

GREAT WESTERN PETROLEUM CORPORATION

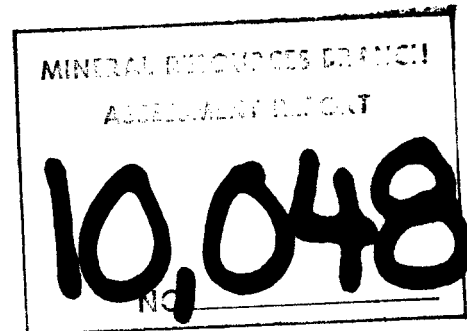
GEOLOGICAL AND GEOCHEMICAL REPORT

GWP 25, 26, 27, 28 and 40 CLAIMS

(GWP V GROUP)

OMINECA MINING DIVISION

BRITISH COLUMBIA



NTS: 94E/6E

57°21'N

127°07'W

OWNER: GREAT WESTERN PETROLEUM CORPORATION

AUTHOR: L.K. ECCLES *L. Eccles*

DATE: JANUARY 1982

LIST OF FIGURES

<u>FIGURE NO.</u>		<u>PAGE</u>
TJV-81-43	Location of GWP V Group of Claims	Foll. P.1
TJV-81-44	Location of GWP 25, 26, 27, 28 & 40 Claims	Foll. P.3
TJV-81-45	Soil and Rock Sample Location Maps	In Pocket
TJV-81-46	Au (ppb) Soil and Rock Geochemistry Results	In Pocket
TJV-81-47	Ag (ppm) " " " "	In Pocket
TJV-81-48	Cu (ppm) " " " "	In Pocket
TJV-81-49	Pb (ppm) " " " "	In Pocket
TJV-81-50	Zn (ppm) " " " "	In Pocket
TJV-81-51	Geology of GWP V Group	In Pocket

INTRODUCTION

The GWP 25-28 and 40 claims are located 2.5 km. due south of Kodah Lake, approximately 300 km. due north of Smithers, B.C. (Figure TJV-81-43).

Access to the property is usually by fixed wing aircraft from Smithers or Terrace to Sturdee Valley airstrip and by helicopter from there.

The area covers gently rolling topography that slopes north towards the Toodoggone River which marks the approximate northern boundary of the claims. A prominent hill is bisected by the north-south boundary of the GWP 28 claim and the Kodah 1 claim. This hill is underlain by altered rocks which appear to have the most potential identified on the claims to date.

Most of the area is covered by coniferous forest except along the flood plain of the Toodoggone River and in creek valleys where thick willow buckbrush predominates.

Work done on the claims in the 1981 field season consisted of geological mapping and geochemical grid sampling.

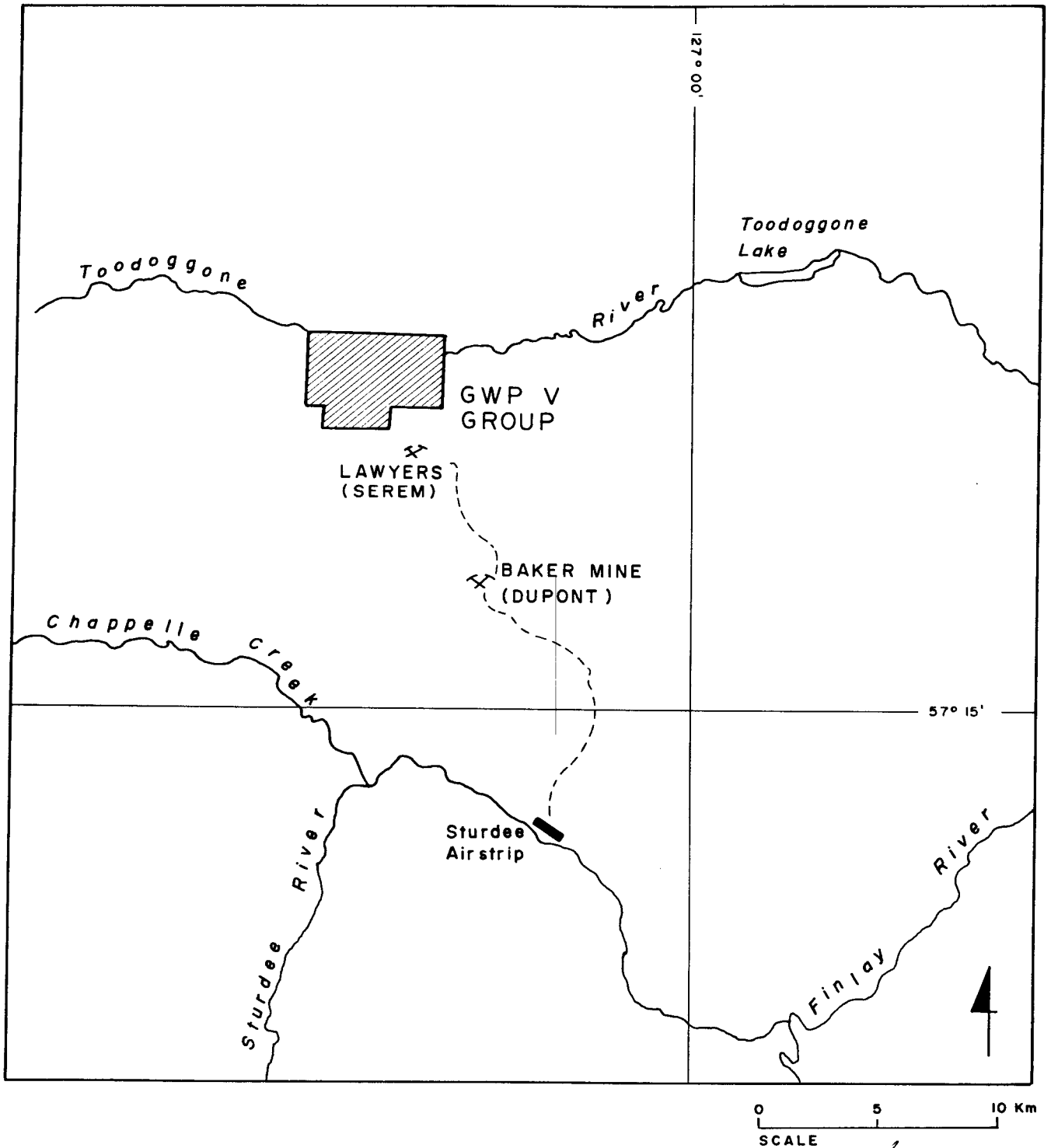


Figure TJV-81-43 LOCATION - GWP V GROUP OF CLAIMS

J. Beckis

PROPERTY DEFINITION

History

The area north of the Toodoggone River has a history of gold placer mining dating back to the 1920's. In the 1960's interest in porphyry copper and molybdenum deposits spurred companies to explore the widespread gossan zones found over much of the region.

In the early 1970's the area covered by the GWP V group was owned by Kennco Explorations (Western) Ltd. - (Assessment Report 3316 - Silt, Soil and Rock Geochemistry on the Kodah Claims - B.C. Ministry of Energy, Mines and Petroleum Resources).

Since that time the Kodah Group of claims was decreased in size to one claim called Kodah 1 which adjoins the GWP V group on the west. To the south, the GWP V claim group borders the New Lawyers claims which are currently undergoing surface and underground development to define the gold-silver potential of a quartz amethyst breccia zone.

The GWP 25-28 and 40 claims were staked in January 1981 and configuration of the claims is shown on Figure TJV-81-44.

List of Claims

<u>CLAIM NAME</u>	<u>RECORD NO.</u>	<u>UNITS</u>	<u>DATE RECORDED</u>
GWP 25	3512	18	January 12, 1981
GWP 26	3513	18	" " "
GWP 27	3514	18	" " "
GWP 28	3515	12	" " "
GWP 40	3519	8	" " "

Owner and Operator

The claims are currently owned and operated by Great Western Petroleum Corporation, under a joint venture agreement with E & B Mines Ltd.

Economic Assessment of the Property

The GWP V group is directly north of the New Lawyers property. An access road to that property from the Sturdee Valley airstrip terminates within 2 kilometres of the southern claim boundary of the GWP V group. The topography in the area is gently rolling and an extension of that road to anywhere within the bounds of the GWP V claims would not be difficult.

Clusters and isolated samples anomalous in gold and/or silver are scattered over the property. Silicified and pyritized rocks of the Middle Toodoggone unit were observed in outcrop in several locations.

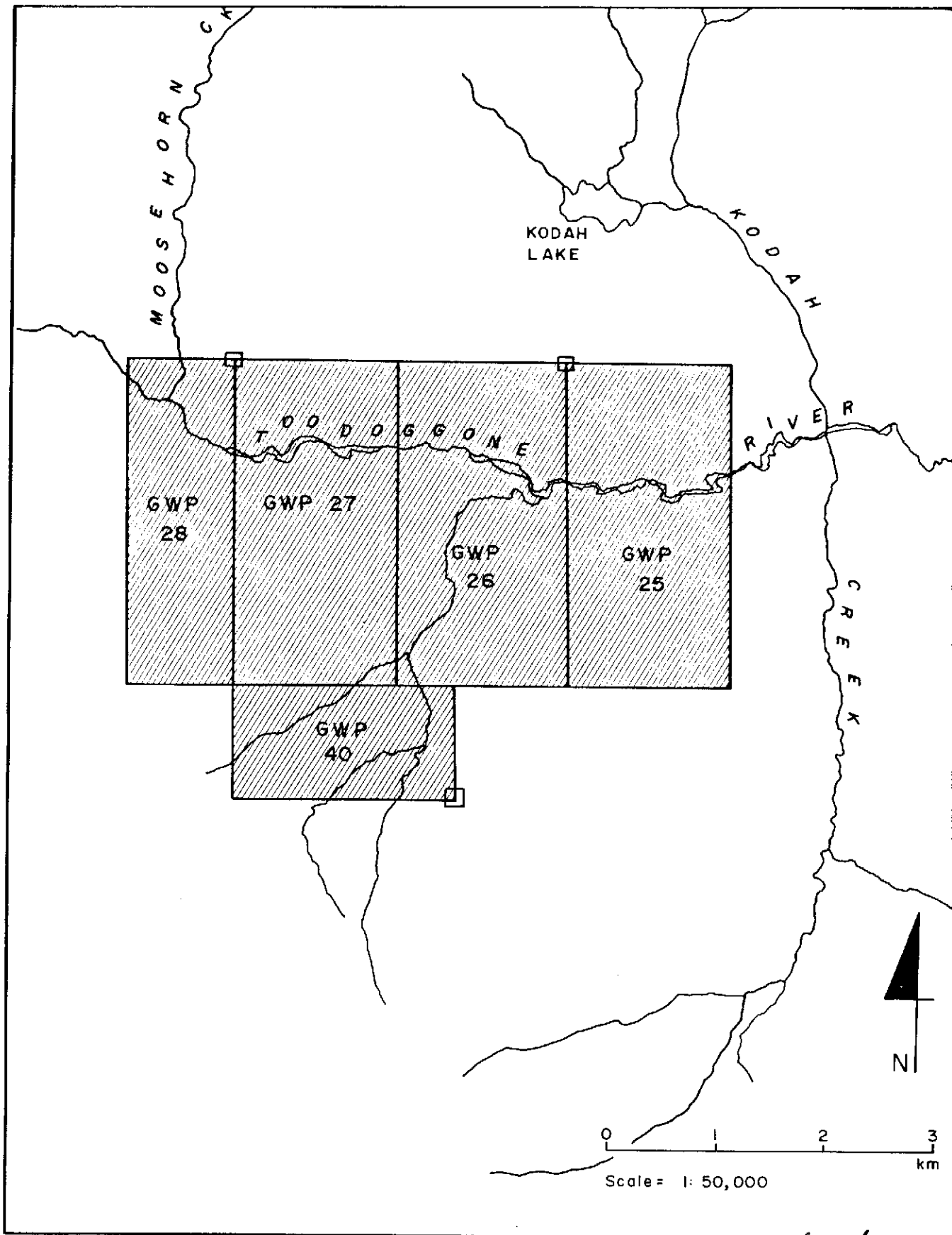


Figure. TJV-81-44 LOCATION OF GWP 25, 26, 27, 28, 40
 MINERAL CLAIMS
 (GWP V GROUP)

L. L. Lyles

This area has good potential for hosting a precious metal deposit associated with silicified breccia zones. The area is now readily accessible and would be relatively inexpensive to explore and develop.

GEOCHEMICAL SURVEY

Sample Collection and Preparation

For control, a 100 metre x 100 metre grid was surveyed over most of the GWP V group. The southernmost claim lines of GWP 40 and GWP 25-28 were used as base and tie lines for the grid. The legal corner post of GWP 40 marked the 0+00N/0+00W station on the base line. Where low relief and swampy ground was encountered, particularly on the GWP 25 and 26 claims, the grid dimensions were expanded to 100 metres x 200 metres.

All lines were run using hip chains, compasses and altimetres for control. Sample locations were plotted on a 1:10,000 scale topographic map.

About one third of the area was not sampled due to swampy terrain. Most other areas have moderately well developed soil horizons. Samples were collected from the "B" horizon, at a depth of 10 - 25 centimetres, where possible, using stone mason hammers and placed into gusseted, high strength, brown paper sample bags.

Silt samples were collected from creeks and dry gullies wherever encountered on grid lines. Rock samples were collected from outcrop areas and also from certain areas between the grid lines by the geologists during the course of mapping.

Samples were dried in an oven and sieved to -80 mesh before being shipped to Min-En Laboratories in North Vancouver.

Total area sampled was approximately 23 square kilometres. A total 903 soil, 33 silt and 39 rock samples were collected and geochemically analyzed for copper, lead, zinc, silver and gold. Sample locations are shown on Figure TJV-81-45 (in pocket).

Refer to Appendix 'A' for analytical procedures.

Interpretation

Values for gold, silver, lead, zinc and copper are plotted on Figures TJV-81-46 to 50, located in the pockets of this report.

Soil geochemistry indicated a group of samples, anomalous in silver located around the prominent hill on the GWP 28 claim which is underlain by highly silicified and pyritized volcanic rocks of the Middle Toodoggone unit.

Individual isolated samples, anomalous in gold or silver were found throughout the property but lack of outcrop in these areas makes interpretation difficult. Detailed 25m. x 25m. grids were run over many of these anomalous areas and in many cases extended the anomalies.

On the steeper sidehills particularly around the prominent hill on GWP 28, overburden is not thick and soil geochemistry is considered to be a valid method.

The following tabulation indicates background, weakly, moderately and highly anomalous values for the soil sample results obtained from the GWP 25-28 and 40 claims.

<u>ELEMENT</u>	<u>BACKGROUND</u>	<u>WEAKLY ANOMALOUS</u>	<u>MODERATELY ANOMALOUS</u>	<u>HIGHLY ANOMALOUS</u>
Au (ppb)	5	10-20	21-40	> 40
Ag (ppm)	0.8	1.6-3.2	3.3-6.4	> 6.4
Cu (ppm)	12	24-48	49-96	> 96
Pb (ppm)	19	38-76	77-152	> 152
Zn (ppm)	52	104-208	209-416	> 416

Geochemical values obtained for copper, lead and zinc are considered to be insignificant.

GEOLOGICAL FIELD WORK

Geological mapping was done in conjunction with the soil geochemistry. Topographic maps at a scale of 1:10,000 and the geochemical grid served as controls for the mapping. Geology was plotted at a scale of 1:10,000 and is shown on Figure TJV-81-51 in the back pocket of this report. Total area mapped was about 10 square kilometres.

Bedrock exposures on the claims are limited, restricted to creeks and the prominent hill on GWP 28 claim.

GENERAL GEOLOGY

The GWP 25-28 and 40 claims lie within the eastern margin of the Intermontaine Belt and are entirely underlain by volcanic and sedimentary rocks of the Toodoggone Assemblage of early Jurassic age.

A total of 5 rock types have been mapped, 3 of which are different phases of the Middle Toodoggone Unit.

DETAILED GEOLOGY

TOODOGGONE VOLCANIC ASSEMBLAGE

UPPER UNIT

Lavender Crystal Tuff - These rocks have a fine grained lavender groundmass with 2 mm. crystals and fragments of feldspar.

This unit breaks up into coarse blocky talus and locally forms steep cliffs between the Toodoggone River flood plain and the terraced benchland above. The rock is fresh and unaltered where found on the claims.

The lavender crystal tuff is interpreted as being part of the Upper-Volcanic sedimentary division of the Toodoggone Sequence due to its close association with sedimentary rocks. Because of its limited outcrop extent contact relationships are not seen.

Volcano-Sedimentary Rocks - A thick unit of volcano-sedimentary rocks outcrops in the creek canyon on the GWP 26 claim. The unit consists of well layered fine grained tuffs with interbedded mudstones and siltstones.

The gently dipping rocks are stained brown due to hematite weathering, otherwise they are unaltered.

Large exposures are seen in the creek canyon. The thickness of the unit as seen in extensive exposures in the creek canyon, is over 40 meters.

MIDDLE UNIT

The Middle Toodoggone Volcanic unit consists principally of Silicified Pyritic Volcanic rocks, Green Toodoggone Porphyry and Pink-Feldspar Porphyry. These rocks are closely related and represent different phases of the same parent magma.

Green Toodoggone Porphyry - This quartz-feldspar porphyry outcrops both in the creek canyon and on the prominent hill on the GWP 28 claim. The rock has an aphanitic, green groundmass with 5 mm. phenocrysts of pink to orange plagioclase. In most localities the unit is relatively unaltered except for limonite staining due to oxidation of finely disseminated pyrite.

An agglomerate containing pebble to cobble size fragments of this rock type outcrops in the canyon on the GWP 27 claim.

Pink Feldspar Porphyry - The pink feldspar porphyry was only seen in outcrop on the hill on GWP 28 claim. This rock is totally transitional with the rock phase mentioned above.

In both rocks many of the feldspar phenocrysts are hematized and may be mistaken for pink K-feldspar.

Silicified, Pyritic Volcanic Rocks - In several localities on the GWP 28 claim the Green Groundmass Toodoggone porphyry has been severely argillized and silicified so that remnant textures are obliterated. One area of intensely altered rocks on the prominent hill has weathered to a gossan visible for a considerable distance.

STRUCTURE AND MINERALIZATION

Bedding attitudes, only observed in the creek canyon on GWP 26, strike northwesterly and dip gently south. The rocks appear to be relatively undisturbed.

The prominent hill on the GWP 28 claim, underlain by Middle Unit Toodoggone Volcanic rocks, has anomalous silver values. It has not yet been determined whether the presence of the Middle Toodoggone Unit on the hill reflects a higher resistance to weathering than the younger sediments located lower in elevation in the creek canyon, and that the high silver geochemistry simply reflects high background silver

values for the Middle Unit rocks, or whether there is a structural break between the two areas, with the older rocks on the west moving up. Anomalous silver values may reflect increased concentrations of that element due to a structural break. Highly altered rocks of the Middle Toodoggone Unit in this area are weathered to a bright orange-red gossan, which is visible from a considerable distance. Hand specimens obtained from this altered area contained, in decreasing order of abundance, disseminated arsenopyrite, pyrite and galena.

CONCLUSIONS AND RECOMMENDATIONS

Well drained areas with moderate relief, particularly around the prominent hill on GWP 28, yielded consistent geochemical results. Detailed follow-up grids usually duplicated and extended silver anomalies in these areas.

The most interesting area, geologically and geochemically, was on and around the prominent hill on GWP 28. Other areas on the claims showed unmineralized rocks or individual isolated silver or gold anomalies that could not be extended or in some cases duplicated.

Copper, Lead, and Zinc geochemistry failed to indicate base metal mineralization.

A trenching program is recommended to explore silver geochemical anomalies on the prominent hill on GWP 28. The area is amenable to such a program as overburden cover is believed to be relatively thin.

COST STATEMENT - GWP 25, 26, 27, 28, 40 (GWP V GROUP)

Geochemical Surveys and Geological Mapping

1. WAGES

<u>NAME</u>	<u>PER DIEM RATE</u>	<u>SPECIFIC DATES</u>	<u>NO. DAYS</u>	<u>AMOUNT</u>
L. Eccles (geologist)	\$116.58	June 21	1	\$116.58
D. Forster (geologist)	\$ 93.73	June 19, 24, 28, 29	4	\$374.92
N. Cairn (geologist)	\$ 83.51	June 19, 24, 29 July 25, Aug. 7	5	\$417.55
R. Green (sampler)	\$ 52.85	June 24, 25, 28	3	\$158.55
K. Hudson (sampler)	\$ 52.85	June 24, 28-30, July 7, 11, 24, 29, 30	9	\$475.65
C. Leupold (sampler)	\$ 57.96	June 24, 25, 28, 30, July 7, 8, 11, 25, Aug. 2, 8.	10	\$579.60
R. Riedel (sampler)	\$ 57.96	June 24, 25, July 1	3	\$173.88
L. Tamaki (sampler)	\$ 63.06	June 24, 25, 28-30, July 1, 3, 7, 8, 27 Aug. 4.	11	\$693.66
L. Connolly (sampler)	\$ 73.28	June 24, 28	2	\$146.56
C. Carter (sampler)	\$ 52.85	June 30,	1	\$ 52.85
I. Hribar (cook)	\$66.38	(Proportioned amongst other claims: 15.36% x 61)	9.37	\$621.95
C. Carter (Lab Tech.)	\$52.85	(Proportioned amongst other claims: 15.36% x 38)	5.84	\$308.47

Proportion of General Camp Days Allocated to this Group: 15.36% x 256 days @ \$67.36/day	39.32	\$2648.77
TOTAL =	103.53	\$6768.99

2. TRANSPORTATION

A. Mobilization

Charter aircraft Smithers-Sturdee Strip
(total \$6970.60 - Kelowna Flightcraft
Aircharter, Invoice No. 4723B and
Transprovincial Airlines, Invoice No.
67308, split between properties): \$1070.68

B. Demobilization

Charter aircraft Sturdee Strip - Smithers
(part of Aviair Aviation Invoice No. 6450) 114.28

Air Fares (5 crew, Smithers-Vancouver
@ \$510.25 - proportioned): 78.37

\$192.65

C. Helicopter Support

Viking Helicopters - Total 95.25 hours split
between properties = 14.63 hrs. @ \$428.00/hr.
including fuel:

June 19, 24, 25, 28-30, July 1, 3, 7, 8, 11, \$6261.81
24, 27, 29, 30, Aug. 2, 4, 7, 8

ALC Airlift Corporation - Total 12.18 hrs.
split between properties + 1.87 @ \$415/hr.
including fuel: Between July 30-Aug. 1: \$776.05

3. CAMP COSTS

A. Room and Board

103.53 man days @ \$50.00/day (including all
or parts of June 19, 24, 25, 28-30,
July 1, 3, 7, 8, 11, 24, 27, 29, 30,
Aug. 2, 4, 7, 8): \$5176.50

3. B. Expediting

(Split between properties)

Total \$1411.13 - Bema Industries Invoice Nos.

0990 - July 15/81

0934 - June 30/81

0852 - June 15/81

0805 - May 31/81

\$216.75

4. GEOCHEMICAL ANALYSIS

903 soil samples and 33 silt samples analyzed for
Cu, Pb, Zn, Ag and Au @ \$10.55 per sample
(Min-En Labs. Invoices):

\$9874.80

39 rock samples analyzed for Cu, Pb, Zn, Ag
and Au @ \$11.95 per sample (Min-En Labs Invoices)

466.05

Sample shipment costs and supplies (Min-En
Invoices) - Total \$1431.45 proportioned between
properties:

219.87

\$10560.72

5. REPORT PREPARATION

Writing and Drafting
Airphoto Mosaics and Maps - Burnett Resources
Surveys Ltd. - total \$4242.11 (proportioned)

\$400.00

651.59

\$1051.59

SUMMARY OF COSTS

1. Wages		\$6768.99
2. Transportation	A. Mobilization	1070.68
	B. Demobilization	192.65
	C. Helicopter Support	7037.86
3. Camp Costs	A. Room and Board	5176.50
	B. Expediting	216.75
4. Geochemical Analysis		10,560.72
5. Report Preparation		<u>1,051.59</u>

TOTAL = \$32,075.74

APPENDIX "A"

Analytical Procedures

APPENDIX 'A'

ANALYTICAL PROCEDURES

Samples are processed by Min-En Laboratories Ltd. in North Vancouver employing the following procedures:

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for six hours with HNO_3 and HClO_4 mixture.

After cooling samples are diluted to standard volume. The solutions are analyzed by Atomic Absorption Spectrophotometers.

Copper, Lead, Zinc and Silver are analyzed using the CH_2H_2 - Air flame combination on these sample solutions.

For gold geochemical samples, a suitable weight 5.0 or 10.0 grams are pretreated with HNO_3 and HClO_4 mixture.

After pretreatments the samples are digested with Agua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

At this stage of the procedure copper, silver and zinc can be analyzed from suitable aliquot, by Atomic Absorption Spectrophotometric procedure.

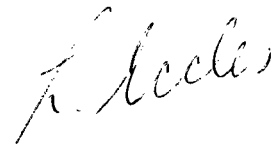
Further oxidation and treatment of a least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solutions, gold is analyzed by Atomic Absorption instruments. The obtained detection limit is 5 ppb.

QUALIFICATIONS

I, LOUISE K. ECCLES, do hereby certify that:

1. I am a geologist residing at 782 West 22nd Avenue, Vancouver, British Columbia and am employed by Great Western Petroleum Corporation.
2. I am a graduate of the University of British Columbia with a B.Sc. (Honors) degree in geology.
3. I have practised my profession in geology continuously for the past five years in British Columbia, Ontario, Yukon and Northwest Territories.
4. In July and August 1982 a field program of soil geochemistry, mapping and prospecting was carried out on the GWP V group of claims on behalf of Great Western Petroleum Corporation.

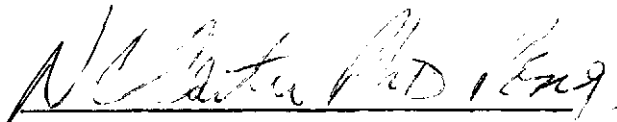


L.K. Eccles

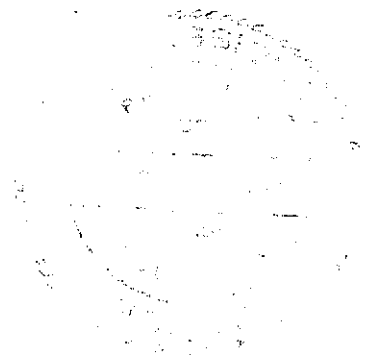
ATTESTATION

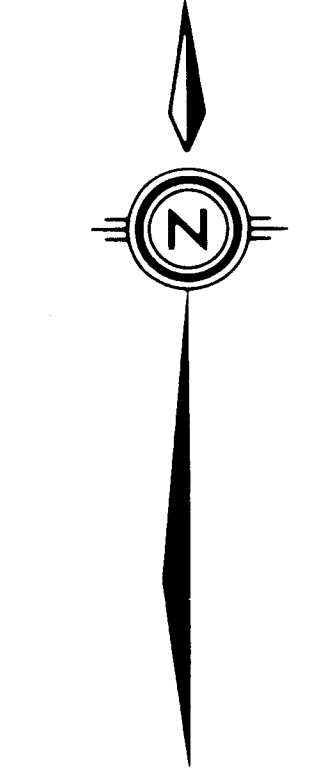
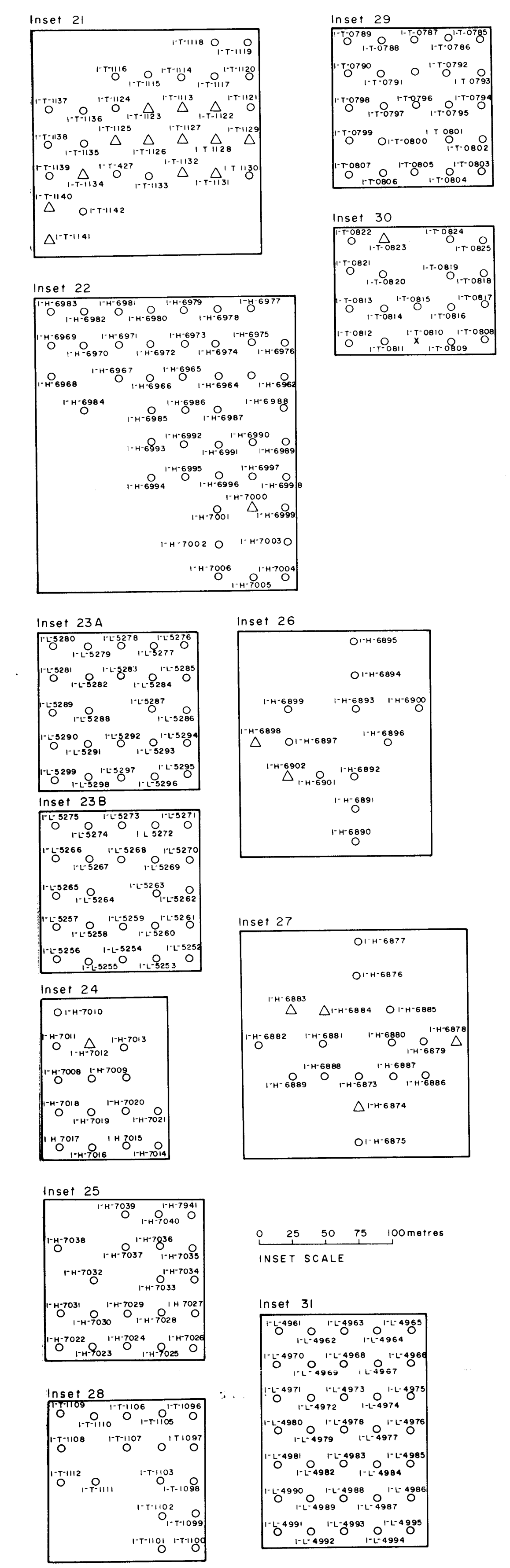
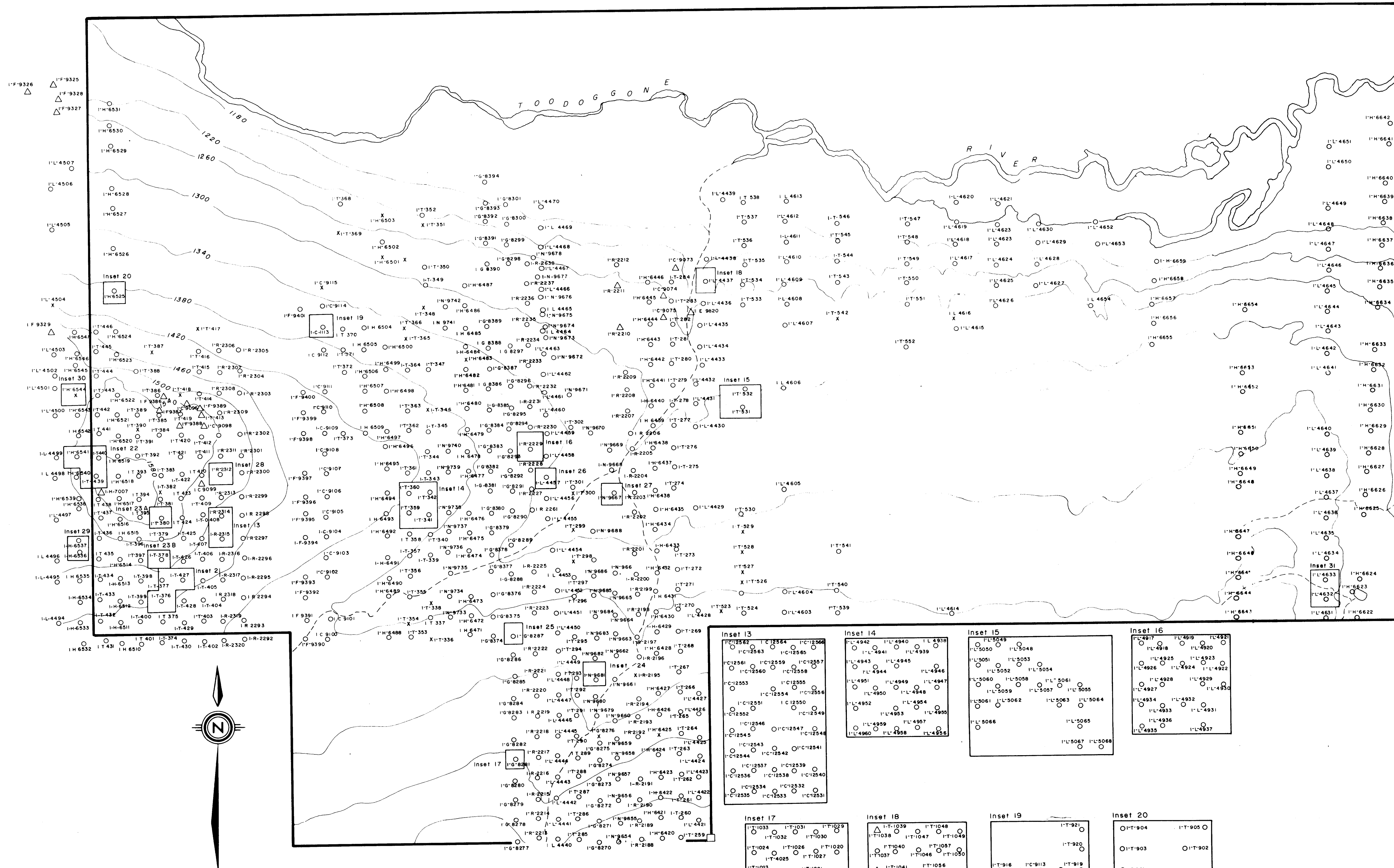
I, Nicholas C. Carter of Victoria, British Columbia,
do hereby certify that:

1. I am a practising geologist, registered with the Association of Professional Engineers of British Columbia since 1966.
2. I am a graduate of the University of New Brunswick with B.Sc. (1960); Michigan Technological University with M.S. (1962) and the University of British Columbia with Ph.D. (1974).
3. I have practised my profession in British Columbia and Eastern Canada and the Western United States for the past 21 years.
4. I personally oversaw the geological and geochemical program carried out on the GWP V Group of Claims and will attest to the authenticity of data contained in this report.



N.C. Carter
Ph.D., P.Eng.





MINERAL RESOURCES BRANCH
 ACCESSION REPORT
10,048

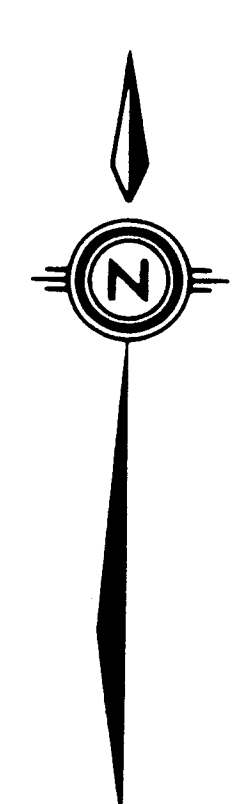
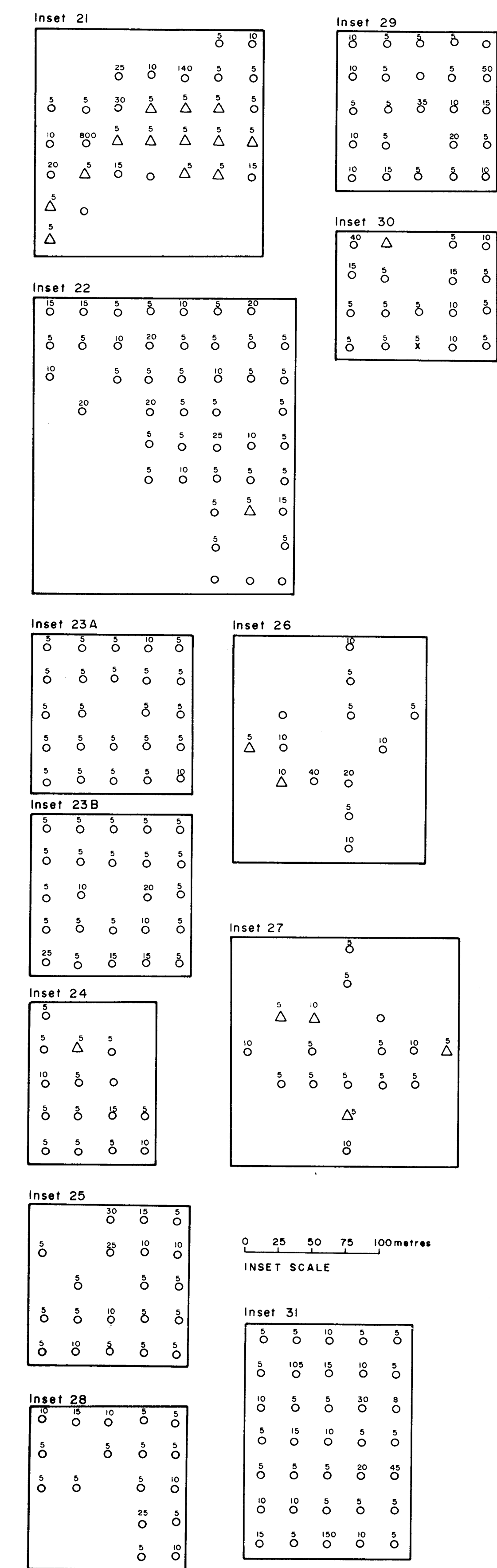
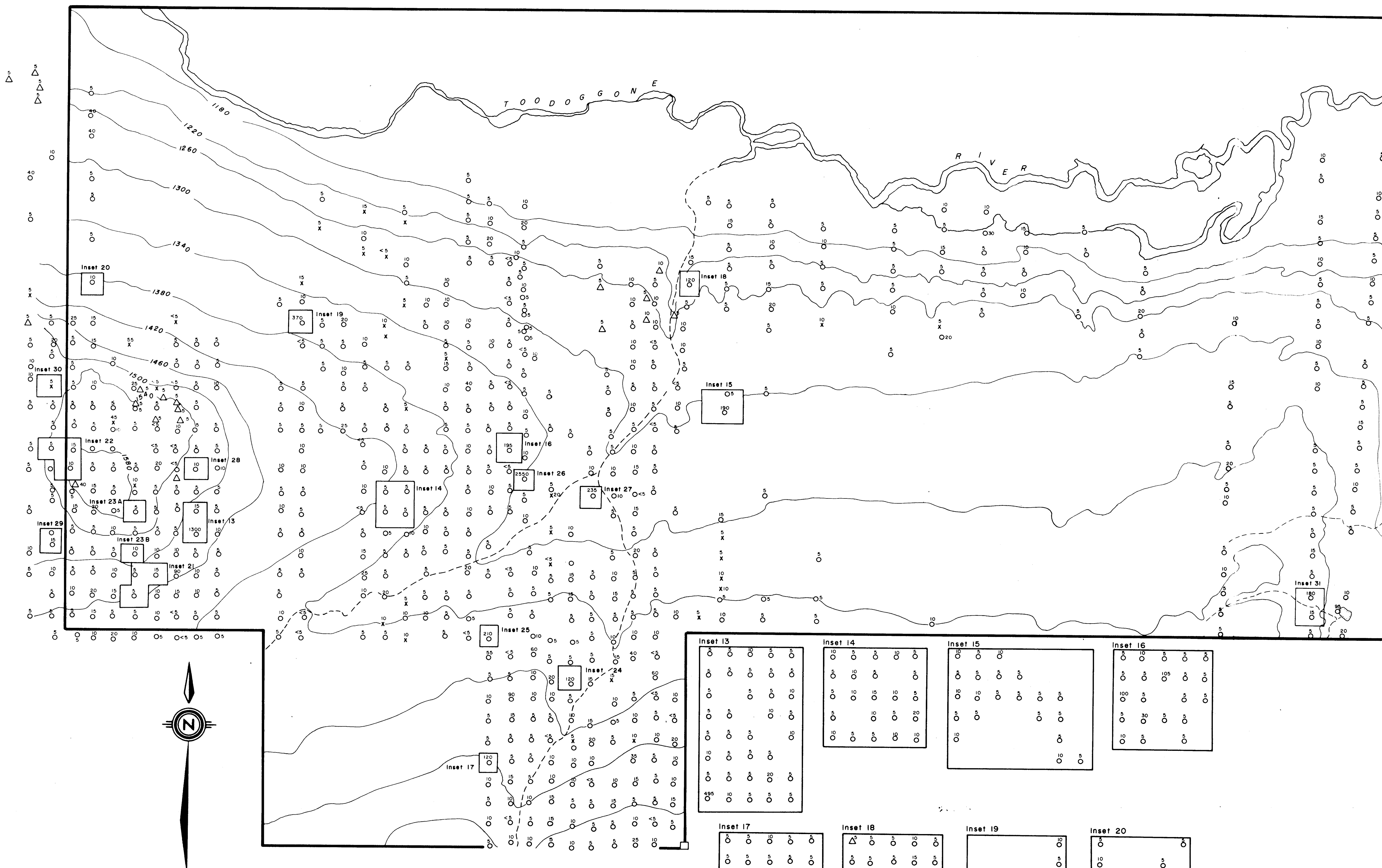
GREAT WESTERN PETROLEUM CORPORATION

TOODOGGONE JOINT VENTURE
 SAMPLE LOCATION - GROUP V

METRES 0 200 400 600 800 1000 METRES
 FEET 0 200 400 600 800 1000 FEET

MAPPED BY: D.F., N.C.	SCALE: 1:10,000	DRAWING NUMBER
DRAWN BY: D.L.Y.	DATE: DEC. 1981	Fig. TJV-81-45
REVISED: <i>L. Kelly</i>	N.T.S. 94E 6E	

- LEGEND**
- SOIL SAMPLE
 - x SILT SAMPLE
 - △ ROCK SAMPLE
 - CREEK
 - LEGAL CORNER POST
 - CLAIM GROUP BOUNDARY



MILITARY RESOURCES BRANCH
ASSESSMENT REPORT
10,048
NO

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INSET SCALE

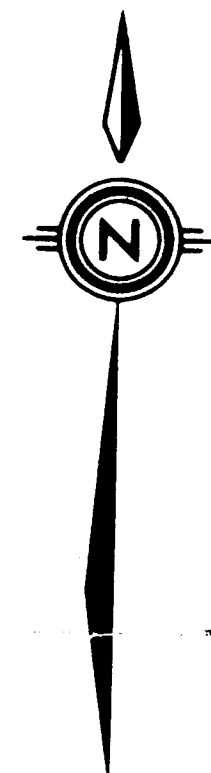
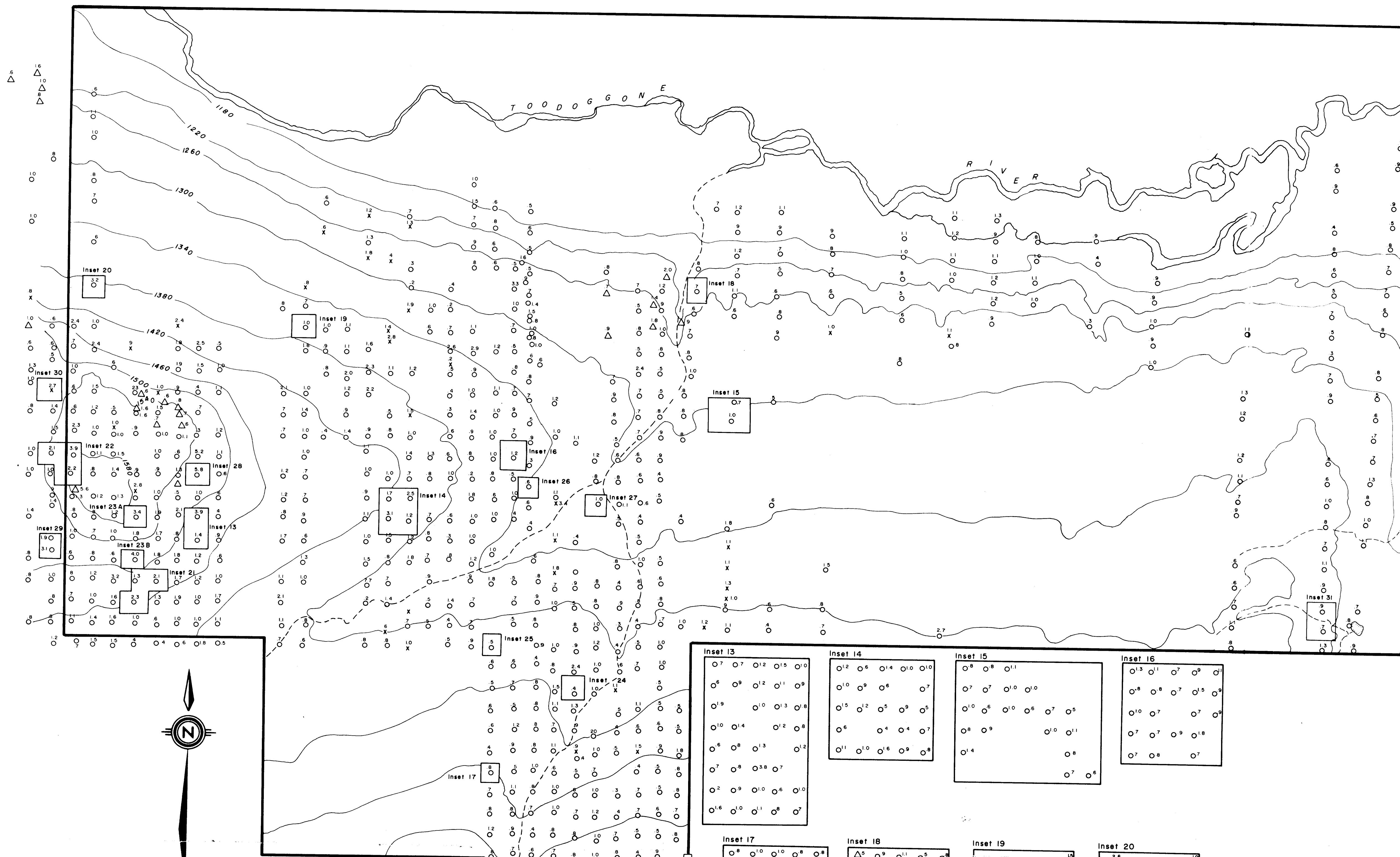
GREAT WESTERN PETROLEUM CORPORATION

TOODOGGONE JOINT VENTURE
GOLD GEOCHEMISTRY - GROUP V

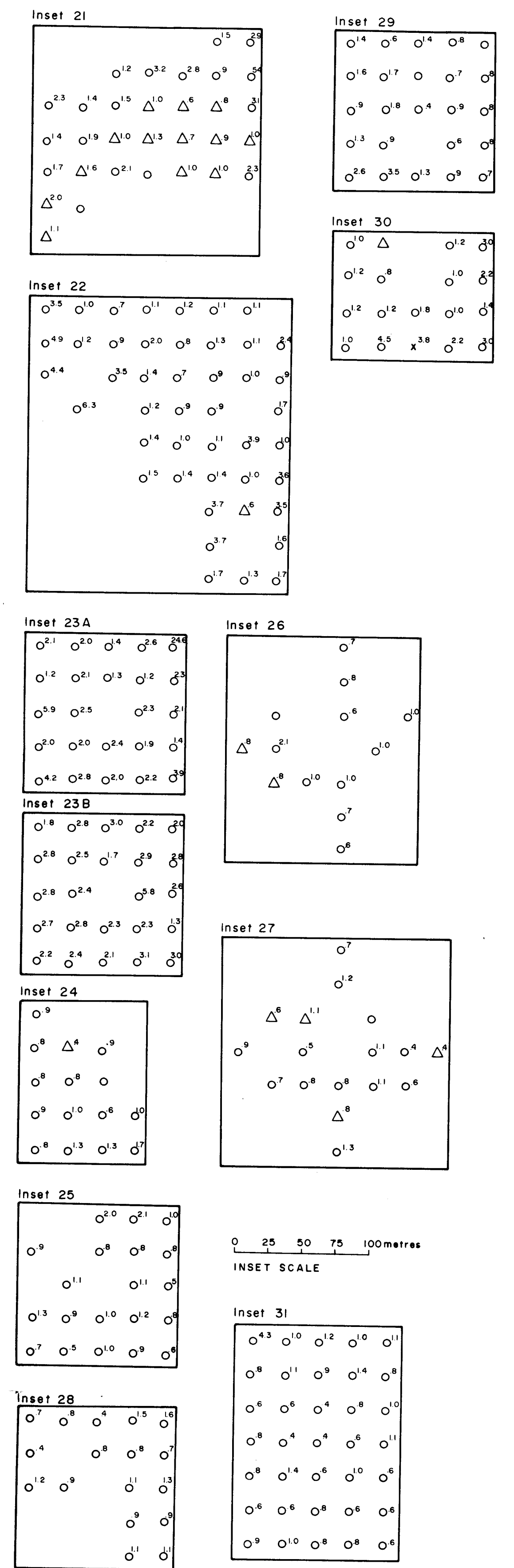
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DRAWN BY: D.L.Y. DATE: DEC. 1981 Fig. TJV-81-46
REVISED: *A. Huckle* N.T.S. 94E 6E

- LEGEND**
- SOIL SAMPLE (ppb)
 - x SILT SAMPLE (ppb)
 - Δ ROCK SAMPLE (ppb)
 - CREEK
 - LEGAL CORNER POST
 - CLAIM GROUP BOUNDARY



MINERAL RIGHTS BRANCH
 ACCOUNT NO. 217
10048
 NO.



0 25 50 75 100metres
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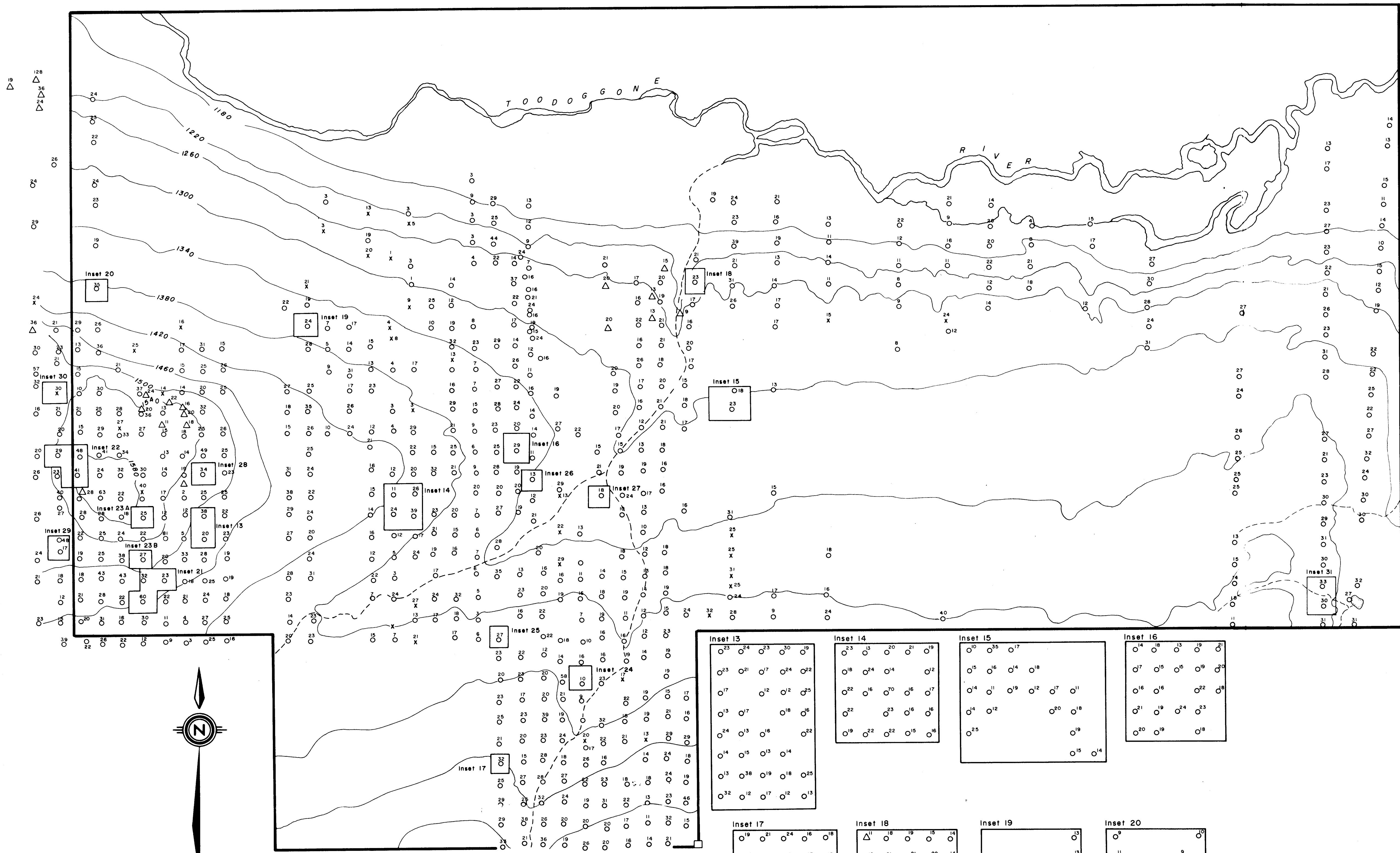
GWP GREAT WESTERN PETROLEUM CORPORATION

TOODOGGONE JOINT VENTURE
 SILVER GEOCHEMISTRY - GROUP V

METRES 0 200 400 600 800 1000 METRES
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MAPPED BY: D.F.N.C.	SCALE: 1:10,000	DRAWING NUMBER
DRAWN BY: D.L.Y.	DATE: DEC. 1981	Fig. TJV-81-47
REVISED: <i>L. Lucas</i>	N.T.S. 94E 6E	

- LEGEND**
- SOIL SAMPLE (ppm)
 - × SILT SAMPLE (ppm)
 - △ ROCK SAMPLE (ppm)
 - CREEK
 - LEGAL CORNER POST
 - CLAIM GROUP BOUNDARY



METROPOLITAN EDWARDS GEO BRANCH
ASSESSMENT REPORT
10,048

GWP GREAT WESTERN PETROLEUM CORPORATION

TOODOGGONE JOINT VENTURE
LEAD GEOCHEMISTRY - GROUP V

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FEET 0 200 400 600 800 1000 FEET

MAPPED BY: D.F.N.C.	SCALE: 1:10,000	DRAWING NUMBER
DRAWN BY: D.L.Y.	DATE: DEC. 1981	Fig. TJV-81-49
REVISED: <i>[Signature]</i>	N.T.S. 94E 6E	

- LEGEND**
- SOIL SAMPLE (ppm)
 - x SILT SAMPLE (ppm)
 - △ ROCK SAMPLE (ppm)
 - - - CREEK
 - LEGAL CORNER POST
 - CLAIM GROUP BOUNDARY

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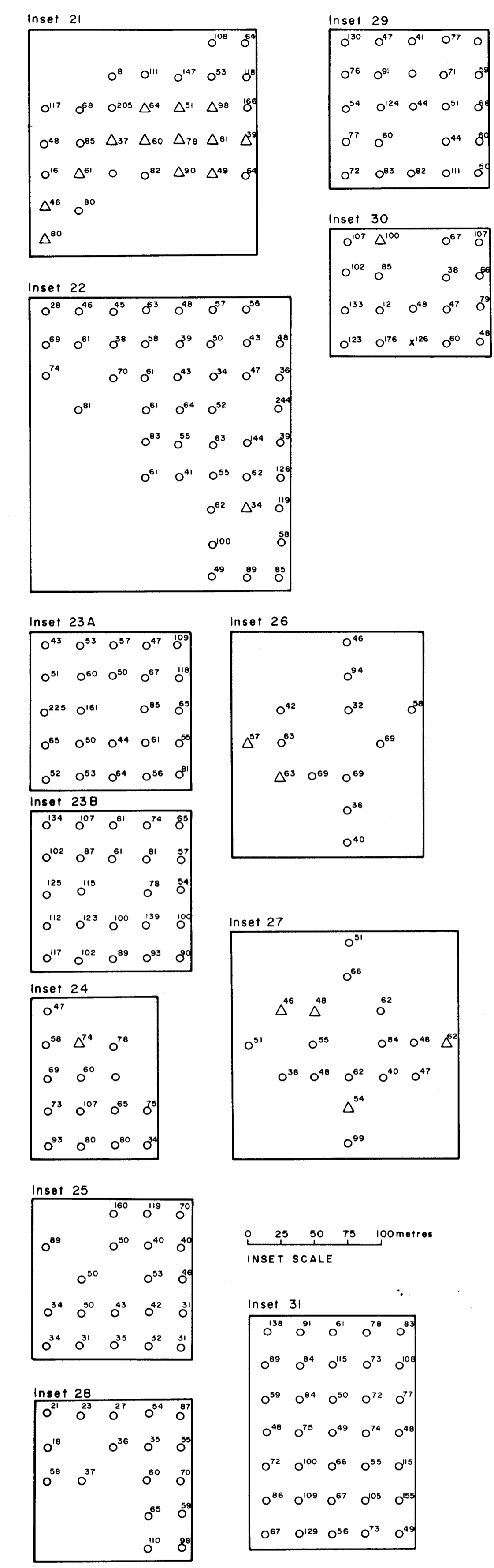
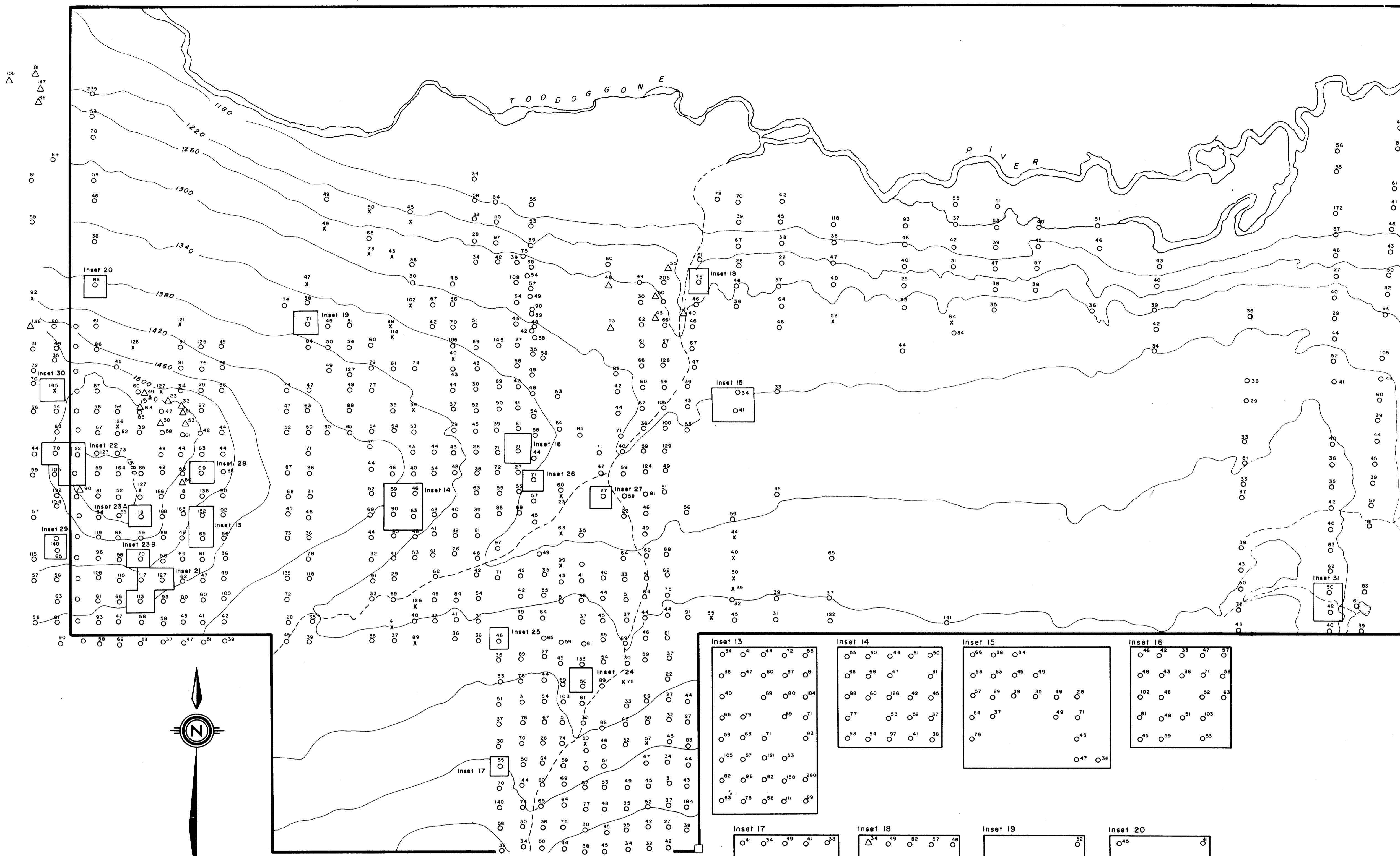
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INSET SCALE



MINERAL DEVELOPMENT BRANCH
 PRELIMINARY REPORT
10,048

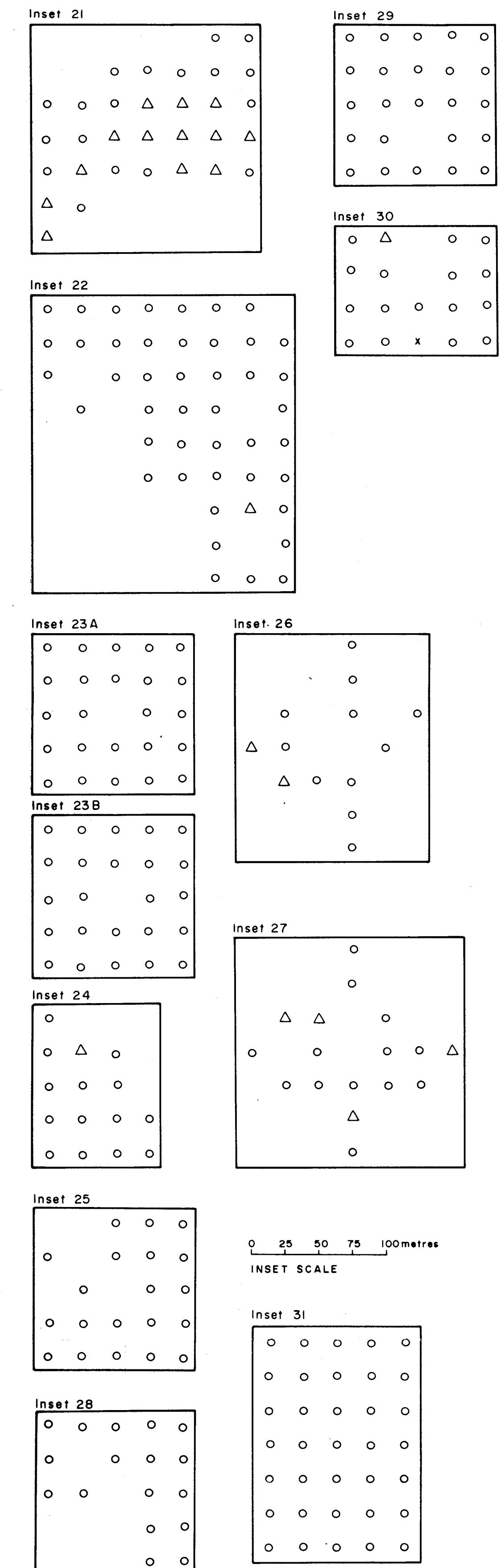
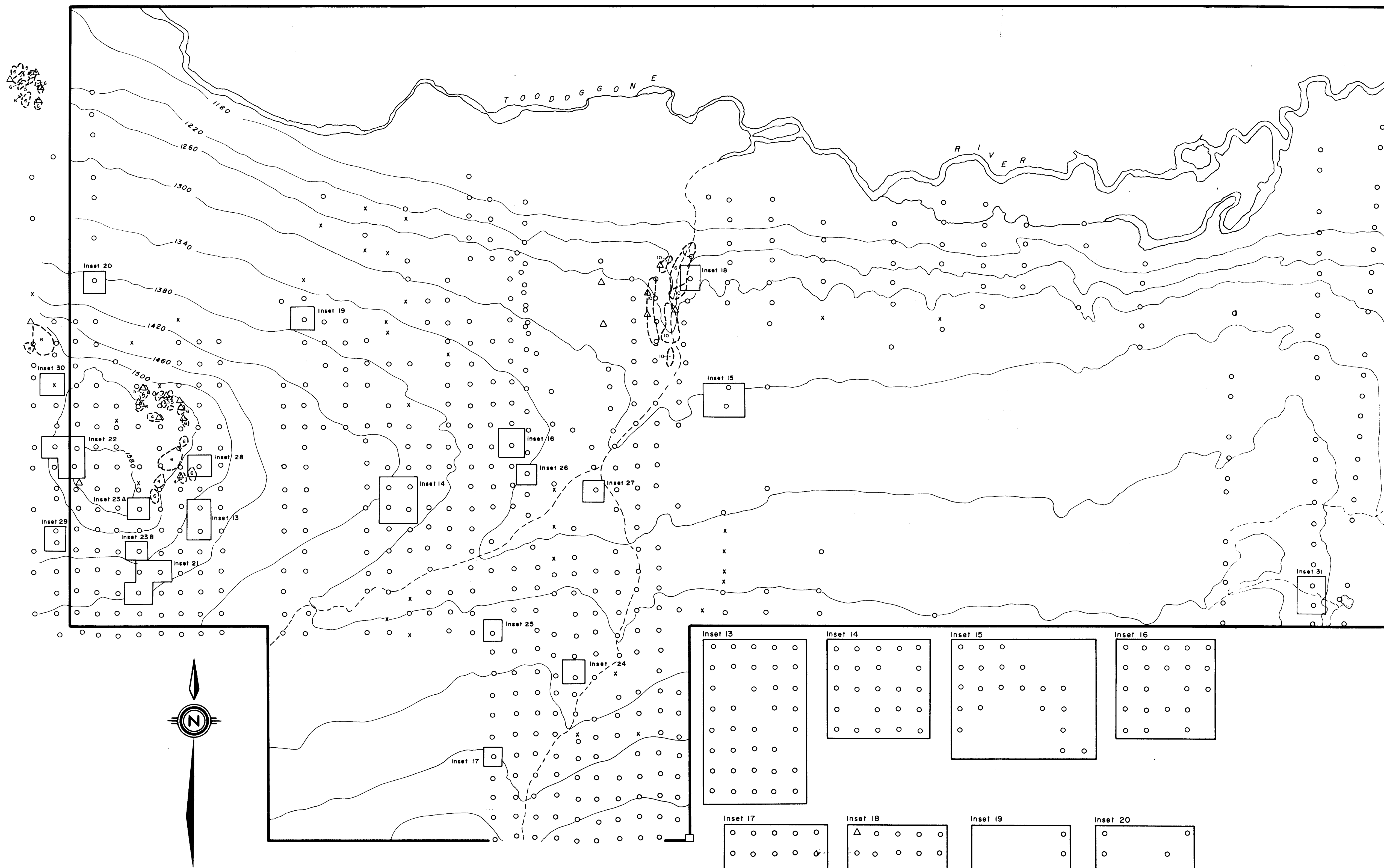
GREAT WESTERN PETROLEUM CORPORATION

TOODOGGONE JOINT VENTURE
 ZINC GEOCHEMISTRY - GROUP V

METRES 0 200 400 600 800 1000 METRES
 FEET 0 200 400 600 800 1000 FEET

MAPPED BY: D.F. N.C.	SCALE: 1:10,000	DRAWING NUMBER
DRAWN BY: D.L.Y.	DATE: DEC. 1981	Fig. TJV-81-50
REVISED: <i>L. L. L.</i>	N.T.S. 94E 6E	

- LEGEND**
- SOIL SAMPLE (ppm)
 - × SILT SAMPLE (ppm)
 - △ ROCK SAMPLE (ppm)
 - CREEK
 - LEGAL CORNER POST
 - CLAIM GROUP BOUNDARY



MEMPHIS BRANCH
 10048

GREAT WESTERN PETROLEUM CORPORATION

TOODOGGONE JOINT VENTURE
 GEOLOGY - GROUP V

METRES 0 200 400 600 800 1000 METRES
 FEET 0 200 400 600 800 1000 FEET

MAPPED BY: D.F. N.C.	SCALE: 1:10,000	DRAWING NUMBER
DRAWN BY: D.L.Y.	DATE: DEC. 1981	Fig. TJV-81-51
REVISED: <i>A. Hester</i>	N.T.S. 94E 6E	

- LEGEND**
- SOIL SAMPLE
 - x SILT SAMPLE
 - △ ROCK SAMPLE
 - CREEK
 - LEGAL CORNER POST
 - CLAIM GROUP BOUNDARY
- GEOLOGY - Group V**
- ⑩ VOLCANO - SEDS
 - ⑪ SILICIFIED TOODOGGONE
 - ⑫ GREEN GROUNDMASS TOODOGGONE PORPHYRY
 - ⑬ PINK-ORANGE - FELDSPAR PORPHYRY
 - ⑭ LAVENDER CRYSTAL TUFF