

GEOCHEMICAL REPORT

TOM CLAIM RECORD NO. 3025 (5)

OMINECA MINING DISTRICT

93N/12E LAT. $55^{\circ} 35'N$, LONG. $125^{\circ} 38'W$

by Barry James Price, M.Sc., FGAC
JMT Services Corp.
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Vancouver, B.C.

for Placer Development Ltd.
#700 - 1030 West Georgia
Vancouver, B.C.

June 15, 1981

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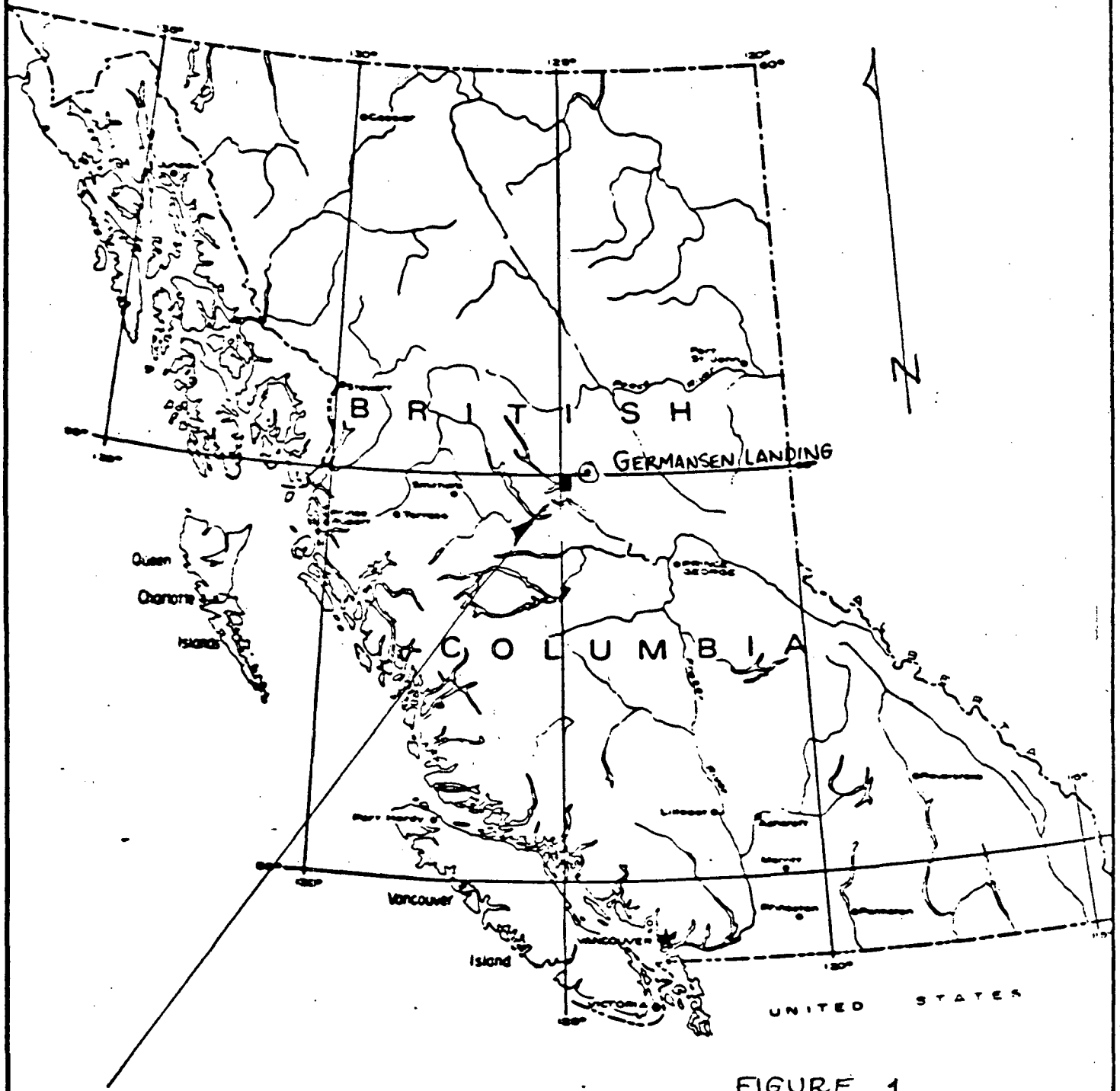
SUMMARY

Geochemical sampling of stream sediments and soils from the TOM claim, 20 units, on a tributary of Tom Creek, 60 km west of Germansen Landing was done by JMT Services Corp. on May 19, 1981. Samples have low values in arsenic (1-22 ppm) but weakly to moderately anomalous gold values (to 262 ppb in silt). Gold values probably originate from quartz-rich phyllites and schists of "Cache Creek" group outcropping in the area. A short programme of mapping and sampling is recommended.

Barry Price

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TOM CLAIM

FIGURE 1

JMT SERVICES CORP.			
MANSON PROJECT TOM PROPERTY			
PROPERTY LOCATION MAP			
SCALE			
Map 1136		.36 Miles	
Prepared By:	Date:	NTS MAP AREA 93 - E	DRAWING No.
Drawn By:	Revised:		

I: INTRODUCTION

The Tom claim was staked to cover weak rusty-stained rock exposure in a steep walled tributary of Tom Creek. This creek has recorded placer gold production of 1624 ounces of gold to 1947.

II LOCATION & ACCESS (Figure 1)

The Tom Property is located 40 miles southwest of Germansen Landing, which is reached by 120 miles of summer gravel road from Fort St. James. A four wheel drive road extends from near Germansen River to Kwanika Creek and Silver Creek and continues up Kenny Creek to Tom Creek. Condition of this road is unknown but should be passable in dry weather.

The property is most easily reached by helicopter from Fort St. James (100 mi), Smithers (approx. 100 miles), or Germansen Landing (40 miles).

III CLAIMS (Figure 2)

The Tom Claim was staked by C. Harivel for K. W. Livingstone on April 23, 1980 and recorded on May 23, 1981. The 20 unit claim covers the first northward flowing tributary of Tom Creek.

IV- WORK PROGRAMME

Work on the property was done on May 19, 1981 by B. Price and C. Harivel, geologists. Mobilization was by helicopter from Smithers for C. Harivel, and from Vancouver, via Germansen Landing by truck for B. Price. A total of 38 samples were taken on two traverses. Geochemical analyses for gold and arsenic were done by Chemex Laboratories Ltd., 212 Brooksbank Avenue, North Vancouver, B.C. Helicopter support was provided by Okanagan Helicopters Ltd., Smithers, B.C. Sample locations and results are shown in Figure 3 in the map pocket.

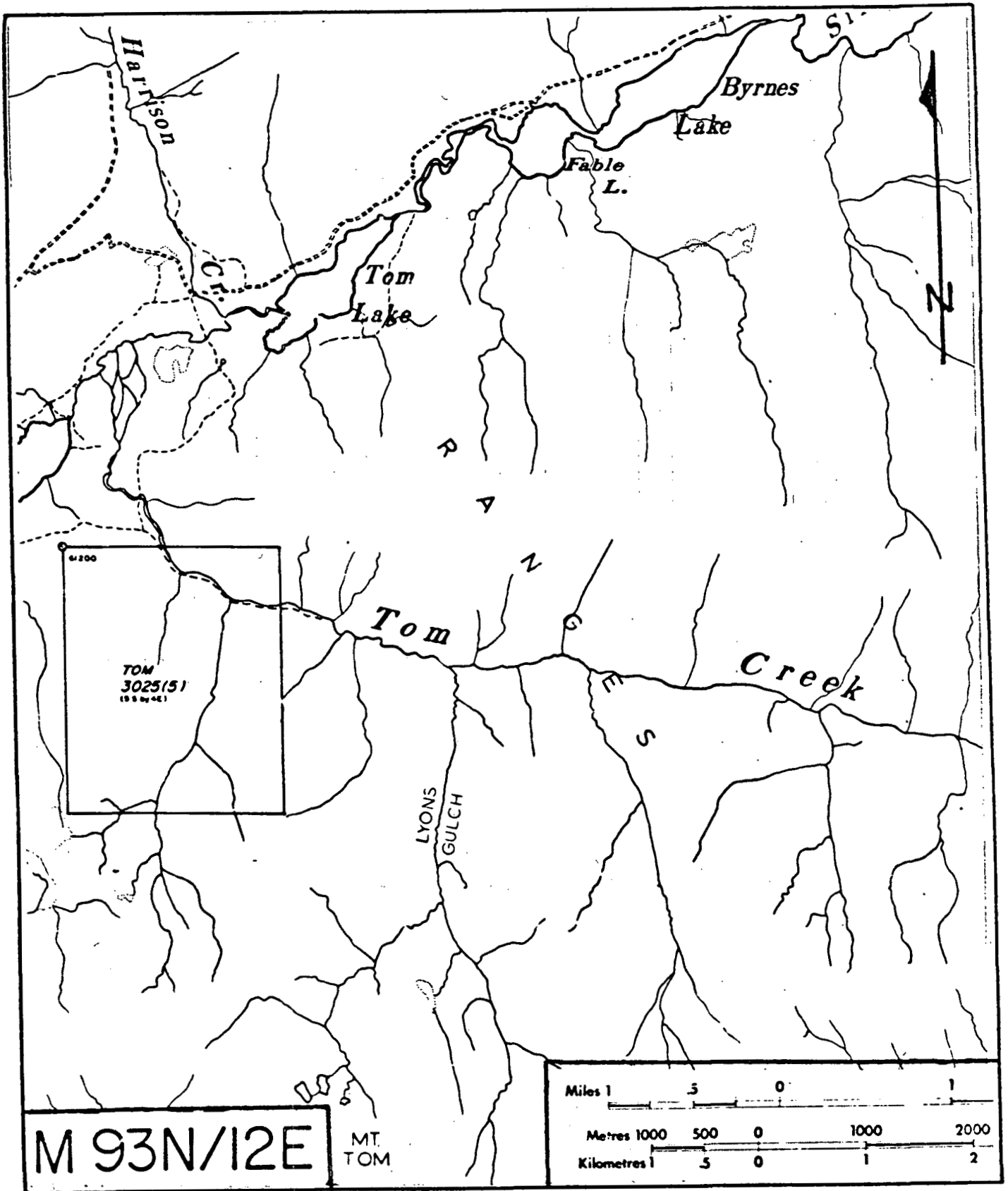


FIGURE 2 CLAIM MAP - TOM CLAIM, OMINECA M.D.

V GEOLOGY

Tom Creek, situated in the Vital Mountains, lies within a metamorphosed belt of the "Ribbon Chert" member of the Cache Creek Group. Exposures along the tributary of Tom Creek covered by the claim are of grey to black phyllite with numerous quartz partings and lensy veins. Foliation seen along the east creek bank strikes 168° to 188° with steep dip (80° E). Some cross cutting quartz-ankerite veins exist, and some float of massive quartz-carbonate-mariposite rock is present in Tom Creek. Quartz-sericite schists are probably present within the creek drainage, judging from the abundance of this material as float.

VI GEOCHEMISTRY (Figure 3)

Sampling was inhibited by deep snow and high creek levels. A total of 39 soil, silt and rock samples were analyzed for arsenic and gold.

a) ARSENIC

Values in all types of samples are low, ranging from 1 to 22 ppm. None of the samples are considered anomalous for this element.

b) GOLD

Most soils and silts taken have measureable amounts of gold, ranging from less than 1 ppb to a high of 262 ppb. Samples with over 15 ppb are considered anomalous, and 12 of the 38 samples exceed this value. Quartz-rich phyllites and schists sampled gave 13 and 17 ppb gold. - slightly anomalous. Red soils have significantly higher gold content (e.g. P352) than those taken over greyish clay till -- present on the lower portion of the creek. The highest value occurs in silt-sample H315 from a small tributary of Tom Creek east of the claim block (262 ppb) -- this value is considered strongly anomalous.

VII CONCLUSIONS AND RECOMMENDATIONS

Based on the results to date, further prospecting and sampling is warranted on the property and adjacent to it. Source of gold in soils and silts is probably the quartz-rich phyllites and schists and detailed rock geochemistry will be necessary to verify this. Source of the silica-carbonate float should be searched for and more of this material sampled.

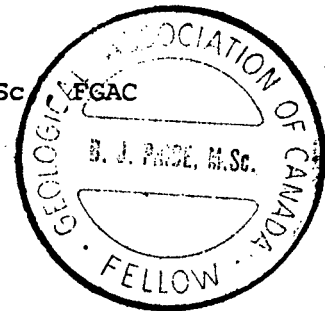
A short programme of mapping and sampling is recommended; 4 man-days with 2 geologist should be sufficient. Cost of such, a programme with helicopter support, would be approximately \$4,000.00

Respectively submitted,

Barry Price

Barry J. Price, M.Sc. FGAC

June 15, 1981



STATEMENT OF COSTS

TOM CLAIM

CONSULTING FEES

B. Price	- May 18,19,	2 days @ \$200	\$ 400.00
C. Harivel	- May 18,19,	2 day @ \$200	400.00
B. Price	- June 14,15 (report)	2 days @ \$200	400.00

HELICOPTER COSTS

Okanagan Helicopters - Smithers #H20550	1,621.50
Fuel - Chevron Bulk Plant #445536 864.44 x 1/4	216.11

GEOCHEMICAL ANALYSES - Chemex Labs Ltd.,

Invoice #I8111122 (part) - 39 samples @ \$9.60	374.40
Freight - Greyhound 1/2 x \$40.60	20.30
Freight - Russell Transport #10593, \$152.64 x 1/4	38.16

FOOD - 4 man days @ \$25.00/man day	100.00
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CAMPS COSTS - 1/4 x \$145.00	38.25
B. C. Tel 1/2 x \$42.22	21.11

E. Montgomery expenses	138.69
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TRUCK RENTAL - mobilization 1/4 x 705.00	
JMT Blazer with camper	176.25

Base map preparation - Vancal #20323	163.93
typing	40.00
xerox	10.00
drafting (B.Price x 1/2day)	100.00
	<u>100.00</u>
	\$4,228.70

Barry Price

STATEMENT OF QUALIFICATIONS

I, BARRY JAMES PRICE of Vancouver, B.C. do hereby certify that,

1. I am a consulting geologist residing at 2121 W. 5th Avenue, Vancouver, B.C.
2. I am a graduate of the University of British Columbia, B.Sc. (Honours Geology) 1965, M.Sc. (Economic Geology 1972).
3. I have practiced my profession as an exploration geologist continuously since 1965.
4. I am a Fellow of the Geological Association of Canada.
5. This report is based on my personal knowledge of the district and the mapping and sampling done on the property.

Barry Price

B.J. Price

APPENDIX I

GEOCHEMICAL SAMPLING TECHNIQUES

1. SOILS

Soil samples are taken, from B horizon where possible, with a steel scoop and put into gusseted kraft paper sample envelopes marked with code numbers for each sampler. Records of location and characteristics of soil are kept in note-form by each sampler. At the lab, samples are dried at low temperatures, sifted, and portions of the -80 mesh fraction used for analysis.

2. SILTS

Silt samples are taken from active stream sediments with a steel scoop and placed in kraft sample envelopes. Large samples are taken where necessary to ensure sufficient - 80 mesh material is present. Samples are dried at low temperatures and sieved, with a portion of the -80 mesh fraction analyzed.

3. ROCKS

A kraft envelope is partly filled with small chips taken from across the sampled interval, or if from float, from several random pieces. The chips are crushed and pulverized to approximately 100 mesh and homogenized and a small portion used for analysis.

ANALYSIS

Samples analyzed for copper, lead, zinc, silver and molybdenum are dissolved in nitric-perchloric mixture of acids and determined by atomic absorption analysis. Silver values are corrected for background readings.

Samples analyzed for gold are treated by fire-assay pre-concentration and determined by neutron activation analysis.

Samples analyzed for arsenic are digested with perchloric-nitric acid with a hydride finish and determined by atomic absorption analysis.

Samples analyzed for antimony are digested in concentrated HCl with KI, extracted with MIBK TOPO and determined by atomic absorption with background corrections.

Samples analyzed for mercury are analyzed using the Hatt-Ott procedure and closed-cell atomic absorption determination.

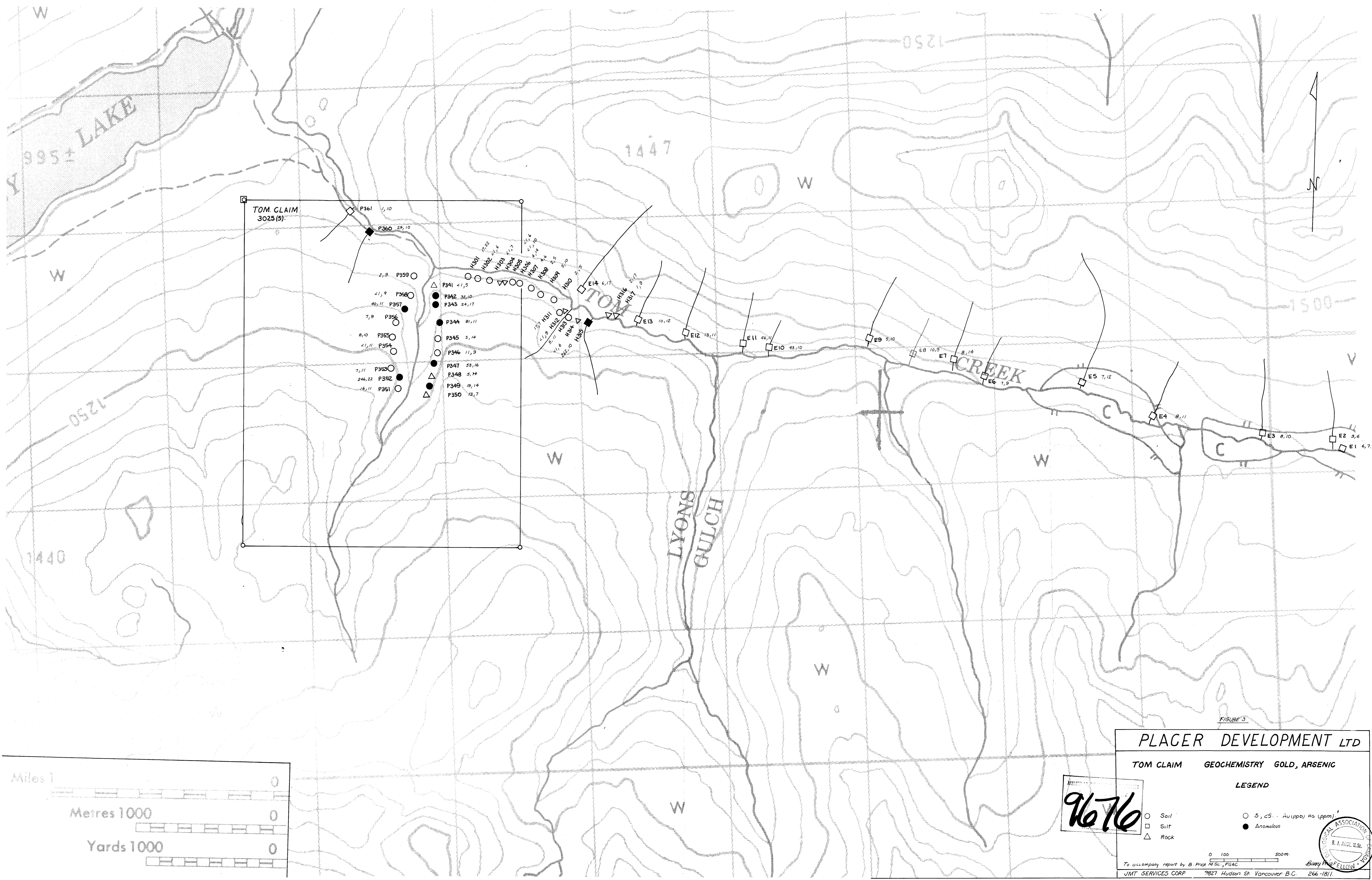


FIGURE 3

PLACER DEVELOPMENT LTD

TOM CLAIM GEOCHEMISTRY GOLD, ARSENIC

LEGEND

- Soil
- Silt
- △ Rock
- 5, 25, Au (ppm) As (ppm)
- Anomalous

0 100 500m

To accompany report by B. Price M.Sc., F.G.A.C.

JMT SERVICES CORP 7827 Hudson St. Vancouver B.C. 266-1811.

Barry McFellon

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