GREAT WESTERN PETROLEUM CORPORATION GEOCHEMICAL REPORT GWP 1-10 CLAIMS (GWP I GROUP - SUPPLEMENTARY) OMINECA MINING DIVISION BRITISH COLUMBIA

NTS: 94E/6E, 7W

LOCATION: 57⁰20'N, 127⁰00'W

OWNER: GREAT WESTERN PETROLEUM CORPORATION

AUTHOR: L.K. ECCLES L. Licele,

DATE: JANUARY 1982

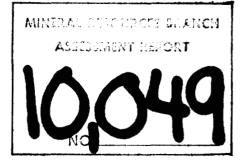


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INTRODUCTION

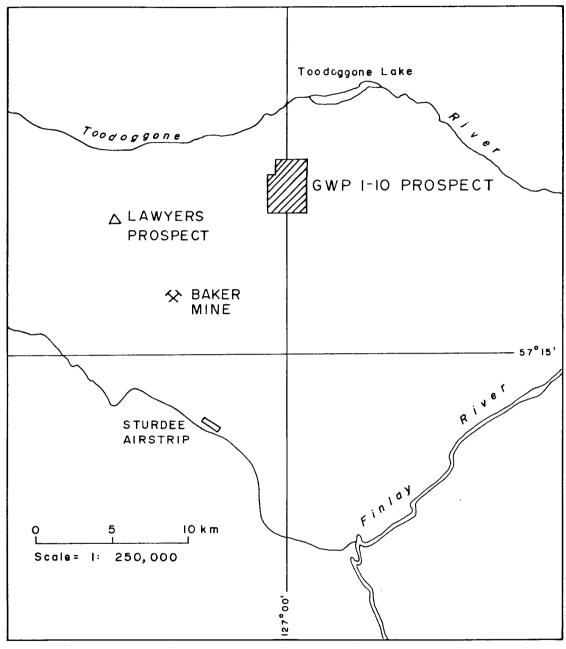
The GWP 1-10 claims are located 6 km. southwest of Toodoggone Lake, approximately 300 km. due north of Smithers, B.C. (Figure T-81-1).

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 is mountainous with elevations ranging between 1500 metres and 2100 metres. Steep slopes and cliffs occur in cirque headwalls and active talus and felsenmeer prevents vegetation from growing on some hillsides.

Spruce trees and willow buckbrush grow on the lower, more gentle slopes below 1100 metres. Alpine vegetation consists of moss and grasses.

Work done on the claims in July and August 1981 consisted of detailed follow-up grids over anomalies located earlier in June of that year which are recorded in another assessment report entitled "Geology and Geochemistry of the GWP 1-9 Mineral Claims".



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Figure T-BI-I LOCATION OF GWP I-10 PROSPECT (revised)

PROPERTY DEFINITION

History

The area north of 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 that exist over much of the region.

Cordilleran Engineering Limited undertook a geological and geochemical survey for Quebec Cartier Mining Company in 1969 on the Spartan Claims which covered much of the area concerned with in this report. These claims were staked on a copper geochemical anomaly in a creek draining the claims' area. Remnants of the old camp and trenches can be seen in the vicinity of a copper showing on the property and evidence of diamond drilling exists near the showing. Interest was in the copper mineralization at that time and results proved to be insignificant and the claims were dropped at a later date.

In July 1980 the GWP 1-9 claims were staked to cover the gossan and copper showing on the previous Spartan claims to determine the precious metal potential. The GWP 10 claim was staked to cover open ground between GWP 1 and a neighbouring claim block owned by another mining company. List of Claims

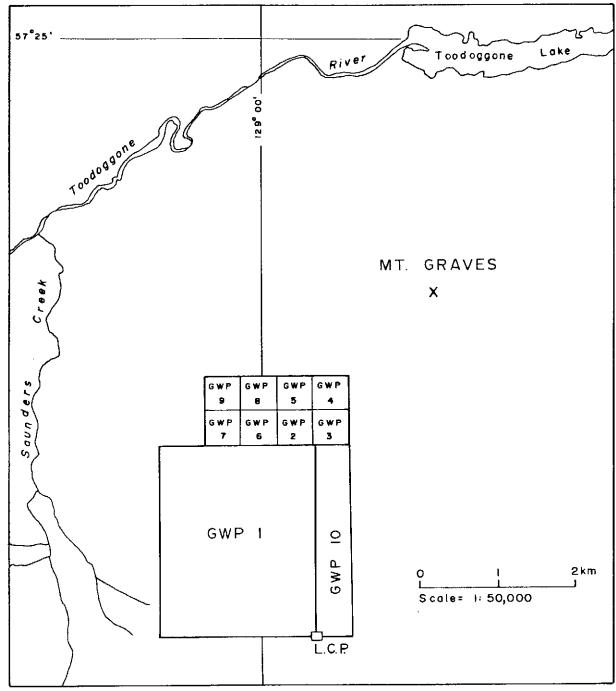
CLAIM NAME	RECORD NO.	UNITS	DATE RECORDED
GWP 1	2870	20	July 8, 1980
GWP 2	2871	1 (2 post)	11 B3 E3
GWP 3	2872	1 " "	11 II II
GWP 4	2873	н н н	H H 11
GWP 5	2874	F7 17 61	H 13 H
GWP 6	2875)(£) FF	41 11 11
GWP 7	2876	83 81 81	63 65 JI
GWP 8	2877	11 11 19	64 41 41
GWP 9	2878	н н и	15 91 81
GWP 10	3949	5	July 23, 1981

Owner and Operator

The claims are currently owned and operated by Great Western Petroleum Corporation.

Economic Assessment of the Property

An extensive gossan developed in silicified and clay altered Toodoggone volcanic rocks shows some anomalous base and precious metal values in soils and rocks that could possibly be reflecting an upper level of zoning above a precious metal deposit associated with the volcanic rocks.



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Figure T-81-2 LOCATION OF GWP I-10 MINERAL CLAIMS (revised) (GWP | GROUP)

GEOCHEMICAL SAMPLE COLLECTION AND PREPARATION

Areas of high geochemical anomalies obtained by sampling a 100 metre by 100 metre grid over the GWP 1-9 claims in June, 1981, were sampled by soil or rock chips using 25 metre by 25 metre sample spacings.

If original geochemical samples collected in June had values of over 100 ppb for gold, 2.0 ppm for silver, 100 ppm for lead and 100 ppm for zinc, then detailed grids of various dimensions were located over the original sample site(s). Usually, a 100 metre by 100 metre area was sampled over each anomalous individual sample.

Wherever possible, rock chip sampling was undertaken, and was accomplished using a 10 metre sampling diameter around stations 25 metres apart on the detailed grid. Ten to fourteen rock chips were collected from various outcrops or felsenmeer within this area and placed into gussetted, high strength, kraft paper sample bags.

Soil samples were collected where no outcrop or felsenmeer existed. The soil was collected from the 'B' horizon using stone mason hammers from a depth of 5 centimetres to 20 centimetres and placed into the same kraft sample bags used for rock chip samples.

All soil samples were dried in a drying oven before being seived to minus 80 mesh and sent to Min-En Laboratories in North Vancouver for analysis. Rock chip samples were crushed before being sent to the lab. Detailed grids were plotted at a scale of 1:2500 and can be seen in plates 1 through 16, on Drawings T-81-11 to 16 in the back pocket. The location of the individual detailed grids with respect to the original 100 metre by 100 metre soil grid surveyed over the property in June 1981 can be seen on Drawing T-81-10 in the back pocket.

The area covered by the GWP 10 claim was partially sampled using 100 metre or 50 metre sample spacings along the eastern claim boundary of that claim. Lines, spaced 200 metres apart and sampled every 100 metres towards the west were run in the southern half of the claim.

The GWP 10 claim area is steep and has poorly developed soil horizons, however, where possible samples were collected from the 'B' horizon.

All grid lines surveyed during follow-up work on the GWP I group were run using hip chains, compasses, and a 1:10,000 scale topographic map for control.

A total of 201 soil, 4 silt, 178 rock samples were collected and geochemically analyzed for gold, silver, lead, zinc and copper.

Refer to Appendix 'A' for analytical procedures.

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<u>Interpretation</u>

From previous calculations the following table lists the background, weakly, moderately and highly anomalous values for soil sample results obtained from the GWP 1-9 claims. Note, these values are for soil samples only.

Element	Background	Weakly Anomalous	Moderately Anomalous	Highly Anomalous
Au (ppb)	10	20-40	41-80	> 8C
Ag (ppm)	1.0	2.0-4.0	4.1-8.0	78.0
Mo (ppm)	2	4-8	9-16	> 16
Cu (ppm)	20	40-80	81-160	>160
Pb (ppm)	31	62-124	125-250	> 250
Zn (ppm)	7 0	140-280	281-560	> 560

Generally speaking the detailed grids that cover the original anomalous gold or silver values which overlie granitic rocks of the Omineca Intrusions, unaltered Pink Feldspar Porphyritic rocks, or unaltered Upper Unit Toodoggone Crystal Tuffs, failed to duplicate or extend the original anomalies. Usually these areas showed only background values on the detailed grids. A possible explanation for this problem lies in the fact that in some cases the detailed grid areas lie downhill and/or in close proximity to the consistently anomalous Silicified, Pyritic Toodoggone Volcanic rocks of the Middle Unit and downhill migration of heavy mineral particles, namely gold and silver, is highly probable resulting in dispersion of the particles and so causing sporadic results. Another explanation lies in the fact that at least one detailed grid (see plate 15) covers a very small zone in the Upper Toodoggone volcanic rocks that has been fractured and cuprite has filled the open spaces in the rock. Rock geochemistry reflected this zone with anomalous gold, silver, copper, lead and zinc values, however, samples collected away from the mineralized area failed to indicate any signs of mineralization. Single anomalous values that haven't been duplicated by the detailed sampling may originally have been sampled from such a zone without the sampler recognizing the situation and follow-up sampling may have missed the small mineralized locality. The nature of these areas shows little or no dispersion of the gold or silver, however, zinc values are often seen to be above background population.

Detailed follow-up grids that showed consistent results with the original sampling and which often extended anomalous zones to cover broader areas were always found to be surveyed over silicified, pyritized, highly limonite stained rocks of the Middle Unit Toodoggone Volcanic Assemblage. These areas showed up as bright orange/brown gossans and are easy to distinguish from rocks of the Upper Unit of the Toodoggone Volcanic Assemblage and the Omineca Intrusives, considered to be unmineralized.

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CONCLUSIONS AND RECOMMENDATIONS

 Only those detailed grids that covered areas underlain by highly limonite stained, silicified, pyritic rocks of the Middle Unit Toodoggone Volcanic Assemblage duplicated and extended zones defined by the original gold and silver anomalies found during the June, 1981 sampling program.

2. Areas underlain by Omineca Intrusive rocks or, Upper Unit Toodoggone Crystal Tuffs or Pink-Feldspar Porphyritic Units usually did not show duplications or extensions of the anomalous gold and silver zones defined by soil and rock sampling in June.

3. The most important area, defined by anomalous geochemical gold and silver values shows up as a bright orange-brown gossan. The anomalous area measures about 500 metres long by 300 metres wide (see plates 9 and 10). Further work in the form of trenching and drilling in this area is recommended.

COST STATEMENT - GWP 1-10 (GWP 1 GROUF - SUPPLEMENTAL)

Geochemical Surveys and Geological Mapping

1. WAGES

NAME	PER DIEM RATE	SPECIFIC DATES	NO. DAYS	AMOUNT
L. Eccles (geologist)	\$116.58	July 1	1	\$116.58
D. Forster (geologist)	\$93.73	Aug. 2, 5	2	\$1\$7.46
N. Caira (geologist)	\$83.51	Aug. 3, 5	2	5167.02
C. Leupold (sampler)	\$57.96	July 1, 20 Aug. 3, 5, 6	5	\$289.80
K. Hudson (sampler)	\$52.85	Aug. 3, 5	2	\$105.70
L. Tamaki (sampler)	\$63.06	Aug. 3, 6	2	\$126.12
I. Hribar (cook)	\$66.38	(Proportioned amongst other claims: 4.39% x 61 days)	2.68	S177.76
C. Carter (Lab. Technician)	\$52.85	(Proportioned amongst other claims: 4.39% x 38 days)	1.67	\$88.16
Proportion of General this Group: 4.39% x			11.24	\$824.62
		•	29.59	\$2083.22

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2. TRANSPORTATION

3.

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):	<u>\$306.01</u>
B. Demobilization	
Charter Aircraft Sturdee Strip-Smithers (part of Aviair Aviation Invoice No. 0450) Air Fares (5 crew, Smithers-Vancouver @	\$32.66
\$510.25 - proportioned):	<u>\$22.40</u>
	\$55.06
C. <u>Helicopter Support</u>	
<u>Viking Helicopters</u> - Total 95.25 hours	
<pre>split between properties = 4.18 hrs. @ \$428.00/hr. including fuel: July 1, 20, Aug. 3, 5, 6:</pre>	S1789.67
ALC Airlift Corporation - Total 12.18 hrs. split between properties = .53 hours @ \$415 per hour including fuel: Between July 30 - Aug. 1:	219.95
	\$2009.62
CAMP COSTS	
A. Room and Boarc	
29.59 man days @ \$50.00/day including all or parts of July 1, Aug. 2, 3, 5, 6:	\$1479.50
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	<u>\$61.95</u>

4. GEOCHEMICAL ANALYSIS

5.

201 soil samples and 4 silt samples analyzed for Cu, Pb, Zn, Ag and Au @ S10.55 per sample (Min-En Labs):	S2162.75
178 rock samples analyzed for Cu, Pb, Zn, Ag and Au @ \$11.95 per sample (Min-En Labs. Invoices):	\$2127.10
Sample shipment costs and supplies (Min-En Labs. Invoices) - Total S1431.45 proportioned between properties:	62.84
	\$4353.69
REPORT PREPARATION	
Writing and Drafting	\$400.05
Airphoto Mosaics and Maps - Burnett Resource Surveys Ltd Total \$4242.11 (proportioned and not accounted for on last cost statement filed Sept. 30/81):	\$797.94
	\$1197.94
SUMMARY OF COSTS	
 Wages Transportation A. Mobilization B. Demobilization C. Valiantan Support 	\$2093.22 306.01 55.06
C. Helicopter Support 3. Camp Costs A. Room and Board	2009.62 1479.50
B. Expediting 4. Geochemical Analysis 5. Report Preparation	61.95 4353.69 197.94
	\$11,546.99

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APPENDIX 'A'

Analytical Procedures

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APPENDER '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 HNO₃ and HClO₂ 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 HNO₃ and HClO₄ mixture.

After pretroainents the samples are digested with Hgua Regia solution, and after digestion the samples are taken up with 25% HCI 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 exidation and treatment of a least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Retone.

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.
- 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 August 1981, a detailed grid sampling program was undertaken on the GWP 1-10 claims to supplement original work done on the GWP 1-9 claims in June.
- 5. The work was done on behalf of Great Western Petroleum Corporation.

L'Accles

L.K. Eccles

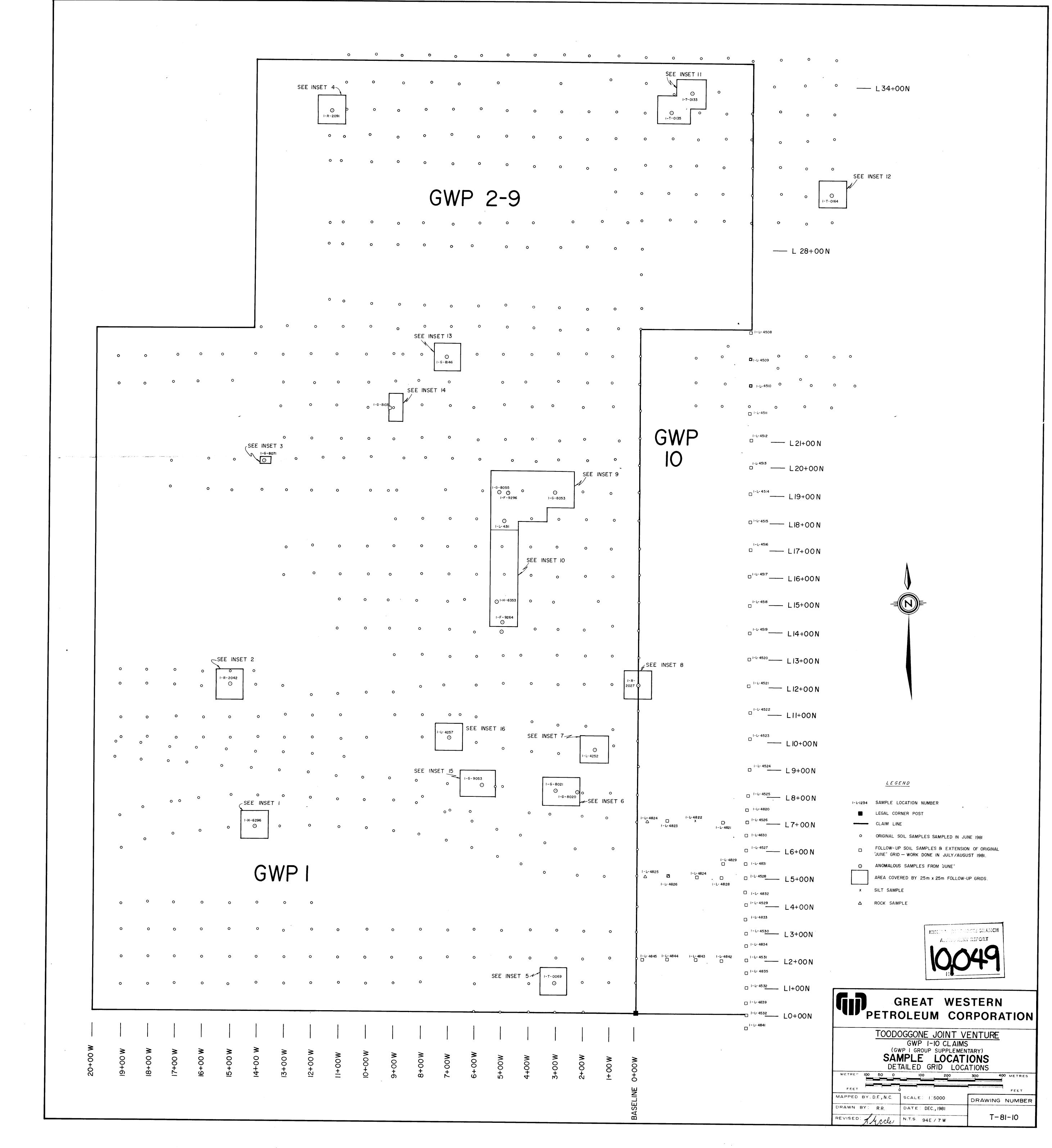
ATTESTATION

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 1-10 claims and will attest to the authenticity of data contained in this report.

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



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I-H-7085 I-R-2042 I-H-7088 ○ ○ ○ ○ ○ I-H-7086 I-H-7087 I-H-7111 I-H-6296 I-H-7117 ○ ○ ○ ○ ○ I-H-7112 I-H-7118 I-H-7093 I-H-7091 I-H-7089 ООООООО I-H-7092 I-H-7090 I-н-7113 О INSET 3 I-H-7094 I-H-7096 I-L-4272 ○ ○ ○ ○ ● I-H-7095 I-H-7097 I-L-5222 I-L-5224 I-L-5226 ○ ○ ○ ○ I-L-5223 I-L-5225 I-H-7115 0000 I-H-7114 I-H-7116 I-T-0124 INSET 4 INSET 2 INSET I . ----. . I-C-12725 I-C-12715 I-C-12705 △ △ △ △ △ I-C-12716 I-C-12706 I-C-12741 I-C-12731 ○ ○ ○ ○ I-C-12740 I-C-12730 1-F-12129 △ 009-T-I 0090 I-T-0988 I-T-I000 I-T-I009 کے کے کے کے کے کے I-T-0991 I-T-090 I-T-0985 I-T-0987 I-T-0999 I-T-1008 С С С С С С С I-T-0986 I-T-0992 I-T-1002 I-C-12742 I-C-12732 I-C-12739 I-C-12729 I-F-12130 I-F-12122 △ ○ ○ ○ I-F-12128 I-F-12121 I-C-12743 I-C-12738 I-C-12738 I-C-12738 I-C-12734 I-C-12734 I-C-12737 I-C-12727 I-T-0979 I-G-802I I-T-0998 I-G-8020 △ △ ④ ④ △ △ ○ I-T-0980 I-T-0993 I-T-1003 I-F-12131 I-F-12123 ○ ○ ○ I-F-12136 I-T-0069 I-F-12120 I-C-12722 I-C-12712 I-C-12702 △ △ △ △ I-C-12719 I-C-12709 I-F-12132 I-F-12124 ○ △ ○ ○ ○ I-F-12135 I-F-12127 I-F-12119 ו-ד-0978 ו-ד-0984 ו-ד-0977 ו-ד-1007 △ △ △ △ △ △ △ △ ו-T-0981 ו-T-0994 ו-T-1004 I-C-12721 I-C-12711 I-C-12701 △ △ △ △ △ △ I-C-12720 I-C-12710 0 0 0 I-F-I2I33 I-F-I2I25 ○ ○ ○ ○ ○ I-F-I2I34 I-F-I2I26 I-F-I2I18 INSET 8 INSET 7 INSET 6 .

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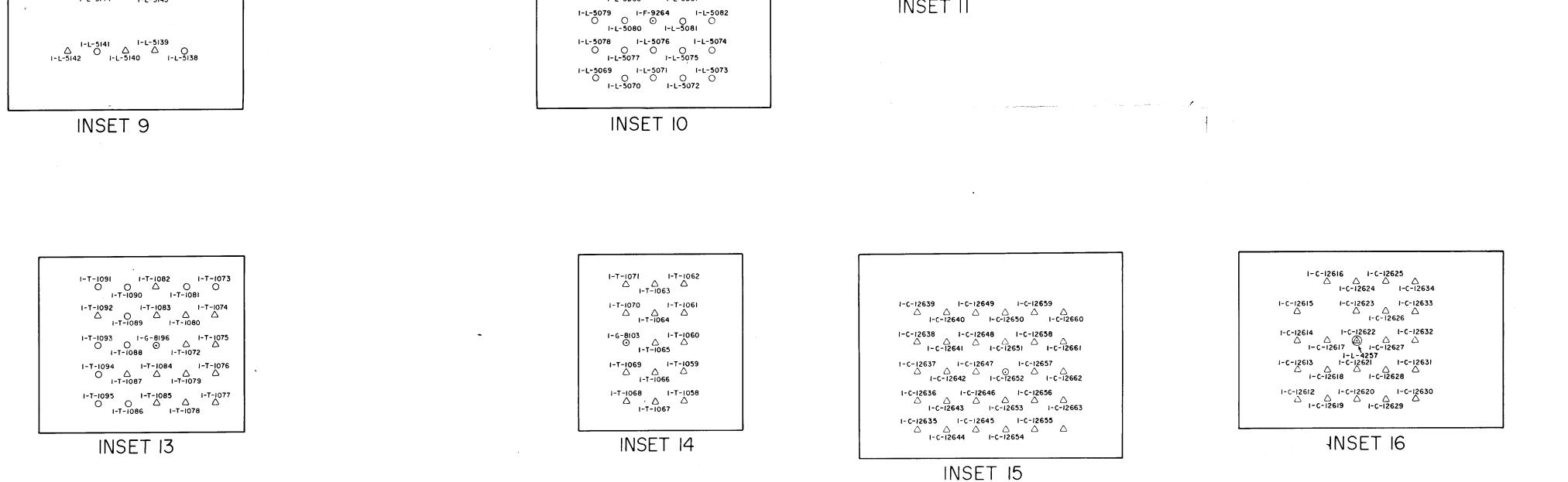
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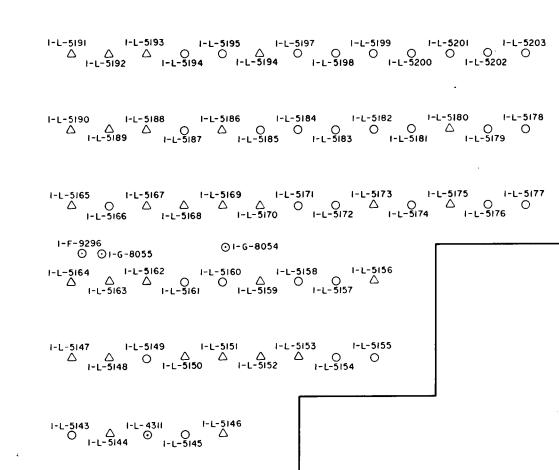
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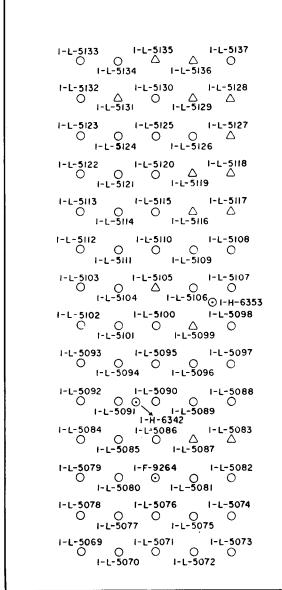
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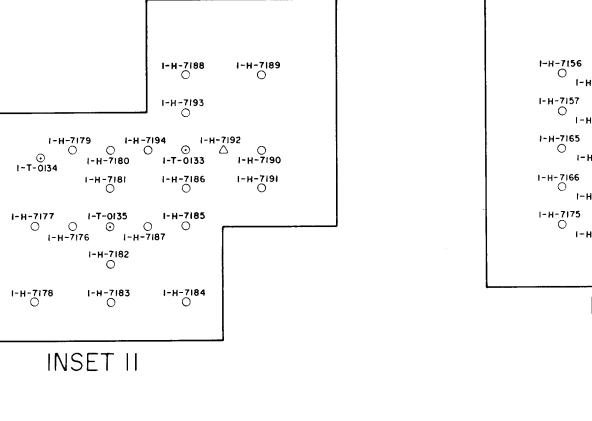
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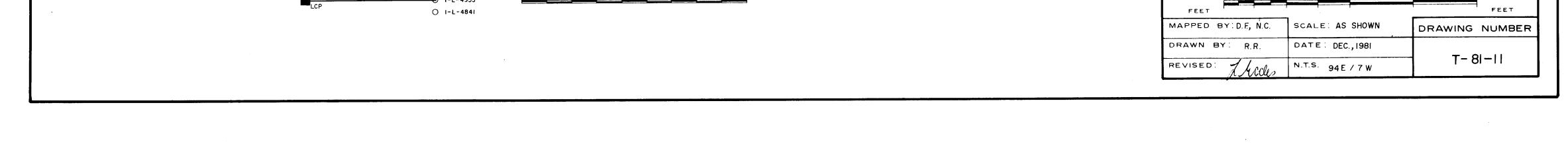


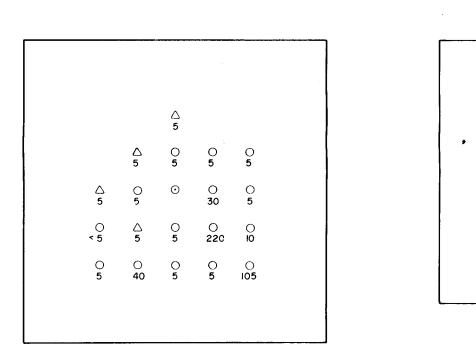
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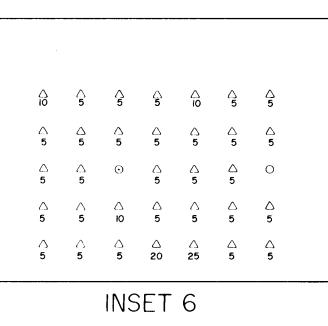
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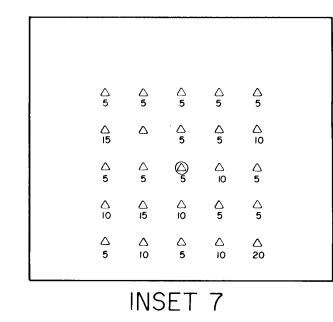
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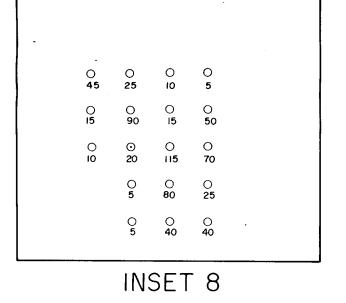
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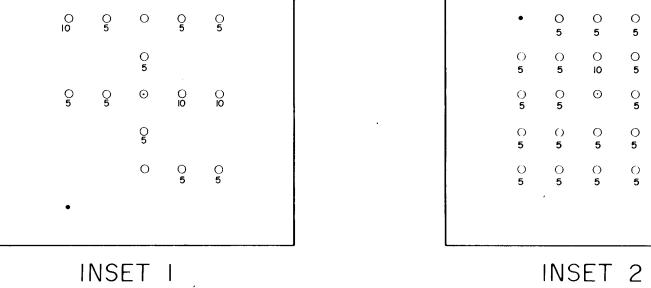










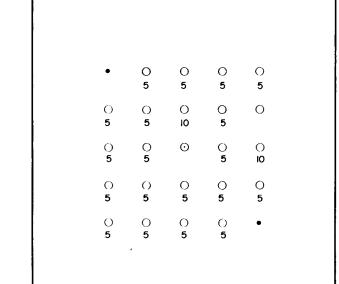


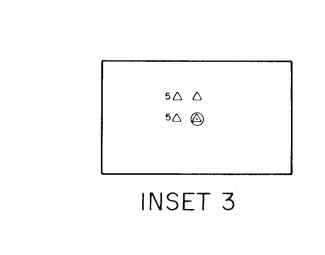
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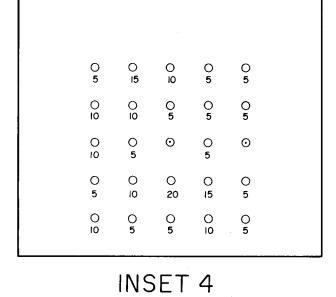
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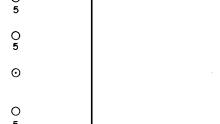
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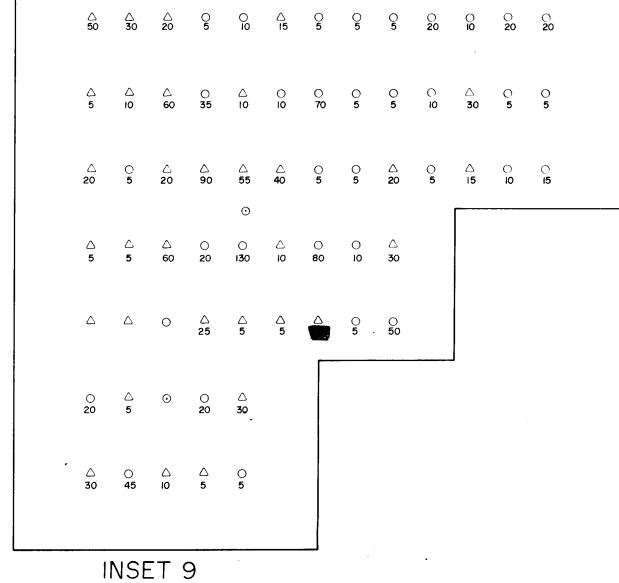




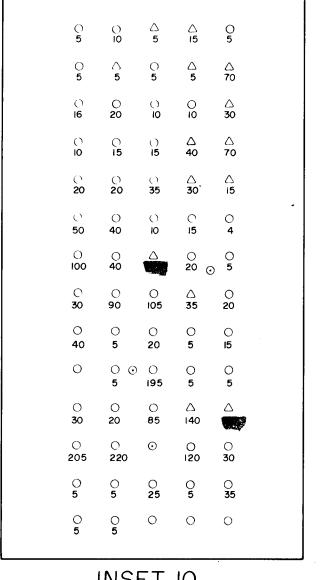


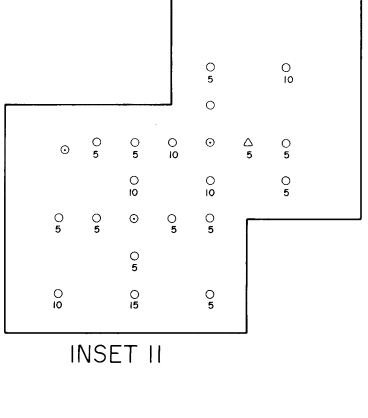
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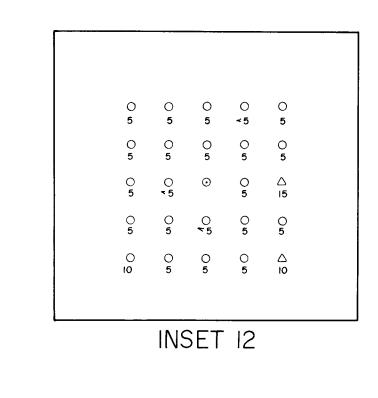
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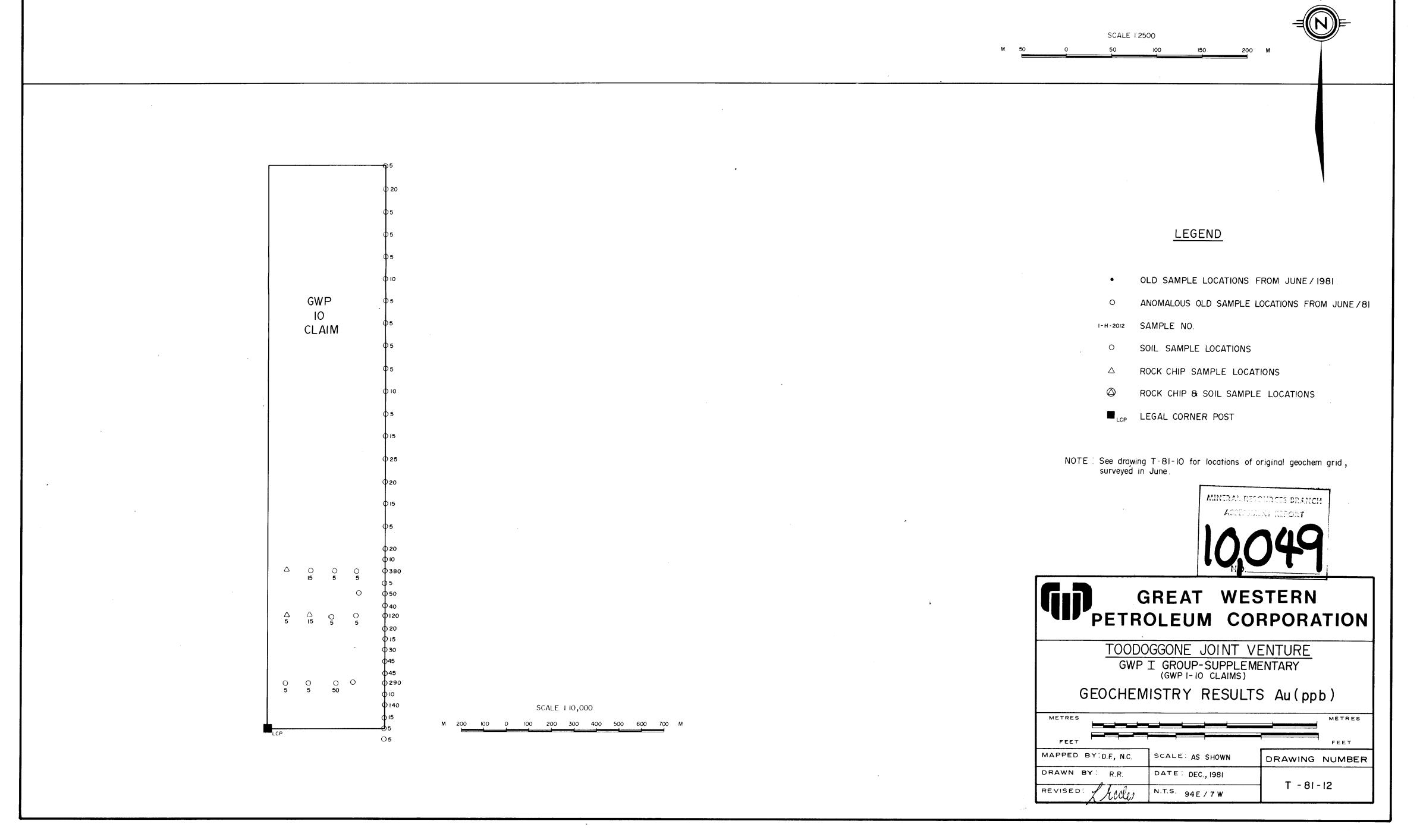


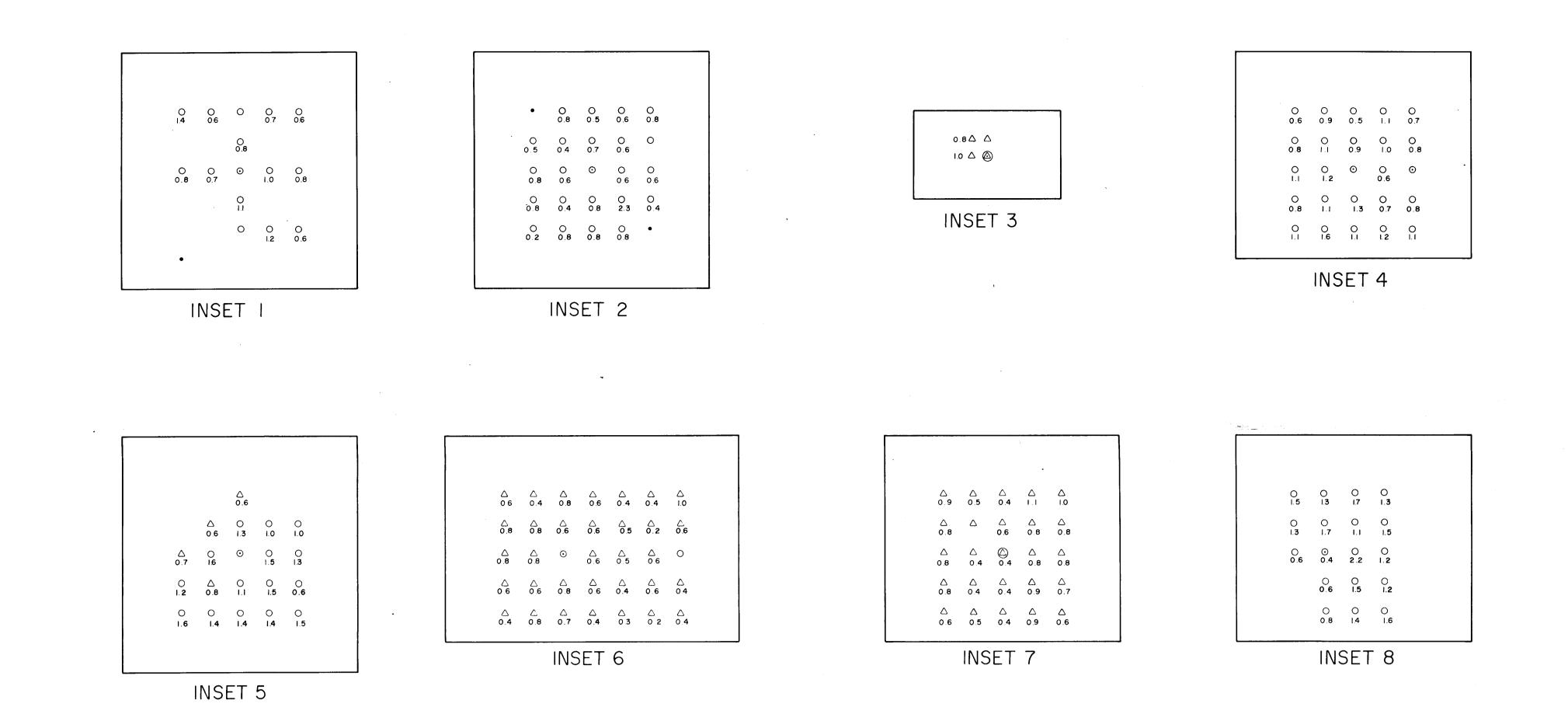




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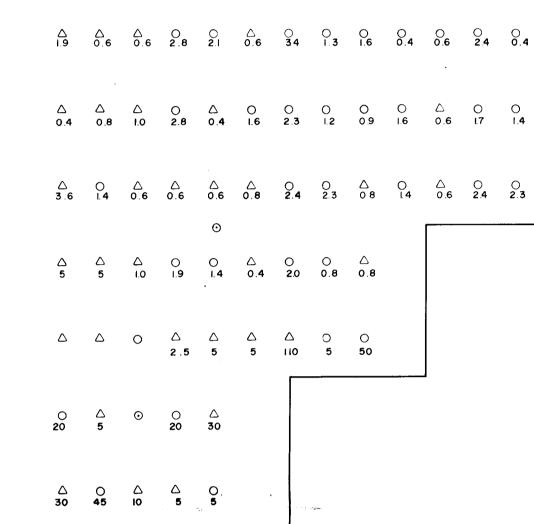




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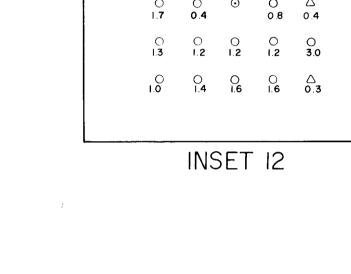
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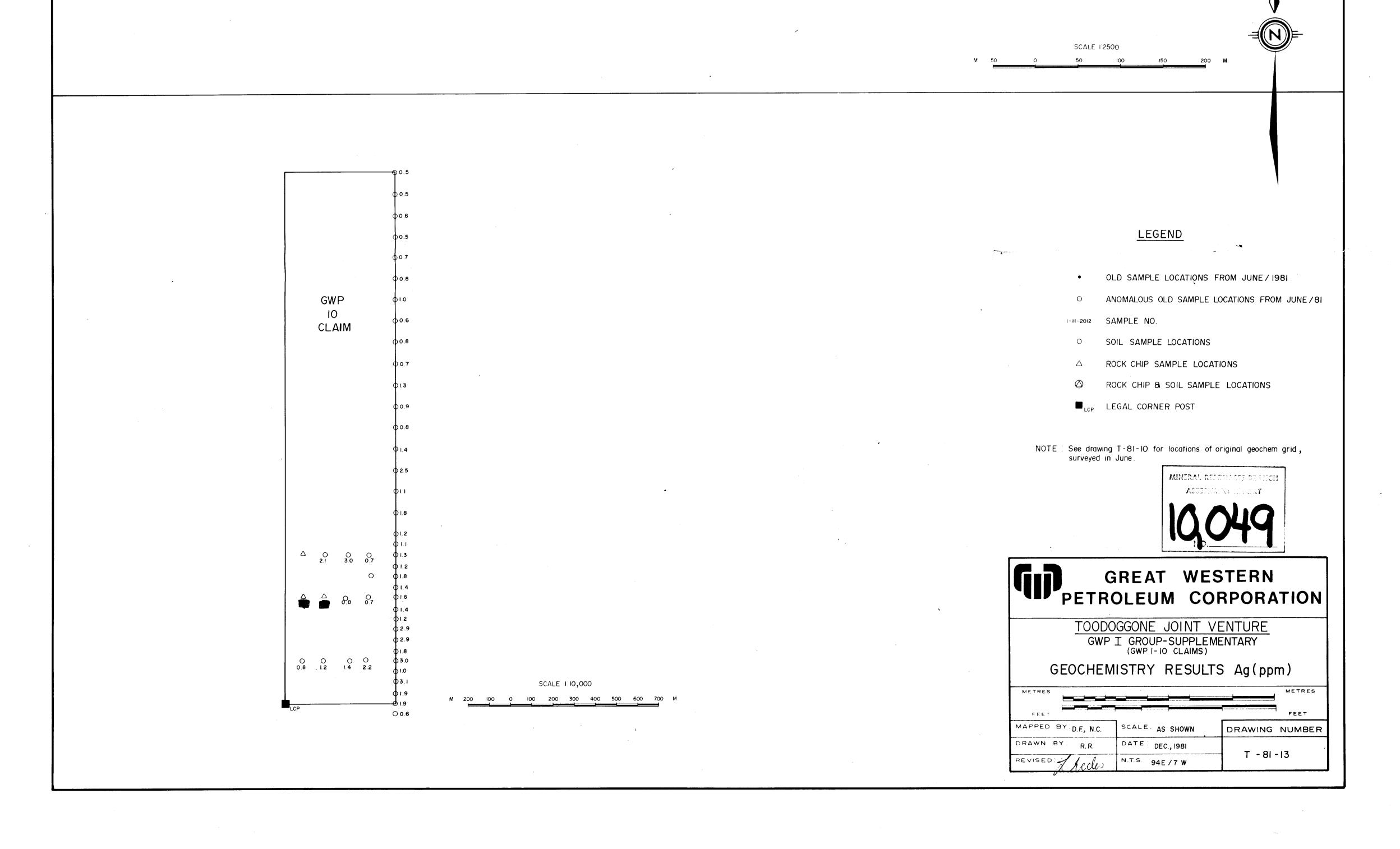
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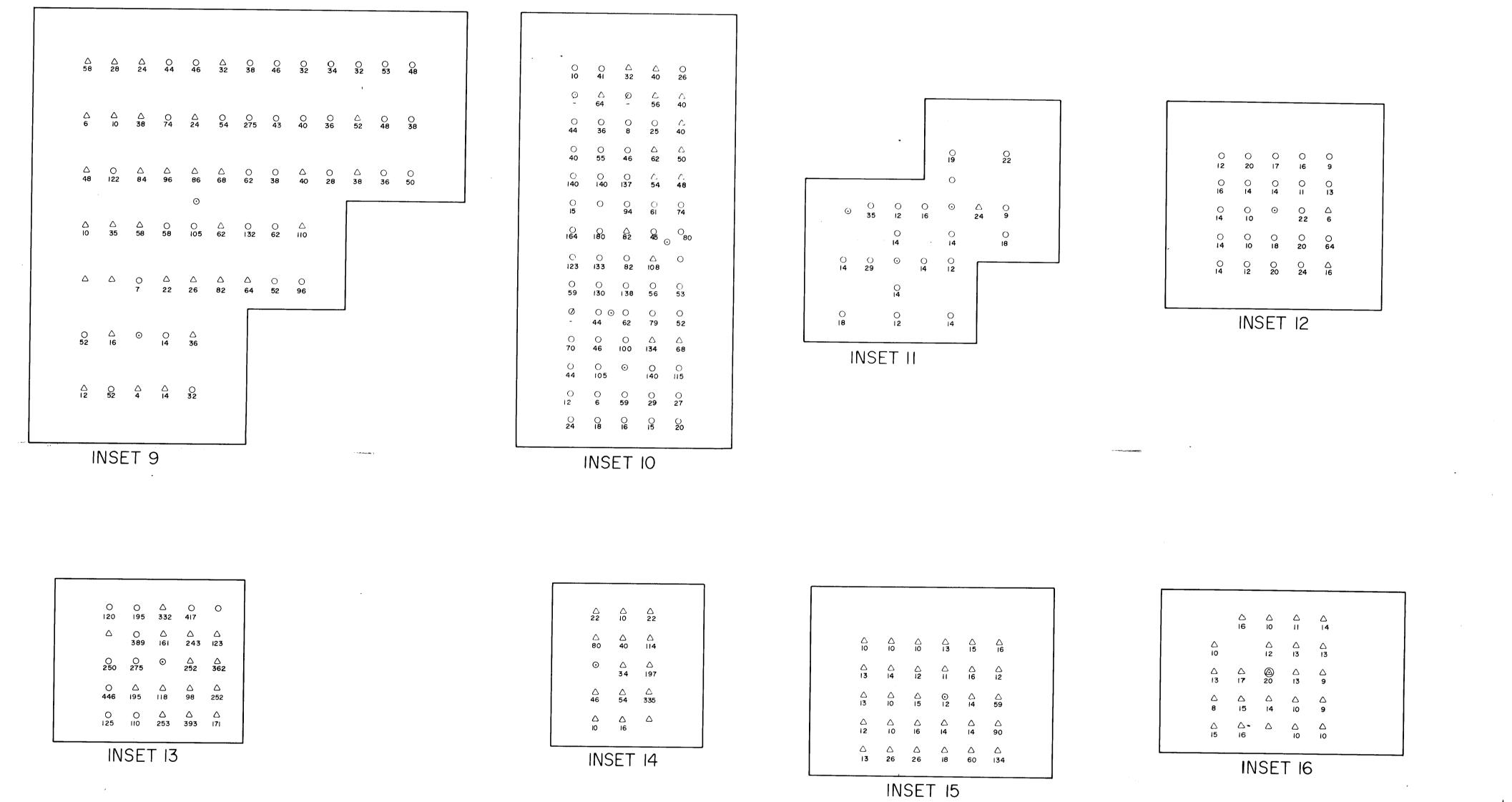
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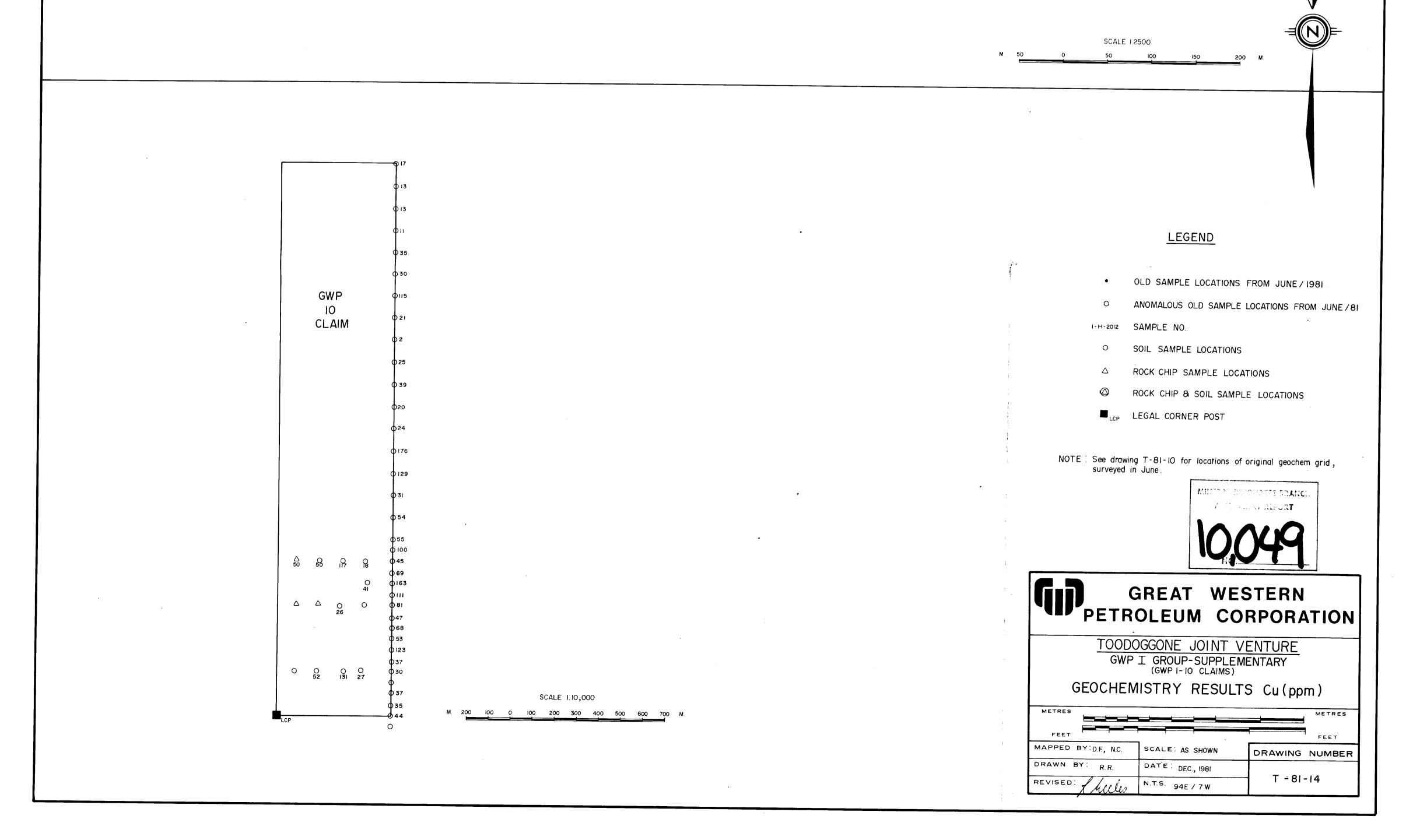
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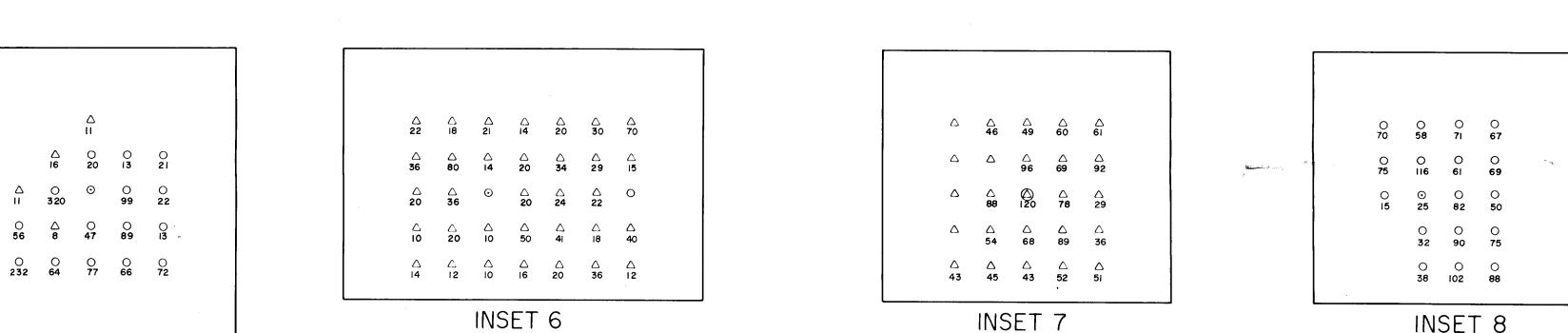
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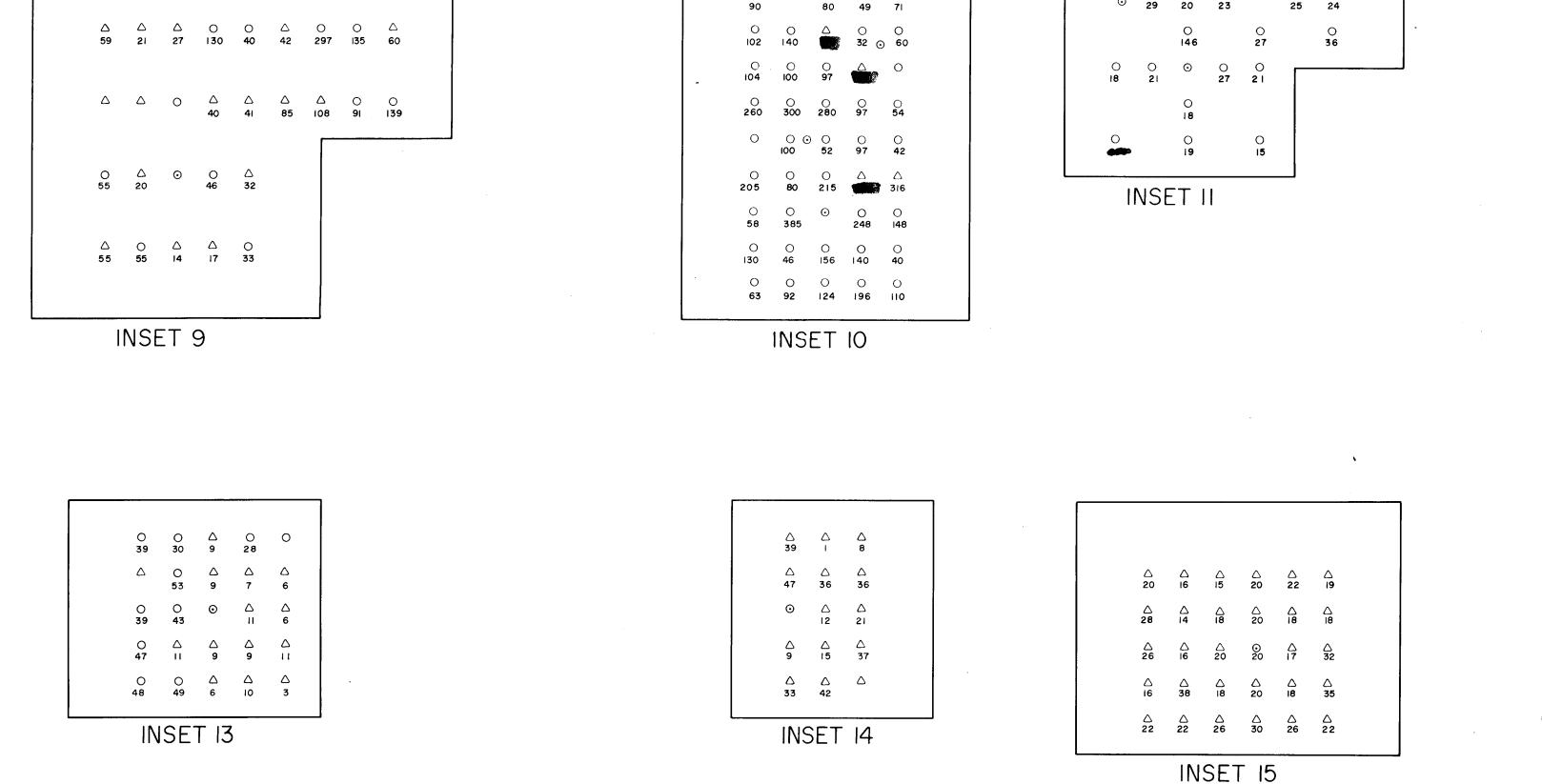
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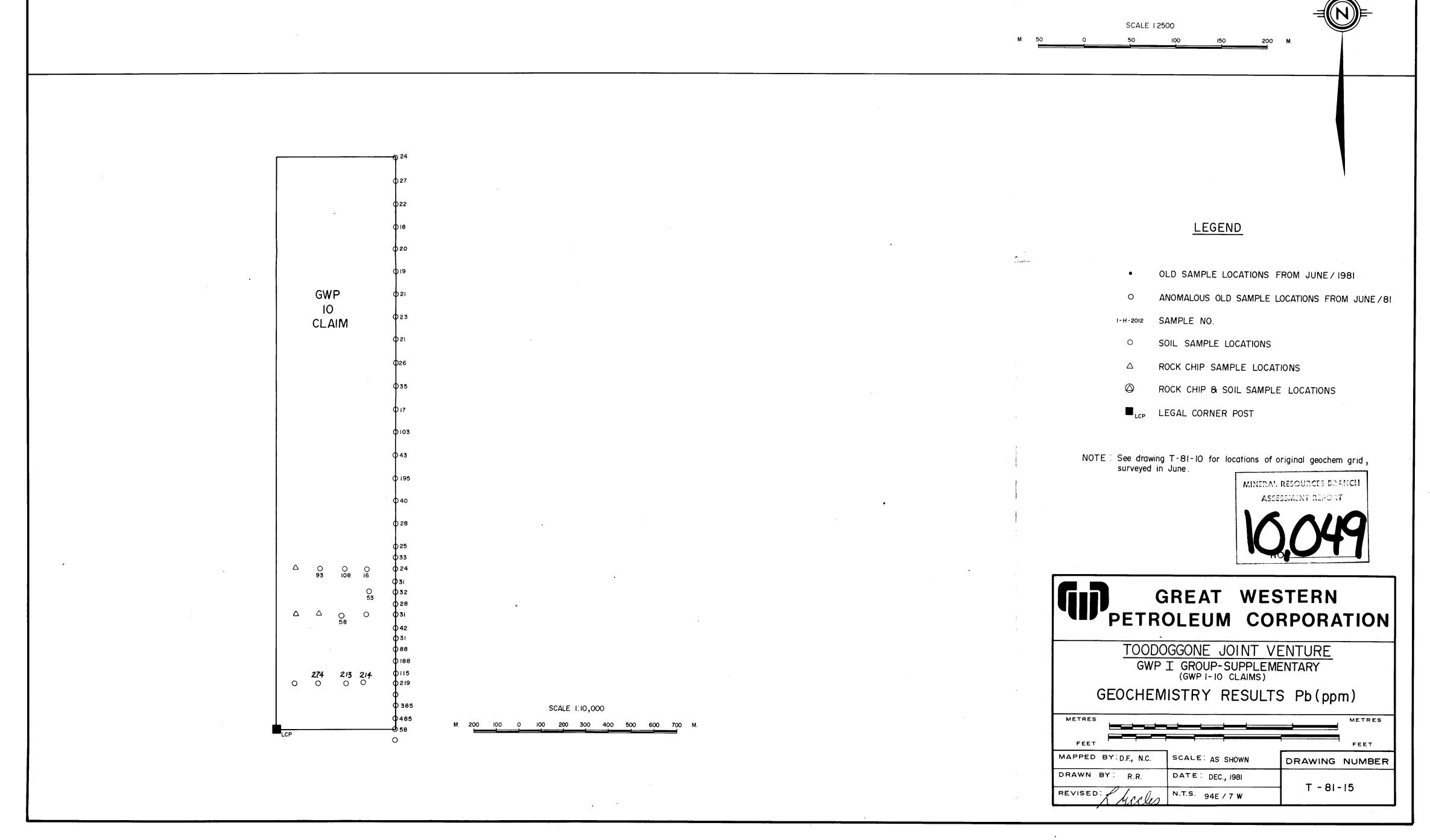
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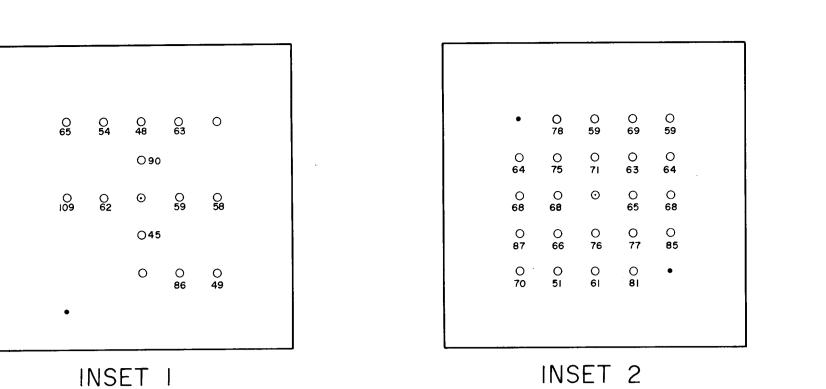


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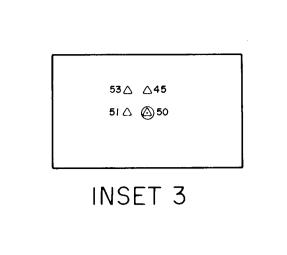
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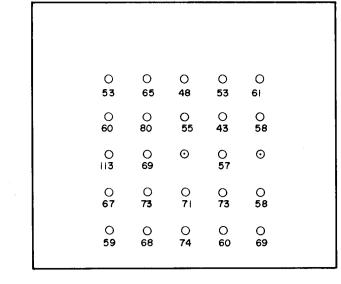
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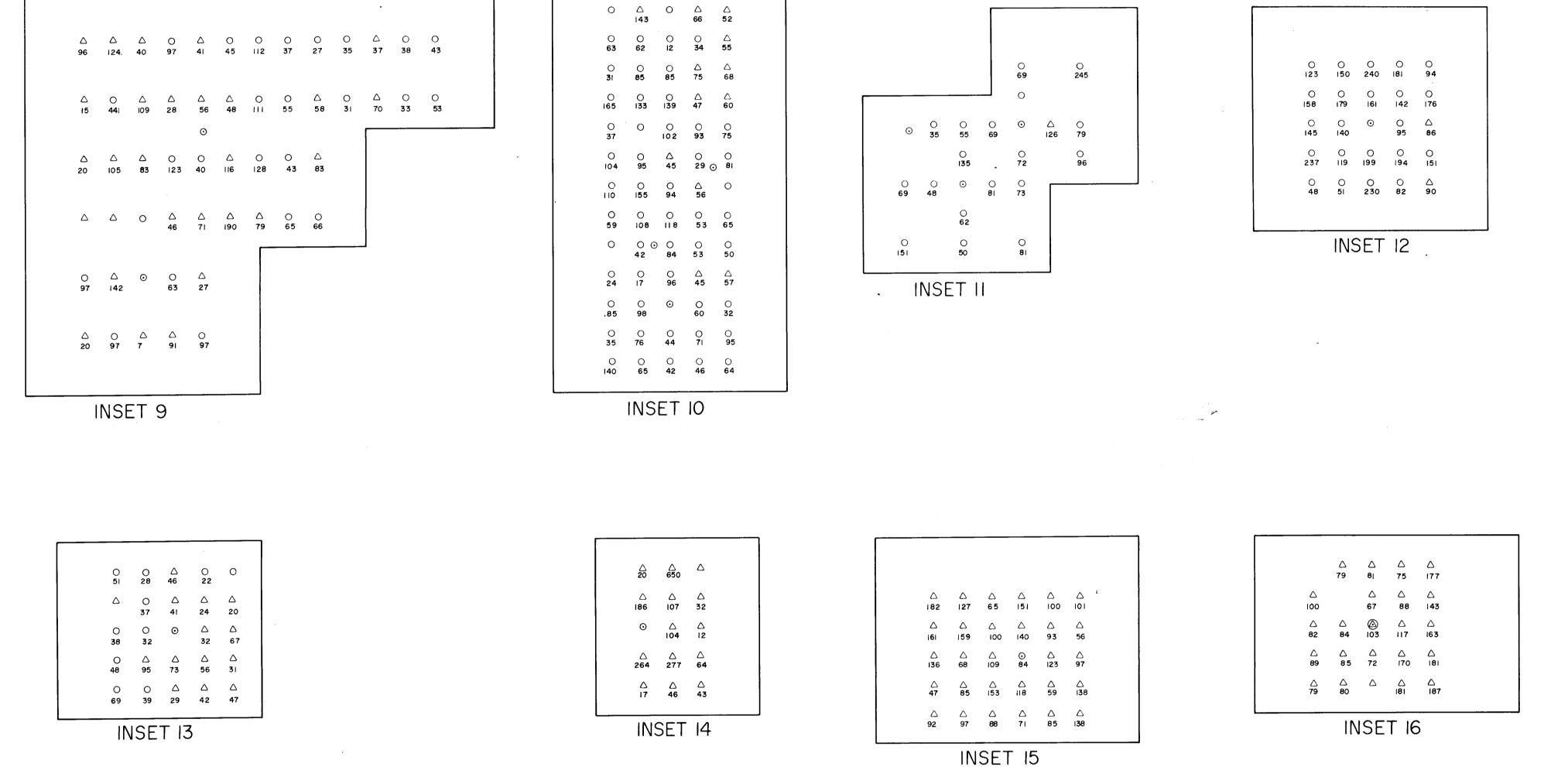
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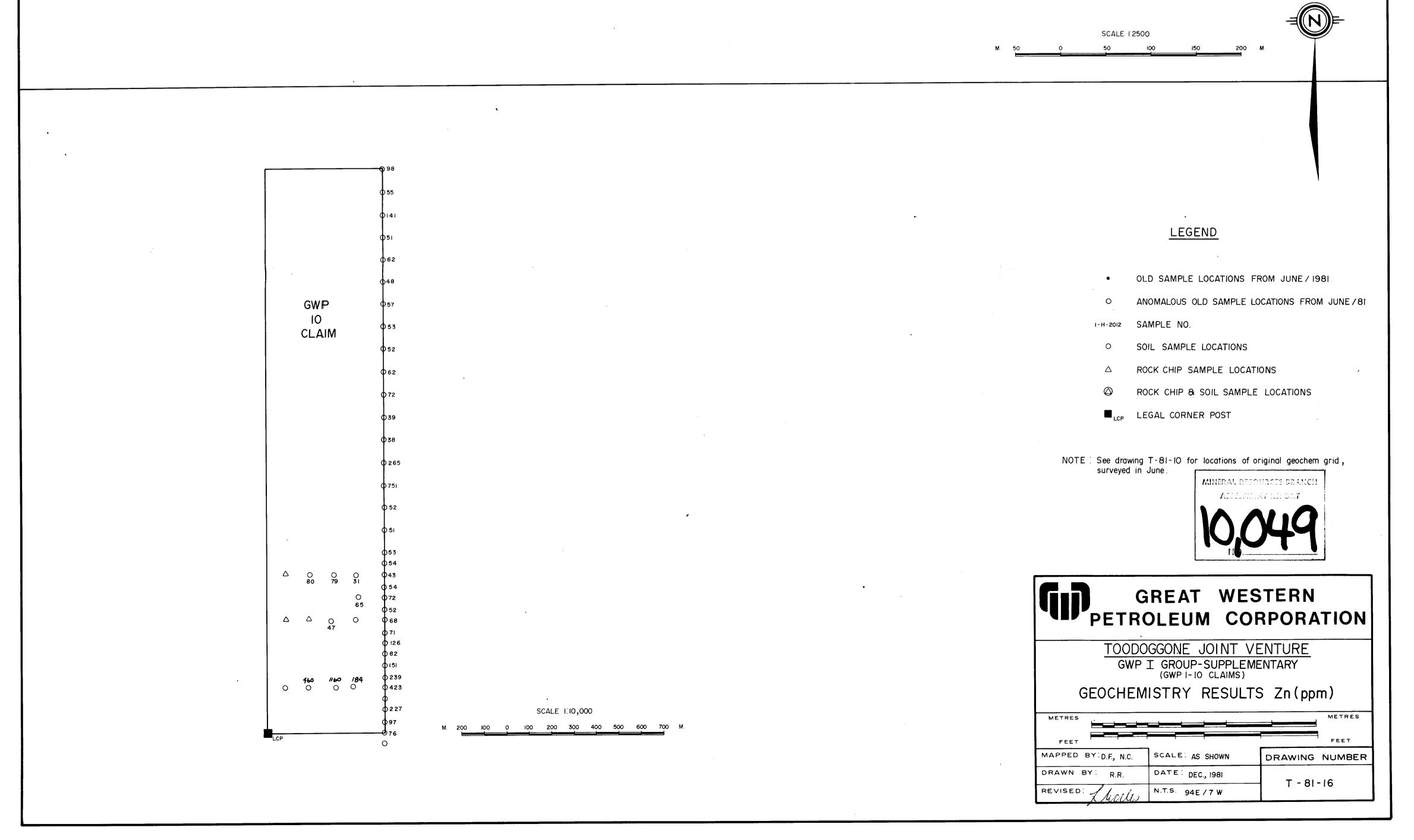
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