

6454

REPORT ON

GEOLOGICAL & GEOCHEMICAL SURVEYS AND HAND TRENCHING

by

P.J.S. BOYLE - B.Sc.

on the

ROUGH NO 1 TO 5 CLAIMS

(SOUTH GROUP, WEST GROUP AND ROUGH NO 3)

Situated west of Gataga River

in the Liard Mining Division B.C.

58°16'N 126°10'W
N.T.S. 94L/8E

owned by

TEXASGULF CANADA

September, 1977

Calgary, Alberta

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

NO. _____

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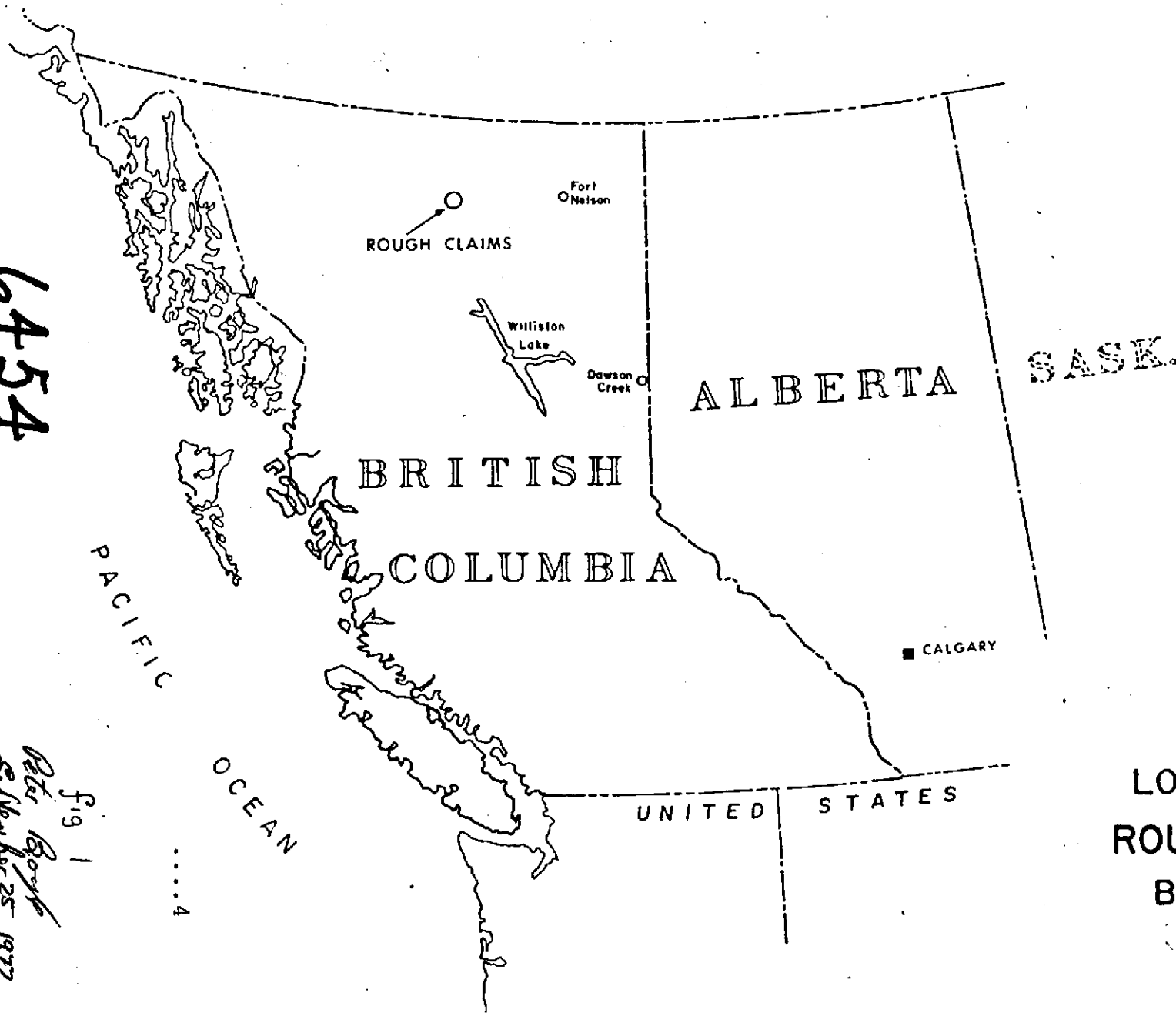
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September 25, 1977

fig 1

.....4



LOCATION MAP
ROUGH CLAIMS
B.C. CANADA

INTRODUCTION

The Rough Property comprises a total of 92 units in five contiguous claims owned by Texasgulf Canada Limited. The property was first staked in 1976.

During the 1977 field season a geological and geochemical programme was undertaken. A grid was layed out, initially with 200 meters between lines. Subsequently some fill-in lines at 100 meter spacing were completed. In all a total of 40.65 line km were completed. Soil samples were collected at 100 meter intervals, and 50 meter intervals along the lines. A total of 650 soil samples were collected. Hand trenching was done at three locations.

Work was undertaken by personnel from Texasgulf Inc.

LOCATION, ACCESS & TERRAIN

Figure 1 shows the location of the Rough Claims 8 km southwest of the Gataga River @ Lat. 58° 15'N, Long. 126° 10'W (N.T.S. 94L/8E).

Access at present is by helicopter from the Texasgulf base camp, at Mayfield Lake 23 km to the southeast. Fixed wing support originates in Watson Lake. Mobilization and demobilization by float plane, was through Muncho Lake at Mile 464 on the Alaska Highway, 95 km north of the base camp.

A cat trail ends 23 km east of the Rough Claims, at the divide between the Racing and Gataga Rivers.

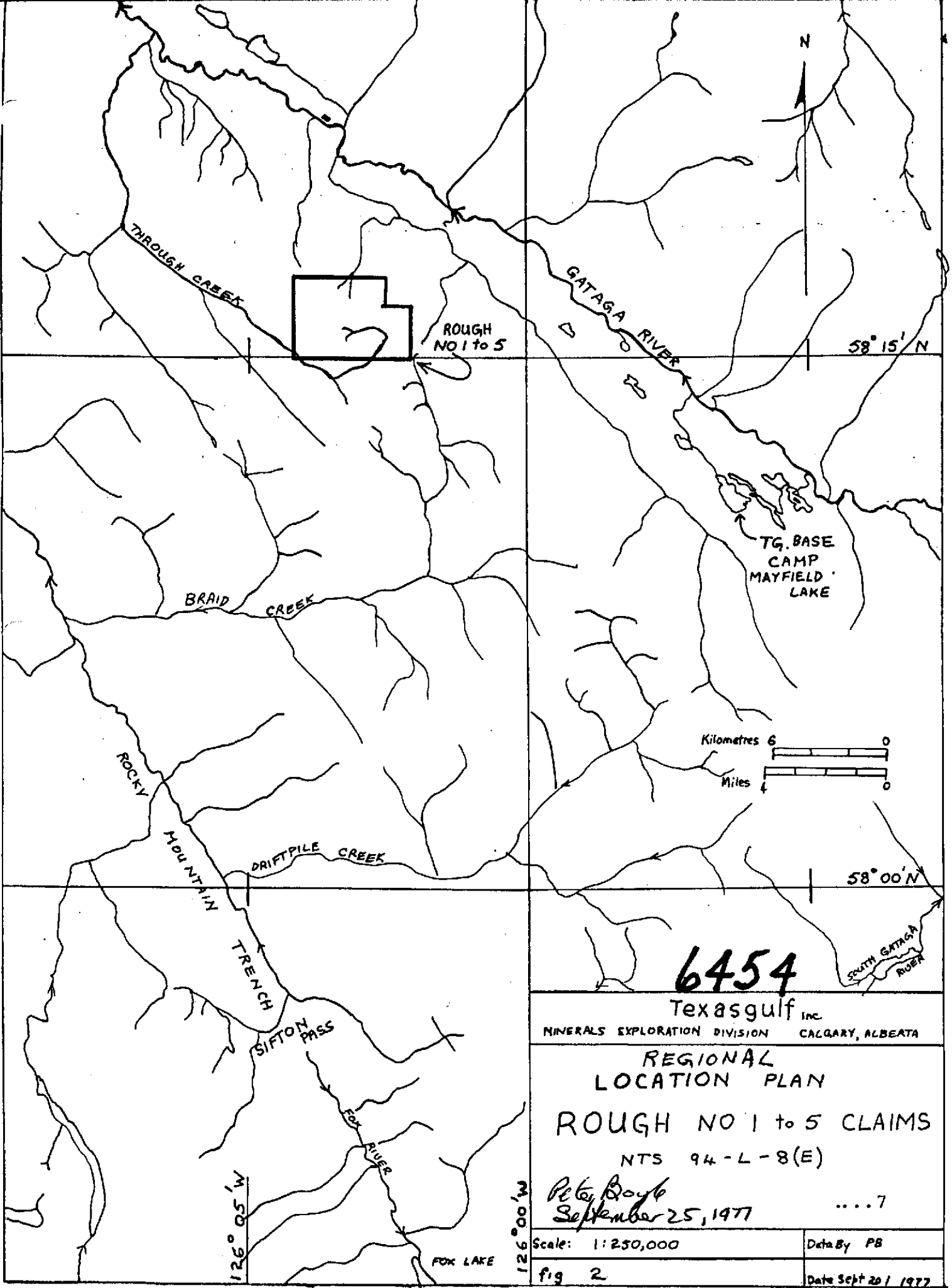
From the broad Gataga River floor at 2700' elevation the hills rise abruptly to the southeast, to northwest

trending limestone peaks over 6500' high. A parallel ridge of limestone cliffs and spires lies 4 km to the southwest. These hills drop abruptly down to 4500' elevation, into the valley floor of a north-westerly flowing tributary of Through Creek. The property lies between the limestone ridges in an area of deeply incised, rounded, hog-back, grass covered ridges. In the northern portion of the property the creeks drain to the northwest directly to the Gataga River. To the south, the main creek initially drains westwards, but arcs back to the southeast to join up with the northwest flowing tributary of Through Creek. The tree line to the north lies at 5200' elevation. To the south it lies below 4700'.

There is more than 70% outcrop exposure of the limestone. Large talus slopes are found at the foot of cliffs. Alpine soil over the shale is thin and poorly developed, outcrop is largely restricted to the incised gullies. Sulphides are rarely observed except where running water has prevented oxidation. Melt water run-off slows dramatically in early August.

SURVEY GRID

In order to provide control for the geological and geochemical surveys, a total of 40.65 line km of grid were layed out, involving a base line, grid lines at 100 and 200 meter intervals and tie lines. Sample stations were marked at 50 and 100 meter intervals with pickets. All lines were compass controlled, and



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Texasgulf Inc
 MINERALS EXPLORATION DIVISION CALGARY, ALBERTA

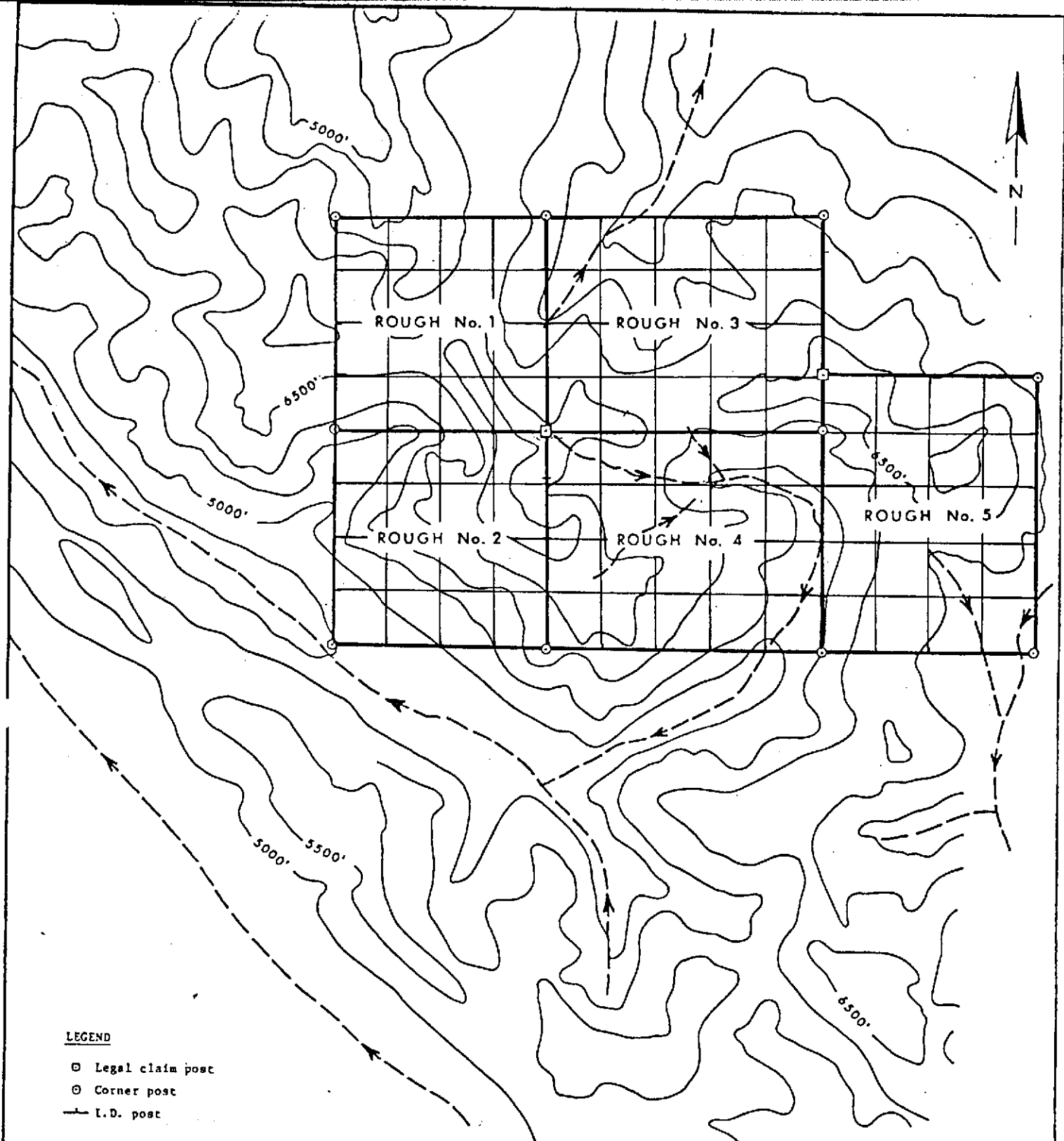
REGIONAL
 LOCATION PLAN
 ROUGH NO 1 to 5 CLAIMS
 NTS 94-L-8(E)

Peter Boyd
 September 25, 1977

Scale: 1:250,000	Date By PB
fig 2	Date Sept 20 1977

distances were measured with a survey chain. The lines were brushed out to approximately one meter width, using hand held tools where the lines dropped down to the tree line. Altimeter readings were taken at each station and the data was compiled to make the base map at a scale of 1:5000 (fig. 14). A blow up of the 1:250,000 topography map to this scale was not found to be accurate.

The "Legal Corner Post" for Rough No. 1, No. 2, No. 3 and No. 4 is located at grid 250 + 00 N, 150 + 00 E. Grid north is set at 135° azimuth.



LEGEND

- Legal claim post
- ⊙ Corner post
- - - I.D. post



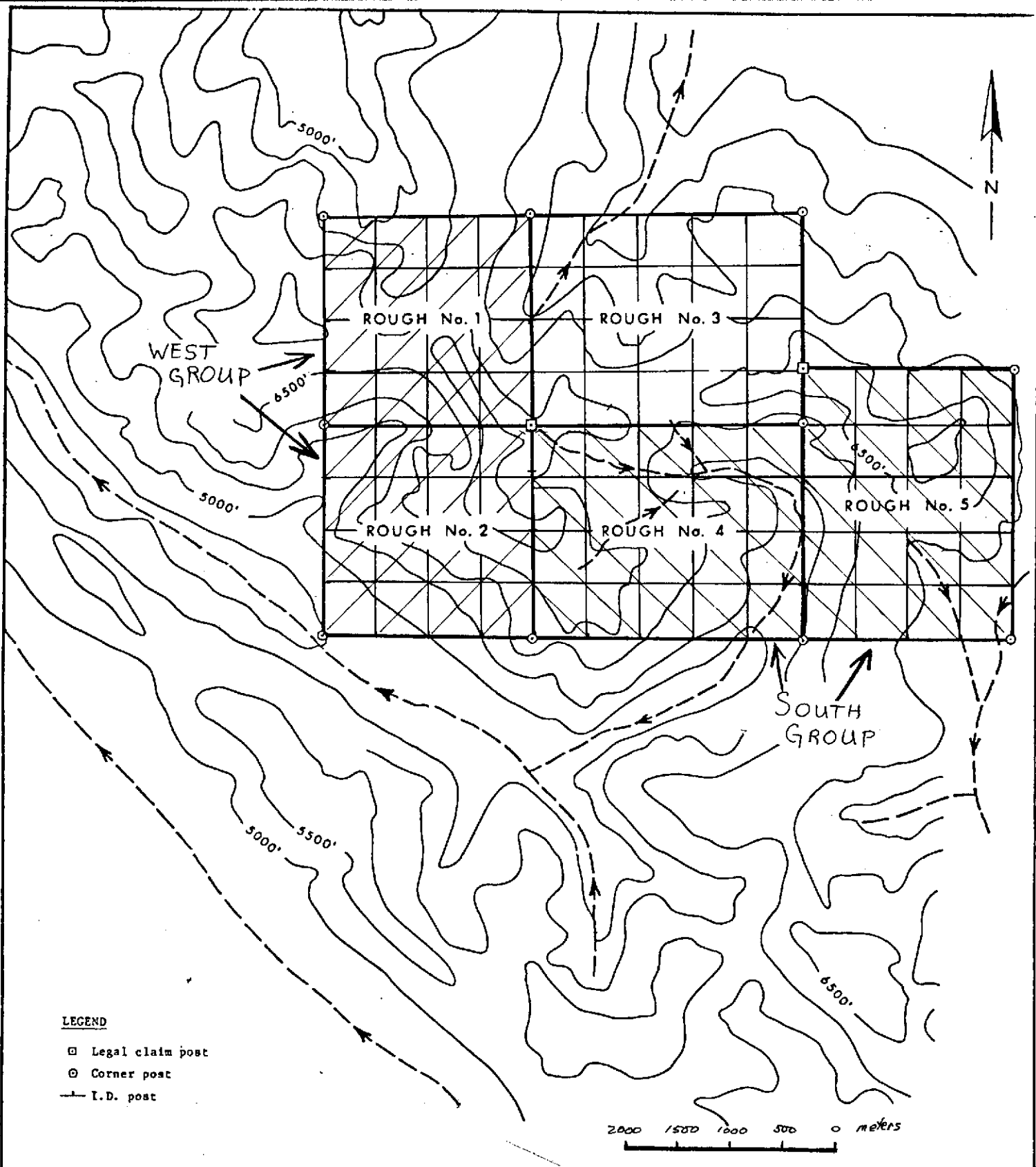
....9

fig 3

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TEXASGULF INC. MINERALS EXPLORATION CALGARY	
CLAIM MAP CLAIM - ROUGH Nos. 1-5 Incl. TOTAL 92 UNITS	
SCALE: 1: 50,000	AUTHOR: P. BOYLE
C.I. = 500'	DATE: SEPT 20, 1977
NTS 94-L-83E	DWN. BY:



LEGEND

- Legal claim post
- ⊙ Corner post
- I.D. post

2000 1500 1000 500 0 meters

....10

fig 4
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TEXASGULF INC. MINERALS EXPLORATION CALGARY	
CLAIM GROUPING MAP CLAIM - ROUGH Nos. 1-5 Incl. TOTAL 92 UNITS	
SCALE: 1:50,000	AUTHOR: P. BOYLE
C.I. = 500'	DATE: SEPT 20, 1977
NTS 94-L-8 SE	DWN. BY:

REGIONAL GEOLOGY

The Rough Claims lie 20 km northeast of the Rocky Mountain Trench, a locus of right lateral normal faulting, at least since Cambrian time. Most significant movement occurred during the Cretaceous. These movements are evident in the resultant thrust belt of rocks which comprise the Rocky Mountains.

The oldest rocks in the area are of Hadrynian age. Greenish-grey chloritic phyllites and slates with minor amounts of maroon slates, sheared greenstone lenses and poorly sorted sandstones are exposed. These sediments have been metamorphosed to low greenschist facies. The upper contact is conformable with the Cambrian Atan rocks (Unit 4 & 5 c). The argillaceous rocks within the Cambrian exhibit no evidence of metamorphism. This is a feature which is more often noted west of the Trench.

The Cambrian Atan Group paraconformably overlies the Hadrynian rocks. Two main facies have been mapped within the Atan Group, an eastern and lower clastic facies, and a western partly coeval carbonate, shale facies. The carbonate is commonly brecciated but the upper units consist of a fine grained blue limestone. The carbonate-shale westward transition marks the western limit of a clean platform type, shallow water limestone.

No recognizable fossils were found within the

limestone. However, Ordovician, Silurian and Devonian graptolitic fauna have been found locally within Unit 6 b (Kechika Group).

References

- | | |
|---------------------|---|
| Gabrielse 1962 | Geology Map Kechika Area.
GSC Map 42-1962 British
Columbia N.T.S. 94-L. |
| Taylor & Stott 1972 | Geology Tuchodi Lakes Map
Area. GSC Memoir 373 N.T.S.
94-K |

PROPERTY GEOLOGY

A map of the property geology was compiled from outcrop data. (fig. 9) Exposures are largely restricted to ridgetops and a few gullies. The structure of this area is complex. Limestones and shales are tightly folded into isoclinal structures. Some structures have been observed and where possible their trace has been indicated on the geological map. Apparent structures have also been indicated.

The oldest unit in the area is comprised of quartzite, siltstone, slate, shale and some thin limestone members. On the northeast side of the property this unit is quartzitic, with interbeds of shale and limestone near the upper contact (Unit A 1). To the southwest a breached anticline exposes the same unit in its core (Unit A 2). Siltstones, black shale and carbonaceous shale predominate. Biseriate graptolites have been found within the black shale. The upper contact is locally cherty, and some iron staining is seen. The base of the unit has not been observed.

Unit B 1 is a thin limestone unit of unknown thickness overlying Unit A 1.

Unit B 2 conformably overlies Unit A 2. Within 20 meters of the lower contact, shale and yellow weathering dolomite is interbedded with the limestone. The overlying blue-grey limestones are massively bedded.

The unit has a stratigraphic, thickness of approximately 170 meters. Traces of sphalerite have been noted near the upper contact of the limestone in breccia pods and associated with blebby white quartz veining along bedding planes. Some galena veining has been noted in the uppermost limestone beds filling tension fractures. Occasionally chlorite has been noted in some of the smaller breccias.

Unit C 1 overlies and intertongues with the uppermost beds of Unit B 2. It is comprised of 12 meters of black shale containing numerous black, blue, and grey lenses of chert and occasional limestone pods. Some gypsum was noted. Sphalerite was noted infilling pores in the chert. Extensive brecciation of the chert and faulting of the surrounding shale is apparent.

Unit C 2 overlies unit C 1, the contact is transitional over 1.5 meters. Soft dark shale is interbedded with occasional fissile shale and baritic shale. Pyrite lenses are common in the lower beds. Higher beds are comprised of medium grey dolomitic and calcareous non-cherty siltstone, medium grey argillites and interbedded shales containing some disseminated pyrite, and massive argillite. This unit has a very distinct brown weathering. The stratigraphic thickness is unknown.

Unit C 3 is a silvery weathering soft fissile shale overlying Unit C 2. Its stratigraphic thickness is not known. The upper and lower contact relationships

have not been observed.

The basal beds of Unit D are a soft dark shale with numerous rusty chert interbeds. Unit D may be in fault contact with Unit C 3 in this area. The rusty chert may be the source of iron in the spring-iron deposits on the property. Overlying beds are of variable grey-black shales (commonly cherty, with many quartz veins); dark grey bedded siltstones and shales; black, fine fissile, mainly non-cherty shales; calcareous slaty shales; alternating grey-green shales and calcareous siltstones; calcareous flags; cherty black shales and calcareous shales.

The stratigraphic relationship between Unit B 1 and Unit D has not been established. Unit B 1 is in contact with a brown weathering slightly baritic dolomitic member which may be equivalent to Unit C 2.

TRENCHING

In order to provide samples of fresh rock and hopefully to expose mineralization, three trenches were excavated. Trenches 77-1 and 77-2 were excavated using a "Diamond" plugger and dynamite. Trench 77-3 was excavated by hand. The locations of the trenches are detailed below. The bottom of each trench was mapped and a geological plan was prepared detailing the lithologies (fig. 5 to 8 incl.).

TRENCH 77-1

Location of the start of trench - west end. Grid 239 + 35N, 148+00E
Elevation 5520' el
Direction of trench 020° azimuth
Dimensions of trench (2X2X18) meters
Comments - Weathering extended 1.7 meters below outcrop surface. Sphalerite is red-pink or mud yellow in colour.

TRENCH 77-2

Location of the start of trench - west end. Grid 240 + 12N, 148+24E
Elevation 5500' el
Direction of trench 020° azimuth
Dimensions of trench (2X½X15) meters
Comments - This trench should be deepened in order to obtain fresh unweathered surface. Black shale with grey chert, and limestone are exposed. Sphalerite is red and grey in colour.

TRENCH 77-3

Location of start of trench - west end. Grid 240 + 01N, 148 + 37E

Elevation 5490' el

Direction of Trench 020° azimuth

Dimension of Trench (2X $\frac{1}{2}$ X15) meters

Comments - Brown weathering, slightly baritic shale is exposed. Weak disseminated pyrite is associated with soft grey black shale.

ROUGH NO 5



Scale

500 m

LEGEND

↘ trench

LCP

CP

ID Post

THROUGH CREEK

135+00E

150+00E

230+00N

235+00N

TRENCH 77-1, 77-2 & 77-3

240+00N

245+00N

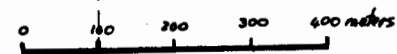
ROUGH NO 4

ROUGH NO 2

ROUGH NO 3

ROUGH NO 1

250+00N



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September 25, 1977

NOTE LCP ROUGH NO 1 to 4 is located at 250+00N, 150+00E

Texasgulf Inc.	
MINERALS EXPLORATION DIVISION	CALGARY ALBERTA
77-1, 77-2 & 77-3 TRENCH LOCATION PLAN ROUGH NO 4 CLAIM (20 UNITS) SOUTH GROUP WARD MINING DIVISION	
fig 5	... 18
Scale 1:12,500	Date Oct 20, 1977
By PB	

461510

K&E 10 X 10 TO THE CENTIMETER KEUFEL & ESSER CO. MADE IN U.S.A.

TEXASGULF INC.

PLAN AND SECTION - TRENCH 77-1

ROUGH CLAIMS

94-L-8(1)

SCALE 1:100

DATE: AUGUST 26, 1977

PH

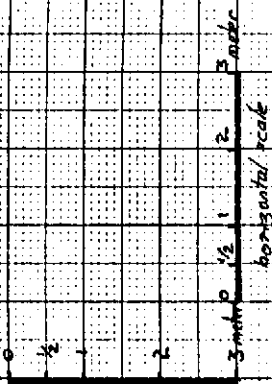
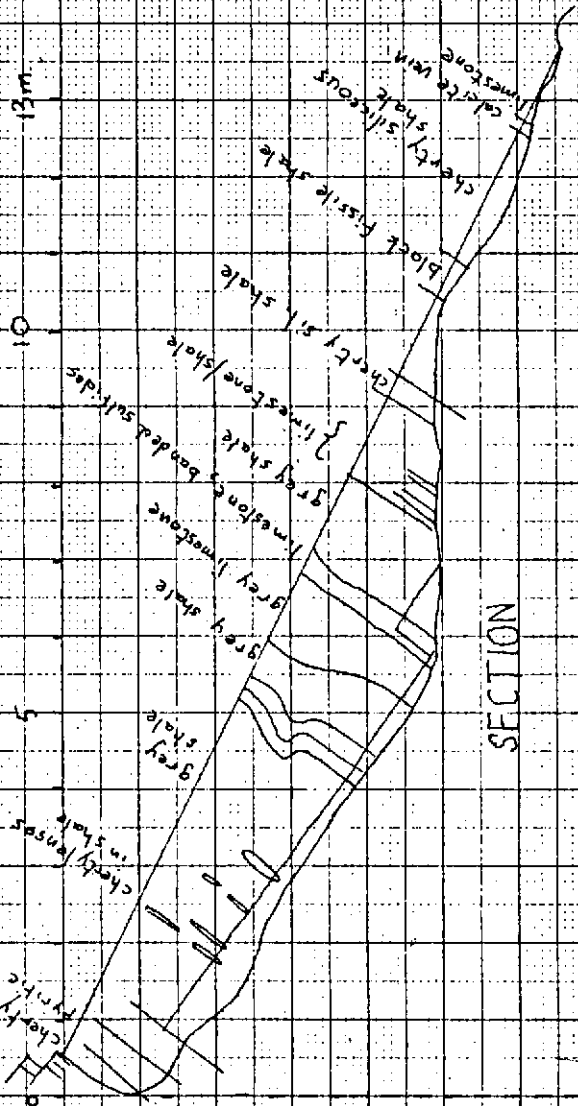
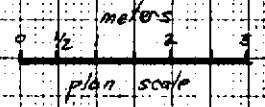


Fig 6



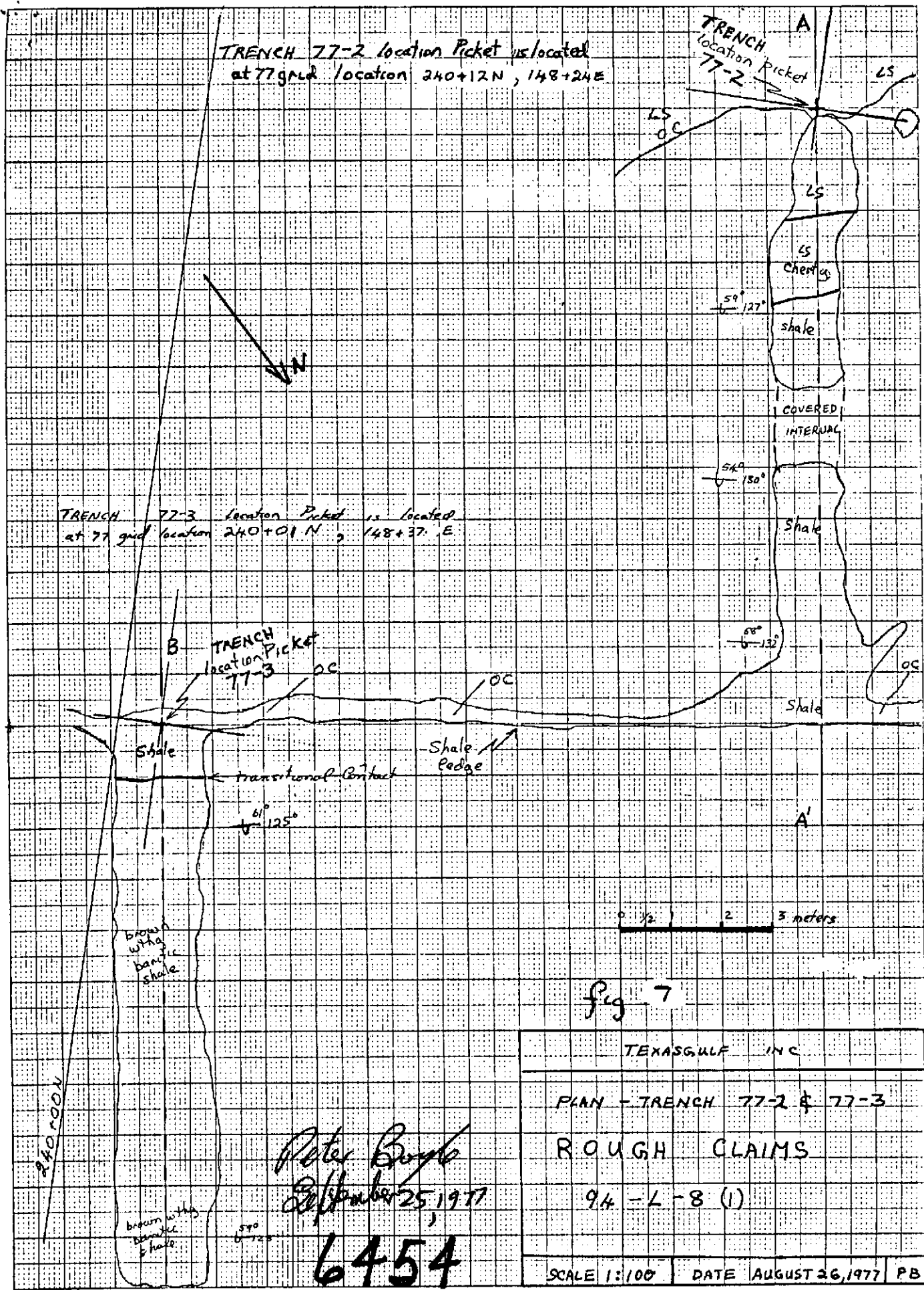
TRENCH 77-1
location picket
239+35N 148+00E

Peter Boyle
September 25, 1977

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461510

10 X 10 TO THE CENTIMETER 18 X 25 CM
KEUFFEL & ESSER CO. MADE IN U.S.A.



Peter Boyle
 September 25, 1977
 6454

B'

TEXASGULF INC

PROFILE - TRENCH 77-2 & 77-3

ROUGH CLAIMS

94-L-8 (1)

SCALE 1:100 DATE AUGUST 26, 1977 PB

PROFILE
TRENCH
77-2

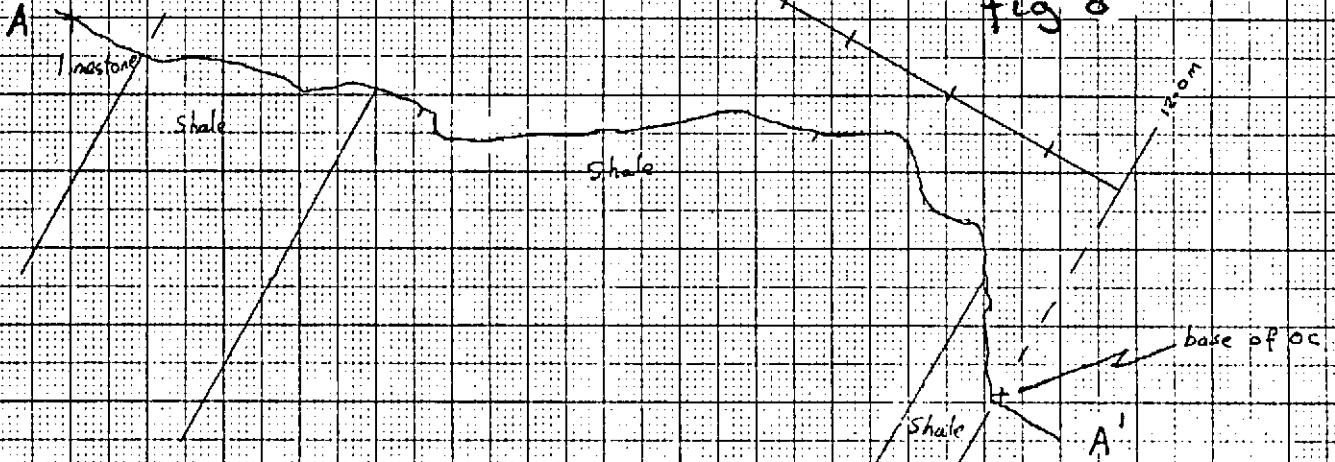
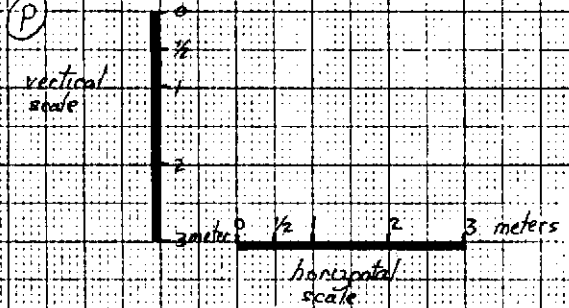
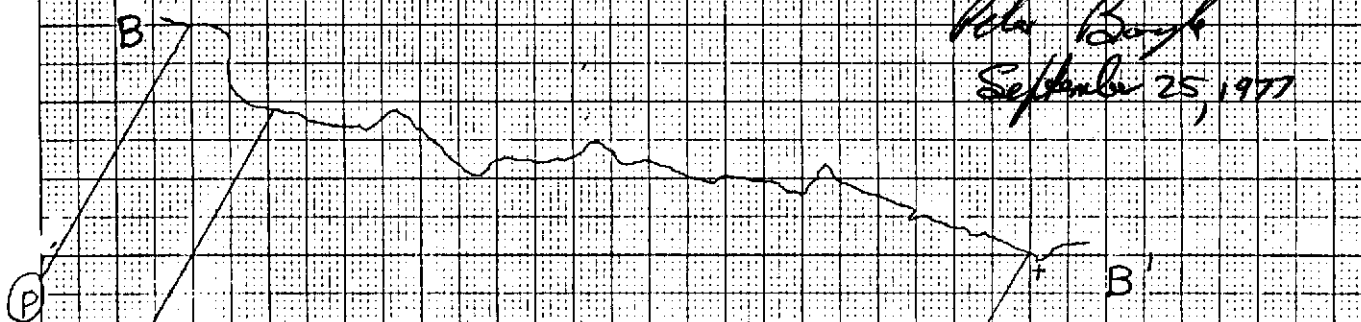


fig 8

PROFILE
TRENCH
77-3



John B. ...
September 25, 1977

6454

461510

K&E 10 X 10 TO THE CENTIMETER 18 X 25 CM
KEUFFEL & ESSER CO. MADE IN U.S.A.

GEOCHEMISTRY

A total of 650 soil samples analyses were claimed for assessment credit. Pb, Zn and Cu results are shown on the geochemical plans (fig. 10 to 12 incl.). The samples were collected between June 28 and August 13, 1977. (Appendix A) A statement of the qualifications of the personnel who actually conducted the survey is included in Appendix B.

Soil samples were taken, by personnel from Texasgulf Inc., from the B horizon at depths varying from 10 to 30 cm. Sample pits were dug using a short handled mattock.

The alpine soil development on the ridges was very thin. In the valley floors a thick layer of material has been deposited in outwash fans, at the mouths of deeply incised gullies. The ridges and hillsides are grass covered. The valley floors are covered by alders at the foot of avalanche chutes, and clumps of jackpine grow in sheltered area.

Soil samples were collected in numbered Kraft paper bags, air dried, and shipped to Bondar-Clegg and Co. Ltd. in North Vancouver. At this lab, the -80 mesh fraction was analysed for Pb, Zn and Cu., using hot Aqua Regia extraction and Atomic Absorption analytical techniques. Results are quoted as ppm. total metal.

Results of the sampling shown on figure 8, 9 and 10 were encouraging. In the area of most interest the

lead and zinc values show coherent anomalies, along the B 2 - C 1 contact, where interesting sulphide occurrences have been noted. Also the Pb anomaly at 242 + 00N 156 + 00E coincides with the high Zn values and may reflect a similar distribution of subcropping sulphides. The trend of these anomalies merges with the B 2 - C 1 trend previously noted, at the northwest corner of the property. This convergence apparently reflects the distribution of the underlying lithology, which is controlled by the structure. The Cu values are unremarkable, however, one coincidence is apparent in that the anomalous values do have a similar distribution to that observed for Pb and Zn, - with the anomalous values displaced 200 meters west.

Unusually low Pb, Zn and Cu values are noted in the valley floors. The low Pb and Zn values reflect the diluting effect of mass wastage from the hillsides, out of the deeply incised gullies and onto the outwash fans in the valley floors. The low Cu values reflect the mobility of copper in the vicinity of running water. The decrease in run off water in the streams in early August coincides with a deepening of the red colour of the springiron stains.

CONCLUSION

Further work is warranted on these claims. Interesting sulphide mineralization has been noted. High lead and zinc values from the soil survey are encouraging. Some trenching is required to expose unweathered sulphide bearing rock and in order to explain the geochemical results. Additional geological mapping is required to resolve the complex structure.



Peter Boyle

September 25, 1977

APPENDIX A

STATEMENT OF EXPENDITURES

- 1) Geological Survey
- 2) Trenching
- 3) Geochemical Survey

STATEMENT OF EXPENDITURES
WEST & SOUTH GROUP, ROUGH NO. 3 CLAIM
 (GEOLOGICAL SURVEY)

SALARIES & BENEFITS - TEXASGULF INC.

FIELD

P. Boyle - Supervision, Geologist, Blaster, B.Sc. Period June 28 - August 13	6 1/2 days @ 80.00	520.00	
F. Graham - Geologist, Ph.D. Period July 12 - July 20	5 1/2 days @ 125.00	687.50	
P. Hubacheck - Geologist, B.Sc. Period June 28 - July 22	1 day @ 50.00	50.00	
W.B. Gardiner- Geologist, B.Sc. Period June 28 - July 22	1 day @ 55.00	55.00	
P. Mann - Assistant Period June 28	1 day @ 40.00	40.00	
J. Cosgrove - Assistant Period June 28	1 day @ 40.00	40.00	
S. Krystofiak - Assistant Period June 28	1 day @ 35.00	35.00	
R. Bryden - Assistant Period June 28	1 day @ 30.00	30.00	
B. Johnson - Cook Period June 28 - August 13	2 day @ 42.00	84.00	
		<u>1,541.50</u>	1,541.50

CAMP COSTS:

20 man-days @ 25.00/day 500.00

SUPERVISION: J. Macdougall, Geologist, Ph.D.

5 man-days 1,000.00

HELICOPTER:(Quasar 206-B Jet Ranger)

9 hr @ \$300/hour (13% of total) 2,788.50

MOB & DEMOB: (Pro-rated)

450.00
6,280.00

Pro-rating:

South Group	25%	1,570.00
West Group	45%	2,826.00
Rough No. 3 Claim	30%	1,884.00
		<u>\$6,280.00</u>

Peter Boyle

 Peter Boyle
 Sept 25, 1977

STATEMENT OF EXPENDITURES
WEST & SOUTH GROUP, ROUGH NO. 3 CLAIM
 (TRENCHING)

SALARIES & BENEFITS - TEXASGULF INC.

FIELD

P. Boyle - Supervision, Geologist, Blaster, B.Sc. Period July 17 to August 14	11 days @ 80.00	880.00	
P. Hubacheck - Geologist, B.Sc. Period August 12 to August 14	3 days @ 50.00	150.00	
P. Mann - Assistant Period July 19 to August 14	11 days @ 40.00	440.00	
J. Cosgrove - Assistant Period July 17 to August 14	17 days @ 40.00	680.00	
S. Krystofiak - Assistant Period July 20 to August 14	9 days @ 35.00	315.00	
R. Bryden - Assistant Period July 17 to August 12	5 days @ 30.00	150.00	
B. Johnson - Cook Period July 17 to August 15	9 days @ 42.00	378.00	
		<u>2,993.00</u>	2,993.00

CAMP COSTS:

65 man-days @ 25.00/day 1,625.00

EQUIPMENT RENTAL:

600.00

BLASTING & DRILLING SUPPLIES:

1,000.00

HELICOPTER: (Quasar 206-B Jet Ranger)
28 hr @ 300.00/hour (39% of total)

8,365.50

MOB & DEMOB: (PRO-RATED)

1,140.00
\$15,723.50

Physical work to be applied:

South Group 100% \$15,723.50

Peter Boyle

 Peter Boyle
 September 25, 1977

STATEMENT OF EXPENDITURES
WEST & SOUTH GROUP, ROUGH NO. 3 CLAIM
 (GEOCHEMICAL SURVEY)

SALARIES AND FRINGE BENEFITS - TEXASGULF INC.

FIELD

P. Boyle-Supervision, Geologist, Blaster, B.Sc. Period July 6	1 day @ 80.00	80.00	
B. Gardiner - Geologist, B.Sc. Period July 6 to July 30	15 day @ 55.00	825.00	
P. Hubacheck - Geologist, B.Sc. Period July 17 to July 30	12 day @ 50.00	600.00	
P. Mann - Assistant Period July 6 to July 27	6 day @ 40.00	240.00	
J. Cosgrove - Assistant Period July 6 to July 27	6 day @ 40.00	240.00	
S. Krystofiak - Assistant Period July 6 to July 30	15 day @ 35.00	525.00	
R. Bryden - Assistant Period July 16 to July 30	14 day @ 30.00	490.00	
B. Johnson - Cook Period July 6 to July 30	10 day @ 42.00	420.00	
		<u>420.00</u>	3,420.00

CAMP COSTS

79 man-days @ 25.00/day 1,975.00

GEOCHEMICAL ANALYSIS

650 samples @ 3.00/sample 1,950.00

SAMPLE SHIPPING

HELICOPTER (Quasar 206-B Jet Ranger)
34 1/2 hrs @ \$300/hour (48% of total) 10,296.00

MOB & DEMOB (pro-rated) 1,410.00

19,151.00

<u>Pro-rating:</u>			
South Group	40%	7,660.40	
West Group	38%	7,273.80	
Rough No. 3 Claim	22%	4,216.80	
		<u>\$19,151.00</u>	

Peter Boyle

Peter Boyle
 September 25 1977
 J. . . 28

APPENDIX B

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I Peter J.S. Boyle hereby certify that:

- 1) I am a geologist
- 2) I am a graduate of the University of Saskatchewan,
(Saskatoon) with a BSc in geology (1972)
- 3) From 1972 to 1977 I have been engaged in mineral
exploration in British Columbia.
- 4) I have been employed by Texasgulf Inc. since 1974
- 5) I personally supervised and participated in the
field work and have assessed and interpreted all
the data resulting from the work.
- 6) I have held a BC Blasters Certificate since 1975.



STATEMENT OF QUALIFICATIONS

F. Graham Geologist PhD.

F. Graham obtained his BSc at Queens University, Belfast in 1963. In 1967 he completed his MSc at Western University, Ontario. He received his PhD in 1970 from Western University. Since 1974 he has been employed as a geologist by Texasgulf Inc. in lead, zinc exploration in Europe and North America.

P. Hubacheck Geologist BSc

P. Hubacheck was employed by Texasgulf Inc. as a geologist during the summer of 1977. He obtained his degree from the South Dakota School of Mines in May 1977.

This is his 5th summer of employment with Texasgulf Inc., and he is well regarded by his supervisors.

W. Gardiner Geologist BSc

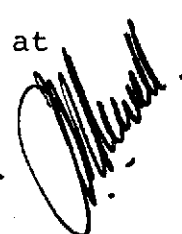
W. Gardiner is employed by Texasgulf Inc. as a geologist during the summer of 1977. He obtained his degree from Memorial University New Brunswick, 1975.

At present he is enrolled in his second year of a Master's program at McGill University Quebec. He is a conscientious and competent field geologist.

P.W. Mann Assistant

Mr. Mann is enrolled in his 4th year of Geology at Acadia University Nova Scotia.

This is his third summer's work with Texasgulf.



He is a keen and thoroughly capable field assistant.

J. Cosgrove Assistant

J. Cosgrove is enrolled in his 4th year of Geology at the University of Calgary Alberta.

This is his second summer in the field. He is a keen and capable field assistant.

S. Krystofiak Assistant

Mr. Krystofiak is enrolled in his 3rd year of Geology at the University of Alberta. This was his first season of geological related field work.

R. Bryden Assistant

R. Bryden completed Grade twelve in Ontario this spring. This was his second summer with Texasgulf in geological related work. He is keen and conscientious.

Peter Boyle
Peter Boyle

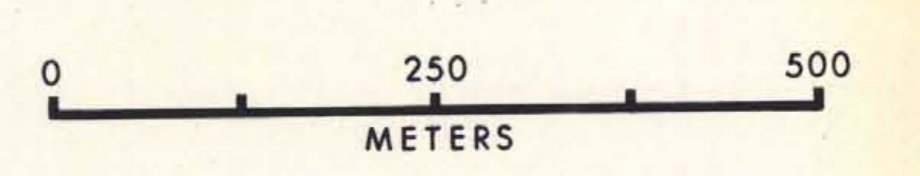
September 25, 1977

TO ACCOMPANY: REPORT ON GEOLOGICAL AND GEOCHEMICAL SURVEYS & HAND TRENCHING. ROUGH No. 1 TO No. 5 CLAIMS (SOUTH GROUP, WEST GROUP AND ROUGH No. 3)

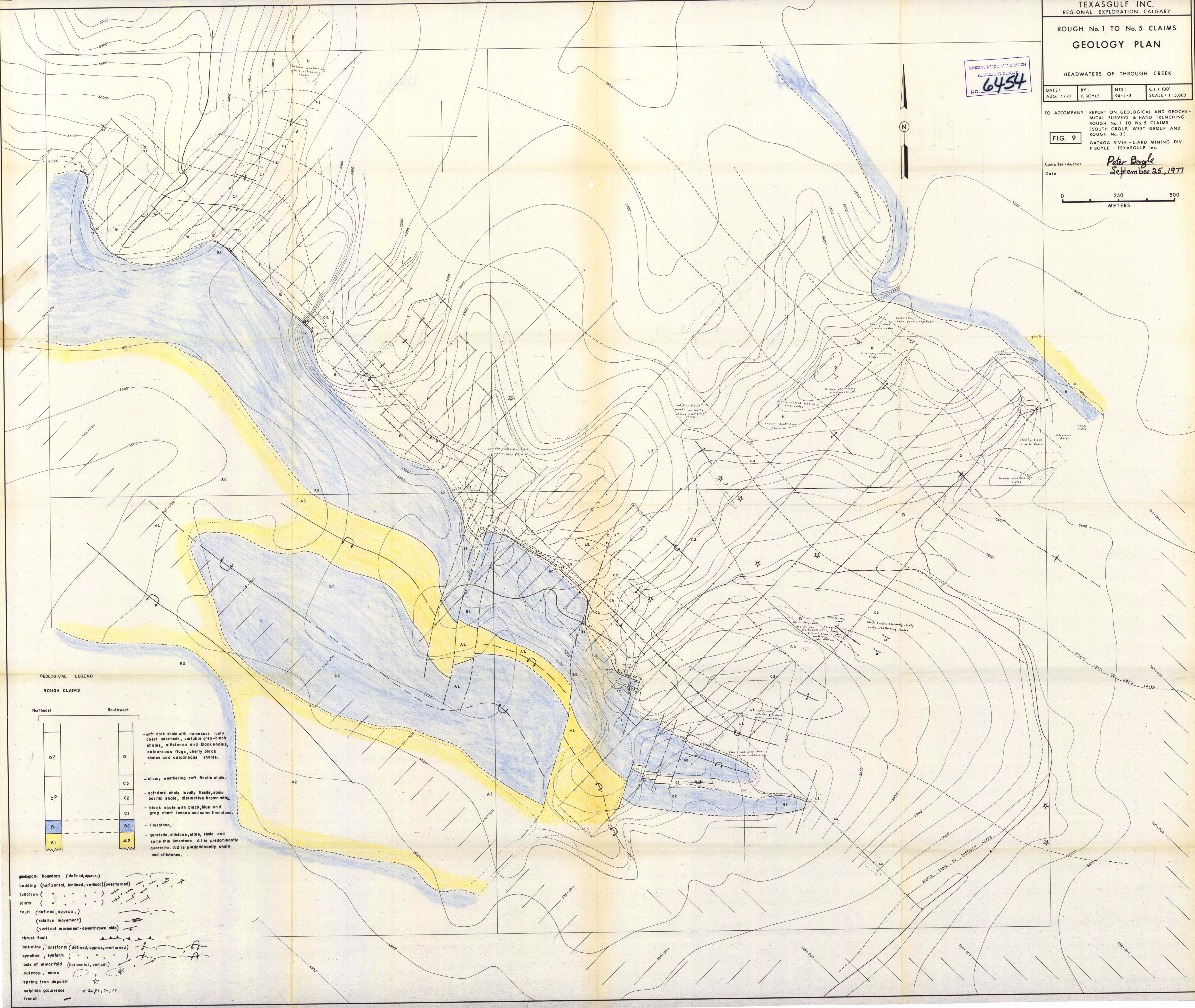
FIG. 9

GATAGA RIVER - LIARD MINING DIV. P. BOYLE - TEXASGULF INC.

Compiler/Author: Peter Boyle
Date: September 25, 1977

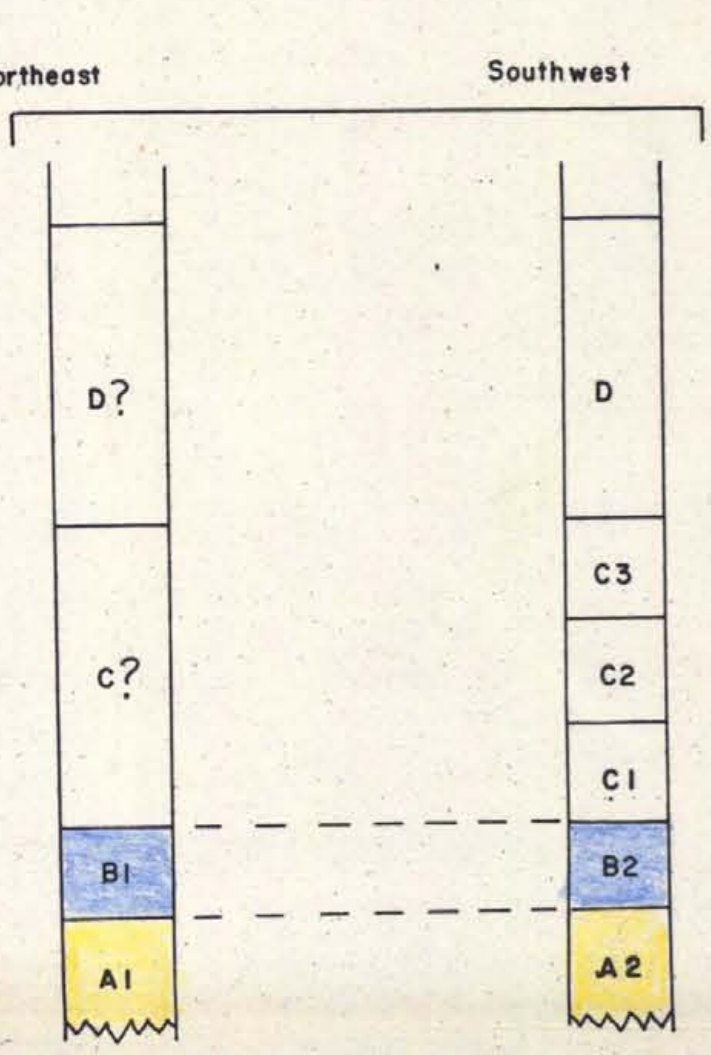


MINERAL RESOURCES BRANCH
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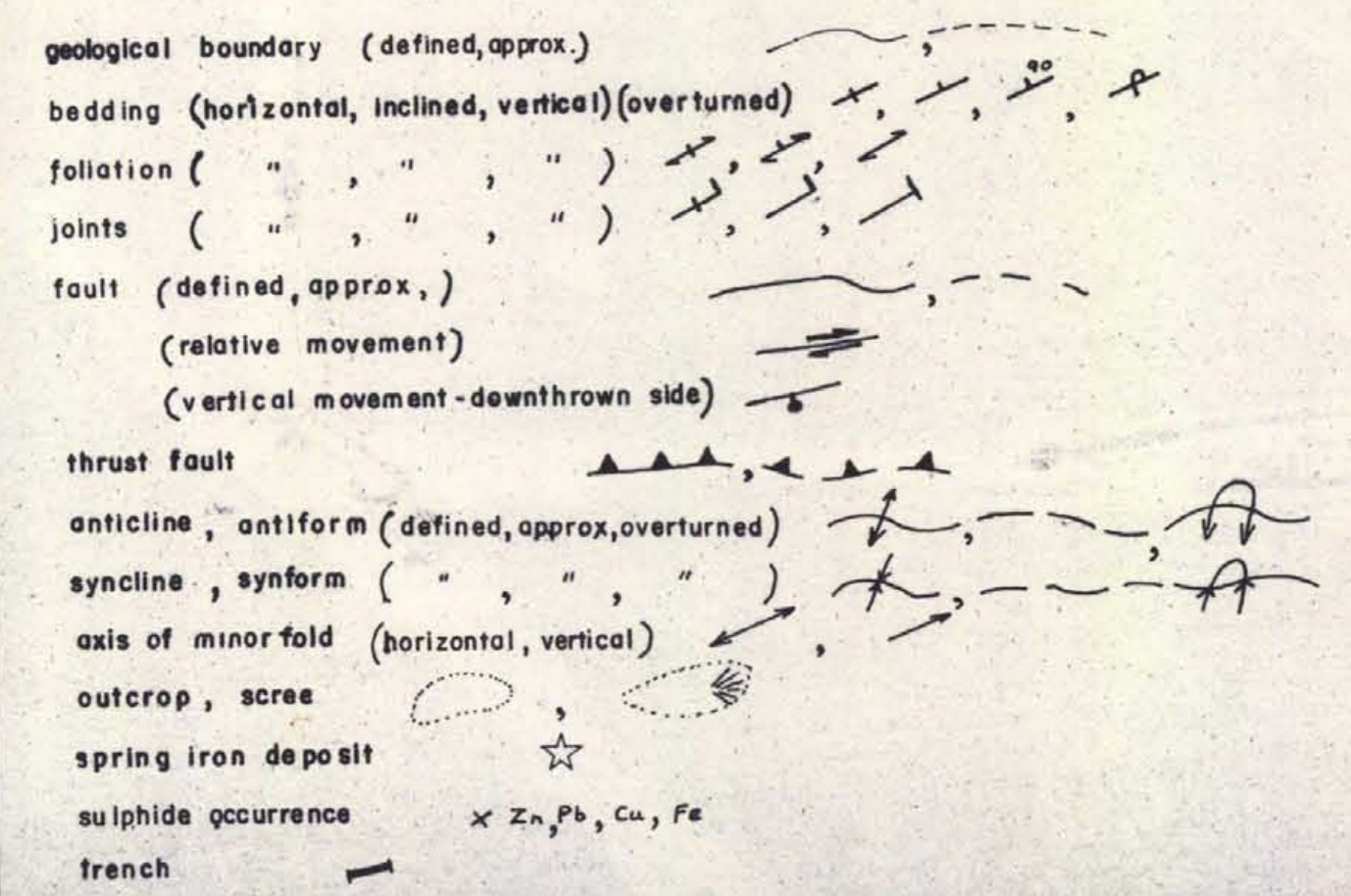


GEOLOGICAL LEGEND

ROUGH CLAIMS



- soft dark shale with numerous rusty chert interbeds, variable grey-black shales, siltstones and black shales, calcareous flags, cherty black shales and calcareous shales.
- silvery weathering soft fissile shale.
- soft dark shale locally fissile, some boritic shale, distinctive brown with.
- black shale with black, blue and grey chert lenses and some limestone.
- limestone.
- quartzite, siltstone, slate, shale and some thin limestone. A1 is predominantly quartzite. A2 is predominantly shale and siltstones.

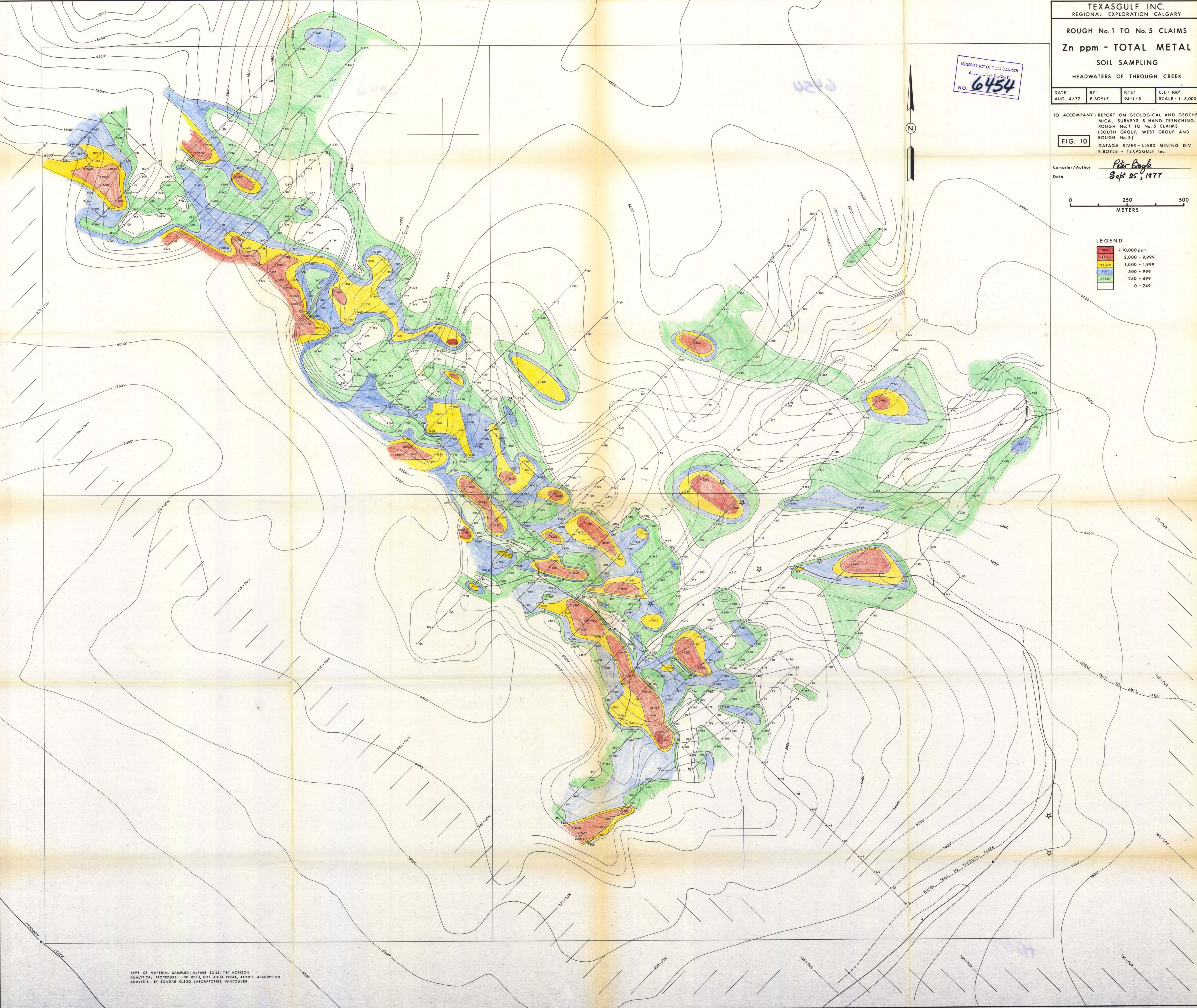
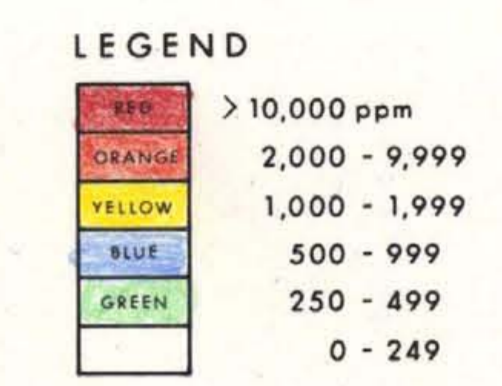
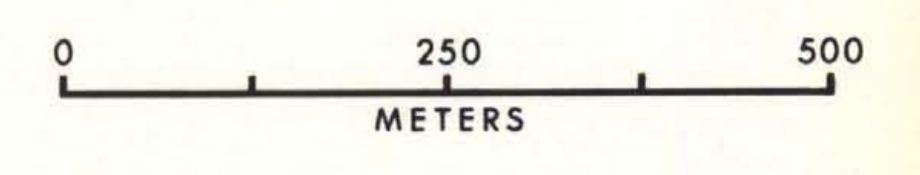


DATE: AUG. 4/77 BY: P. BOYLE NTS: 94-L-8 C.L.: 100'
SCALE: 1:5,000

TO ACCOMPANY: REPORT ON GEOLOGICAL AND GEOCHEMICAL SURVEYS & HAND TRENCHING. ROUGH No. 1 TO No. 5 CLAIMS (SOUTH GROUP, WEST GROUP AND ROUGH No. 3)
GATAGA RIVER - LIARD MINING DIV. P. BOYLE - TEXASGULF INC.

FIG. 10

Compiler/Author: Peter Boyle
Date: Sept 25, 1977



TYPE OF MATERIAL SAMPLED: ALPINE SOILS, "B" HORIZON
ANALYTICAL PROCEDURE: 80 MESH, HOT AQUA REGIA, ATOMIC ABSORPTION
ANALYSIS: BY BONDAR CLEGG LABORATORIES, VANCOUVER

ROUGH No. 1 TO No. 5 CLAIMS
Pb ppm - TOTAL METAL
SOIL SAMPLING
HEADWATERS OF THROUGH CREEK

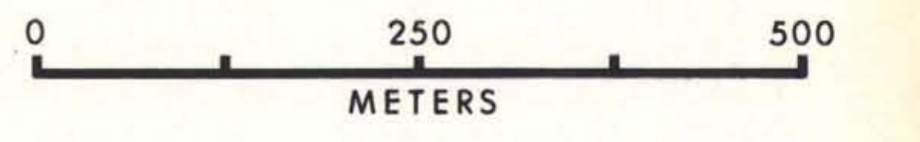
MINERAL RESOURCES BRANCH
ANNUAL REPORT
NO. 6454

DATE: AUG. 4/77 BY: P. BOYLE NTS: 94-L-8 C.I.: 100' SCALE: 1:5,000

TO ACCOMPANY: REPORT ON GEOLOGICAL AND GEOCHEMICAL SURVEYS & HAND TRENCHING.
ROUGH No. 1 TO No. 5 CLAIMS
(SOUTH GROUP, WEST GROUP AND
ROUGH No. 3)
GATAGA RIVER - LIARD MINING DIV.
P. BOYLE - TEXASGULF Inc.

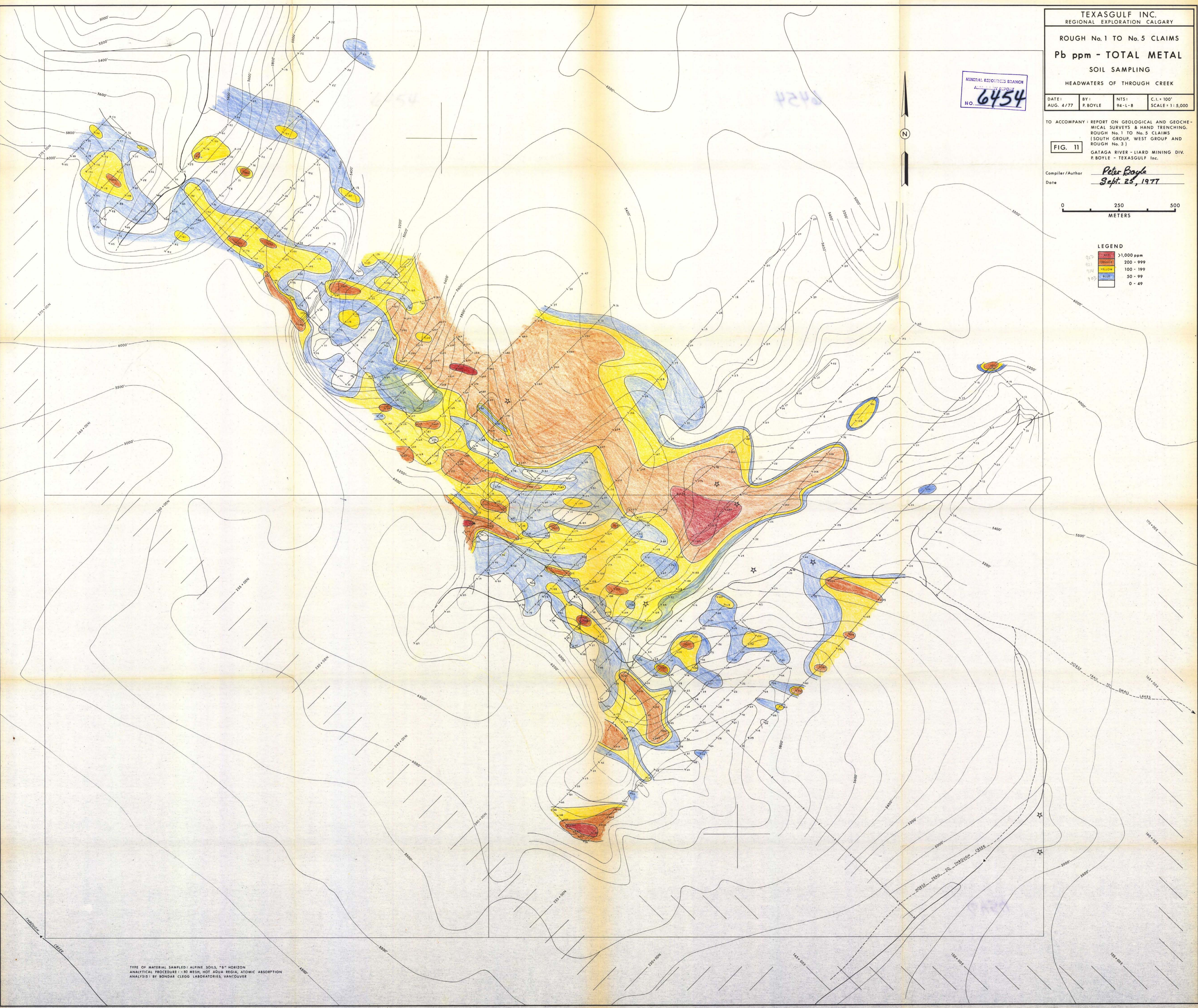
FIG. 11

Compiler/Author: Peter Boyle
Date: Sept. 25, 1977



LEGEND

Red	>1,000 ppm
Orange	200 - 999
Yellow	100 - 199
Blue	50 - 99
White	0 - 49



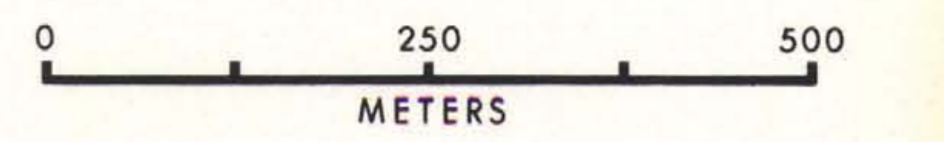
TYPE OF MATERIAL SAMPLED: ALPINE SOILS, "B" HORIZON
ANALYTICAL PROCEDURE: - 80 MESH, HOT AQUA REGIA, ATOMIC ABSORPTION
ANALYSIS: BY BONDAR CLEGG LABORATORIES, VANCOUVER

DATE: AUG. 4/77 BY: P. BOYLE NTS: 94-L-8 C.I. + 100' SCALE = 1:5,000

TO ACCOMPANY: REPORT ON GEOLOGICAL AND GEOCHEMICAL SURVEYS & HAND TRENCHING. ROUGH No. 1 TO No. 5 CLAIMS [SOUTH GROUP, WEST GROUP AND ROUGH No. 3] GATAGA RIVER - LIARD MINING DIV. P. BOYLE - TEXASGULF INC.

FIG. 12

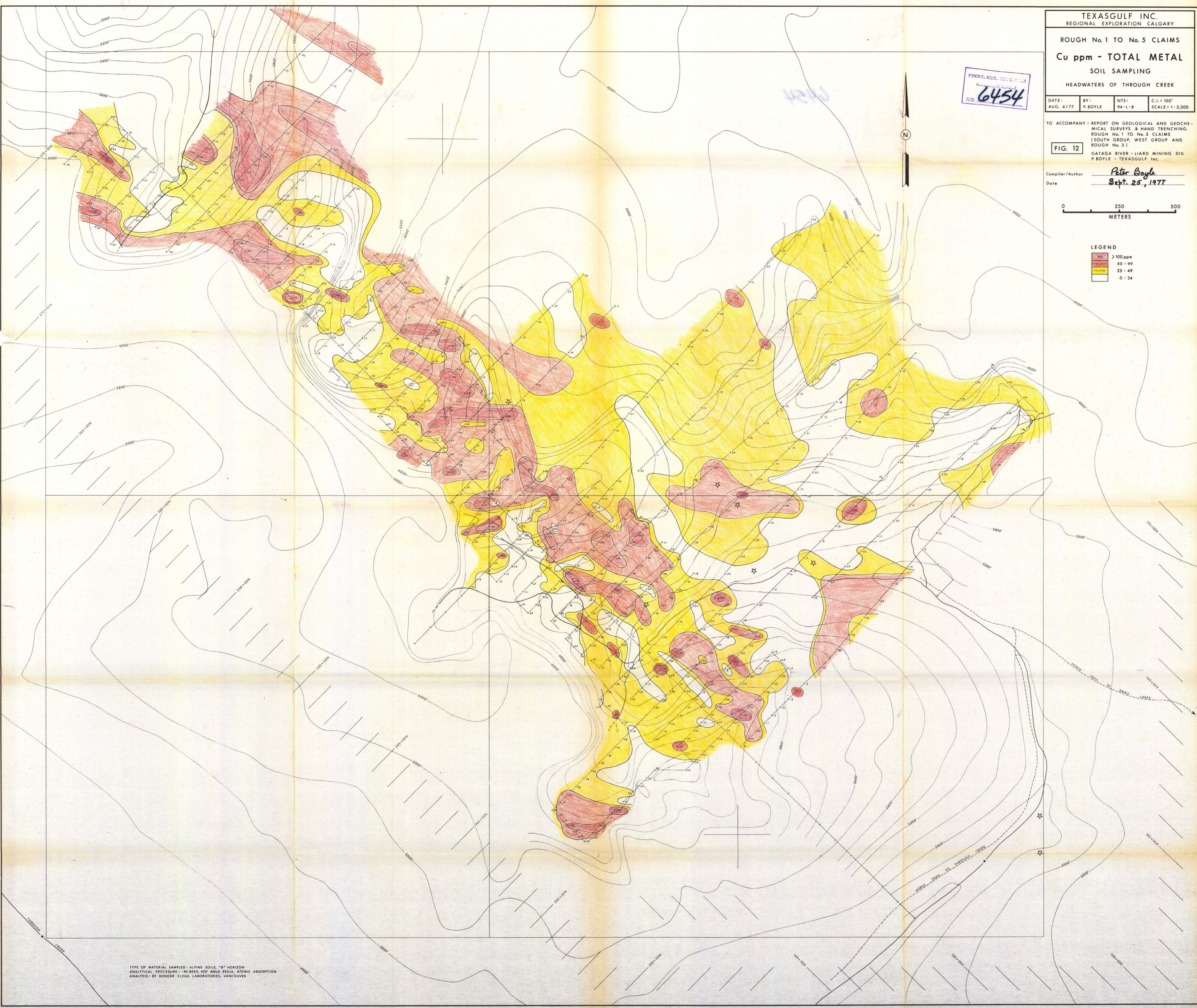
Compiler/Author: Peter Boyle
Date: Sept. 25, 1977



LEGEND

Red	> 100 ppm
Orange	50 - 99
Yellow	25 - 49
White	0 - 24

MINERAL RECORD NUMBER
6454



TYPE OF MATERIAL SAMPLED: ALPINE SOILS, "B" HORIZON
ANALYTICAL PROCEDURE: -80 MESH, HOT AQUA REGIA, ATOMIC ABSORPTION
ANALYSIS: BY BONDAR CLEGG LABORATORIES, VANCOUVER

MINERAL RESOURCES DIVISION
ASSESSMENT REPORT
NO. **6454**

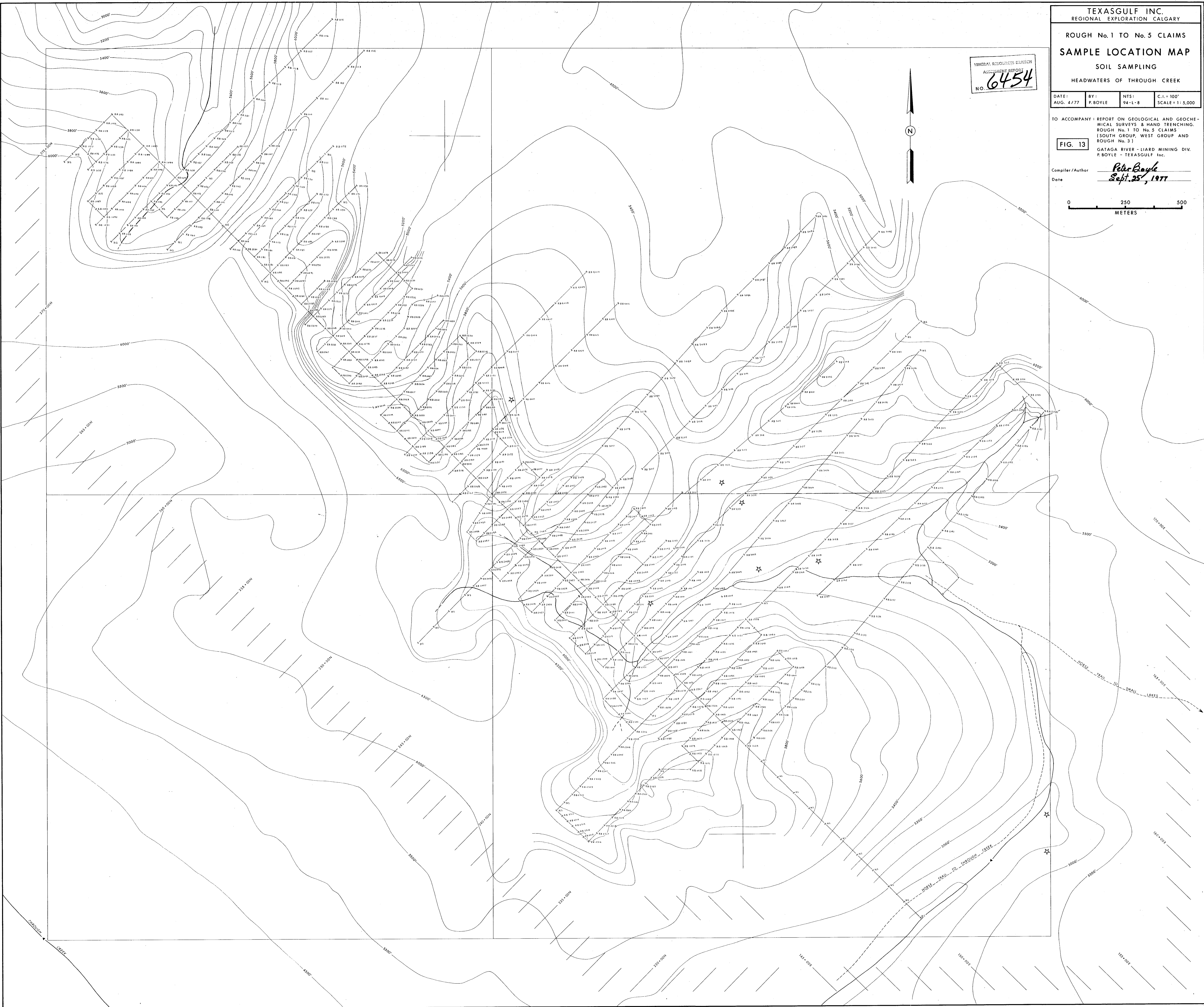
DATE: AUG. 4/77	BY: P. BOYLE	NTS: 94-L-8	C.I.: 100' SCALE: 1:5,000
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TO ACCOMPANY: REPORT ON GEOLOGICAL AND GEOCHEMICAL SURVEYS & HAND TRENCHING, ROUGH No. 1 TO No. 5 CLAIMS (SOUTH GROUP, WEST GROUP AND ROUGH No. 3)

FIG. 13
GATAGA RIVER - LIARD MINING DIV.
P. BOYLE - TEXASGULF INC.

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Date: Sept. 25, 1977

0 250 500
METERS



TEXASGULF INC.
REGIONAL EXPLORATION CALGARY

ROUGH No. 1 TO No. 5 CLAIMS

TOPOGRAPHY

SOIL SAMPLING GRID

HEADWATERS OF THROUGH CREEK

MINERAL RIGHTS DIVISION
AGRICULTURE REPORT
No. 6454

DATE: AUG. 4/77	BY: P. BOYLE	NTS: 94-1-8	C.I.: 100' SCALE: 1:5,000
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TO ACCOMPANY: REPORT ON GEOLOGICAL AND GEOCHEMICAL SURVEYS & HAND TRENCHING.
ROUGH No. 1 TO No. 5 CLAIMS
(SOUTH GROUP, WEST GROUP AND
ROUGH No. 3)
GATAGA RIVER - LIARD MINING DIV.
P. BOYLE - TEXASGULF Inc.

FIG. 14

Compiler/Author: *Peter Boyle*
Date: *Sept. 25, 1977*

