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SOIL GEOCHEMISTRY TRENCHING AND SAMPLING REPORT  
ON THE GOLDEN STRANGER CLAIMS 1985

10/86

Omineca Mining Division  
Latitude 57°16.5'N Longitude 127°15.2'W  
NTS 94E/6W

Report Prepared For  
WESTERN HORIZONS RESOURCES LTD.  
360-522 7th Street  
New Westminster, B.C.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,927**

By  
Gower, Thompson and Associates Ltd.  
Coquitlam B.C.

January 10, 1986

S.C. Gower B.Sc. F.G.A.C.

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SOIL GEOCHEMISTRY, TRENCHING AND SAMPLING REPORT  
ON THE GOLDEN STRANGER CLAIMS 1985

INTRODUCTION

TERMS OF REFERENCE

Gower, Thompson and Associates Ltd. was contracted by Western Horizons Resources Ltd. and their joint venture partners Sutton Resources Ltd. and Redfern Resources Ltd. to conduct a surface trenching, sampling and soil geochemistry program on the GOLDEN STRANGER and GOLDEN STRANGER II claims. This work was done by S.C. Gower, B.Sc. geologist, assisted by E.M. Thompson in the period August 1 to September 30, 1985.

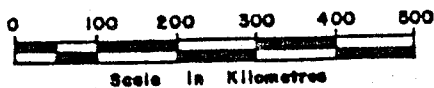
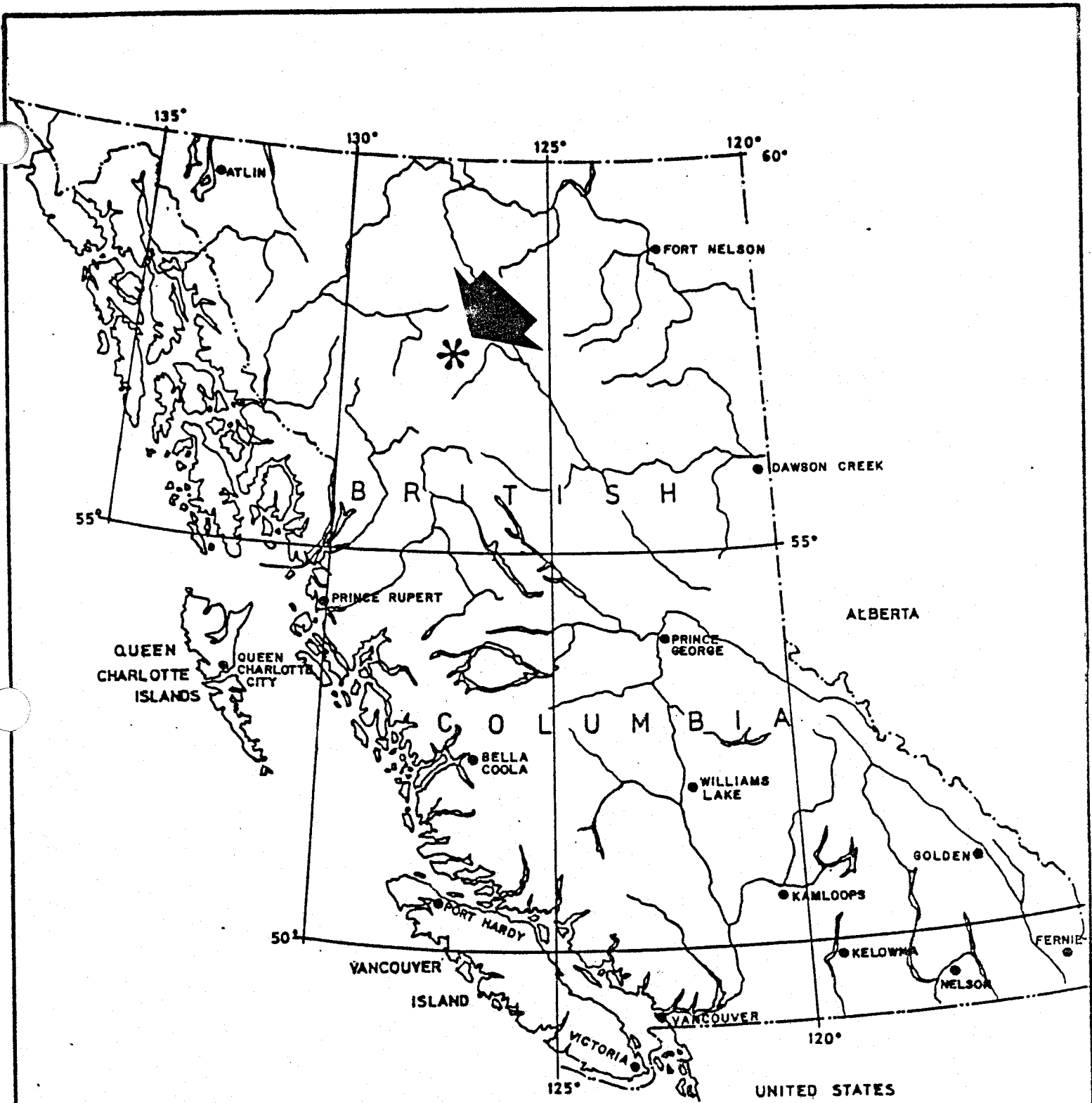
LOCATION

The GOLDEN STRANGER claims are located approximately 24 kilometres (15 miles) northwest of Sturdee River airstrip. The property lies between the headwaters of Toodoggone and Chappelle Rivers and on the west of Lawyers Creek, at latitude 57°16.5'N, longitude 127°15.2'W, NTS 94E/6W in the Omineca Mining Division. The property is at approximately 1500 metres elevation (5000 feet). See Figures 2 and 3. The claims are accessible by helicopter from Sturdee airstrip.

CLAIM STATUS

The claims comprising the Golden Stranger 1 group, totalling 12 units, are listed in Table II and shown on Figure 5.





TOODOGGONE JOINT VENTURE

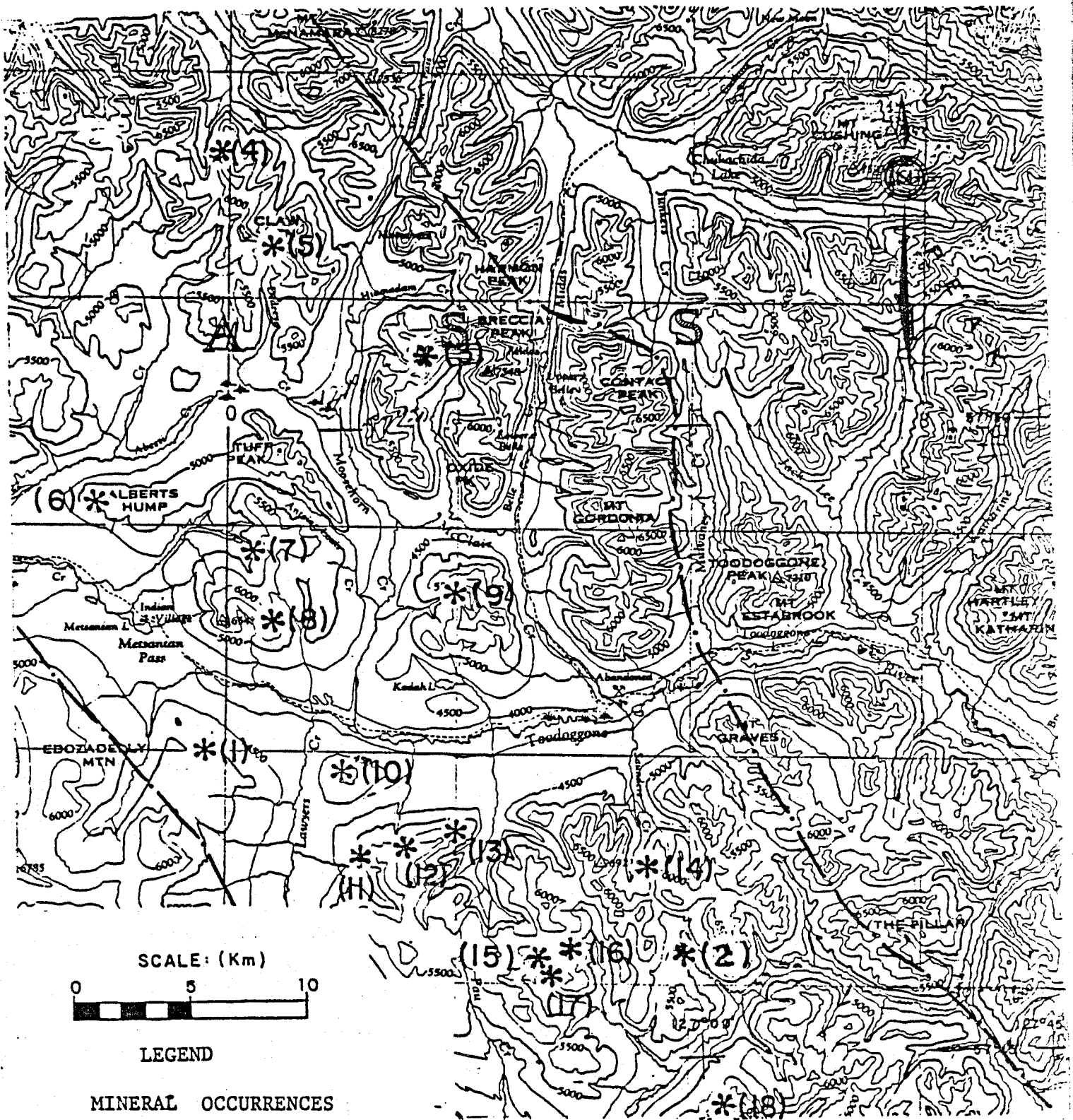
LOCATION OF  
TOODOGGONE GOLD-SILVER  
DISTRICT

FIGURE: I.

SCALE: 1:10,000,000

DRAWN BY: P.STOECKLY

DATE: NOV 1985



SCALE: (Km)



LEGEND

MINERAL OCCURRENCES

- |                    |                     |
|--------------------|---------------------|
| #1 GOLDEN STRANGER | #10 KODAH           |
| 2 DAVE PRICE       | 11 SILVER POND      |
| 3 GORD DAVIES      | 12 LAWYERS          |
| 4 COPPER KING      | 13 LAWYERS          |
| 5 CLAW MTN.        | 14 GOLDEN NEIGHBOUR |
| 6 ALBERTS          | 15 BAKER            |
| 7 NORTH METSANTAN  | 16 BAKER            |
| 8 METSANTAN        | 17 BAKER            |
| 9 J.D.             | 18 SHA              |

**TOODOGGONE JOINT VENTURE**

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**LOCATION OF .**

**TOODOGGONE GOLD-SILVER DISTRICT**

**MINERAL OCCURRENCES**

FIGURE: 2.	SCALE: 1:250,000
DRAWN BY: P.STOCKLY	DATE: Oct. 83

TABLE II  
GOLDEN STRANGER 1 GROUP

CLAIM	UNITS	RECORD NO.	ANNIVERSARY DATE
GOLDEN STRANGER	9	4882 (11)	November 3, 1986*
GOLDEN STRANGER II	3	5671 (8)	August 29, 1987*

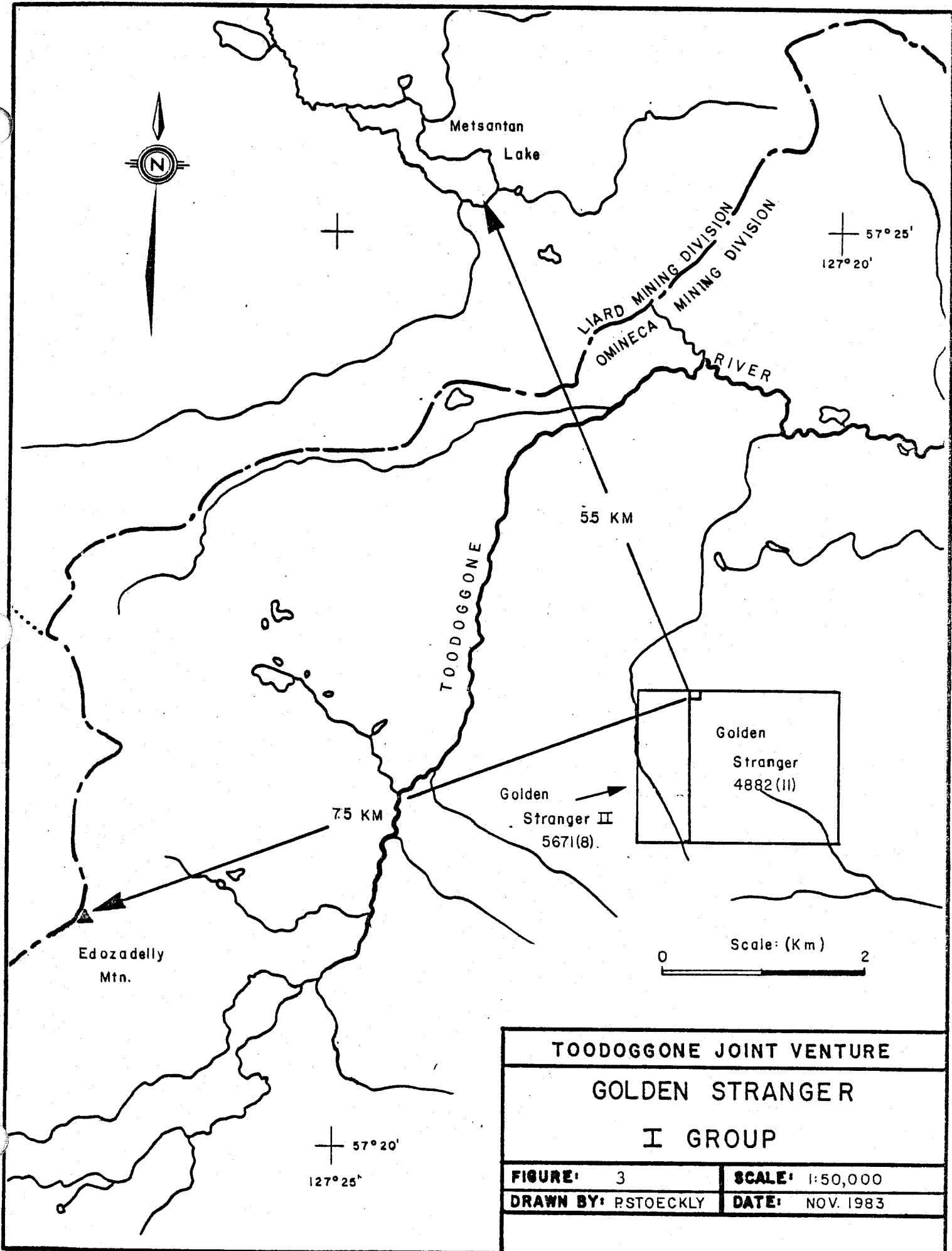
\*Ten years assessment work has been applied to each claim to extend the expiry date of GOLDEN STRANGER to November, 1996 and GOLDEN STRANGER II to August 29, 1997.

Notice to Group GOLDEN STRANGER and GOLDEN STRANGER II was filed October 31, 1983 under the group name Golden Stranger #1. The legal corner post is located 5.5 kilometres (3.5 miles) southeast of Metsantan Lake and 6.5 kilometres (4 miles) northeast by east of Edozadelly Mtn. The GOLDEN STRANGER claim is owned by Western Horizons Resources Ltd. by Bill of Sale, August 2, 1983, from E. Thompson. The GOLDEN STRANGER II claim was staked on August 13 and 14, 1983, by Western Horizons Resources Ltd.

#### GEOLOGY

GEOLOGY OF THE GOLDEN STRANGER PROPERTY (From Assessment Report on Golden Stranger by Gower and Northcote, November 30, 1983)

The GOLDEN STRANGER claims are underlain by massive Toodoggone volcanics consisting primarily of andesite porphyry and lesser crystal tuff and tuff breccia which are of similar appearance to andesite porphyry but less well indurated. Some of these volcanics have primary hematitic matrix and/or lithic fragments. They range from unaltered grey or purplish red porphyritic to secondary weathered hematitic which has resulted in pinkish coloration of plagioclase phenocrysts and in the rock matrix in more



TOODOGGONE JOINT VENTURE	
GOLDEN STRANGER	
I GROUP	
FIGURE: 3	SCALE: 1:50,000
DRAWN BY: PSTOECKLY	DATE: NOV. 1983

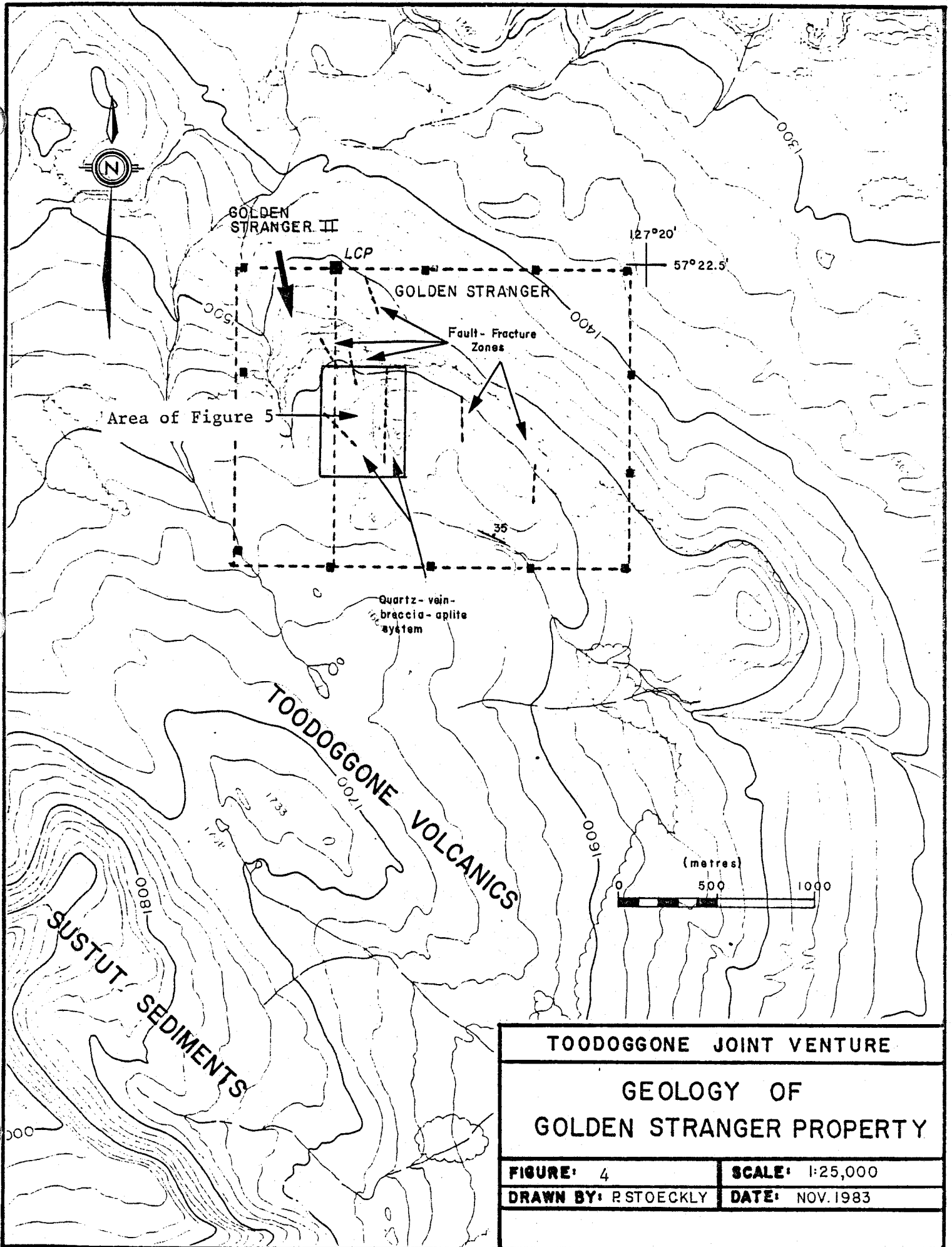
intensely weathered zones. The andesite porphyry volcanics in the claims correspond to Unit 6B of MEMPR Preliminary Map 61 by Diakow, Panteleyev and Schroeter, 1985. The Toodoggone volcanics are unconformably overlain to the southwest by Sustut sediments. See Figure 4.

The Toodoggone volcanics have superimposed northerly trending zones of hydrothermal alteration of varied intensity; most of which are associated with northerly trending fracture and shear-fault systems. See Figure 4. These systems served as deep-seated channelways for hydrothermal solutions and magmatic differentiates and have undergone successive episodes of structural movement over a long period of time. Alteration in these zones ranges from disseminated pyrite with associated iron staining through epidotized, chloritized, pyritic propylitic and locally intense argillic alteration. Aplite dykes follow one or more of these northerly trending fracture-fault systems.

Quartz veining, also of varied intensity which cuts both altered porphyritic volcanics and aplite dykes, are present in some of the fracture-fault systems. Quartz breccias and multistage quartz layering are common with chalcedonic quartz along some vein margins. There are up to 10 or more successive quartz layers with drusy vugs and locally open drusy amethystine centres.

Variations in intensity of hydrothermal alteration, presence of aplite dykes and quartz-breccia vein systems probably represent related hydrothermal-magmatic processes which reached different structural levels in the Toodoggone volcanic sequence.

Aplite dykes are reported at the Kodah property at the same elevation, 1500 metres, as Golden Stranger. The Kodah property is approximately 6 kilometres east of Golden Stranger on the east side of Lawyers Creek.



TOODOGGONE JOINT VENTURE	
GEOLOGY OF GOLDEN STRANGER PROPERTY	
FIGURE: 4	SCALE: 1:25,000
DRAWN BY: RSTOCKLY	DATE: NOV. 1983

Two divergent quartz-breccia zones approximately 180 metres apart comprise the "main" and "west" zones. See Figure 5. These zones, in porphyritic andesite, follow and are followed by later northerly and northwesterly trending fractures and/or fault-shear systems.

The multistage quartz-vein-breccia-aplite system on the east strikes approximately northerly and has near vertical dip. Where its full width is exposed it measures more than 30 metres wide and extends northerly for a length of more than 400 metres. Aplite dykes, which appear to have cut the system are themselves brecciated and veined by multistage quartz, are conspicuous at the north and south ends of the main system. See Figure 5. A strong fault gouge zone lies on the west flank of the north end of the main aplite-quartz-vein breccia system. The porphyritic andesite wall rocks have undergone porphyritic alteration which is particularly intense adjacent to the aplite bodies.

A number of outcropping and frost-heaved exposures of quartz-vein-breccias were found to the west of the northern aplitic zone. These may represent continuation or off shoots of the main zone. See Figure 5.

The west vein-breccia system does not appear to be as well developed as the main system to the east. See Figure 5. It is noted however, that this system is flanked on the east by a parallel linear depression which may be reflecting a major fault-shear structure. The best vein-breccia development was noted in exposures in closest proximity to this depression. There is potential, therefore, for improved vein-breccia development within or against this possible structure.

## 1985 PROGRAM

Ten trenches totalling 172 metres were blasted and hand trenched. Eighty-nine channel and chip samples were taken from these trenches and from outcrop and were assayed for Au and Ag.

In addition to the trenching, 36 test pits were blasted into rock to procure representative material for assay. Four of the pits failed to discover silicious rock and were not sampled. The blasting was carried out by filling 13"x18" plastic bags approximately 50% full of Amex explosives, inserting a stick of 40% dynamite as primer and connecting the individual bombs with B-LINE detonating cord for simultaneous explosion from a fuse assembly.

One hundred and sixty-one soil, silt and rock samples were collected for geochemical analysis. The soil samples were procured by digging down approximately 0.25 metres with a long-handled shovel. Sample notes were taken on depth of sample, soil colour, contained rock material and horizon. The sample sites were marked with coloured ribbon and the holes refilled. Silt samples were taken from drainages and dry gullies with notes procured on composition and the sites flagged with coloured ribbon. Rock samples were taken as part of geological mapping when interesting alteration or sulphide minerals were noted.

All data was plotted in the field on a scale of 1:500 and 1:2500. Samples were shipped to Bondar-Clegg laboratories in Vancouver for analysis by geochemical and/or fire assay methods. Pulps are available for re-analysis if required.



GENERAL TRENCH DATA

<u>Number</u>	<u>Length</u>	<u>Direction of Sampling</u>	<u>Average Depth</u>
Trench # 1	21.5 metres	east to west	1.0 metre
Trench # 2	22.1 metres	west to east	1.0 metre
Trench # 3	29.7 metres	west to east	1.0 metre
Trench # 4	32.3 metres	east to west	1.2 metres
Trench # 5	8.3 metres	east to west	0.5 metre
Trench # 6	8.0 metres	east to west	0.3 metre
Trench # 7	8.1 metres	east to west	1.0 metre
Trench # 8	10.5 metres	west to east	0.5 metre
Trench # 9	7.0 metres	west to east	0.5 metre
Trench #10	25.0 metres	west to east	0.2 metre

SPECIFIC TRENCH DATA

<u>Trench</u>	<u>Meterage</u>	<u>Sample No.</u>	<u>Rock Description</u>
#1	0-2	ST-1-1001	Shattered feldspar porphyry
	2-4	ST-1-1002	Silicious fault zone
	4-6	ST-1-1003	Silicious fault zone
	6-7.5	ST-1-1004	Fault gouge
	7.5-8.5	ST-1-1005	Silicious feldspar porphyry
	8.5-10	ST-1-1006	Fault gouge
	10-12	ST-1-1007	Fault gouge
	12-13	ST-1-1008	Fault gouge
	13-14	ST-1-1009	Shattered feldspar porphyry
	14-16	ST-1-1010	Massive feldspar porphyry
	16-16.7	ST-1-1011	Clay gouge
	16.7-18.9	ST-1-1012	Shattered feldspar porphyry
	18.9-21.5	ST-1-1013	Fault gouge

<u>Trench</u>	<u>Meterage</u>	<u>Sample No.</u>	<u>Rock Description</u>
#2	0-4.4	Not trenched	Overburden
	4.4-6.7	ST-2-1014	Silicified feldspar porphyry
	6.7-8.7	ST-2-1015	Silicified feldspar porphyry
	8.7-9.2	ST-2-1016	Silicified feldspar porphyry
	9.2-10.4	ST-2-1017	Fault zone
	10.4-14.0	ST-2-1018	Feldspar porphyry
	14-15	ST-2-1019	Fault zone
	15-17.7	ST-2-1020	Feldspar porphyry
	17.7-18.7	ST-2-1021	Fault zone
	18.7-19.6	ST-2-1022	Feldspar porphyry
	19.6-22.0	ST-2-1023	Fault zone
	22.0-23.0	ST-2-1024	Feldspar porphyry
	23-24	ST-2-1025	Fault zone
	24-26.3	ST-2-1026	Quartz gouge
	26.3-28	No sample	overburden
#3	28-29	ST-3-1027	Fault zone
	29-32	ST-3-1028	Feldspar porphyry
	32-32.6	ST-3-1029	Feldspar porphyry
	32.6-33.2	ST-3-1030	Fault gouge
	33.2-35	ST-3-1031	Feldspar porphyry
	35-37.4	ST-3-1032	Fault zone
	37.4-37.8	No sample	Porphyry dyke
	37.8-38.7	ST-3-1033	Fault zone
	38.7-44	ST-3-1034	Feldspar porphyry
	44-45	ST-3-1035	Fault zone
	45-47	ST-3-1036	Feldspar porphyry

<u>Trench</u>	<u>Meterage</u>	<u>Sample No.</u>	<u>Rock Description</u>
#3, contd.	47-49	ST-3-1037	Epidotized feldspar porphyry
	49-50.5	ST-3-1038	Epidotized feldspar porphyry
	50.5-52.5	ST-3-1039	Fault gouge - quartz
	52.5-53.6	ST-3-1040	Fault gouge - bluish quartz
	53.6-55.6	ST-3-1041	Fault gouge - shattered quartz vein
	55.6-57.3	ST-3-1042	Gault gouge - abundant quartz
	57.3-58.5	ST-3-1043	Fault gouge - greyish quartz
#4	0-1.2	ST-4-1044	Silicified feldspar porphyry
	1.2-3.2	ST-4-1045	Near massive quartz
	3.2-4.2	ST-4-1046	Epidotized feldspar porphyry
	4.2-5.0	ST-4-1047	Sericitized feldspar porphyry
	5-6	ST-4-1048	Feldspar porphyry
	6-8	ST-4-1049	Quartz stockwork
	8-10	ST-4-1050	Quartz stockwork
	10-12	ST-4-1051	Quartz stockwork
	12-14	ST-4-1052	Feldspar porphyry, quartz stringers
	14-15.3	ST-4-1053	Quartz veinlets and breccia
	15.3-16.3	ST-4-1054	Silicified feldspar porphyry
	16.3-17.3	ST-4-1055	Quartz stockwork
	17.3-18.3	ST-4-1056	Feldspar porphyry - local quartz breccia
	18.3-19.3	ST-4-1057	Epidotized feldspar porphyry
	19.3-20.3	ST-4-1058	Epidotized feldspar porphyry
	20.3-22.3	ST-4-1059	Quartz - vein - breccia complex
	22.3-24.3	ST-4-1060	Quartz - vein - breccia complex
24.3-26.3	ST-4-1061	Quartz - vein - breccia complex	
26.3-28.3	ST-4-1062	Quartz - vein - breccia complex	
28.3-30.3	ST-4-1063	Quartz - vein - breccia complex	
30.3-32.3	ST-4-1064	Breccia/fault gouge contact	

<u>Trench</u>	<u>Meterage</u>	<u>Sample No.</u>	<u>Rock Description</u>
#5	0-2.8	ST-5-1065	Epidotized feldspar porphyry
	2.8-4.8	ST-5-1066	Quartz - vein - breccia, pyrite
	4.8-6.8	ST-5-1067	Quartz - breccia
	6.8-8.3	ST-5-1068	Shattered quartz in gouge
#6	0-2.0	ST-6-1069	Epidotized feldspar porphyry
	2-4	ST-6-1070	Feldspar porphyry
	4-6	ST-6-1071	Silicified feldspar porphyry
	6-8	ST-6-1072	Silicified feldspar porphyry
#7	0-2.4	ST-7-1073	Fault zone - crushed quartz
	2.4-4.4	ST-7-1074	Fault zone - dyke
	4.4-6.4	ST-7-1075	Fault zone
	6.4-8.1	ST-7-1076	Fault zone
#8	0-2	ST-8-1077	Silicified feldspar porphyry
	2-4	ST-8-1078	Pyritic, silicified feldspar porphyry
	4-5.8	ST-8-1079	Near massive quartz
	5.8-10.5	ST-8-1080	Clay fault zone
#9	0-1.8	ST-9-1081	Silicified feldspar porphyry
	1.8-3.8	ST-9-1083	Silicified feldspar porphyry
	3.8-6.0	ST-9-1083	Pyritic, silicified feldspar porphyry
	6.0-7.0	ST-9-1084	Pyritic feldspar porphyry
#10	6.5	ST-10-1085	Quartz stringer zone width - 0.8 m
	8.0	ST-10-1086	Silicious zone width - 1.0 m
	12.0	ST-10-1087	Silicious zone width - 1.0 m
	16.0	ST-10-1088	Silicious zone width - 1.0 m
	25.0	ST-10-1089	Breccia zone width - 0.8 m

TEST PITS - SAMPLE NOTES OF REPRESENTATIVE MATERIAL

- XP-85-101 - Quartz veined aplite
- XP-85-102 - Quartz veined aplite
- XP-85-103 - Brecciated aplite, quartz veining, galena
- XP-85-104 - Silicified feldspar porphyry, galena
- XP-85-105 - Brecciated feldspar porphyry
- XP-85-106 - Silicified, shattered feldspar porphyry
- XP-85-107 - Epidotized, silicified feldspar porphyry
- XP-85-108 - Epidotized, silicified feldspar porphyry, galena
- XP-85-109 - Pyritic feldspar porphyry
- XP-85-110 - Quartz vein (1.0 metre width)
- XP-85-111 - Quartz vein (0.8 metre width)
- XP-85-112 - Pyritic feldspar porphyry
- XP-85-113 - Pyritic feldspar porphyry
- XP-85-114 - Clay altered aplite, pyritic
- XP-85-115 - Silicified feldspar porphyry
- XP-85-116 - Silicified feldspar porphyry
- XP-85-117 - Amethyst - quartz breccia, pyrite
- XP-85-118 - Amethyst - quartz breccia
- XP-85-119 - Silicified zone, massive quartz
- XP-85-120 - Silicified zone, massive quartz
- XP-85-121 - Silicified feldspar porphyry
- XP-85-122 - Quartz breccia
- XP-85-123 - Quartz vein, silicified feldspar porphyry
- XP-85-124 - Feldspar porphyry
- XP-85-125 - Feldspar porphyry, quartz veinlets
- XP-85-126 - Silicified feldspar porphyry
- XP-85-127 - Epidotized aplite
- XP-85-128 - Brecciated aplite
- XP-85-129 - Brecciated aplite
- XP-85-130 - Epidotized aplite
- XP-85-131 - Quartz breccia, feldspar porphyry
- XP-85-132 - Quartz breccia

GEOCHEMICAL SAMPLES

- E-85-001 - Silt, gravel, organic, active
- 002 - Silt, gravel, clay, active
- 003 - Rock - silicified feldspar porphyry
- 004 - Silt, organic, gravel
- 005 - Silt, organic, gravel
- 006 - Silt, organic
- 007 - Silt, gravel, organic
- 008 - Silt
- 009 - Silt, gravel, organic
- 010 - Silt, gravel, organic
- 011 - Silt, gravel
- 012 - Soil - B - Horizon, sustut frags.
- 013 - Soil - B - Horizon, sustut frags.
- 014 - Silt, gravel
- 015 - Soil, dry swamp, loam
- 016 - Soil - B - feldspar proph. frags.
- 017 - Soil - B - feldspar porph.
- 018 - Soil - B - sustut, feldspar porph.
- 019 - Soil - B - feldspar porph.
- 020 - Soil - B - feldspar porph.
- 021 - Soil - B - sustut, feldspar porph.
- 022 - Soil - B
- 023 - Soil - feldspar porph. sustut
- 024 - Soil - B - feldspar porph. sustut
- 025 - Soil - loam
- 026 - Soil - B - feldspar porph.
- 027 - Soil - B - sustut, feldspar porph.
- 028 - Swamp, loam, organic
- 029 - Swamp
- 030 - Swamp

GEOCHEMICAL SAMPLES, contd.

E-85-031 - Soil - B - feldspar porphyry  
032 - Soil - B - feldspar porphyry sustut  
033 - Soil - B - feldspar porphyry  
034 - Soil - B - jarositic  
035 - Soil - B - feldspar porphyry  
036 - Soil - B - feldspar porphyry, sustut  
037 - Soil - B - feldspar porphyry, sustut  
038 - Swamp, loam  
039 - Swamp, loam  
040 - Soil - B - feldspar porphyry  
041 - Soil - B - feldspar porphyry, sustut  
042 - Soil - B - feldspar porphyry, sustut  
043 - Soil - B - feldspar porphyry  
044 - Soil - B - feldspar porphyry  
045 - Soil - B - silicified feldspar porphyry  
046 - Soil - B - Sustut, feldspar porphyry  
047 - Soil - brown loam  
048 - Swamp - loam  
049 - Soil - B - feldspar porphyry  
050 - Soil - B - feldspar porphyry  
051 - Rock - o/c silicified feldspar porphyry, pyrite  
052 - Soil - loam, organic  
053 - Soil - B - feldspar porphyry  
054 - Soil - loam, feldspar porphyry  
055 - Soil - B - sustut, feldspar porphyry  
056 - Soil - B - feldspar porphyry  
057 - Swamp, peat  
058 - Soil - B - sustut, feldspar porphyry  
059 - Soil - B - sustut, feldspar porphyry  
060 - Soil - B - sustut, feldspar porphyry

GEOCHEMICAL SAMPLES, contd.

- E-85-061 - Soil - B - feldspar porphyry
- 062 - Soil - B - feldspar porphyry
- 063 - Soil - B - sustut, feldspar porphyry
- 064 - Soil - B - sustut, feldspar porphyry
- 065 - Soil - B - sustut, feldspar porphyry
- 066 - Soil - B - sustut
- 067 - Soil - B - sustut
- 068 - Soil - B - feldspar porphyry
- 069 - Soil - B - sustut
- 070 - Soil - B - sustut
- 071 - Black loam
- 072 - Black loam, sustut
- 073 - Black loam
- 074 - Swamp, black loam
- 075 - Silt, clay, organic active
- 076 - Silt, clay active
- 077 - Silt, sand, gravel, organic
- 078 - Soil, black loam
- 079 - Soil, black loam
- 080 - Swamp, black loam
- 081 - Soil - B - sustut
- 082 - Soil - B - sustut
- 083 - Soil - B - feldspar porphyry
- 084 - Soil - B - sustut
- 085 - Soil - B - sustut
- 086 - Soil - B - feldspar porphyry
- 087 - Soil - B - sustut, feldspar porphyry
- 088 - Soil - B - sustut, feldspar porphyry
- 089 - Silt, sand, clay, gravel active
- 090 - Soil - B - sustut



GEOCHEMICAL SAMPLES, contd.

- E-85-091 - Soil - B - sustut
- 092 - Soil - B - feldspar porphyry
- 093 - Soil - B - sustut, feldspar porphyry
- 094 - Soil - B - sustut, feldspar porphyry
- 095 - Soil - B - sustut, feldspar porphyry
- 096 - Soil - B - feldspar porphyry
- 097 - Soil - B - feldspar porphyry
- 098 - Soil - B
- 099 - Silt, active
- 100 - Silt, organic dry creek
- 101 - Soil - B - feldspar porphyry, sustut
- 102 - Soil - B - feldspar porphyry, sustut
- 103 - Soil - B - feldspar porphyry, sustut
- 104 - Soil - B - feldspar porphyry, sustut
- 105 - Soil - B - feldspar porphyry, sustut
- 106 - Soil - B - feldspar porphyry, sustut
- 107 - Swamp, loam
- 108 - Swamp, clay, iron staining on rocks
- 109 - Soil - brown loam, feldspar porphyry
- 110 - Soil, feldspar porphyry
- 111 - Swamp, brown loam, peat
- 112 - Swamp, black iron staining on rocks
- 113 - Soil - B - sustut, feldspar porphyry
- 114 - Soil - B - feldspar porphyry
- 115 - Soil - B - feldspar porphyry, sustut
- 116 - Soil - B - feldspar porphyry
- 117 - Soil - B - feldspar porphyry, sustut
- 118 - Soil - brown loam
- 119 - Soil - B - feldspar porphyry
- 120 - Soil - B - loam

GEOCHEMICAL SAMPLES, contd.

- E-85-121 - Soil - B - sustut
- 122 - Rock, aplite, fine grained orange
- 123 - Soil - B - sustut, aplite, feldspar porphyry
- 124 - Soil - B - sustut, feldspar porphyry
- 125 - Soil - B - loam, sustut, feldspar porphyry
- 126 - Soil - B - feldspar porphyry, sustut
- 127 - Soil - B - feldspar porphyry, sustut
- 128 - Soil, loam, sustut, feldspar porphyry
- 129 - Soil - B - sustut, feldspar porphyry
- 130 - Soil - B - feldspar porphyry
- 131 - Soil - B - feldspar porphyry
- 132 - Soil - loam
- 133 - Soil - B - feldspar porphyry, sustut
- 134 - Soil - black loam
- 135 - Soil - B - feldspar porphyry
- 136 - Soil - B - feldspar porphyry, sustut
- 137 - Soil - B - feldspar porphyry, sustut
- 138 - Soil - B - sustut
- 139 - Soil - B - Sustut, feldspar porphyry
- 140 - Soil - loam, feldspar porphyry, sustut
- 141 - Soil - B - feldspar porphyry
- 142 - Soil - B - sustut, feldspar porphyry
- 143 - Soil - B - feldspar porphyry
- 144 - Soil - B - feldspar porphyry
- 145 - Soil - B - sustut
- 146 - Soil - B - possible fault zone
- 147 - Soil - B - feldspar porphyry
- 148 - Soil - B - feldspar porphyry
- 149 - Black loam silicified, epidotized feldspar porphyry
- 150 - Black loam, feldspar porphyry, sustut

GEOCHEMICAL SAMPLES, contd.

- E-85-151 - Soil - B - feldspar porphyry, sustut
- 152 - Silt, organic, active
- 153 - Soil - B - epidotized feldspar porphyry
- 154 - Soil - B - feldspar porphyry, galena
- 155 - Silt, organic, active
- 156 - Silt, organic, active
- 157 - Silt, dry gully organic
- 158 - Rock, feldspar porphyry epidotized, galena
- 159 - Silt, dry gully loam
- 160 - Soil - B - pyritic, feldspar porphyry
- 161 - Silt, organic

## DISCUSSION OF RESULTS

Previous work in 1983 on the property had resulted in the discovery of a strongly developed west dipping quartz-amethyst breccia trenching generally north over a strike distance of approximately 475 metres and a width of 25 metres. A subsidiary east dipping structure was discovered west of the main structure both of which apparently open to the south.

The purpose of the 1985 program was to determine by blasting test pits and trenches if the silicious structures were carrying gold and silver at surface and to explore beneath shallow overburden for additional mineral occurrences.

### SIGNIFICANT ASSAYS

The following results were considered to be highly significant in the evaluation of the property.

	<u>Au/oz/ton</u>	<u>Ag/oz/ton</u>	<u>Description</u>
Tr. #3 ST-3-83-1041	0.02	0.14	2-metre width - silicious gouge
ST-3-85-1042	0.26	0.19	1.7-metre width - silicious gouge
ST-3-85-1043	0.422	0.24	1.2-metre width - silicious gouge
Tr. #7 ST-7-85-1073	0.205	1.61	2.4 metres - silicious gouge
ST-7-85-1074	0.121	0.51	2 metres - gouge and dyke
Test Pits XP-85-104	0.012	0.76	Silicified feldspar porphyry
XP-85-106	0.033	0.05	Silicified feldspar porphyry
XP-85-109	0.016	0.09	Pyritic feldspar porphyry
XP-85-110	0.008	0.11	Quartz vein
XP-85-112	0.008	0.05	Pyritic feldspar porphyry
XP-85-115	0.009	0.09	Silicified feldspar porphyry
XP-85-124	0.017	0.08	Feldspar porphyry
XP-85-125	0.039	0.09	Silicified feldspar porphyry
E-85-017	75 ppb	0.03 ppm	Soil sample
E-85-099	5 ppb	2.2 ppm	Silt sample
E-85-107	10 ppb	3.1 ppm	Swamp
E-85-155	<5 ppb	4.0 ppm	Silt
E-85-156	<5 ppb	2.2 ppm	Silt
E-85-159	5 ppb	3.5 ppm	Silt
E-85-160	35 ppb	2.0 ppm	Soil
E-85-161	25 ppb	3.4 ppm	Soil
RE-85-051	320 ppb	9.8 ppm	Rock

Background geochemical values for gold and silver in silt and soil were considered to be less than 5 ppm Au and less than 0.02 ppm Ag. Anomalous values were considered to be greater than 20 ppb Au and 2.0 ppm Ag. In interpreting the anomalous silver values in some swampy environments, consideration must be given to the possibility of geochemical enrichment due to the influence of high organics.

Background values for gold and silver in rock were considered to be less than .002 oz. per ton Au and less than .03 oz. per ton Ag.

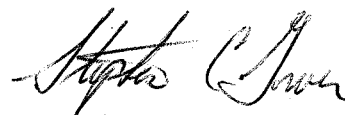
#### CONCLUSIONS

The quartz-amethyst breccia structure on the Golden Stranger property is definitely carrying anomalous concentrations of gold and silver. In addition to specific high assay values over significant widths (i.e., ST-3-85-1043), numerous lower values in the 0.002-0.004 range indicate the system is gold positive over greater widths.

#### RECOMMENDATIONS

Surface trenching over the main zones should be completed utilizing explosives or a small bulldozer-backhoe. Geophysical surveys, magnetics, and VLF-EM should be carried out to identify general rock types, possibly the alteration of rocks and resistivity anomalies under shallow drift cover.

After successful completion of this program, consideration should be given to diamond drilling to test for economic concentrations of gold and silver at depth.





STATEMENT OF COSTS

FIELD PERSONNEL:

S. C. Gower, August 6 - October 17, 1985 -	
46 person-days @ \$200/day	\$ 9,200.00
3 person-days @ \$125/day	375.00
E. M. Thompson, August 6 - October 17, 1985 -	
49 person-days @ \$100	4,900.00

FOOD & ACCOMMODATIONS 2,251.28

MOBILIZATION/DEMOBILIZATION 1,014.00

AIRCRAFT SUPPORT 4,352.00

EQUIPMENT & SUPPLIES 2,590.94

LABORATORY ANALYSIS 3,408.00

REPORT PREPARATION 1,000.00

TOTAL: \$ 29,091.22

=====

*Stephen C. Brown*



CERTIFICATE

I, Stephen C. Gower, of 985 Gatensbury Street, Coquitlam, B. C., do hereby certify that:

1. I have been practising as a geologist for a period of approximately 16 years for mining exploration and consulting companies.
2. I obtained a B.Sc. in geology from U.B.C. in 1970 and have taken Masters courses in property evaluation and exploration.
3. I am a fellow in the Geological Association of Canada.
4. The exploration work in the report was carried out by S. C. Gower and E. M. Thompson in the period August 1 to September 30, 1985.
5. I am a shareholder and director of Western Horizons Resources Ltd., owner of the Golden Stranger claims.
6. I consent to the use of this report in, or in connection with a prospectus relating to the raising of funds.

Stephen C. Gower



## REFERENCES

Diakow, L.J.; Panteleyev, A.; Schroeter, T.G.; Geology of the Toodoggone River Area, NTS 94E, MEMPR Preliminary Map 61, August 1985

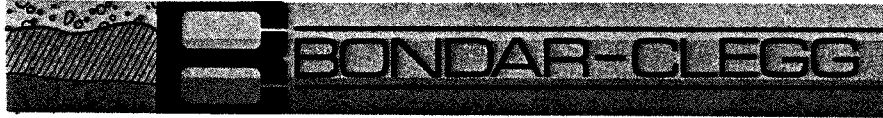
MEMPR Assessment Report #      Report on Exploration During 1983 on the Golden Stranger Claims by Northcote and Gower, November 30 1983

APPENDIX A

ASSAY SHEETS

Bondar-Clegg & Company Ltd.

130 Pemberton Ave.  
North Vancouver, B.C.  
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Phone: (604) 983-0681  
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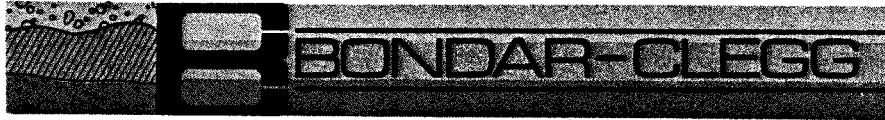


**Geochemical  
Lab Report**

OWEN THOMPSON & ASSOCIATES.  
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**Geochemical  
 Lab Report**

REPORT: 125-3004 ( COMPLETE )

REFERENCE INFO:

CLIENT: GOWER THOMPSON & ASSOCIATES.  
 PROJECT: NONE GIVEN

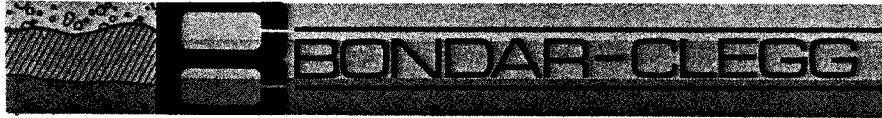
SUBMITTED BY: UNKNOWN  
 DATE PRINTED: 9-OCT-85

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Ag Silver	161	0.2 PPM	HNO3-HCL HOT EXTR	Atomic Absorption
2	Au Gold - Fire Assay	161	5 PPM	FIRE-ASSAY	Fire Assay AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOILS	155	1 -80	157	DRY, SEIVE -80	157
T STREAM SEDIMENT, SILT	2	2 -150	4	CRUSH, PULVERIZE -150	4
Z ROCK OR BEN ROCK	4				

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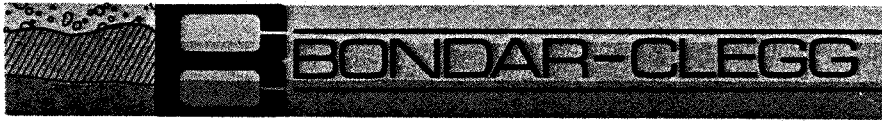
REPORT: 125-3004

PROJECT: NONE GIVEN

PAGE: 1

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SI E-85-001		0.4	<5	SI E-85-044		0.3	<5
SI E-85-002		0.3	5	SI E-85-045		0.2	<5
SI E-85-005		<0.2	<5	SI E-85-046		0.2	5
SI E-85-006		<0.2	<5	SI E-85-047		0.6	<5
SI E-85-007		<0.2	<5	SI E-85-048		2.8	20
SI E-85-008		<0.2	<5	SI E-85-049		0.2	<5
SI E-85-009		0.2	<5	SI E-85-050		0.3	<5
SI E-85-010		0.6	5	SI E-85-052		0.2	<5
SI E-85-011		<0.2	<5	SI E-85-053		0.3	<5
SI E-85-012		<0.2	<5	SI E-85-054		0.3	<5
SI E-85-013		<0.2	<5	SI E-85-055		<0.2	<5
SI E-85-015		1.2	5	SI E-85-056		<0.2	<5
SI E-85-016		0.2	<5	SI E-85-057		0.6	5
SI E-85-017		0.3	75	SI E-85-058		<0.2	<5
SI E-85-018		0.3	<5	SI E-85-059		0.6	<5
SI E-85-019		0.2	5	SI E-85-060		<0.2	<5
SI E-85-020		0.2	<5	SI E-85-061		0.3	<5
SI E-85-021		0.2	<5	SI E-85-062		<0.2	<5
SI E-85-022		<0.2	5	SI E-85-063		<0.2	<5
SI E-85-023		0.2	<5	SI E-85-064		<0.2	<5
SI E-85-024		<0.2	5	SI E-85-065		<0.2	<5
SI E-85-025		0.3	<5	SI E-85-066		<0.2	<5
SI E-85-026		<0.2	<5	SI E-85-067		<0.2	<5
SI E-85-027		0.2	10	SI E-85-068		<0.2	<5
SI E-85-028		1.5	10	SI E-85-069		<0.2	<5
SI E-85-029		0.6	10	SI E-85-070		<0.2	<5
SI E-85-030		0.4	10	SI E-85-071		0.2	<5
SI E-85-031		0.5	<5	SI E-85-072		0.4	<5
SI E-85-032		<0.2	5	SI E-85-073		0.6	<5
SI E-85-033		0.2	<5	SI E-85-074		0.7	<5
SI E-85-034		<0.2	10	SI E-85-075		0.4	<5
SI E-85-035		0.4	<5	SI E-85-076		0.2	<5
SI E-85-036		<0.2	<5	SI E-85-077		<0.2	5
SI E-85-037		<0.2	5	SI E-85-078		<0.2	<5
SI E-85-038		<0.2	5	SI E-85-079		0.5	5
SI E-85-039		0.5	10	SI E-85-080		0.4	<5
SI E-85-040		0.7	5	SI E-85-081		0.2	<5
SI E-85-041		0.4	5	SI E-85-082		0.2	<5
SI E-85-042		<0.2	<5	SI E-85-083		0.2	<5
SI E-85-043		<0.2	<5	SI E-85-084		0.2	<5





REPORT: 125-3004

PROJECT: NONE GIVEN

PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Au PPB
S1 E-85-085		0.2	<5	S1 E-85-126		<0.2	<5
S1 E-85-086		<0.2	<5	S1 E-85-127		<0.2	<5
S1 E-85-087		<0.2	<5	S1 E-85-128		<0.2	5
S1 E-85-088		0.6	<5	S1 E-85-129		0.3	<5
S1 E-85-089		<0.2	<5	S1 E-85-130		<0.2	<5
S1 E-85-090		0.4	<5	S1 E-85-131		0.2	<5
S1 E-85-091		<0.2	<5	S1 E-85-132		0.3	<5
S1 E-85-092		<0.2	<5	S1 E-85-133		<0.2	5
S1 E-85-093		<0.2	<5	S1 E-85-134		1.5	<5
S1 E-85-094		0.2	<5	S1 E-85-135		0.4	<5
S1 E-85-095		<0.2	<5	S1 E-85-136		<0.2	5
S1 E-85-096		<0.2	<5	S1 E-85-137		<0.2	15
S1 E-85-097		0.3	<5	S1 E-85-138		0.8	35
S1 E-85-098		0.2	<5	S1 E-85-139		0.4	15
S1 E-85-099		2.2	5	S1 E-85-140		<0.2	5
S1 E-85-100		0.3	<5	S1 E-85-141		<0.2	5
S1 E-85-101		<0.2	<5	S1 E-85-142		<0.2	<5
S1 E-85-102		0.3	<5	S1 E-85-143		0.3	<5
S1 E-85-103		<0.2	15	S1 E-85-144		<0.2	<5
S1 E-85-104		0.3	10	S1 E-85-145		<0.2	<5
S1 E-85-105		<0.2	5	S1 E-85-146		0.2	<5
S1 E-85-106		<0.2	<5	S1 E-85-147		0.2	5
S1 E-85-107		3.1	10	S1 E-85-148		0.2	<5
S1 E-85-108		0.4	10	S1 E-85-149		0.3	<5
S1 E-85-109		1.1	5	S1 E-85-150		0.3	<5
S1 E-85-110		0.3	<5	S1 E-85-151		0.2	<5
S1 E-85-111		0.5	10	S1 E-85-152		0.6	<5
S1 E-85-112		0.4	10	S1 E-85-153		<0.2	<5
S1 E-85-113		0.2	5	S1 E-85-154		0.2	<5
S1 E-85-114		0.2	<5	S1 E-85-155		4.0	<5
S1 E-85-115		0.4	<5	S1 E-85-156		2.2	<5
S1 E-85-116		0.2	10	S1 E-85-157		0.8	<5
S1 E-85-117		0.4	5	S1 E-85-159		3.5	5
S1 E-85-118		0.5	5	S1 E-85-160		2.0	35
S1 E-85-119		<0.2	5	S1 E-85-161		3.4	25
S1 E-85-120		<0.2	<5	T1 E-85-004		0.3	<5
S1 E-85-121		<0.2	5	T1 E-85-014		0.3	<5
S1 E-85-123		<0.2	<5	R2 E-85-003		0.9	<5
S1 E-85-124		<0.2	<5	R2 E-85-051		9.8	320
S1 E-85-125		0.2	5	R2 E-85-122		<0.2	<5





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**Certificate  
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## Certificate of Analysis

REPORT: 425-3004 ( COMPLETE )

REFERENCE INFO:

CLIENT: GOWER THOMPSON & ASSOCIATES.  
PROJECT: NONE GIVEN

SUBMITTED BY: UNKNOWN  
DATE PRINTED: 2-OCT-85

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold - FIRE ASSAY	121	0.001 OPT		
2	Ag Silver	121	0.01 OPT		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR RED ROCK	121	2 -150	121	ASSAY PREP	121

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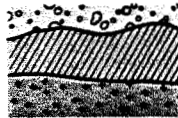
REPORT: 425-3004

PROJECT: NONE GIVEN

PAGE 1

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R2 ST-1-85-1001		<0.002	0.04	R2 ST-3-85-1041		0.020	0.14
R2 ST-1-85-1002		0.002	0.07	R2 ST-3-85-1042		0.260	0.19
R2 ST-1-85-1003		0.003	0.05	R2 ST-3-85-1043		0.422	0.24
R2 ST-1-85-1004		0.004	0.08	R2 ST-4-85-1044		0.002	0.02
R2 ST-1-85-1005		<0.002	0.07	R2 ST-4-85-1045		0.004	<0.02
R2 ST-1-85-1006		0.002	0.02	R2 ST-4-85-1046		0.007	<0.02
R2 ST-1-85-1007		0.002	0.06	R2 ST-4-85-1047		0.005	0.04
R2 ST-1-85-1008		<0.002	0.05	R2 ST-4-85-1048		<0.002	0.02
R2 ST-1-85-1009		0.002	0.03	R2 ST-4-85-1049		0.003	0.03
R2 ST-1-85-1010		<0.002	0.04	R2 ST-4-85-1050		0.002	0.02
R2 ST-1-85-1011		0.002	0.03	R2 ST-4-85-1051		0.002	0.02
R2 ST-1-85-1012		0.002	0.03	R2 ST-4-85-1052		<0.002	<0.02
R2 ST-1-85-1013		0.002	0.06	R2 ST-4-85-1053		<0.002	<0.02
R2 ST-2-85-1014		<0.002	0.05	R2 ST-4-85-1054		0.004	0.02
R2 ST-2-85-1015		0.004	0.25	R2 ST-4-85-1055		<0.002	0.02
R2 ST-2-85-1016		<0.002	0.04	R2 ST-4-85-1056		0.002	0.02
R2 ST-2-85-1017		0.010	0.10	R2 ST-4-85-1057		0.002	0.02
R2 ST-2-85-1018		0.002	0.03	R2 ST-4-85-1058		0.002	0.02
R2 ST-2-85-1019		0.002	0.05	R2 ST-4-85-1059		0.005	0.07
R2 ST-2-85-1020		<0.002	<0.02	R2 ST-4-85-1060		0.004	0.04
R2 ST-2-85-1021		<0.002	0.05	R2 ST-4-85-1061		0.003	0.05
R2 ST-2-85-1022		<0.002	0.03	R2 ST-4-85-1062		0.006	0.07
R2 ST-2-85-1023		0.004	0.05	R2 ST-4-85-1063		0.004	0.06
R2 ST-2-85-1024		<0.002	0.02	R2 ST-4-85-1064		0.003	0.06
R2 ST-2-85-1025		0.002	0.04	R2 ST-5-85-1065		<0.002	0.05
R2 ST-2-85-1026		<0.002	0.06	R2 ST-5-85-1066		0.003	0.10
R2 ST-3-85-1027		<0.002	0.04	R2 ST-5-85-1067		0.004	0.04
R2 ST-3-85-1028		<0.002	0.02	R2 ST-5-85-1068		0.004	0.05
R2 ST-3-85-1029		<0.002	0.03	R2 ST-6-85-1069		0.003	0.03
R2 ST-3-85-1030		<0.002	0.03	R2 ST-6-85-1070		0.006	0.02
R2 ST-3-85-1031		0.002	0.04	R2 ST-6-85-1071		0.003	0.05
R2 ST-3-85-1032		<0.002	0.04	R2 ST-6-85-1072		0.003	0.04
R2 ST-3-85-1033		0.004	0.04	R2 ST-7-85-1073		0.205	1.61
R2 ST-3-85-1034		0.004	0.02	R2 ST-7-85-1074		0.121	0.51
R2 ST-3-85-1035		0.002	0.06	R2 ST-7-85-1075		<0.002	0.06
R2 ST-3-85-1036		0.010	0.05	R2 ST-7-85-1076		<0.002	0.04
R2 ST-3-85-1037		<0.002	0.05	R2 ST-8-85-1077		<0.002	0.07
R2 ST-3-85-1038		0.005	0.34	R2 ST-8-85-1078		0.005	0.00
R2 ST-3-85-1039		0.002	0.13	R2 ST-8-85-1079		0.003	0.03
R2 ST-3-85-1040		0.004	0.06	R2 ST-8-85-1080		<0.002	<0.02





REPORT: 425-3004

PROJECT: NONE GIVEN

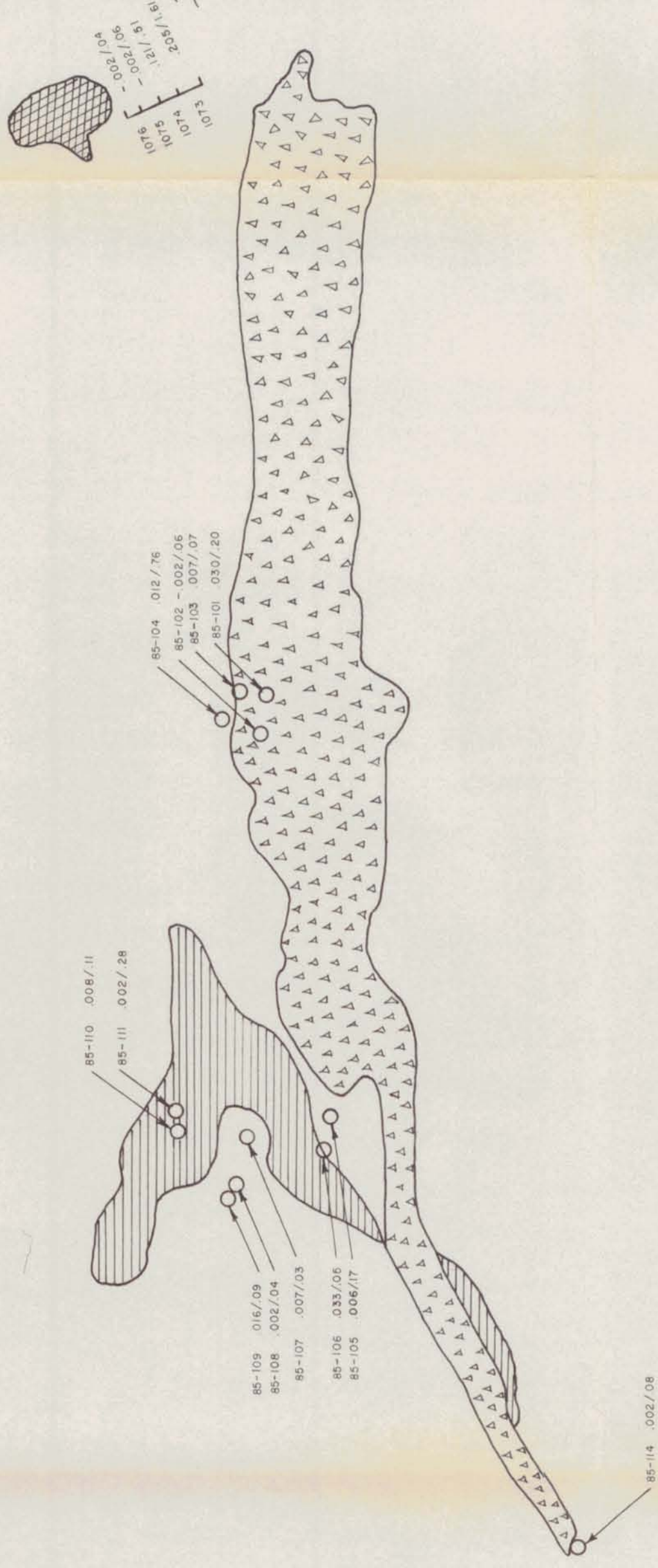
PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
R2 ST-9-85-1081		<0.002	0.04	R2 XP-85-132		<0.002	0.02
R2 ST-9-85-1082		0.002	0.05				
R2 ST-9-85-1083		<0.002	0.07				
R2 ST-9-85-1084		<0.002	<0.02				
R2 ST-10-85-1085		0.003	0.03				
R2 ST-10-85-1086		0.002	0.02				
R2 ST-10-85-1087		0.002	<0.02				
R2 ST-10-85-1088		0.004	0.03				
R2 ST-10-85-1089		<0.002	<0.02				
R2 XP-85-101		0.030	0.20				
R2 XP-85-102		<0.002	0.06				
R2 XP-85-103		0.007	0.07				
R2 XP-85-104		0.012	0.76				
R2 XP-85-105		0.006	0.17				
R2 XP-85-106		0.033	0.05				
R2 XP-85-107		0.007	0.03				
R2 XP-85-108		0.002	0.04				
R2 XP-85-109		0.016	0.09				
R2 XP-85-110		0.008	0.11				
R2 XP-85-111		0.002	0.28				
R2 XP-85-112		0.008	0.05				
R2 XP-85-113		0.003	0.05				
R2 XP-85-114		0.002	0.08				
R2 XP-85-115		0.009	0.09				
R2 XP-85-116		0.003	0.06				
R2 XP-85-117		0.004	0.04				
R2 XP-85-118		0.003	<0.02				
R2 XP-85-119		<0.002	<0.02				
R2 XP-85-120		<0.002	<0.02				
R2 XP-85-121		0.006	0.06				
R2 XP-85-122		0.002	0.04				
R2 XP-85-123		0.006	0.05				
R2 XP-85-124		0.017	0.08				
R2 XP-85-125		0.039	0.09				
R2 XP-85-126		0.005	0.07				
R2 XP-85-127		<0.002	0.12				
R2 XP-85-128		<0.002	0.14				
R2 XP-85-129		<0.002	<0.02				
R2 XP-85-130		<0.002	0.02				
R2 XP-85-131		0.004	0.02				



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- APLITE SOMETIMES BRECCIATED & VEINED WITH QTZ & CALCITE
- QTZ VEIN IN QTZ BRECCIA
- STRONGLY DEVELOPED QTZ BRECCIA ZONE
- WEAKLY DEVELOPED QTZ BRECCIA ZONE IN GREY FELDSPAR PORPHYRY
- GREY FELDSPAR PORPHYRY
- FAULT ZONE
- BS-105 - TEST PIT
- TR-4 - TRENCH

1064 - .003 f. 06  
 027/TON Au  
 027/TON Au  
 SAMPLE NO.

**13,927**

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

TOODOGGONE JOINT VENTURE	
GOLDEN STRANGER PROPERTY	
TRENCH & TEST PIT LOCATIONS DETAILED GEOLOGY, ASSAY PLAN	
FIGURE: 5	SCALE: 1:500
DRAWN BY: SCG EMT.	DATE: NOV. 1985
 SCALE IN METRES	



1W LCP IE 2E 3E



1W 1S 1S 3E

1W 2S 2S 3E

1W 3S 3S 2E 3S 3E



- QUARTZ BRECCIA ZONE
- APLITE
- FELDSPAR PORPHYRY
- FAULT
- SWAMP
- CREEK
- CAIRN LOCATION
- X - SOIL SAMPLE ppb Au/ppm Ag
- - SILT SAMPLE ppb Au/ppm Ag
- XP - TEST PIT OZ/TON Au OZ/TON Ag

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,927**

TOODOGGONE JOINT VENTURE	
GOLDEN STRANGER PROPERTY GEOCHEMISTRY, GEOLOGY, CLAIM BOUNDRY	
FIGURE: 6	SCALE: 1:2500
DRAWN BY: SCG, E.M.T.	DATE: NOV. 1985
 SCALE IN METERS	