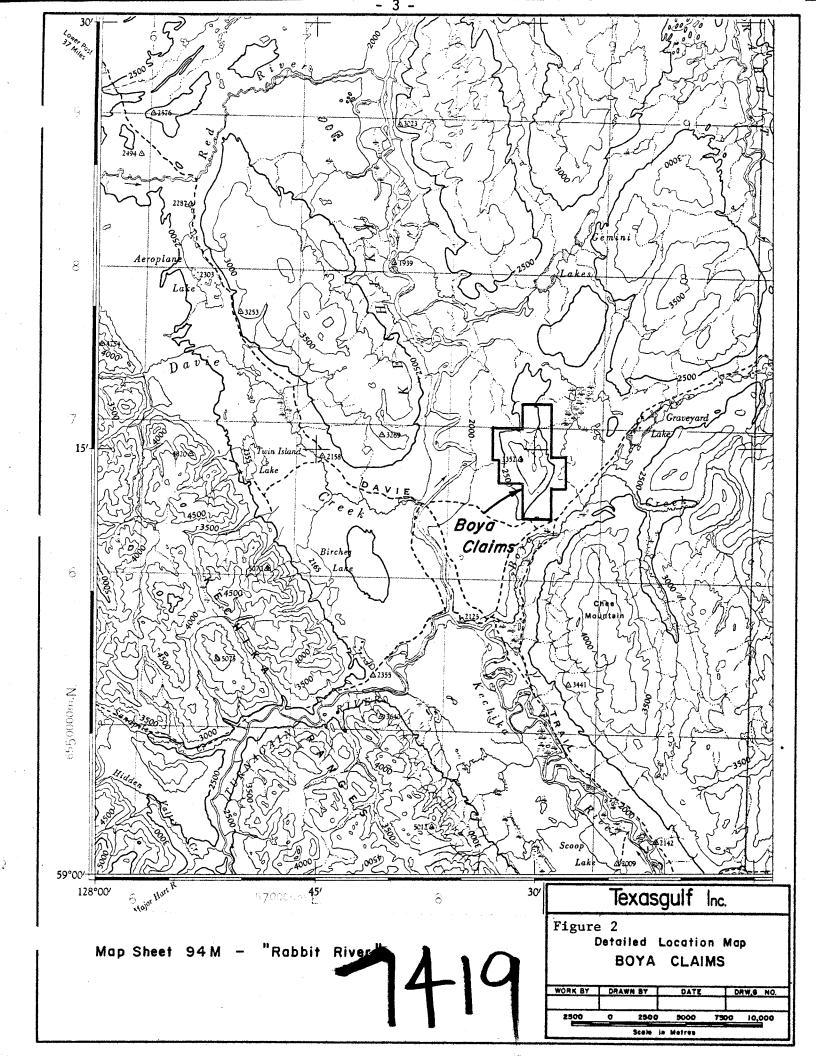
Access to the claims is presently by helicopter from various points on the Alaska Highway, the nearest being the settlement of Fireside, near the confluence of the Kechika and Liard Rivers some 50 km to the north-northeast. Fixed-wind aircraft can land at Graveyard Lake (see Figure 2). There is no road access to the area.

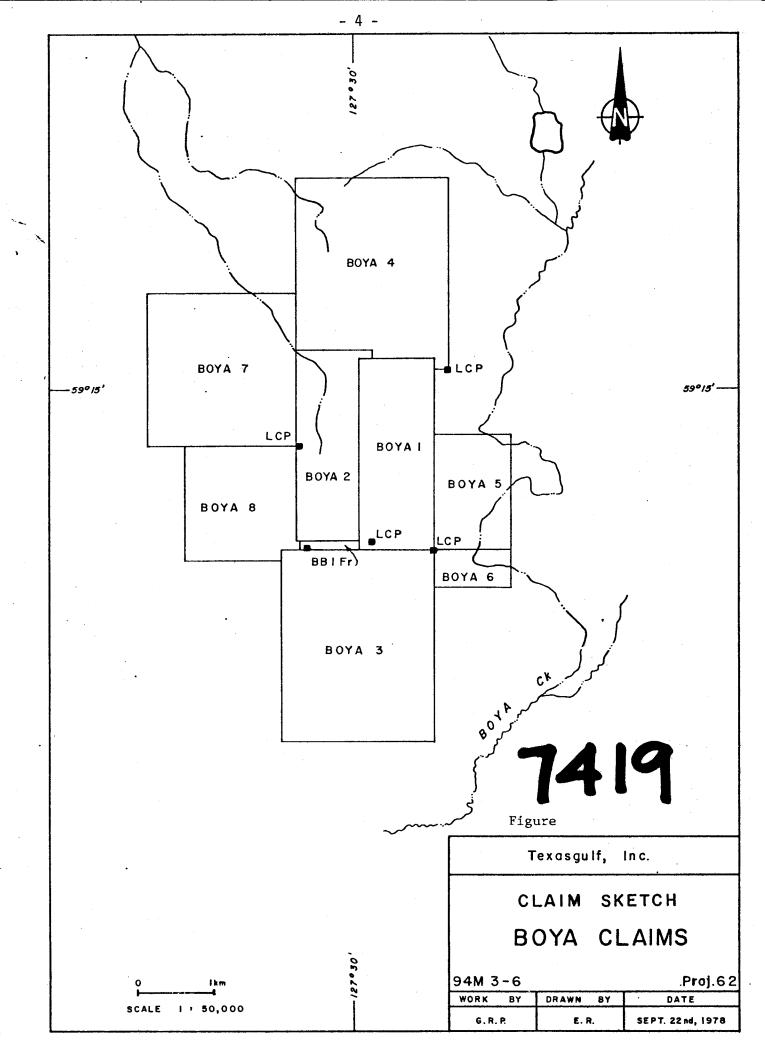
The claims are located in the extreme southwestern corner of the Liard Plain and cover most of a small hill rising some 300 m above a surrounding gravel-covered area. The maximum elevation on the hill is approximately 1050 m. Local relief is abrupt, especially along the eastern side of the hill (the 'Main Face' area), but the surface is subdued in areas of extensive overburden. Forest cover is essentially complete, commonly comprising dense second growth, in large burned areas, which makes foot travel difficult. Open grass-covered slopes are found on the southern and southeastern portions of the hill. Water on the property is scarce, but abundant supplies are available within a few kilometres.

Property History and Definition

The first BOYA claims were located in June 1977, with additional staking during 1978 and 1979. Work on the property has been completed by Texasgulf, Inc., on behalf of its wholly owned subsidiary, Texasgulf Canada Ltd., the registered owner of the claims. The investigations undertaken during 1978 have been previously reported on (Peatfield, et al, 1978; Peatfield, 1979).







At the time this work was completed, the property consisted of eight MGS claims and one fractional claim, totalling 94 units (see Figure 3), covering a raw molybdenum-tungsten prospect on which further work is contemplated. Further staking has recently been completed to the north of the original claims.

Summary of Work Completed

Geochemical survey

During the period May 23-29, 1979, a total of 61 soil samples were collected. These were analyzed for Cu, Zn, Mo and W.

Line-cutting

A limited amount of line-cutting was undertaken in order to provide control for the above described sampling. A baseline totalling 420 metres in length was cut, other lines were established by compass and flagging.

Work Distribution

The work described in this report was restricted to the BOYA 3 mineral claim.

GEOLOGY

The geology of the property has been described in a previously submitted assessment work report (Peatfield, 1979). The geology map of the relevant portion of the property is included with this report as a convenience for the reader (Figure 4S).

GEOCHEMISTRY

A minimal programme of soil sampling was undertaken in an attempt to substantiate a weak geochemical anomaly detected in an earlier survey.

The distribution of samples is shown on Figure 5a. A total of 61 samples of B-zone material were taken at regular intervals, mostly on traverses controlled by compass and chain and tied to a cut base-line.

The minus 80 mesh portions of these samples were analyzed, by Bondar-Clegg and Company Ltd. in North Vancouver, for Cu, Zn, Mo and W.

Details of extraction techniques and analytical methods are as follows:

for Cu, Zn, Mo - hot aqua regia; atomic absorption for W - basic fusion; colourmetric.

The results of the analyses are shown on Figures 5b-e. There are no anomalous values for tungsten, and only a few weakly anomalous results for zinc. A well defined but subtle anomaly in copper, and two smaller anomalies in molybdenum, have been outlined; the sources of these values have not been defined. The lack of supporting tungsten values tends to downgrade this situation.

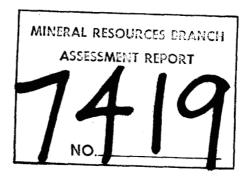
G.R. Peatfield, P.Eng.

20/07/79

BIBLIOGRAPHY

- PEATFIELD, G.R. 1979. Report on geological, geochemical and geophysical surveys and line-cutting on the BOYA NO. 1-8, B.B. 1 Fr. Mineral Claims. Report submitted to the British Columbia Ministry of Energy, Mines and Petroleum Resources for assessment work credit, May 1979.
- PEATFIELD, G.R., NEWELL, J.M., and BOYLE, P.J.S. 1978. Report on geological and geochemical surveys and topographic mapping on the BOYA NO. 1 to 4 Mineral Claims. Report submitted to the British Columbia Ministry of Mines and Petroleum Resources for assessment work credit, June 1978.

APPENDIX A Statements of Qualification



STATEMENTS OF QUALIFICATION

P.C. Hubacheck - Geologist

P.C. Hubacheck holds a B. Eng. degree from the South Dakota School of Mines, granted in 1977. He has had several seasons' field experience with Texasgulf, and is now on permanent staff with the Company, based in Calgary, Alberta.

H.R. Schmitt - Geologist

H.R. Schmitt obtained his B.Sc. degree in Geology from the University of British Columbia in 1977. He has been employed in a variety of positions by Texasgulf, for summer seasons from 1975, and has been continuously employed by the Company from April 1978 to the present.

G.D. Dillabough - Assistant

G.D. Dillabough is a senior undergraduate student in Geology at Waterloo University. This is his second season of employment with Texasgulf.

J. Gosselin - Assistant

J. Gosselin is an undergraduate student in Geography and Geology at Université de Sherbrooke. This is his second field season of employment with Texasgulf.

R. Jeatshe N. 20/01/19

APPENDIX B Statements of Expenditures

STATEMENT OF EXPENDITURES

HAWK GROUP

(LINE CUTTING)

SALARIES AND FRINGE BENEFITS - TEXASGULF, INC.

| P.C. Hubacheck - B. Eng. Period May 21-23. 1 day @ \$85.00 | 85.00 | |
|--|-----------------|--------|
| H.R. Schmitt - B.Sc. Period May 21-23. 1 1/2 days @ \$65.00 | 97.50 182.50 | 182.50 |
| ROOM AND BOARD | | |
| 2 1/2 man-days @ \$50.00/day (includes fixed-wing mob. & re-supply charges) | | 125.00 |
| HELICOPTER (Texasgulf Bell 206B) | | |
| 1/4 hr. @ \$305 | | 76.25 |
| | • | 383.75 |

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STATEMENT OF EXPENDITURES

HAWK GROUP

(SOIL GEOCHEMISTRY)

| SALARIES AND FRINGE BENEFITS - TEXASGULF, | INC. | |
|---|------------------------|--------|
| G.R. Peatfield - P.Eng. May 23. 1/2 day @ \$150.00 | 75.00 | |
| P.C. Hubacheck, B.Eng. Period May 24-29. 3 days @ \$85.00 | 255.00 | |
| H.R. Schmitt, B.Sc. Period May 25-29. 2 1/2 days @ \$65.00 | 162.50 | • |
| G.D. Dillabough - Assistant Period May 24-25. 1 1/2 days @ \$45.00 | 67.50 | |
| J. Gosselin - Assistant May 25. 1/2 day @ \$40.00 | <u>20.00</u> 580.00 | 580.00 |
| ROOM AND BOARD | | |
| 8 man-days @ \$50.00/day (includes fixed-wing mob. & re-supply charg | es) | 400.00 |
| HELICOPTER (Texasgulf Bell 206B) | | |
| 1 hr. @ \$305.00/hr | | 305.00 |
| ANALYTICAL COSTS | | |
| 57 analyses for Cu, Zn, Mo, W @ \$6.75 | | 384.75 |

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