

GROUNDHOG EXPLORATION

MAIDEN CREEK

FORTY MILE DISTRICT

YUKON

NTS 116-C-7

094343

GEOLOGY and GEOCHEMISTRY REPORT

OAQ QUARTZ CLAIMS 1 to 21 & 19-22

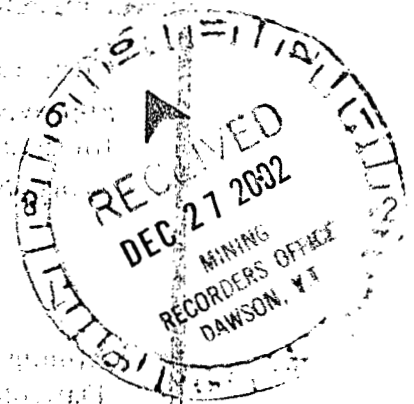
YC 21101 to YC 21124⁰⁸ year 119-122

Bounded by coordinates:

64° 22' 37"	140° 36' 42"
64° 21' 55"	140° 36' 20"
64° 21' 20"	140° 37' 45"
64° 21' 21"	140° 32' 30"

ANGUS WOODSEND

12 December 2002



This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 240.00

M. B. ...
for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

Costs associated with this report have been
approved in the amount of \$ 240.00
for assessment credit under Certificate of
work No. QD 00428

K. Perry
Mining Recorder
Dawson City Mining District

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INTRODUCTION

This is a report summarizing the work done on the OAQ Quartz Claims on Maiden Creek in the Fortymile District of the Yukon (NTS 116-C-7) between October 2001 and October 2002.

The work was conducted primarily by Angus Woodsend, Geologist, with help from Cam Woodsend, both associated with Groundhog Exploration Co.

LOCATION AND ACCESS

Figure 1 shows access routes into the area.

The Clinton road runs from the Top Of The World Highway to the old Clinton townsite and mine site. It is an all weather gravel road open from May to October.

Two old Clinton Roads are shown. One is a winter cat trail running the length of the lower half of the left fork of Maiden Creek, the other is a predecessor of part of the present Clinton Road.

The trail marked FB is a firebreak crossing lower Maiden Creek, while the short trail up the right fork of Maiden Creek is probably related to firefighting.

The 2002 access road was constructed by Groundhog Exploration in the fall of 2002 to gain access to its placer claims on Maiden Creek and to a future camp site near the Maiden Creek forks.

PROPERTY

The Property consists of the OAQ Quartz Claims 1 to 26 with Grant Numbers YC21101 to YC21126, Located 10 to 21 October 2001, Recorded 23 October 2001 and Effective to 23 October 2002. They were located by Angus Woodsend and transferred 100% to Groundhog Exploration under Quartz Registered Document No. RD11496.

Figure 2 is a 1:50,000 scale map showing the claims and topography.

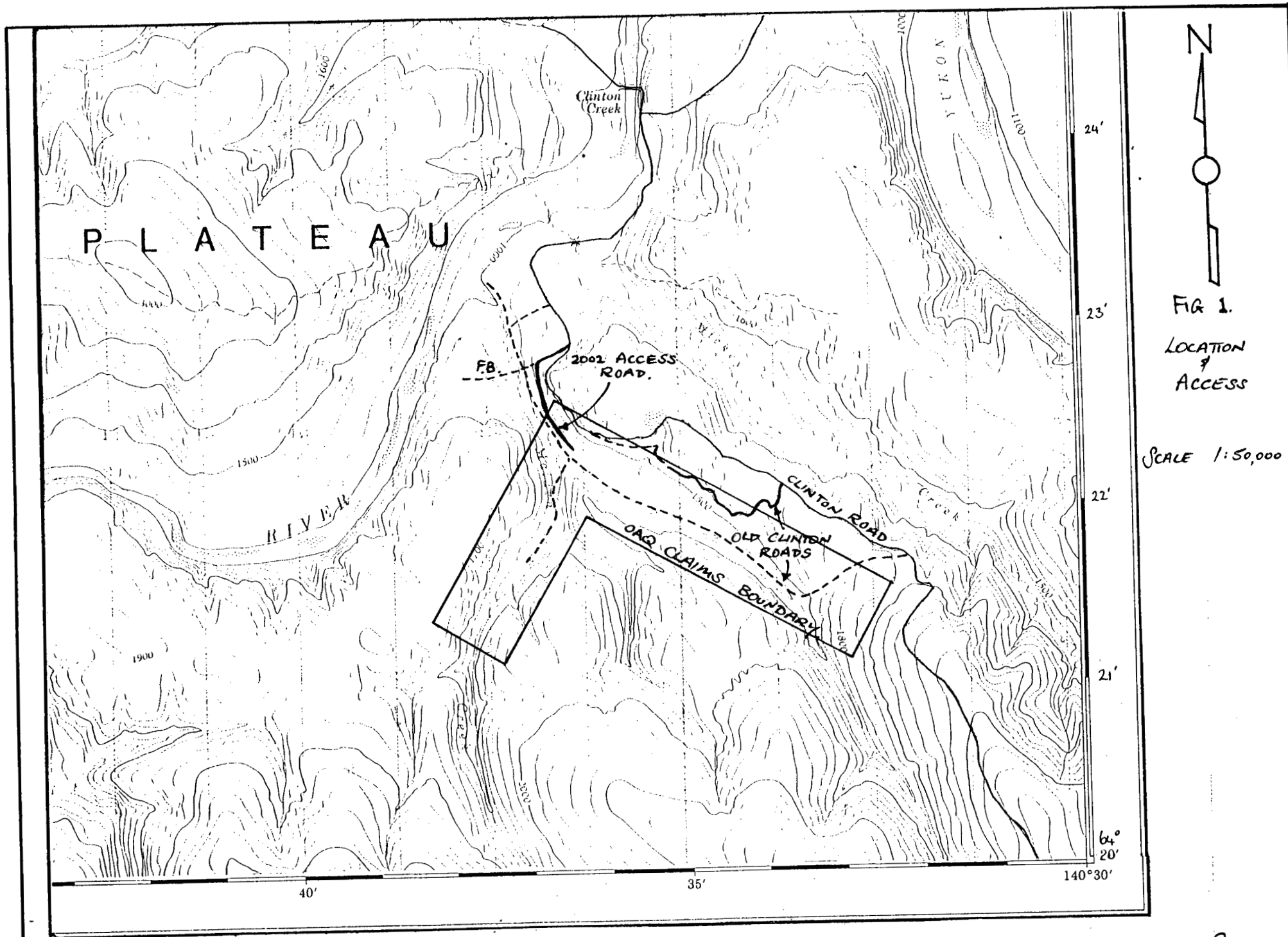
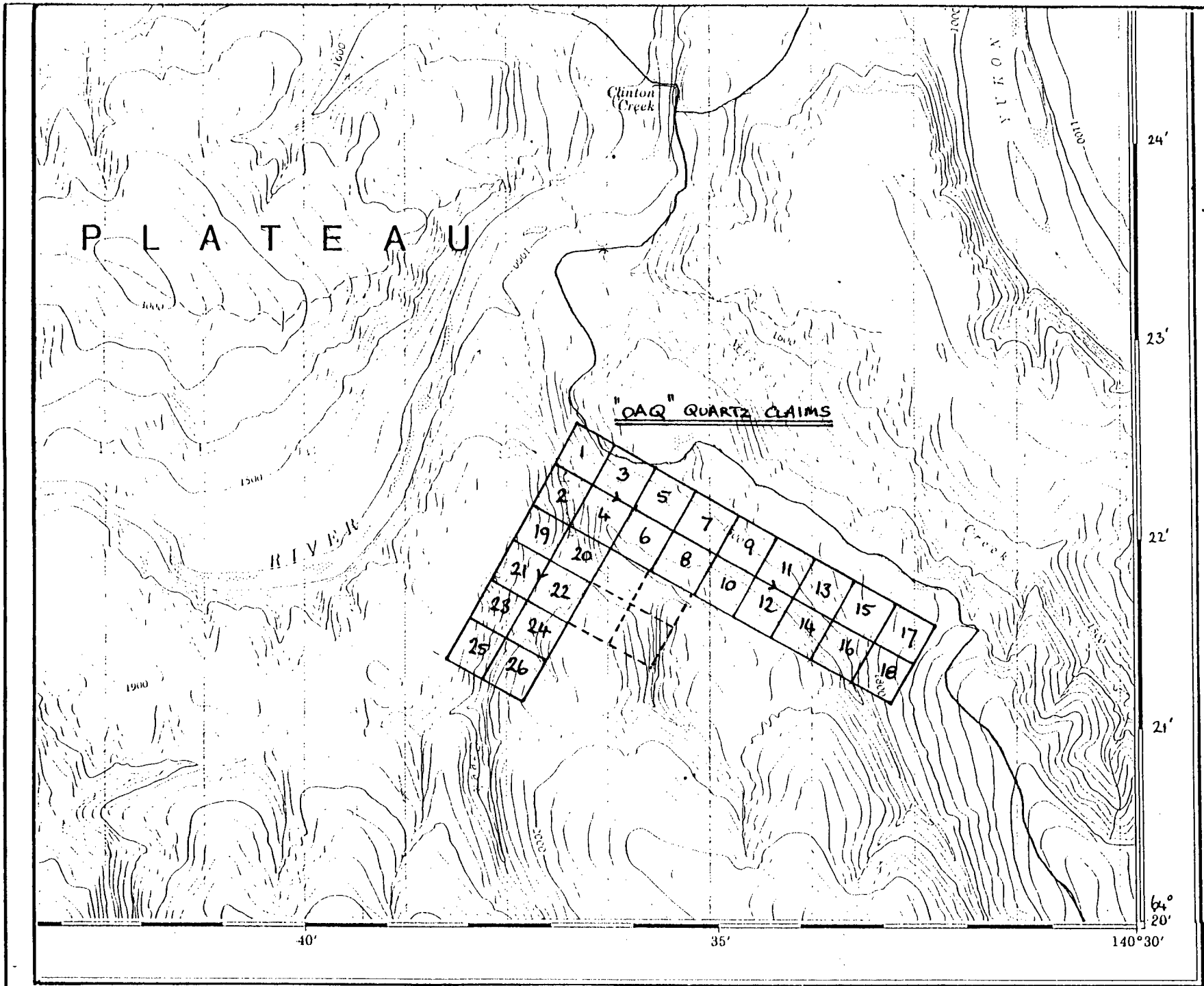


FIG 1.
 LOCATION
 &
 ACCESS

SCALE 1:50,000

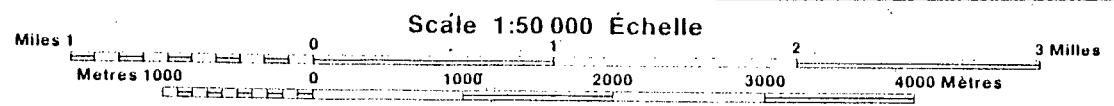


24'
23'
22'
21'
64° 20'

FIG 2.
GROUNDHOG
EXPLORATION.

QUARTZ
CLAIMS
STAKED
OAG 1 to 26
YC 21101 to
YC 21126

40' 35' 140°30'



J
D.

HISTORY

Gold was discovered on Franklin Bar on the Fortymile in 1886 (Yeend, 1996). This was the first discovery of coarse gold in the Yukon River drainage. Though most of the early workings were upstream in Alaskan territory, the settlements built at the mouth of the Fortymile to support the miners were in Canadian territory. Since it took two days to travel from the mouth of the river to the workings a roadhouse was established just upstream from the mouth of Bruin Creek at the halfway point.

As more miners came into the country and the shallow bars were mined out prospectors spread into the surrounding country and discovered gold on Miller, Glacier and Big Gold Creek in the Canadian Sixtymile District in 1892, and on Birch Creek, Alaska, in 1893. Gold may have been discovered on Marten Creek in these early years, though no written record has been found.

Most of these creeks were abandoned during the rush to the newly discovered Klondike in 1896.

Two gold dredges operated briefly on the Canadian portion of the Fortymile River, but both sank during floods. The remains of one of them can still be seen at the mouth of Bruin Creek.

Marten Creek was worked intermittently through to the 1930's, but overland access was always a problem in these early years.

The (re)discovery of asbestos in the Clinton Creek watershed in 1957 led to the construction of access trails and roads during mine development by Cassiar Asbestos in the early 1960's. The mine was closed in 1978.

Since then Fortymile Placers has mined placer gold on its various Fortymile River properties, and sporadic placer exploration has been conducted on Marten Creek and Bruin Creek.

There has been little hard rock exploration for minerals other than asbestos in the Fortymile District, and the only recorded prospect within the Maiden Creek drainage is the Tequila property (Yukon Minfile 116-C-7 #127 Type unknown).

Placer exploration was re-invigorated by W.Claxton in 1999. Recognising the similarity between the gravels exposed in the Clinton road borrow pits and the Klondike White Channel gravels he had two shafts sunk into the exposed gravels. In 2000 he commissioned an auger drill program to evaluate this gravel deposit.

The 2000 auger drilling, a similar program in 2001, and further drilling by Groundhog Exploration in 2002 has confirmed that there are significant placer gold values in the Maiden Creek watershed which are associated with relatively recent faulting. It is likely that this faulting is related to an intrusive event.

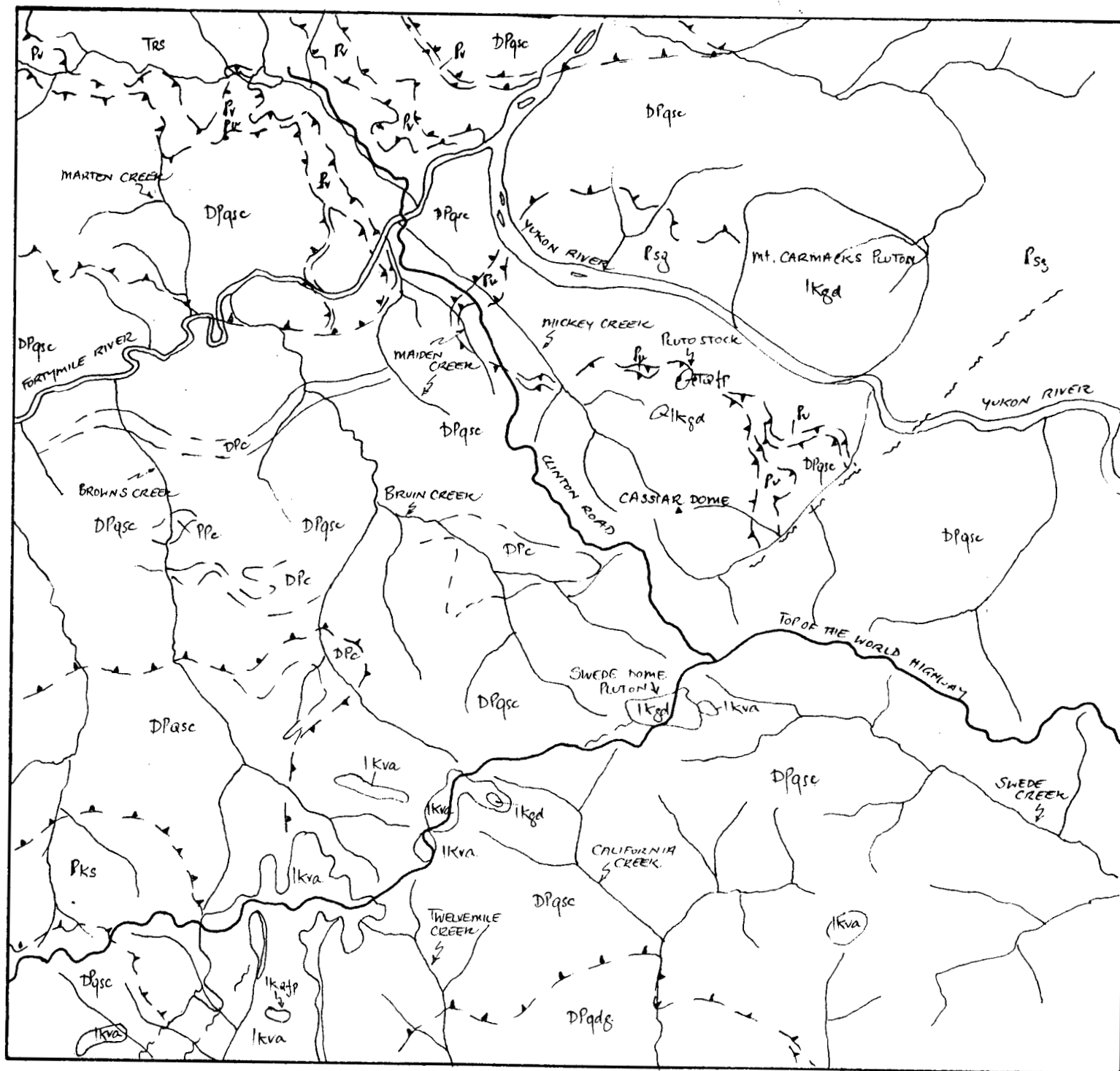
BEDROCK GEOLOGY

The lower Fortymile is underlain by greenschist to lower amphibolite facies metamorphic rocks of the Yukon - Tanana Terrane (Mortensen, 1988). Rocks in this terrane are of quartzitic, pelitic, calcic, and mafic metasediments that have been intruded by granitic rocks. Locally these intrusives have been dated from 69.8 Ma (Swede Dome pluton) to 59.4 Ma (Pluto stock) (Mortensen, 1988).

Figure 3 is a geology map of the general area taken from Mortensen (1988).

SURFICIAL GEOLOGY

Extensive gravel deposits are exposed in borrow pits along the Clinton Road between $64^{\circ} 22' 00''$, $140^{\circ} 33' 40''$ and $64^{\circ} 22' 20''$, $140^{\circ} 35' 50''$. It was these exposures that prompted Bill Claxton to shaft and later drill the gravels in 2000 and 2001. This work, in which the author was involved as driller-geologist, encountered gravels so similar to the Klondike White Channel Gravels that they were dubbed the Fortymile White Channel Gravels.



GEOLOGY

PARTS OF 116, B.C.

TERTIARY

eTajp Qtz-jeldspar porphyry

LATE CRETACEOUS

Ikva Andesite
Ikgd Granodiorite

TRIASSIC

TRS argillite, sandstone

PALEOZOIC

Pu serpentinite,
prehnite
DPaqc Nasina schists
DPe Nasina marble

after MORTENSEN J.K.

G.S.C. OPEN FILE 1927

SCALE 1:250,000

FIG 3.

NOV. 2001

P7

These gravels were deposited in a fault-bounded sedimentary basin which extended from the middle reaches of the present day Fortymile in Alaska to the present day Yukon valley just south of the mouth of the Fortymile. On the Maiden-Mickey divide this basin is 3.5 miles wide and the White Channel gravels themselves are more than 200 ft thick.

The somewhat restricted exposures of in-place gravel in the rehabilitated old Clinton road cut banks show a poorly sorted, poorly stratified pebbly quartz-rich gravel with a predominately sandy matrix. Well rounded quartz clasts make up more than 80% of the gravel.

The absence of chert in the gravels indicates that they were not derived from the limestone country to the northeast, but rather that they were deposited by a precursor to the present Fortymile which ran gently through a flat-lying basin from west to east depositing quartz-rich gravels in a wandering braided stream environment. Poorly defined imbrication also indicates deposition in a west to east flowing drainage.

AERIAL PHOTOGRAPH INTERPRETATION

Figure 4 shows an airphoto interpretation. The aerial photographs used were A27619 24 to 26, and A27619 51 to 55.

There are six main elements to the airphoto interpretation:

- 1) The fault - bounded sedimentary basin within the schist terrane in which the White Channel gravels have accumulated. The present day Fortymile River runs along the north side of this basin.

- 2) An elliptical structure traced by the Maiden Creek right and left forks which is thought to indicate an underlying pluton.

3) A steeply north dipping reverse fault which runs across the north end of the pluton ellipse, apparently a transcendant ascent structure.

4) A steeply northeast dipping fault along Mickey Creek, being a concordant accommodation structure.

5) A series of vertical or near vertical northeast-southwest trending faults crossing Maiden left fork and Mickey Creek, being ascent/emplacement structures.

6) A dissected plateau underlain by the Fortymile White Channel gravels. Differential uplift and subsidence has left blocks of this ground at varying elevations;

a) the lowest block with the White Channel base at 1500 ft overlies the collapsed north end of the Maiden pluton,

b) two blocks separated by Mickey Creek with the White Channel base at 1635 ft considered to be the least disturbed ground; and

c) a block north of Maiden Creek right fork with the gravel base at 1750 ft, forced up by a reverse fault caused by pluton emplacement.

GEOCHEMISTRY

Figure 5 shows the geochemistry results from stream sediment samples taken from the OAQ claims.

The samples were analysed by ALS-Chemex, trace level gold by fire assay and AAS (code Au-AA23), and 47 additional elements at ultra-trace levels by 'four acid near total digestion' (code ME-MS61). PGMs and Hg were not included.

Gold anomalies occur in the creeks draining the Maiden nose, on lower Maiden Creek itself, and on the Maiden left fork where the southern sedimentary basin fault crosses.

Anomalous associated elements are also shown in Figure 5. Interesting indications of As, Bi, Cd, Sb, Mo and W are found, apparently peripheral to the higher temperature (?) gold values.

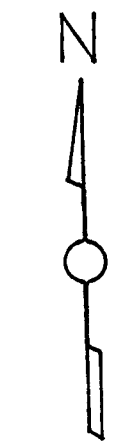
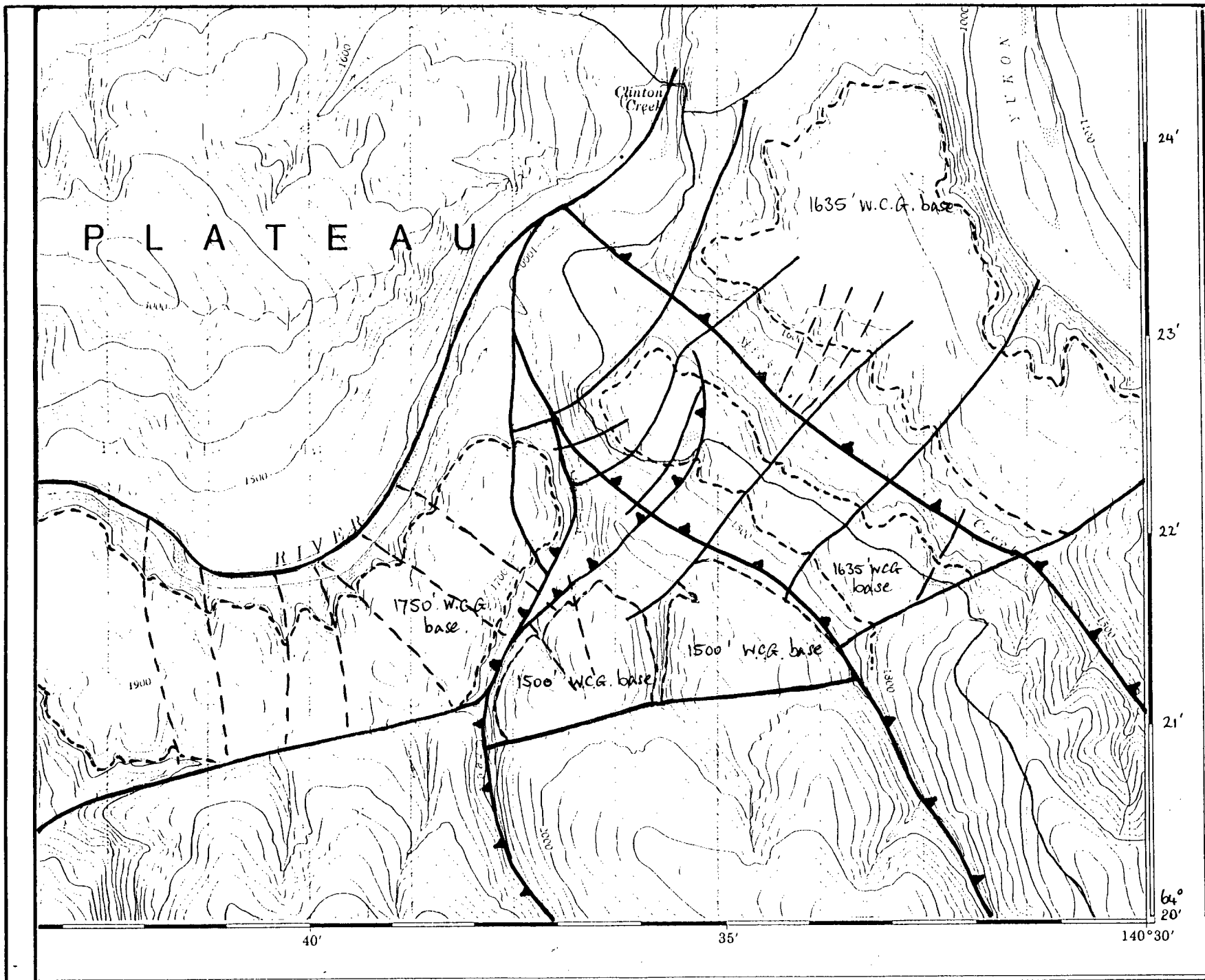


FIG 4.

GROUNDHOG
EXPLORATION

AERIAL
PHOTOGRAPH
INTERPRETATION

SCALE
1: 50,000

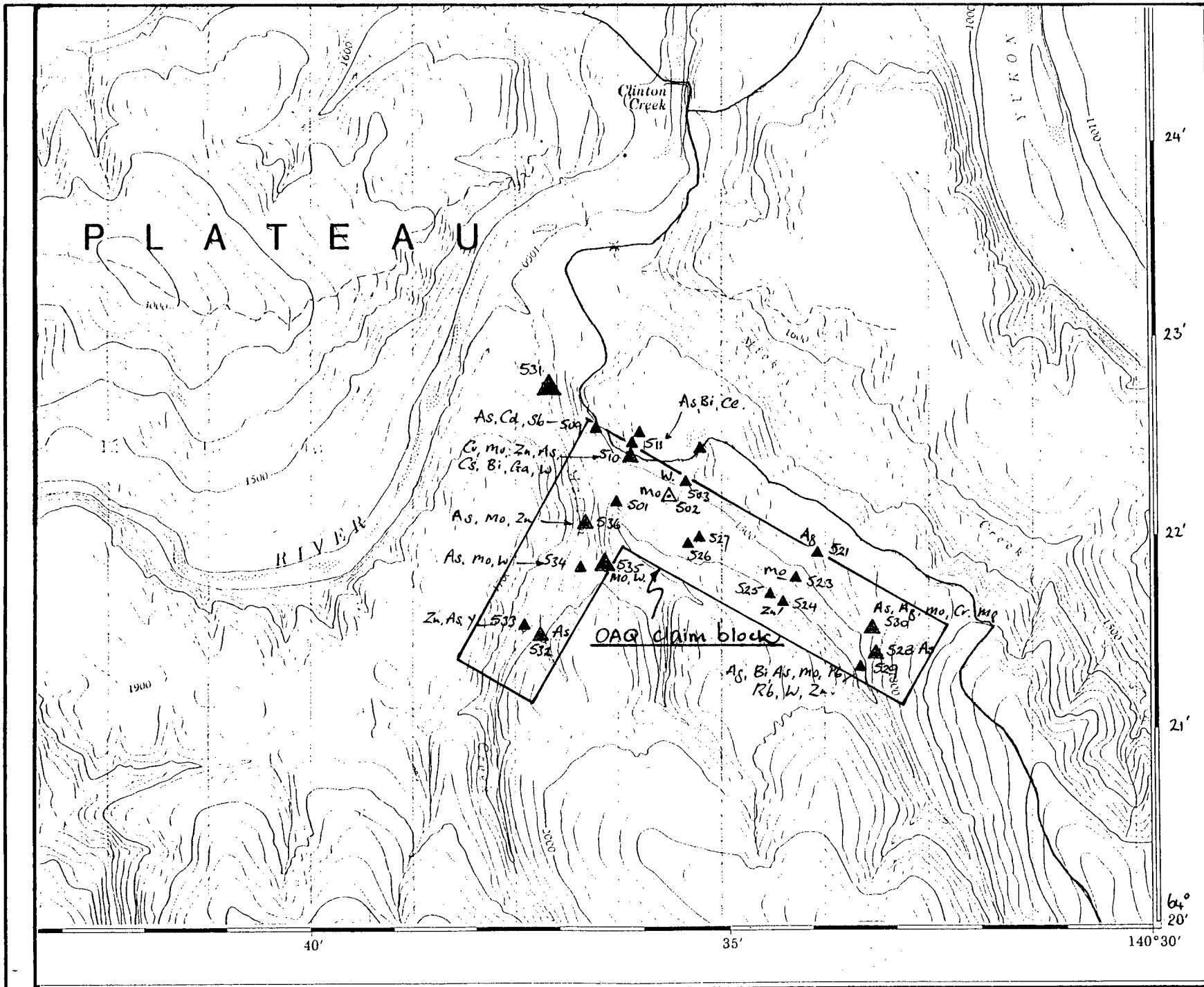


FIGURE 5

GROUNDHOG EXPLORATION

GEOCHEMISTRY

- ▲ Au > 15 ppb.
- ▲ Au 10-15 ppb.
- △ Au 5-10 ppb.
- ▲ Au < 5 ppb.

As > 0.7	Li > 50
Ag > 10	Mg > 1%
Be > 20	Mn > 800
Bi > 0.2	Mo > 20
Cd > 0.5	Pb > 20
Ce > 100	Sb > 20
Co > 20	W > 20
Cr > 50	Y > 20
Cu > 50	Zn > 100
Ga > 20	Zr > 100
La > 50	

All ppm unless otherwise shown.

SCALE
1:50,000.

CONCLUSIONS AND RECOMMENDATIONS FOR 2003

Auger drilling for placer gold in the Maiden Creek drainage in 2000, 2001 and 2002 has shown that placer gold occurs in fault-related structures. Some of the gold is coarse, and much of the coarse gold is angular and crystalline. The faults which carry placer values are those trending generally northeast-southwest.

Groundhog Exploration plans to initiate small-scale placer production from its Maiden Creek Placer Claims in 2003, and the relationship between fault structures and placer gold will become clearer as ground is opened up.

The preliminary geochemistry results, placer drill results and overall geological interpretation suggests that there is a local hard rock gold source, and that this source probably lies immediately to the south and southeast of the Maiden Creek forks.

Quartz Claims OAQ 25 to 28 (YC21902 to YC21905) were staked in October 2002 to cover more of this ground.

The construction of the access road up to the Maiden Creek forks in the fall of 2002 will greatly benefit future work.

Hard rock exploration in the 2003 season should include stream sediment sampling of the remaining unsampled Maiden Creek drainages and preliminary geological mapping of the area immediately south and southeast of the Maiden forks. With any luck this will allow the hard rock gold source area to be better defined and reveal whether the source is confined to fault/shear structures or whether there is an exposed intrusive in the area. If there is an exposed intrusive, its age would be of great interest.

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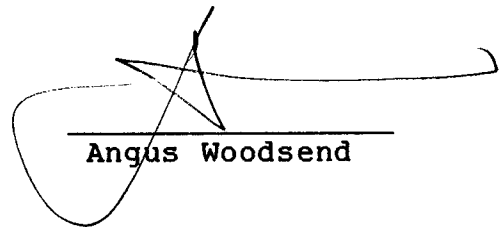
Wright,Allen A.,1976. Prelude to Bonanza, p258 to p263.

Yeend,Warren E.,1996. Gold placers of the historical Fortymile region, Alaska: U.S.Geological Survey bulletin 2125, 75p.

STATEMENT OF QUALIFICATIONS

The author of this report, Angus Woodsend, graduated from Southampton University, England with a BSc (Hons) Degree in Geology in 1971.

Since that time he has worked as an Exploration Geologist in a wide variety of countries around the world. He incorporated Groundhog Exploration, a private company, in 1990, and since that time has conducted many placer gold exploration/evaluation projects, placing much reliance on auger drilling in permafrost terrains.



Angus Woodsend



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CERTIFICATE

A0125667

(TDK) - GROUNDEX - GROUNDHOG EXPLORATION CO.

Project:
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 16-NOV-2001

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
SCR-42	27	-180 micron screen - Save Minus
SCR-01	27	Screen - Save Plus Charge
LOG-22	27	Samples received without barcode

ANALYTICAL PROCEDURES 2 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Sr-MS61	27	Sr ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
Ta-MS61	27	Ta ppm: ICP + ICP-MS package	ICP-MS	0.05	100.0
Te-MS61	27	Te ppm: ICP + ICP-MS package	ICP-MS	0.05	500
Th-MS61	27	Th ppm: ICP + ICP-MS package	ICP-MS	0.2	500
Ti-MS61	27	Ti %: ICP + ICP-MS package	ICP	0.01	10.00
Tl-MS61	27	Tl ppm: ICP + ICP-MS package	ICP-MS	0.02	500
U-MS61	27	U ppm: ICP + ICP-MS package	ICP-MS	0.1	500
V-MS61	27	V ppm: ICP + ICP-MS package	ICP	1	10000
W-MS61	27	W ppm: ICP + ICP-MS package	ICP-MS/ICP	0.1	10000
Y-MS61	27	Y ppm: ICP + ICP-MS package	ICP-MS	0.1	500
Zn-MS61	27	Zn ppm: ICP + ICP-MS package	ICP	2	10000
Zr-MS61	27	Zr ppm: ICP + ICP-MS package	ICP-MS/ICP	0.5	500



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SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
SCR-42	27	-180 micron screen - Save Minus
SCR-01	27	Screen - Save Plus Charge
LOG-22	27	Samples received without barcode

ANALYTICAL PROCEDURES 1 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
WEI-21	27	Weight of received sample	BALANCE	0.01	1000.0
Au-AA23	27	Au-AA23 : Au ppb: Fuse 30 grams	FA-AAS	5	10000
Ag-MS61	27	Ag ppm: ICP + ICP-MS package	ICP-MS/ICP	0.02	100.0
Al-MS61	27	Al %: ICP + ICP-MS package	ICP	0.01	25.0
As-MS61	27	As ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
Ba-MS61	27	Ba ppm: ICP + ICP-MS package	ICP	0.5	10000
Be-MS61	27	Be ppm: ICP + ICP-MS package	ICP-MS/ICP	0.05	1000
Bi-MS61	27	Bi ppm: ICP + ICP-MS package	ICP-MS/ICP	0.01	10000
Ca-MS61	27	Ca %: ICP + ICP-MS package	ICP	0.01	25.0
Cd-MS61	27	Cd ppm: ICP + ICP-MS package	ICP-MS/ICP	0.02	500
Ce-MS61	27	Ce ppm: ICP + ICP-MS package	ICP-MS	0.01	500
Co-MS61	27	Co ppm: ICP + ICP-MS package	ICP-MS/ICP	0.1	10000
Cr-MS61	27	Cr ppm: ICP + ICP-MS package	ICP	1	10000
Cs-MS61	27	Cs ppm: ICP + ICP-MS package	ICP-MS	0.05	500
Cu-MS61	27	Cu ppm: ICP + ICP-MS package	ICP	0.2	10000
Fe-MS61	27	Fe %: ICP + ICP-MS package	ICP	0.01	25.0
Ga-MS61	27	Ga ppm: ICP + ICP-MS package	ICP-MS	0.05	500.0
Ge-MS61	27	Ge ppm: ICP + ICP-MS package	ICP-MS	0.05	500.0
Hf-MS61	27	Hf ppm: ICP + ICP-MS package	ICP-MS/ICP	0.1	500
In-MS61	27	In ppm: ICP + ICP-MS package	ICP-MS/ICP	0.005	500
K-MS61	27	K %: ICP + ICP-MS package	ICP	0.01	10.00
La-MS61	27	La ppm: ICP + ICP-MS package	ICP-MS	0.5	500
Li-MS61	27	Li ppm: ICP + ICP-MS package	ICP-MS	0.2	500
Mg-MS61	27	Mg %: ICP + ICP-MS package	ICP	0.01	15.00
Mn-MS61	27	Mn ppm: ICP + ICP-MS package	ICP	5	10000
Mo-MS61	27	Mo ppm: ICP + ICP-MS package	ICP	0.05	10000
Na-MS61	27	Na %: ICP + ICP-MS package	ICP	0.01	10.00
Nb-MS61	27	Nb ppm: ICP + ICP-MS package	ICP-MS	0.1	500
Ni-MS61	27	Ni ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
P-MS61	27	P ppm: ICP + ICP-MS package	ICP	10	10000
Pb-MS61	27	Pb ppm: ICP + ICP-MS package	ICP-MS/ICP	0.5	10000
Rb-MS61	27	Rb ppm: ICP + ICP-MS package	ICP-MS	0.1	500
Re-MS61	27	Re ppm: ICP + ICP-MS package	ICP-MS/ICP	0.002	50.0
S-MS61	27	S %: ICP + ICP-MS package	ICP-MS/ICP	0.01	10.00
Sb-MS61	27	Sb ppm: ICP + ICP-MS package	ICP-MS	0.05	1000.0
Se-MS61	27	Se ppm: ICP + ICP-MS package	ICP-MS/ICP	1	1000
Sn-MS61	27	Sn ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	500



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CERTIFICATE OF ANALYSIS A0125667

SAMPLE	PREP CODE	Weight	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm
		Kg	FA+AA	(ICP)	(ICP)	ppm	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
417501	94069407	0.36	< 5	0.62	5.30	8.2	1499.0	1.40	0.17	1.40	0.28	68.9	10.6	71	2.75	27.2	2.62	13.80	0.30	1.8
417502	94069407	0.38	5	0.64	5.31	15.4	1128.0	1.35	0.15	1.80	0.26	70.3	11.7	86	2.35	26.8	3.35	13.80	0.30	2.0
417503	94069407	0.38	< 5	0.54	5.53	8.2	1131.5	1.30	0.15	1.70	0.28	58.4	10.2	77	2.25	27.4	2.61	13.80	0.25	1.9
417504	94069407	0.26	< 5	0.76	8.64	105.0	1730.0	3.00	0.53	3.30	0.58	107.0	49.4	910	8.25	67.6	5.64	24.80	0.45	2.9
417505	94069407	0.36	5	0.56	5.45	7.6	1167.5	1.30	0.13	1.90	0.22	74.0	9.9	87	2.25	21.2	2.68	13.50	0.30	2.0
417506	94069407	0.32	< 5	0.48	5.71	5.2	1134.0	1.20	0.14	1.55	0.24	48.3	9.0	66	2.25	21.4	2.44	12.80	0.25	1.6
417507	94069407	0.32	< 5	0.54	7.22	29.0	1366.0	2.15	0.25	0.88	0.14	52.3	9.9	109	7.00	60.8	3.69	21.50	0.30	2.6
417508	94069407	0.50	20	0.52	5.71	22.2	1548.5	1.40	0.21	1.65	0.50	70.3	15.2	175	2.95	35.6	3.58	14.80	0.30	1.6
417509	94069407	0.22	< 5	0.46	5.51	11.4	1147.5	1.30	0.17	1.65	0.52	48.3	10.9	65	2.70	26.8	2.43	13.85	0.20	1.6
417510	94069407	0.34	20	0.44	5.33	9.0	1080.0	1.20	0.16	1.60	0.36	68.0	15.8	76	2.35	22.4	2.63	13.60	0.35	1.9
417511	94069407	0.40	< 5	0.56	7.66	19.6	1430.0	2.20	0.25	1.15	0.22	68.6	18.7	72	8.50	48.4	2.30	20.65	0.45	2.5
417512	94069407	0.22	< 5	0.42	5.47	8.8	1340.0	1.20	0.18	1.30	0.24	48.2	10.8	69	2.75	25.0	2.61	14.10	0.30	1.7
417513	94069407	0.40	< 5	0.38	4.78	10.0	1156.5	1.05	0.17	0.91	0.20	34.0	10.2	40	1.75	18.4	1.93	10.95	0.20	1.0
417514	94069407	0.36	< 5	0.38	5.36	6.4	1098.0	1.20	0.18	1.40	0.38	55.1	11.8	43	2.25	28.2	1.97	15.90	0.20	2.3
417515	94069407	0.14	< 5	0.32	4.40	3.8	812.0	0.90	0.13	1.10	0.32	35.3	6.5	46	2.10	21.2	2.16	10.60	0.15	1.4
417516	94069407	0.22	< 5	0.36	5.18	2.8	835.2	0.95	0.11	1.25	0.22	30.4	5.0	28	2.20	17.2	1.63	12.10	0.15	1.6
417517	94069407	0.10	< 5	0.50	5.29	4.6	728.8	1.10	0.17	1.35	1.68	40.1	16.6	48	2.40	42.8	3.55	11.55	0.20	1.7
417518	94069407	0.18	< 5	0.42	5.78	3.2	784.0	1.00	0.14	1.45	0.24	32.1	6.9	38	1.80	19.0	2.05	14.95	0.25	2.3
417519	94069407	0.22	< 5	0.42	6.25	2.6	808.4	1.25	0.15	1.45	0.16	27.6	4.5	24	1.60	20.4	1.80	15.65	0.15	3.0
417520	94069407	0.38	< 5	0.40	5.87	7.0	1071.0	1.35	0.15	1.40	0.28	44.1	8.7	63	2.25	21.8	2.64	13.20	0.30	1.8
417521	94069407	0.40	< 5	0.80	5.71	7.0	898.0	1.25	0.14	1.35	0.16	56.9	10.1	76	2.20	22.6	2.73	13.05	0.35	1.7
417522	94069407	0.20	< 5	0.50	5.85	7.6	809.2	1.10	0.22	1.05	0.34	35.0	9.9	68	2.50	27.8	3.02	14.50	0.20	1.7
417523	94069407	0.38	< 5	0.46	5.28	10.0	1087.0	1.20	0.14	1.70	0.26	51.3	11.2	75	1.85	24.6	2.87	11.70	0.25	1.6
417524	94069407	0.42	< 5	0.42	5.67	8.6	1554.5	1.25	0.11	1.35	0.38	57.9	10.6	75	2.80	26.8	3.03	12.90	0.30	1.6
417525	94069407	0.40	< 5	0.40	5.47	8.2	1208.0	1.20	0.10	1.10	0.18	46.2	9.2	55	2.35	16.8	2.25	12.55	0.25	1.4
417526	94069407	0.34	< 5	0.38	4.78	7.4	903.2	1.20	0.12	1.85	0.30	47.9	8.2	62	2.00	25.8	2.35	11.15	0.25	1.6
417527	94069407	0.32	< 5	0.34	5.75	7.2	862.4	0.95	0.12	1.40	0.22	46.7	8.5	71	1.40	19.8	2.74	11.90	0.25	1.6

CERTIFICATION:



ALS Chemex

Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GROUNDDEX - GROUNDHOG EXPLORATION CO.
 BOX 566
 DAWSON CITY, YT
 Y0B 1G0
 Project :
 Comments: ATTN: ANGUS WOODSEND

Page Number : 1-B
 Total Pages : 1
 Certificate Date: 16-NOV-2001
 Invoice No. : I0125667
 P.O. Number :
 Account : TDK

CERTIFICATE OF ANALYSIS A0125667

SAMPLE	PREP CODE	In ppm	K % (ICP)	La ppm (ICP)	Li ppm (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Nb ppm (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Rb ppm (ICP)	Re ppm	S % (ICP)	Sb ppm (ICP)	Se ppm	Sn ppm (ICP)	Sr ppm (ICP)
417501	94069407	0.045	1.42	37.0	19.8	0.90	500	1.35	1.17	11.3	29.4	760	16.5	62.3 < 0.002	0.03	1.90	< 1	1.0	190.0	
417502	94069407	0.045	1.24	37.0	19.2	0.93	730	1.40	1.37	11.4	28.0	890	12.0	49.9 < 0.002	0.02	1.10	< 1	1.0	241	
417503	94069407	0.040	1.26	30.5	19.2	0.93	410	1.25	1.45	10.6	26.8	660	11.5	47.6 < 0.002	0.02	1.15	< 1	1.0	253	
417504	94069407	0.080	2.00	70.0	107.5	6.80	925	1.50	0.12	14.5	249	750	54.0	87.8 < 0.002	0.03	2.90	1	2.0	117.5	
417505	94069407	0.040	1.34	40.0	19.2	0.98	495	1.15	1.51	11.7	26.8	820	10.5	47.9 < 0.002	0.01	1.00	< 1	1.0	246	
417506	94069407	0.040	1.29	26.0	18.8	0.90	380	0.90	1.44	9.4	24.4	650	10.5	50.1 < 0.002	0.02	0.90	< 1	1.0	235	
417507	94069407	0.070	2.63	24.5	38.4	0.87	390	3.00	0.99	10.0	34.6	430	17.5	92.2 < 0.002	0.03	1.55	< 1	1.4	180.0	
417508	94069407	0.055	1.53	37.5	21.0	1.24	755	2.75	1.17	13.0	57.7	980	22.5	61.1 < 0.002	0.03	1.25	1	1.2	181.5	
417509	94069407	0.035	1.29	25.0	20.4	0.81	580	1.75	1.25	10.2	29.4	950	13.0	52.3 < 0.002	0.04	3.50	< 1	1.0	229	
417510	94069407	0.040	1.19	36.0	18.0	0.83	980	1.70	1.36	11.0	24.0	710	12.0	53.3 < 0.002	0.03	1.00	< 1	1.0	237	
417511	94069407	0.060	1.91	31.0	38.8	0.58	375	1.90	1.13	19.0	50.0	700	15.0	82.5 < 0.002	0.04	1.75	< 1	1.6	207	
417512	94069407	0.040	1.18	25.5	21.0	0.78	495	1.75	1.29	9.9	24.2	570	12.5	52.5 < 0.002	0.03	1.05	< 1	1.0	218	
417513	94069407	0.030	1.48	18.0	12.8	0.48	505	1.30	1.23	6.6	17.2	520	12.5	57.2 < 0.002	0.02	1.00	< 1	0.8	189.5	
417514	94069407	0.030	1.39	28.5	16.0	0.50	735	1.75	1.71	9.0	14.6	1030	12.0	47.9 < 0.002	0.03	0.80	< 1	1.0	304	
417515	94069407	0.030	0.91	19.0	11.2	0.52	230	1.55	1.01	6.1	18.6	1120	9.0	39.9 < 0.002	0.05	0.80	< 1	0.8	197.5	
417516	94069407	0.025	1.40	16.0	11.2	0.43	260	1.95	1.67	8.0	11.2	650	8.0	57.1 < 0.002	0.03	1.70	< 1	0.6	289	
417517	94069407	0.035	1.00	19.5	9.4	0.59	835	2.50	1.25	5.7	31.0	3020	11.0	38.3 < 0.002	0.04	0.90	< 1	0.6	229	
417518	94069407	0.025	1.46	16.5	16.0	0.57	375	1.80	1.96	8.0	13.0	280	10.0	41.2 < 0.002	0.01	0.65	< 1	0.8	348	
417519	94069407	0.025	1.87	14.5	16.8	0.44	360	1.90	2.41	7.6	7.6	790	10.0	38.2 < 0.002	0.01	0.55	< 1	0.6	429	
417520	94069407	0.035	1.38	23.5	19.8	0.81	375	1.45	1.57	9.6	21.0	560	11.0	50.2 < 0.002	0.01	0.90	< 1	0.8	254	
417521	94069407	0.040	1.22	30.0	17.6	0.79	410	1.20	1.44	10.9	20.6	550	11.5	47.3 < 0.002	0.01	0.85	< 1	1.0	229	
417522	94069407	0.040	1.12	17.0	18.2	0.69	370	2.05	1.31	8.5	23.8	630	12.0	40.2 < 0.002	0.01	1.10	< 1	1.0	215	
417523	94069407	0.040	1.16	26.5	16.2	0.87	845	1.45	1.41	9.1	25.0	700	10.5	41.3 < 0.002	0.01	2.40	< 1	0.8	243	
417524	94069407	0.040	1.66	31.0	19.8	1.00	615	1.30	1.22	9.2	28.0	780	19.5	58.8 < 0.002	0.04	0.90	< 1	1.0	181.0	
417525	94069407	0.035	1.65	24.0	18.0	0.67	530	1.20	1.35	8.5	18.2	530	12.5	62.0 < 0.002	0.01	0.80	< 1	0.8	201	
417526	94069407	0.030	1.26	25.0	17.0	0.73	545	1.20	1.18	8.3	21.6	760	10.0	42.4 < 0.002	0.05	0.80	< 1	0.8	238	
417527	94069407	0.035	1.10	24.5	16.2	0.83	390	1.30	1.57	8.5	21.8	430	10.0	33.7 < 0.002	< 0.01	1.00	< 1	0.8	254	

CERTIFICATION: 



ALS Chemex
 Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

TO: GROUNDDEX - GROUNDWATER EXPLORATION CO.
 BOX 566
 DAWSON CITY, YT
 Y0B 1G0

Page Number : 1-C
 Total Pages : 1
 Certificate Date: 16-NOV-2001
 Invoice No. : 10125667
 P.O. Number :
 Account : TDK

Project :
 Comments: ATTN: ANGUS WOODSEND

CERTIFICATE OF ANALYSIS A0125667

SAMPLE	PREP CODE	Ta ppm (ICP)	Te ppm (ICP)	Th ppm (ICP)	Ti % (ICP)	Tl ppm (ICP)	U ppm (ICP)	V ppm (ICP)	W ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)	Zr ppm
417501	94069407	0.90	< 0.05	11.4	0.38	0.36	2.7	108	1.2	14.2	98	60.5
417502	94069407	0.85	0.05	12.6	0.39	0.38	2.5	112	1.4	14.7	78	66.5
417503	94069407	0.80	< 0.05	9.6	0.36	0.38	2.2	115	3.7	13.2	78	64.0
417504	94069407	1.25	0.20	18.2	0.39	0.62	3.2	185	1.8	31.9	214	113.0
417505	94069407	0.95	< 0.05	11.6	0.42	0.36	2.5	119	3.6	15.2	78	69.5
417506	94069407	0.75	< 0.05	8.2	0.34	0.38	1.9	114	1.2	11.4	74	57.0
417507	94069407	0.70	0.10	9.6	0.29	0.74	2.9	193	1.8	7.0	98	98.5
417508	94069407	0.95	0.05	11.2	0.45	0.44	2.8	140	1.5	15.2	126	57.0
417509	94069407	0.80	< 0.05	8.6	0.34	0.36	2.1	107	1.5	11.8	84	58.0
417510	94069407	0.85	< 0.05	12.0	0.39	0.38	2.5	108	1.4	13.0	74	67.5
417511	94069407	1.35	0.05	12.2	0.49	0.66	3.3	130	3.9	15.7	74	97.0
417512	94069407	0.80	< 0.05	8.0	0.33	0.42	2.1	115	1.4	10.2	72	59.0
417513	94069407	0.60	< 0.05	6.6	0.20	0.34	1.4	81	1.1	8.2	52	34.0
417514	94069407	0.75	0.05	6.6	0.33	0.38	2.7	80	1.3	14.0	60	87.0
417515	94069407	0.50	< 0.05	5.0	0.25	0.28	1.6	67	1.2	8.3	52	49.0
417516	94069407	0.60	< 0.05	4.8	0.24	0.36	1.5	59	1.6	8.8	50	59.0
417517	94069407	0.45	0.05	5.4	0.30	0.28	1.9	83	0.9	9.5	126	63.0
417518	94069407	0.65	< 0.05	5.0	0.32	0.32	1.5	81	1.4	6.4	72	89.5
417519	94069407	0.65	< 0.05	4.8	0.28	0.32	1.8	59	1.2	5.5	60	115.0
417520	94069407	0.70	0.05	7.0	0.35	0.38	1.7	108	1.2	9.2	74	65.0
417521	94069407	0.90	< 0.05	12.4	0.40	0.34	3.4	113	1.3	11.5	60	59.5
417522	94069407	0.65	0.05	6.2	0.34	0.38	1.6	112	1.1	7.0	74	61.5
417523	94069407	0.75	0.05	8.2	0.36	0.32	2.0	108	1.8	12.6	72	55.0
417524	94069407	0.75	0.05	9.8	0.35	0.36	2.9	118	1.1	11.5	110	54.5
417525	94069407	0.65	< 0.05	8.0	0.28	0.36	1.7	93	1.0	9.6	74	48.0
417526	94069407	0.65	0.05	8.2	0.33	0.32	2.5	99	0.9	10.1	74	54.0
417527	94069407	0.60	< 0.05	8.2	0.35	0.30	1.5	106	1.0	8.6	64	53.0

CERTIFICATION: _____



ALS Chemex

Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GROUNDEX - GROUNDHOG EXPLORATION CO.

BOX 566
 DAWSON CITY, YT
 Y0B 1G0

A0128199

Comments: ATTN: ANGUS WOODSEND

CERTIFICATE

A0128199

(TDK) - GROUNDEX - GROUNDHOG EXPLORATION CO.

Project:
 P.O. #:

Samples submitted to our lab in Sparks, NV.
 This report was printed on 16-NOV-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
SCR-42	9	-180 micron screen - Save Minus
SCR-01	9	Screen - Save Plus Charge
LOG-22	9	Samples received without barcode

ANALYTICAL PROCEDURES 1 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
WEI-21	9	Weight of received sample	BALANCE	0.01	1000.0
Au-AA23	9	Au-AA23 : Au ppb: Fuse 30 grams	FA-AAS	5	10000
Ag-MS61	9	Ag ppm: ICP + ICP-MS package	ICP-MS/ICP	0.02	100.0
Al-MS61	9	Al %: ICP + ICP-MS package	ICP	0.01	25.0
As-MS61	9	As ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
Ba-MS61	9	Ba ppm: ICP + ICP-MS package	ICP	0.5	10000
Be-MS61	9	Be ppm: ICP + ICP-MS package	ICP-MS/ICP	0.05	1000
Bi-MS61	9	Bi ppm: ICP + ICP-MS package	ICP-MS/ICP	0.01	10000
Ca-MS61	9	Ca %: ICP + ICP-MS package	ICP	0.01	25.0
Cd-MS61	9	Cd ppm: ICP + ICP-MS package	ICP-MS/ICP	0.02	500
Ce-MS61	9	Ce ppm: ICP + ICP-MS package	ICP-MS	0.01	500
Co-MS61	9	Co ppm: ICP + ICP-MS package	ICP-MS/ICP	0.1	10000
Cr-MS61	9	Cr ppm: ICP + ICP-MS package	ICP	1	10000
Cs-MS61	9	Cs ppm: ICP + ICP-MS package	ICP-MS	0.05	500
Cu-MS61	9	Cu ppm: ICP + ICP-MS package	ICP	0.2	10000
Fe-MS61	9	Fe %: ICP + ICP-MS package	ICP	0.01	25.0
Ga-MS61	9	Ga ppm: ICP + ICP-MS package	ICP-MS	0.05	500.0
Ge-MS61	9	Ge ppm: ICP + ICP-MS package	ICP-MS	0.05	500.0
Hf-MS61	9	Hf ppm: ICP + ICP-MS package	ICP-MS/ICP	0.1	500
In-MS61	9	In ppm: ICP + ICP-MS package	ICP-MS/ICP	0.005	500
K-MS61	9	K %: ICP + ICP-MS package	ICP	0.01	10.00
La-MS61	9	La ppm: ICP + ICP-MS package	ICP-MS	0.5	500
Li-MS61	9	Li ppm: ICP + ICP-MS package	ICP-MS	0.2	500
Mg-MS61	9	Mg %: ICP + ICP-MS package	ICP	0.01	15.00
Mn-MS61	9	Mn ppm: ICP + ICP-MS package	ICP	5	10000
Mo-MS61	9	Mo ppm: ICP + ICP-MS package	ICP	0.05	10000
Na-MS61	9	Na %: ICP + ICP-MS package	ICP	0.01	10.00
Nb-MS61	9	Nb ppm: ICP + ICP-MS package	ICP-MS	0.1	500
Ni-MS61	9	Ni ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
P-MS61	9	P ppm: ICP + ICP-MS package	ICP	10	10000
Pb-MS61	9	Pb ppm: ICP + ICP-MS package	ICP-MS/ICP	0.5	10000
Rb-MS61	9	Rb ppm: ICP + ICP-MS package	ICP-MS	0.1	500
Re-MS61	9	Re ppm: ICP + ICP-MS package	ICP-MS/ICP	0.002	50.0
S-MS61	9	S %: ICP + ICP-MS package	ICP-MS/ICP	0.01	10.00
Sb-MS61	9	Sb ppm: ICP + ICP-MS package	ICP-MS	0.05	1000.0
Se-MS61	9	Se ppm: ICP + ICP-MS package	ICP-MS/ICP	1	1000
Sn-MS61	9	Sn ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	500



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To: GROUNDEX - GROUNDHOG EXPLORATION CO.

BOX 566
 DAWSON CITY, YT
 Y0B 1G0

A0128199

Comments: ATTN: ANGUS WOODSEND

CERTIFICATE

A0128199

(TDK) - GROUNDEX - GROUNDHOG EXPLORATION CO.

Project:
 P.O. #:

Samples submitted to our lab in Sparks, NV.
 This report was printed on 16-NOV-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
SCR-42	9	-180 micron screen - Save Minus
SCR-01	9	Screen - Save Plus Charge
LOG-22	9	Samples received without barcode

ANALYTICAL PROCEDURES 2 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Sr-MS61	9	Sr ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
Ta-MS61	9	Ta ppm: ICP + ICP-MS package	ICP-MS	0.05	100.0
Te-MS61	9	Te ppm: ICP + ICP-MS package	ICP-MS	0.05	500
Th-MS61	9	Th ppm: ICP + ICP-MS package	ICP-MS	0.2	500
Ti-MS61	9	Ti %: ICP + ICP-MS package	ICP	0.01	10.00
Tl-MS61	9	Tl ppm: ICP + ICP-MS package	ICP-MS	0.02	500
U-MS61	9	U ppm: ICP + ICP-MS package	ICP-MS	0.1	500
V-MS61	9	V ppm: ICP + ICP-MS package	ICP	1	10000
W-MS61	9	W ppm: ICP + ICP-MS package	ICP-MS/ICP	0.1	10000
Y-MS61	9	Y ppm: ICP + ICP-MS package	ICP-MS	0.1	500
Zn-MS61	9	Zn ppm: ICP + ICP-MS package	ICP	2	10000
Zr-MS61	9	Zr ppm: ICP + ICP-MS package	ICP-MS/ICP	0.5	500



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To: GROUNDDEX - GROUNDHOG EXPLORATION CO. **

BOX 566
 DAWSON CITY, YT
 Y0B 1G0

Page Number :1-A
 Total Pages :1
 Certificate Date: 16-NOV-2001
 Invoice No. : I0128199
 P.O. Number :
 Account : TDK

Project :
 Comments: ATTN: ANGUS WOODSEND

CERTIFICATE OF ANALYSIS A0128199

SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA	Ag ppm (ICP)	Al % (ICP)	As ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Ce ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cs ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	Ga ppm (ICP)	Ge ppm (ICP)	Hf ppm
417528	94069407	0.40	15	0.36	5.13	11.8	1000.0	1.35	0.13	1.85	0.36	59.6	12.3	92	2.00	24.4	3.15	12.55	0.30	1.8
417529	94069407	0.40	< 5	1.06	6.32	14.0	3300	1.55	0.21	0.67	0.48	73.6	16.9	78	4.45	35.8	3.62	16.75	0.35	1.8
417530	94069407	0.40	10	0.82	5.44	15.8	990.0	1.50	0.14	1.55	0.30	61.9	14.7	111	2.05	26.4	3.28	12.65	0.30	1.8
417531	94069407	0.52	20	0.70	5.33	9.4	1060.0	1.15	0.12	1.40	0.22	76.9	11.7	89	2.45	22.0	2.87	12.55	0.40	1.8
417532	94069407	0.20	10	0.64	5.62	12.4	920.0	1.20	0.16	1.40	0.22	52.4	10.0	69	2.30	24.2	2.58	12.85	0.30	1.7
417533	94069407	0.42	< 5	0.66	6.22	10.8	1150.0	1.40	0.18	1.15	0.22	69.1	13.5	77	3.35	38.8	3.31	14.70	0.35	1.6
417534	94069407	0.28	< 5	0.62	5.51	11.2	930.0	1.50	0.17	1.30	0.22	66.9	13.7	83	3.15	32.2	3.03	14.35	0.35	1.6
417535	94069407	0.34	25	0.60	6.15	9.6	990.0	1.55	0.16	1.45	0.22	92.0	12.5	94	3.05	26.6	2.95	14.35	0.45	2.4
417536	94069407	0.40	10	0.58	5.78	11.8	1150.0	1.55	0.19	0.79	0.24	61.4	14.5	83	4.15	29.2	3.29	15.60	0.30	1.4

CERTIFICATION: 



ALS Chemex

Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GROUNDDEX - GROUNDHOG EXPLORATION CO. **

BOX 566
 DAWSON CITY, YT
 Y0B 1G0

Page Number :1-B
 Total Pages :1
 Certificate Date: 16-NOV-2001
 Invoice No. :I0128199
 P.O. Number :
 Account :TDK

Project :
 Comments: ATTN: ANGUS WOODSEND

CERTIFICATE OF ANALYSIS

A0128199

SAMPLE	PREP CODE	In ppm	K % (ICP)	La ppm (ICP)	Li ppm (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Nb ppm (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Rb ppm (ICP)	Re ppm	S % (ICP)	Sb ppm (ICP)	Se ppm	Sn ppm (ICP)	Sr ppm (ICP)
417528	94069407	0.040	1.22	32.5	17.6	0.96	635	1.60	1.32	10.4	34.0	810	9.5	47.0	0.002	0.03	1.05	1	1.0	215
417529	94069407	0.055	2.20	39.5	27.8	0.93	720	2.35	0.71	10.4	37.4	790	26.0	107.0	< 0.002	0.07	1.50	1	1.4	100.5
417530	94069407	0.045	1.19	34.0	17.8	1.21	680	2.70	1.23	11.7	40.4	840	10.0	48.9	< 0.002	0.04	1.10	1	1.0	203
417531	94069407	0.040	1.29	42.0	20.6	0.90	600	1.85	1.10	9.9	34.6	720	11.0	56.9	< 0.002	0.02	0.80	1	1.0	193.5
417532	94069407	0.045	1.15	27.5	18.2	0.80	455	1.95	1.21	8.5	27.0	630	10.5	56.2	< 0.002	0.04	1.10	1	1.0	231
417533	94069407	0.045	1.44	37.0	26.6	1.00	655	1.95	0.91	9.6	41.0	670	14.0	74.0	< 0.002	0.03	1.35	1	1.2	170.5
417534	94069407	0.050	1.37	37.5	25.8	0.87	585	2.70	0.99	9.8	42.0	680	12.5	71.9	< 0.002	0.04	1.05	1	1.4	180.5
417535	94069407	0.045	1.37	49.5	22.0	0.92	605	2.25	1.14	11.7	31.6	810	13.0	66.5	0.002	0.02	0.95	1	1.2	220
417536	94069407	0.045	1.86	33.5	29.2	0.85	760	2.50	0.75	9.8	39.6	640	13.5	95.1	< 0.002	0.01	1.00	1	1.4	125.5

CERTIFICATION:



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To: GROUNDEX - GROUNDHOG EXPLORATION CO. **

BOX 566
 DAWSON CITY, YT
 Y0B 1G0

Page Number :1-C
 Total Pages :1
 Certificate Date: 16-NOV-2001
 Invoice No. : I0128199
 P.O. Number :
 Account : TDK

Project :
 Comments: ATTN: ANGUS WOODSEND

CERTIFICATE OF ANALYSIS A0128199

SAMPLE	PREP CODE	Ta ppm (ICP)	Te ppm (ICP)	Th ppm (ICP)	Ti % (ICP)	Tl ppm (ICP)	U ppm (ICP)	V ppm (ICP)	W ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)	Zr ppm
417528	94069407	1.05	0.05	8.2	0.43	0.32	2.0	118	2.0	16.8	88	56.0
417529	94069407	1.15	< 0.05	13.0	0.34	0.54	2.9	133	3.9	15.7	126	65.0
417530	94069407	1.15	< 0.05	9.0	0.39	0.34	3.5	126	1.8	17.9	82	59.5
417531	94069407	0.95	< 0.05	11.2	0.44	0.32	2.6	107	1.8	18.3	86	61.5
417532	94069407	0.85	< 0.05	8.2	0.36	0.36	2.1	106	1.7	14.0	86	56.0
417533	94069407	0.95	< 0.05	11.2	0.39	0.42	2.7	116	1.7	20.2	102	53.5
417534	94069407	1.00	< 0.05	10.2	0.37	0.40	2.9	110	2.3	19.0	92	99.0
417535	94069407	1.10	< 0.05	13.6	0.48	0.38	3.2	118	2.7	19.7	88	82.5
417536	94069407	0.90	0.05	11.6	0.35	0.46	2.3	115	1.7	15.2	112	54.0

CERTIFICATION:



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 212 Brooksbank Ave., North Vancouver
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To: GROUNDEX - GROUNDHOG EXPLORATION CO. **

BOX 566
 DAWSON CITY, YT
 Y0B 1G0

INVOICE NUMBER

I 0 1 2 5 6 6 7

Statement of Costs

BILLING INFORMATION

Date: 16-NOV-2001
 Project:
 P.O. No.:
 Account: TDK

094343

Comments:

Billing: For analysis performed on Certificate A0125667

Terms: Payment due on receipt of invoice
 1.25% per month (15% per annum)
 charged on overdue accounts

Please Remit Payments to:

ALS CHEMEX
 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J 2C1

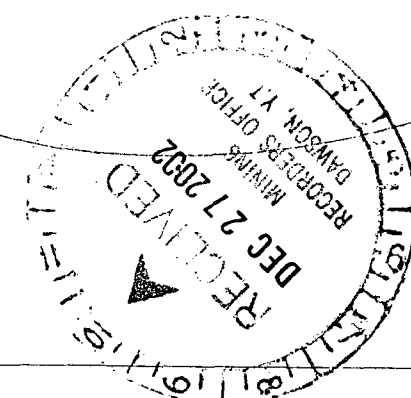
# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
27	- PREP-41	2.50		
	- ME-MS61	22.00		
	WEI-21 - Weight of received sample	0.00		
	Au-AA23 - Au-AA23 : Au ppb: Fuse 30 grams	12.00	36.50	985.50
Additional charges:				
1	BAT-01 - Batch processing fee	30.00		30.00
9	SCR-41/kg - -180 micron screen per kg charge	0.75		6.75

Total Cost \$ 1022.25
 (Reg# R100938885) GST \$ 71.56

TOTAL PAYABLE (CDN) \$ 1093.81

1093.81 = \$40.51 per sample.

PAID





DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
YUKON QUARTZ MINING ACT
FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK



(This form required in duplicate with sketch showing location of work.)

I (Name) ANGUS WOODSEMP Occupation GEOLOGIST
 (Postal Address) Box 566 Dawson City, Y.T.

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):
 (Here list claims on which work was actually done by number and name)

YCA1101 YCA1107 YCA1115
 YCA1104 YCA1103 YCA1109 YCA1120
 YCA1105 YCA1111 YCA1122
 YCA1124

situated at: MAIDEN CREEK Claim Sheet No. 116-C-7
 in the DAWSON / FORTY MILE Mining District, to the value of at least \$2,400
 dollars, since the 1st day of Feb 2002 to 30th day of Nov 2002
 to represent the following mineral claims under the authority of Grouping Certificate No. H000978-79
 (Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

QAR (1, 3, 5, 7, 9, 11, 15) Renew QAR 1-8
 (4, 20, 22, 24) QAR 19-22
 YC (21101, 21103, 21104, 21105, 21107, 21109, 21111, 21115, 21120, 21122, 21124)

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 33.)

20 stream sediment sampler	@ \$ 40 / sample	\$ 800
2 geologist days	@ \$ 300 / day	\$ 600
2 helper days	@ \$ 200 / day	\$ 400
2 days report writing	@ \$ 300 / day	\$ 600
		<u>\$ 2400 - 00</u>

Sworn before me at Dawson
 this 11 day of Oct 2002
Anna Lillierda
 Notary Public

[Signature]
 Applicant