

094606

ASSESSMENT REPORT

OAQ QUARTZ CLAIMS

YC 21101 to 21106
YC 21119 to 21122
YC 21902 to 21903
YC 36178 to 36185

NTS 116 - C - 7

MAIDEN CREEK

FORTYMILE DISTRICT

YUKON

Bounded by coordinates

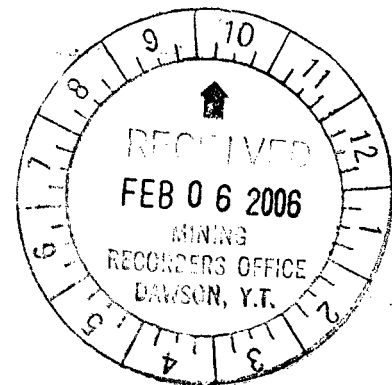
64,22,50 140,37,35
~~64,22,08 140,34,55~~
64,21,20 140,36,00
64,22,00 140,38,45

GEOCHEMISTRY REPORT

FIELD WORK CONDUCTED
SEPTEMBER 2005

ANGUS WOODSEND
for
GROUNDHOG EXPLORATION

January 25, 2006



Costs associated with this report have been
approved to the amount of \$ 2,400
for assessment credit under Certificate of
work no. 200679

K. Perry

Mining Recorder
Dawson City Mining District

SUMMARY

Geochemical soil and stream sediment samples taken in September 2005 have helped to further define a potential source area for the placer gold found in Maiden Creek.

Aerial photo interpretation and reconnaissance geology suggest that this source mineralization is related to faulting caused by relatively recent tectonic events. In particular a NNW-SSE trending fault which can be traced for some 1.8 Km (6000 ft) on airphotos has anomalous gold values up to 296 ppb.

Additional ground work in 2005 included an expansion of the OAQ quartz claim block, mapping and sampling of the bedrock exposed in the placer mine cuts, and the construction of exploration roads (permitted under Groundhog's placer properties) toward the centre of the claim block.

CLAIMS

The property consists of the following Quartz claims:

OAQ 1 to 6	YC21101 to YC21106
OAQ 19 to 22	YC21119 to YC21122
OAQ 25 to 26	YC21902 to YC21903
OAQ 27 to 34	YC36178 to YC36185

These claims are wholly owned by Groundhog Exploration and are in good standing until October 2007 (except for one claim with a due date in October 2006). Claim locations are shown on Figure 1.

LOCATION and ACCESS

Access to the area is via the Top of the World Highway, and the Clinton Road. A 4x4 dirt road was built by Groundhog Exploration in 2002 and 2003 from the Clinton Road down into the Maiden valley. This road follows the right limit rim of the Maiden Creek valley to a point opposite the creek's forks on quartz claim OAQ 1, YC 21101.

In 2005 a compensation channel was constructed for a diversion of Maiden Creek and a bridge with a capacity of 30 tonnes was installed over the diversion channel. Access roads to placer mine areas and additional exploration roads were built in 2005 as shown on Figure 2. There is now a total of 3 Km of roads on the property and a permit is in place for a further 1 Km.

HISTORY

Placer gold was discovered on Franklin Bar on the Alaskan Fortymile in 1886 (Yeend, 1996). This was the first discovery of coarse gold in the Yukon River drainage. In that same year Andrew Jackson Maiden discovered gold on Maiden Creek, (Coutts, 1980). Fortunately for Groundex, Maiden's discovery was forgotten or ignored. In 1993, while building a fire break, Forestry personnel excavated a pit in the Maiden Creek channel using a bulldozer and found placer gold, but there was no follow-up. In 1999 W. Claxton, recognizing the similarity between the gravels exposed in the Clinton Road borrow pits and the Klondike White Channel gravels, had two shafts sunk into the exposed gravels. In 2000 he commissioned a Government-funded auger drill program to evaluate the gravels. Angus Woodsend of Groundex ran the drill, which found significant placer gold values in small gulches on the White Channel gravel-bedrock contact. Economic values were finally found by Groundex in the Maiden Creek valley in 2003, and mining in 2004 and 2005 has produced a modest amount of gold. From the outset the nature of the gold suggested that there is a local hardrock source, and since 2001 Groundex has been exploring for that hardrock source, primarily using geochemistry.

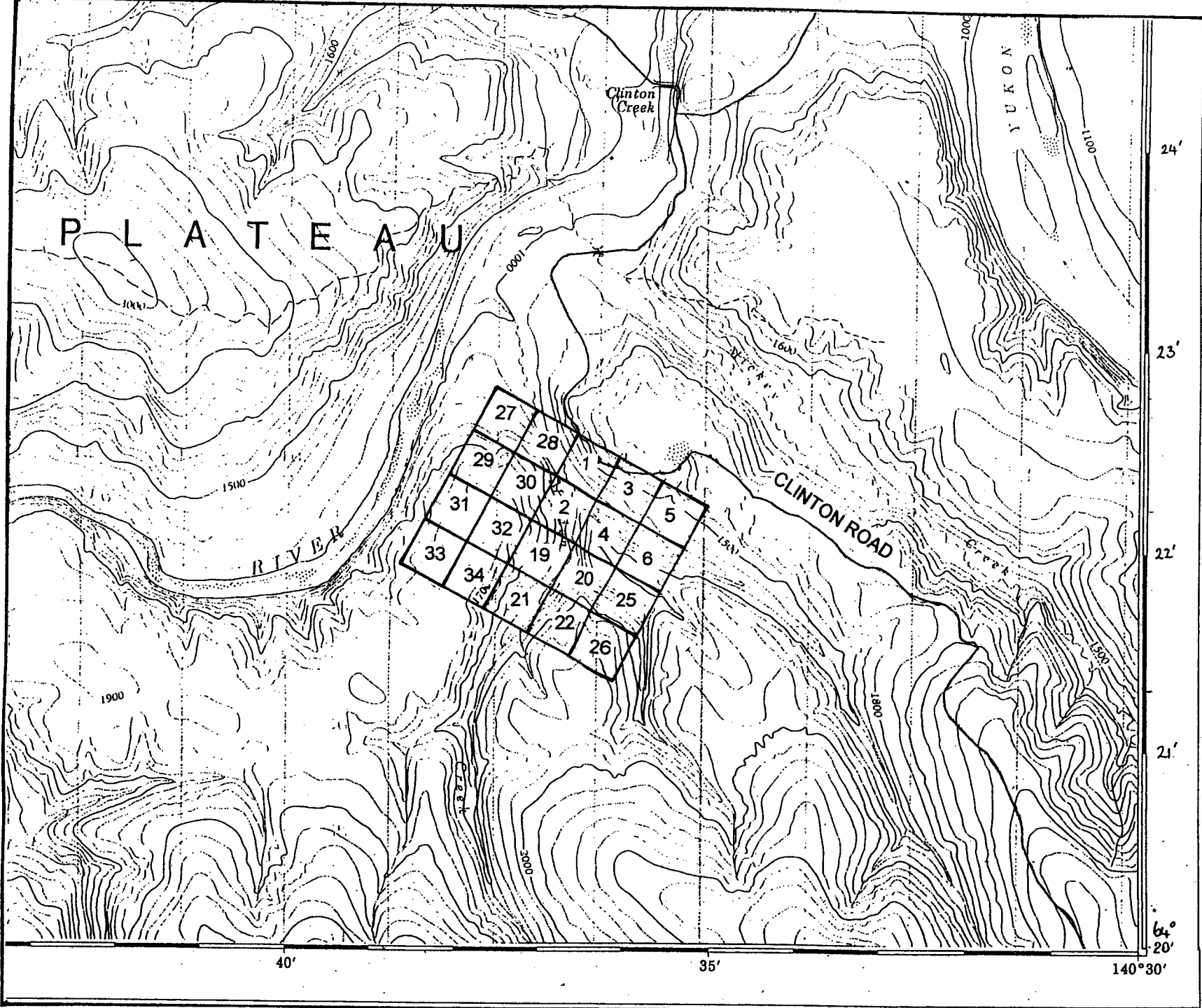
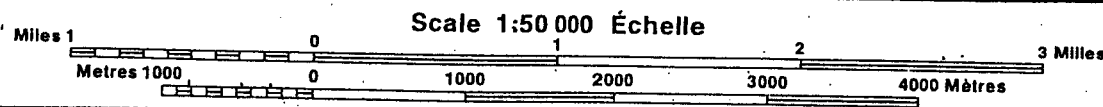


FIGURE 1

CLAIM MAP

- OAQ1 YC21101
- OAQ2 YC21102
- OAQ3 YC21103
- OAQ4 YC21104
- OAQ5 YC21105
- OAQ6 YC21106
- OAQ19 YC21119
- OAQ20 YC21120
- OAQ21 YC21121
- OAQ22 YC21122
- OAQ25 YC21902
- OAQ26 YC21903
- OAQ27 YC36178
- OAQ28 YC36179
- OAQ29 YC36180
- OAQ30 YC36181
- OAQ31 YC36182
- OAQ32 YC36183
- OAQ33 YC36184
- OAQ34 YC36185



Nov 2005

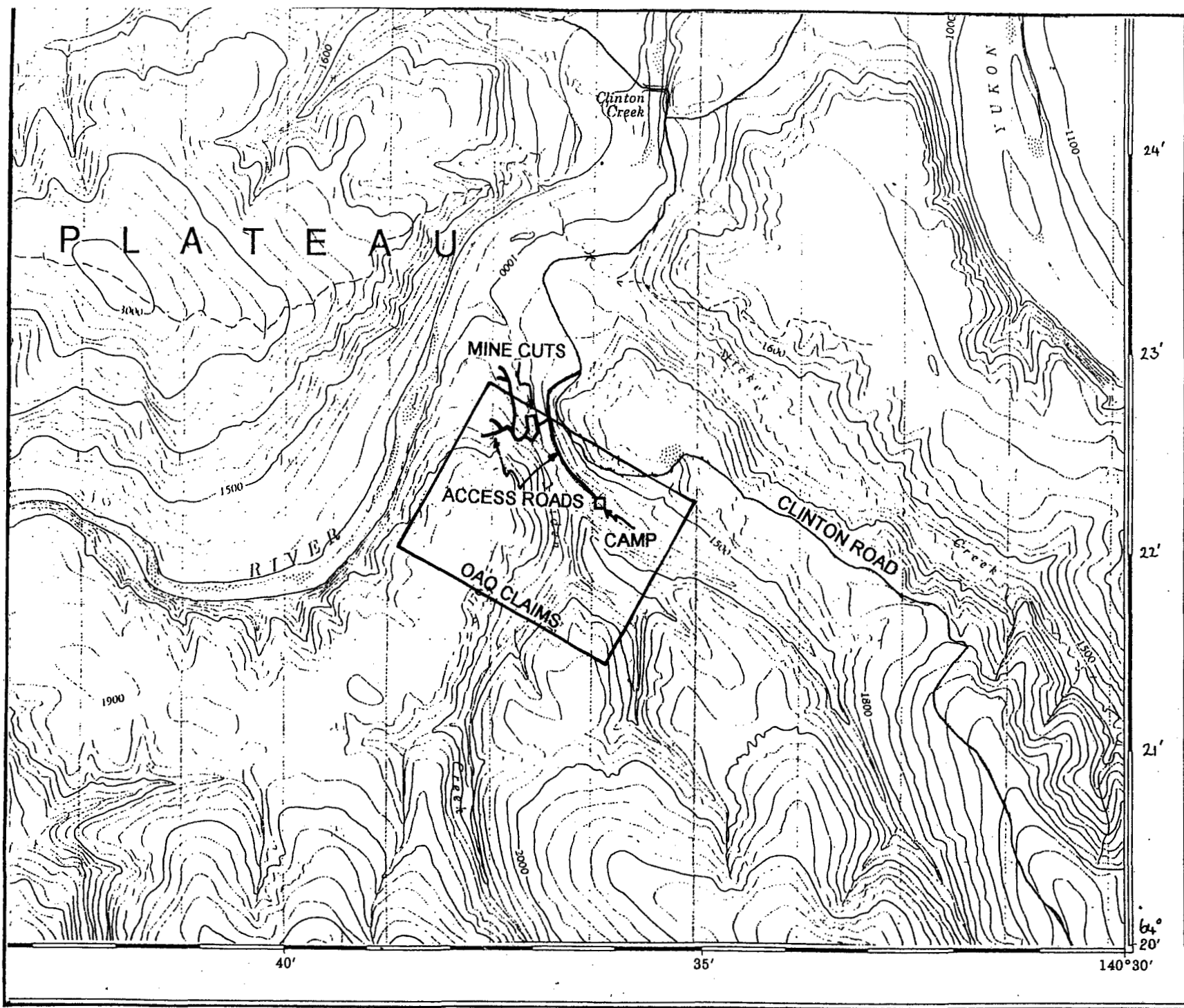
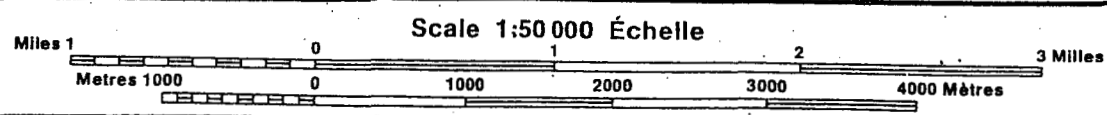


FIGURE 2
ACCESS ROADS
ON
OAQ CLAIMS



[Handwritten signature] Nov 2005

BEDROCK GEOLOGY

The area is underlain by Devonian to Mississippian Nasina Assemblage rocks of the Yukon-Tanana Terrane. The dominant rock type on the property is a black meta-pelite. Mortensen (1988) also mapped quartzites, felsic tuffs and mafic metasediments. To the south there are two granitic intrusives that have been dated from 69.8 Ma (Swede Dome pluton) to 59.4 Ma (Pluto stock). Figure 3 is a geology map of the general area taken from Mortensen (1988).

SURFICIAL GEOLOGY

The property lies within a fault-bounded sedimentary basin which has been deeply incised by the Fortymile River and its tributaries. Traditionally the sediments that accumulated in this basin have been mapped as glacio-fluvial outwash, but recent auger drilling and road rehabilitation has showed that these sediments are very similar to the Klondike White Channel gravels. Imbrication and the lack of chert 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 through a flat-lying basin from west to east depositing quartz-rich gravels in a wandering braided stream environment. For the most part the gravel-bedrock contact of these gravels lies on the 500 m (1635 ft) contour, but on the block of ground between lower Maiden creek and lower Bruin Creek this gravel-bedrock contact has been elevated by more than 30 m (100 ft), indicating recent tectonic activity.

The Fortymile White Channel gravel is so similar to the Klondike White Channel gravel that it is reasonable to ascribe a similar age and history to both. The Klondike White Channel gravel is thought to have stopped accumulating in the Late Pliocene (+/- 3 Ma.) (Lowey, 2004; Lowey, 1998; Froese and Hein, 1996). Subsequent differential uplift and the accumulation of ice barriers in the Tintina Trench forced a dramatic northward drainage reversal of the Yukon River to allow melt waters to escape. In the Klondike, rapid downcutting left the White Channel gravels high above present day creek levels (Duc-Rodkin, 1996; Templeton-Kluit, 1980). As the Yukon River cut down north of Dawson City, the Fortymile River was forced to follow suit. Today's deeply incised Fortymile drainages are, therefore, the result of relatively recent events. The tectonic event that differentially uplifted the plateau block between lower Maiden Creek and Lower Bruin Creek must be even more recent in age.

Unfortunately for both the explorationist and the miner, there are widespread accumulations of frozen muck and loess which severely limit bedrock exposure. In the backwall of the 2005 placer mine cut this overburden is 10 m (32 ft) deep, but this is an extreme example.

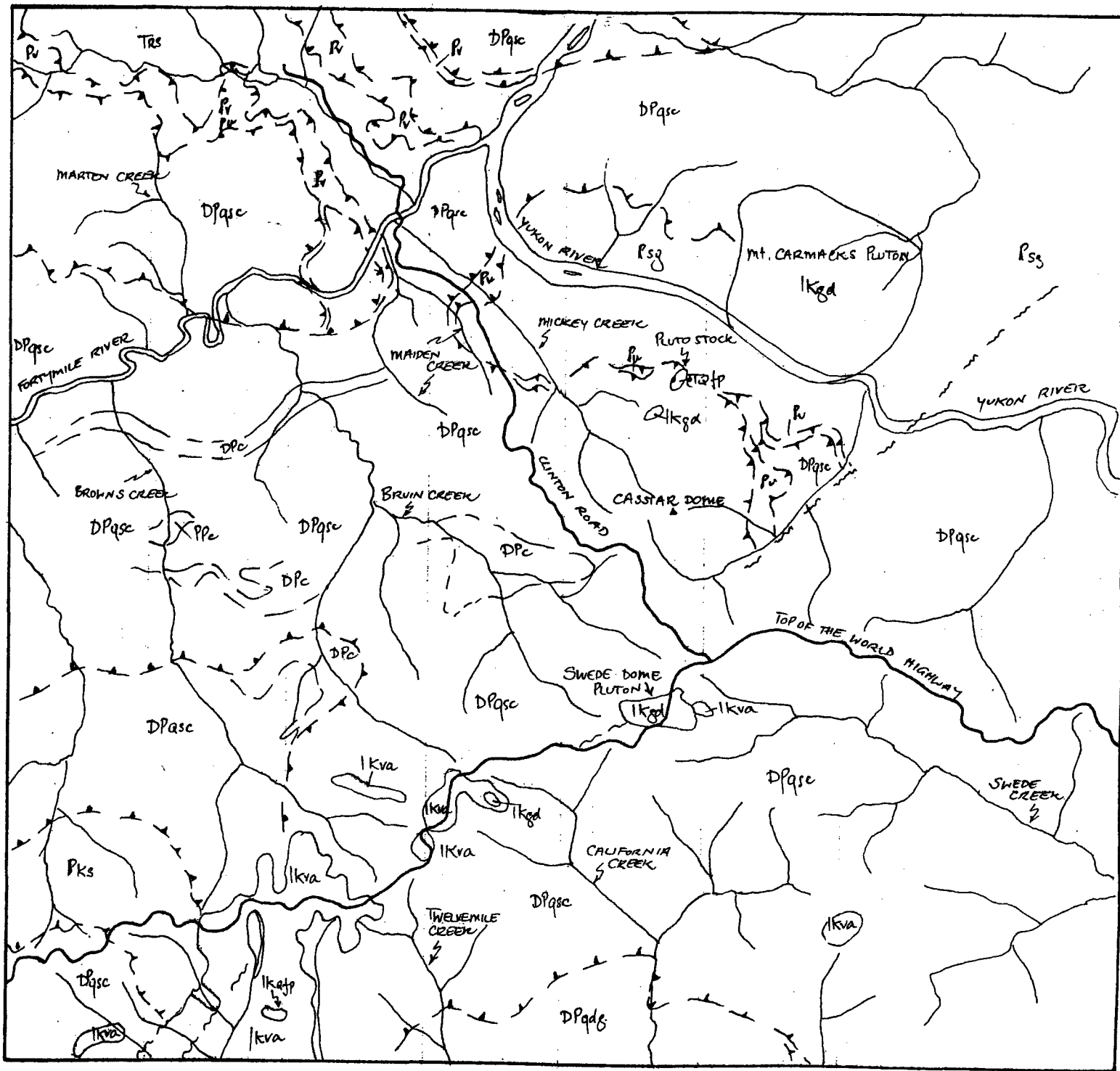


FIGURE 3
GEOLOGY

PARTS OF 116, B, C.

- TERTIARY
eTajp Qtz-feldspar porphyry
- LATE CRETACEOUS
Ikva Andesite
Ikgd Granodiorite
- TRIASSIC
TRs argillite, sandstone
- PALEOZOIC
Pu serpentinite,
Pp preestofe.
DPqsc Nasina schists,
Dpc Nasina marble.

after MORTENSEN J.K.
G.S.C. OPEN FILE 1927

SCALE 1: 250,000

NOV. 2005

HARDROCK EXPLORATION

AIRPHOTO INTERPRETATION

Figure 4 is an airphoto interpretation of that part of the Fortymile sedimentary basin between Bruin Creek and the Yukon River.

The White Channel gravel plateaus generally have a gravel-bedrock contact at the 500 m (1635 ft) contour, but the gravel-bedrock contact of the plateau block between lower Bruin and lower Maiden has been elevated to 530 m (1750 ft). (None of these elevations have been surveyed, so the numbers are approximate.)

Small gulches and gullies are thought to follow fault structures. This is particularly evident on airphotos, many gulches lining up in adjacent drainages. The coincidence of placer gold occurrences and gulches is very strong.

Recent tectonic activity is also suggested by asymmetric rejuvenation on Mickey Creek, and the circuitous course of Bruin Creek just before it joins the Fortymile.

Figure 5 is an airphoto interpretation of the area covered by claims OAQ 27 to 34.

The most important components are the NNW-SSE trending faults. Andrew Maiden's 1886 discovery was at the northern end of Maiden's Draw. Because Maiden Creek is incised, the mouth of the draw is 12 m (40 ft) above creek level. Placer gold washing out of the draw can be found on surface in Maiden Creek. Andrew Maiden dug a pit in the draw's mouth, but frozen ground and the lift from the creek would have defeated any mining attempt at that time. (There is no water flow in the draw except during spring runoff and after heavy rain).

Groundhog's mine cuts are at the mouth of a small gully which was fed with gold washed out of Maiden's Draw more than 300 m (1000 ft) to the west. The Firebreak zone, discovered and drilled in the fall of 2005, is a similar occurrence. It is anticipated that, now that we have road access to Maiden's Draw, future placer mining will be concentrated there.

Sourdough Bar was the original name for what is now an island in the Fortymile. This is where the first bucketline dredge on the Canadian Fortymile operated (Yeend, 1996). Sourdough Gulch is a very definite fault-bound feature, and the only place draining this block of White Channel plateau that has a steady surface water flow. Due to the intensity of the Fortymile River's downcutting, the Sourdough Gulch area has been scalped of much of its overburden and there is an encouraging amount of outcrop.

Bedrock exposed in all mine cuts to date has been black or grey meta-pelite exhibiting no unusual structures or alteration. Examination of cobbles in the cut backwall and in the coarse tailings also gave no clue to the nature of the gold's source area. There is a high proportion of quartz cobbles, some of which are brecciated, but this is to be expected with White Channel deposits upslope. There were very few cobbles of acidic intrusives, some brecciated with carbonate boxworks, and chloritized ultramafics are quite common. The heavy minerals recovered by the wash plant presented few surprises either. There was a moderate amount of coarse pyrite, but the other minerals were those one would expect (hematite, magnetite, garnet, olivine (?)).

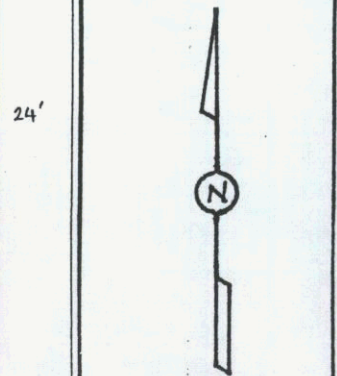
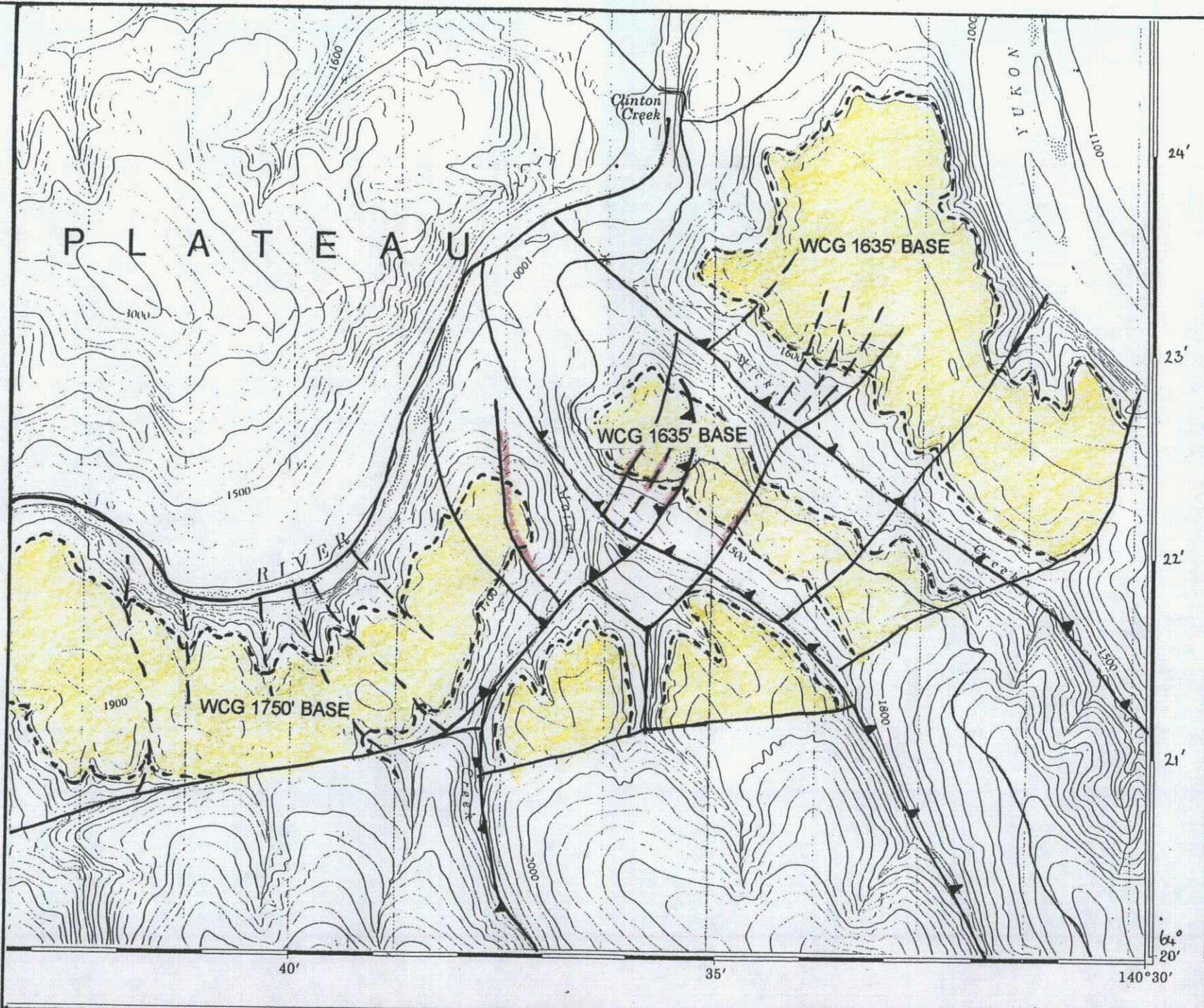

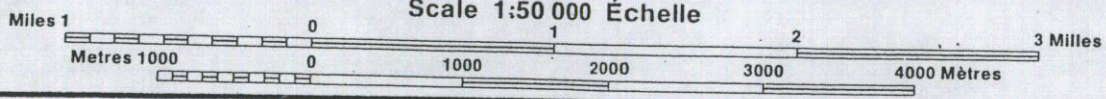


FIGURE 4
AIRPHOTO
INTERPRETATION

 WHITE
CHANNEL
GRAVEL

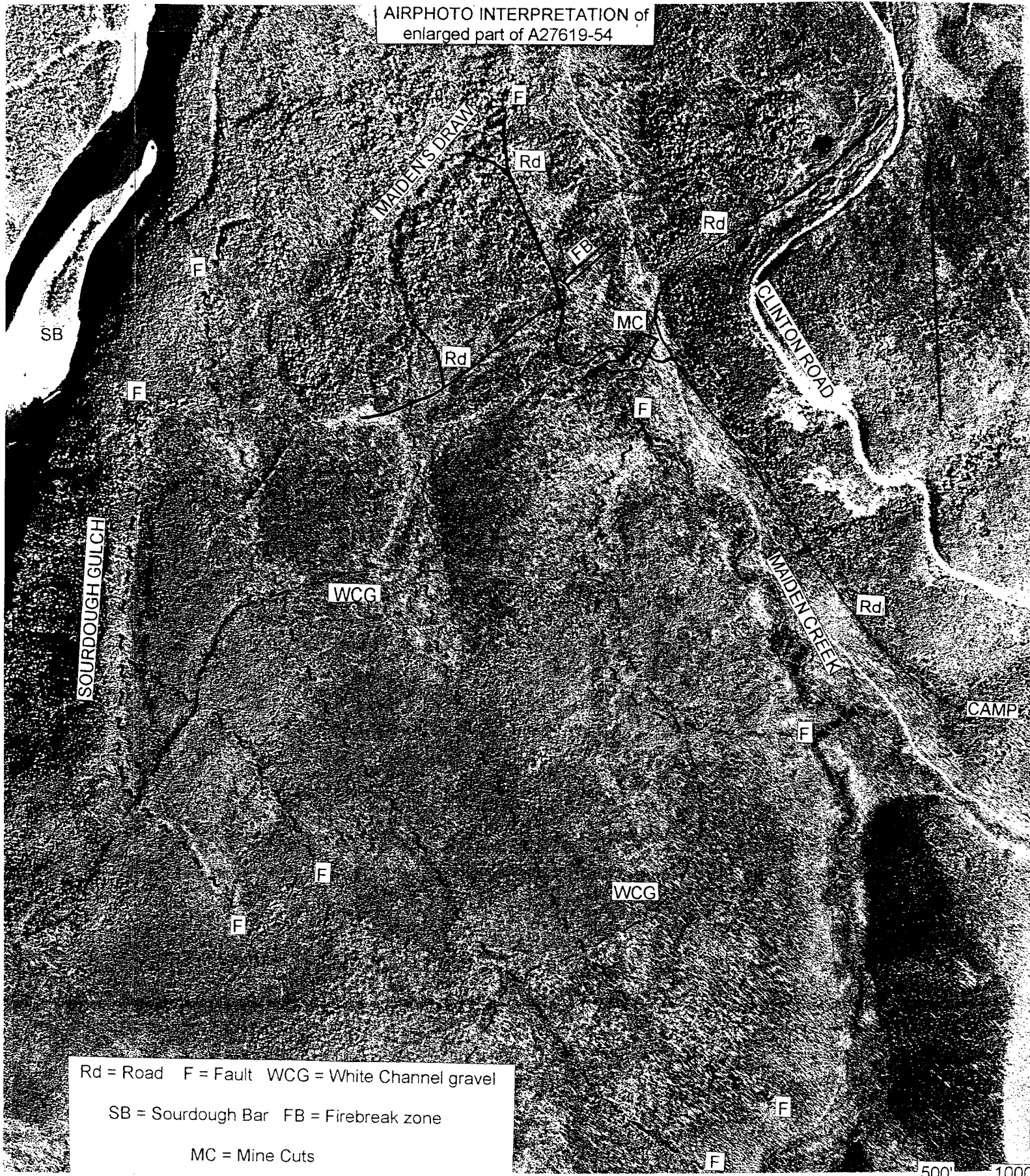
 FAULTS

 FAULTS WITH
PLACER GOLD



J Nov 2005

FIGURE 3
AIRPHOTO INTERPRETATION of
enlarged part of A27619-54



Rd = Road F = Fault WCG = White Channel gravel
SB = Sourdough Bar FB = Firebreak zone
MC = Mine Cuts

SCALE 500' 1000'

GEOCHEMISTRY

75 stream sediment and soil samples were collected by Groundex primarily from the lower Maiden Creek area between 2001 and 2005.

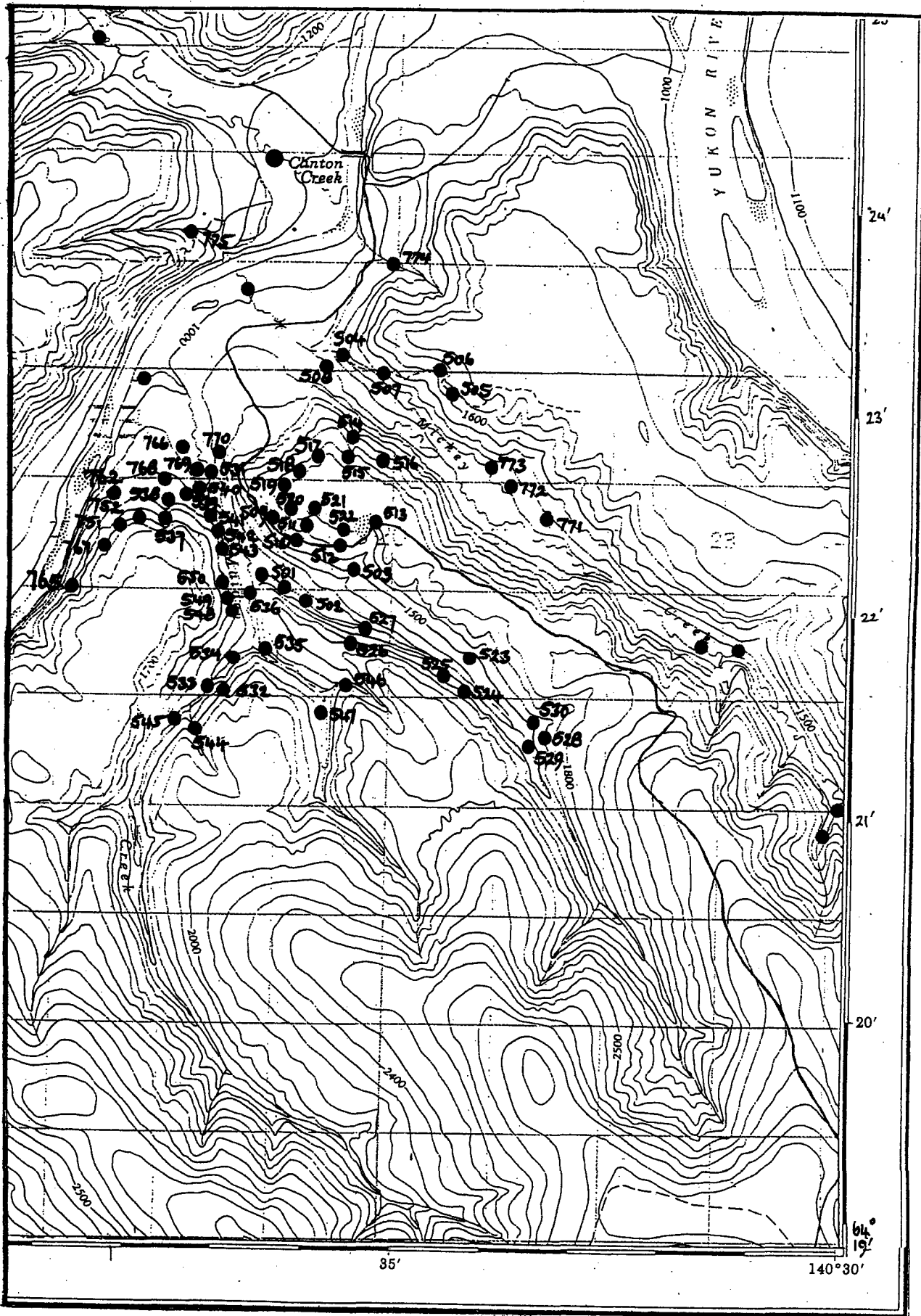
All these samples have been analyzed by ALS-Chemex for trace level gold (code Au-AA23) and 47 additional elements at ultra trace levels (code ME-MS61). The samples taken in 2005 were also analyzed for mercury.

Sample numbers and locations are shown on Figure 6, and Au results on Figure 7. The 2005 ALS-Chemex lab. reports are attached as Appendix 1.

A brief description of the locations with anomalous gold values follows:

SAMPLE No.	Au ppb	DESCRIPTION
417531	20	Maiden Creek stream sediment
417537	296	Fault draw
417538	39	Gully, probably not faulted
417539	8	Gully, probably not faulted
417540	11	Base of slide
417542	206	Quartz vein on shear
417543	23	Base of slide
417752	17	Exposed gravel

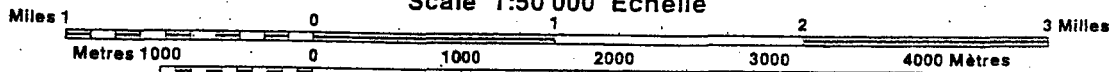
There is very little association between anomalous gold and any other elements. The anomalous fault draw (above) is likely to have coincident placer gold, but elsewhere known placer occurrences such as Maiden's draw and the Firebreak zone have no associated geochemical values, suggesting that the anomalous gold samples are indeed indicative of a hardrock source.



OAQ
MAIDEN CREEK
PROJECT

FIGURE 6
GEOCHEMISTRY
SAMPLE
NUMBERS

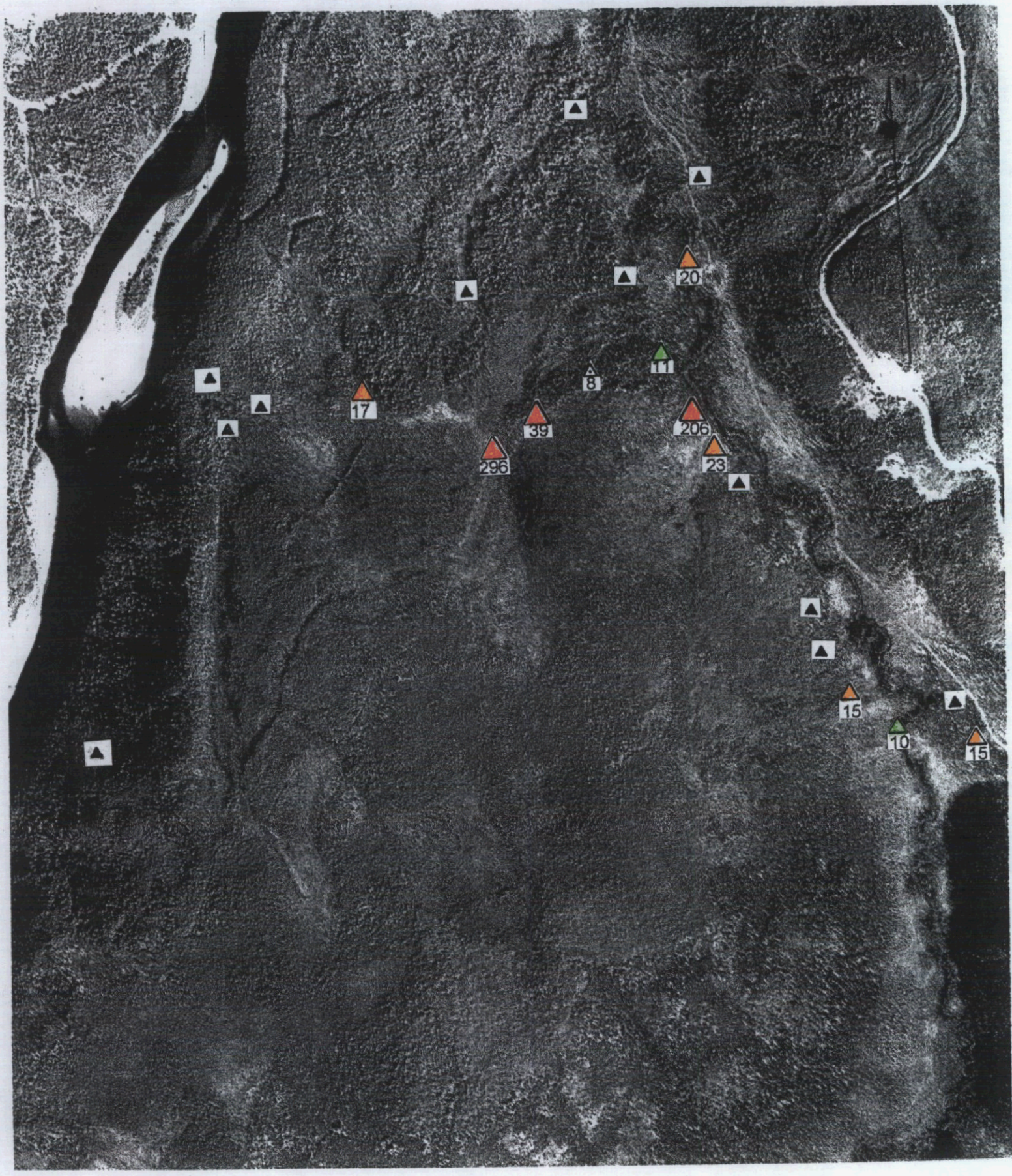
Last three digits only
Unnumbered locations
from G.S.C. Open
File 2365



Scale 1:50 000 Échelle

Nov. 2005

FIGURE 7
Au GEOCHEMISTRY
on an enlarged part of
A 27619 - 54



▲ >30 ppb, ▲ 15-30 ppb, ▲ 10-15 ppb, ▲ 5-10 ppb, ▲ <5 ppb. SCALE 0 500' 10

AUTHOR'S QUALIFICATIONS

This report was prepared by Angus Woodsend of Groundhog Exploration whose brief resume follows:

1990 to present: Groundhog Exploration evaluating placer deposits, primarily in the Yukon, particularly using auger drilling.

1986 to 1990: Consultant completing projects in Western Canada, Western U.S.A., Mexico, Ecuador, Venezuela and Zimbabwe.

1982 to 1986: Queenstake Resources, 'Engineer' on the Clear Creek dredge, Manager of the Preido Hill White Channel gravel placer mine, Exploration Geologist in Western North America.

1976 to 1982: Campbell Resources, Geologist exploring primarily for tin and tungsten in Western Canada and Alaska.

1971 to 1975: Messina (Tvl) Dev. Co., Mine Geologist and Exploration Geologist in South Africa, Rhodesia and South West Africa.

1971: Graduated B.Sc. (Hons.), Geology, Southampton University, U.K.

REFERENCES

Coutts, R.C., 1980. Yukon, Places and Names, p192.

Duk-Rodkin, A., 1996. Surficial geology, Dawson, Yukon Territory; Geological Survey of Canada, Open File 3288.

Froese, D.G. and Hein, F.J., 1996. Sedimentology of a high level terrace placer gold deposit, Klondike Valley, Yukon. In: LeBarge W.P. (ed.), 1996. Yukon Quarterly Geology Volume 1, Exploration and Geological Services Division, Northern Affairs Program, Yukon Region, p.13-26.

Lowey, G.W., 2004. Placer geology of the Stewart River (115N&O) and part of the Dawson (116B&C) map areas, west central Yukon, Canada.

Lowey, G.W., 1998. White Channel gravel, Klondike gold fields, Yukon, Canada. Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1998-2.

Mortensen, J.K., 1988. Geology of southwestern Dawson map area, Yukon; Geological Survey of Canada, Open File 1927.

Morrison, S.R., 1985. Sedimentology of White Channel placer deposits, Klondike area, west-central Yukon. Unpublished M.Sc. thesis, University of Alberta.

Templeton-Kluit, D.J., 1980. Evolution of physiography and drainage in southern Yukon. Can. Journ. Earth. Sci., vol. 17, No. 19, p. 1189-1203.

Wright, Allen A., 1976. Prelude to Bonanza, p258-263.

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

STATEMENT OF EXPENDITURES

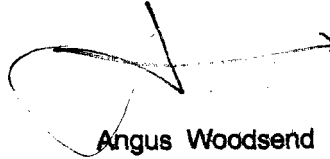
To accompany quartz assessment report on OAQ quartz claims
Dated January 25, 2006
By Angus Woodsend
For Groundhog Exploration.

Fieldwork,
4 geologist days sampling @ \$400 \$1600.00
4 helper days @ \$200 800.00
Boat and motor 1 day 100.00

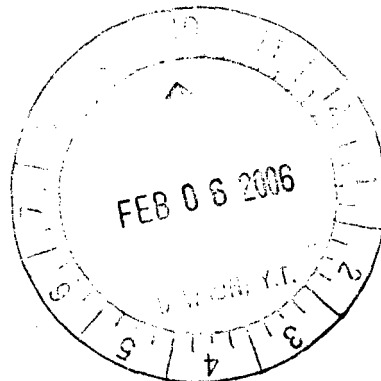
Geochemical analyses,
9 samples @ \$44.44 400.00

Reporting,
2 geologist day @ \$300.00 600.00

TOTAL \$3500.00


Angus Woodsend

25 January 2006





ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: WOODSEND, ANGUS
290 EAGLE RIDGE DR
SALT SPRING ISLAND BC V8K 2L1

INVOICE NUMBER 1322540

BILLING INFORMATION

Certificate: **VA05087439**
Account: **ORA**
Date: **20-OCT-2005**
Project:
P.O. No.:
Quote:
Terms: **Due on Receipt** C3
Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
1	BAT-01	Administration Fee	30.00	30.00
25	PREP-41	Dry, Sieve (180 um) Soil	1.25	31.25
25	ME-MS61m	ME-MS61 plus Hg by CV-AA	28.50	712.50
8.86	PREP-41	Weight Charge (kg) - Dry, Sieve (180 um) Soil	1.75	15.51
21	Au-AA23	Au 30g FA-AA finish	12.00	252.00

SUBTOTAL (CAD) \$ 1,041.26

R100938885 GST \$ 72.89

TOTAL PAYABLE (CAD) \$ 1,114.15

To: **WOODSEND, ANGUS**
290 EAGLE RIDGE DR
SALT SPRING ISLAND BC V8K 2L1

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name: ALS Canada Ltd.
Bank: Royal Bank of Canada
SWIFT: ROYCCAT2
Address: Vancouver, BC, CAN
Account: 003-00010-1001098

Please Remit Payments To :

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Page: 2 - A
Total # Pages: 2 (A - D)
Finalized Date: 20-OCT-2005
Account: ORA

CERTIFICATE OF ANALYSIS VA05087439

Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
Sample Description	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
N417751	0.26	<0.005	0.15	2.85	112.5	860	0.72	0.07	1.69	0.66	70.20	56.6	43	0.83	12.8
N417752	0.68	0.007	0.17	6.55	15.4	1110	1.36	0.16	2.00	0.48	61.30	13.2	85	2.71	30.5
N417753	0.40	0.006	0.19	4.72	5.3	1080	1.06	0.11	1.29	0.30	46.80	11.4	89	2.40	22.9
N417754	0.26	0.007	0.09	6.34	6.6	970	1.22	0.12	2.27	0.27	54.80	12.5	62	2.20	15.1
N417755	0.28	<0.005	0.10	6.49	7.5	980	1.33	0.12	2.27	0.20	62.80	14.0	70	2.32	20.8
N417756	0.52	1.420	0.09	6.23	6.0	970	1.14	0.13	2.39	0.18	61.80	16.4	153	2.53	19.7
N417757	0.24	NSS	0.11	6.71	8.5	830	1.17	0.10	2.58	0.21	42.70	21.4	175	2.60	23.2
N417758	0.24	<0.005	0.09	6.73	7.4	1060	1.40	0.12	2.19	0.19	48.30	12.3	55	2.62	19.0
N417759	0.20	0.008	0.25	6.37	13.4	990	1.36	0.17	1.73	0.50	73.90	15.4	68	3.47	29.8
N417760	0.12	<0.005	0.10	7.39	8.5	1090	1.40	0.13	2.17	0.25	48.00	15.3	67	3.02	21.6
N417761	0.36	NSS	0.25	6.32	16.6	890	1.64	0.14	1.09	0.27	71.10	12.5	69	4.40	29.7
N417762	0.12	<0.005	0.11	7.24	9.1	1050	1.40	0.14	2.18	0.24	52.00	14.4	74	3.28	21.0
N417763	0.64	0.009	0.15	4.72	8.8	790	1.01	0.10	1.24	0.37	51.50	10.6	51	2.48	19.8
N417764	0.44	<0.005	0.23	5.45	8.8	810	1.15	0.12	1.31	0.28	71.70	11.2	60	2.66	21.2
N417765	0.72	NSS	0.32	6.08	15.2	860	1.66	0.16	0.79	0.32	95.20	13.5	64	4.92	35.8
N417766	0.46	<0.005	0.13	6.18	10.0	1010	1.33	0.13	1.97	0.25	69.20	11.7	73	2.13	17.8
N417767	0.38	0.005	0.26	5.97	7.8	1020	1.35	0.14	1.69	0.45	67.50	12.0	78	3.65	23.2
N417768	0.26	NSS	0.14	1.64	3.0	520	0.48	0.04	2.74	1.21	16.60	7.1	21	0.51	25.2
N417769	0.32	<0.005	0.14	6.42	10.2	1070	1.36	0.14	2.30	0.32	58.90	12.6	71	2.58	23.4
N417770	0.52	<0.005	0.10	6.21	8.3	1030	1.24	0.12	2.26	0.25	50.40	10.4	83	1.95	17.4
N417771	0.20	<0.005	0.16	6.21	8.6	1220	1.40	0.13	1.99	0.45	70.20	10.3	75	2.48	20.2
N417772	0.28	0.007	0.19	7.59	19.3	1550	1.83	0.23	2.08	0.20	68.00	14.6	110	3.07	28.3
N417773	0.32	<0.005	0.18	6.43	13.9	1230	1.61	0.16	2.08	0.34	69.90	12.7	82	2.71	36.0
N417774	0.24	0.009	0.07	5.71	5.0	940	1.29	0.09	2.24	0.13	94.60	9.0	110	1.72	9.4
N417775	0.40	0.006	0.22	7.06	22.6	1340	1.76	0.17	1.45	0.54	83.80	17.1	133	3.99	30.7

Comments: REE's may not be totally soluble in MS61 method. NSS is non-sufficient sample.



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Page: 2 - B
Total # Pages: 2 (A - D)
Finalized Date: 20-OCT-2005
Account: ORA

CERTIFICATE OF ANALYSIS VA05087439

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
N417751		18.70	5.06	0.24	1.1	0.18	0.017	0.51	32.0	6.2	0.50	4400	7.52	0.54	4.5	29.9
N417752		3.75	14.80	0.11	2.3	0.07	0.049	1.26	32.0	22.6	1.08	557	1.76	1.46	11.9	34.9
N417753		3.28	10.30	0.10	1.2	0.03	0.036	1.17	23.8	19.3	1.08	908	1.02	0.70	8.7	42.3
N417754		3.53	14.20	0.11	1.6	0.05	0.046	1.42	27.1	16.0	1.22	814	0.85	1.60	11.0	27.0
N417755		4.10	14.90	0.12	1.4	0.03	0.048	1.39	31.3	17.5	1.28	851	0.99	1.59	11.5	29.4
N417756		6.31	15.05	0.12	1.6	0.05	0.048	1.22	30.8	17.0	1.36	1330	1.02	1.44	12.8	36.4
N417757		4.41	14.50	0.11	1.4	0.04	0.047	1.28	21.2	21.9	1.96	1110	1.04	1.46	13.5	75.6
N417758		3.53	14.60	0.10	1.3	0.03	0.043	1.53	23.8	18.3	1.28	758	0.83	1.62	9.2	25.8
N417759		3.50	15.30	0.13	1.8	0.08	0.045	1.36	38.6	26.2	0.98	945	1.36	1.26	10.7	35.6
N417760		3.91	16.75	0.11	1.5	0.05	0.051	1.62	24.4	21.1	1.50	812	1.50	1.69	9.8	33.9
N417761		3.31	15.55	0.15	1.7	0.06	0.044	2.01	41.9	33.0	0.86	572	1.46	0.75	12.4	38.7
N417762		4.03	16.30	0.11	1.7	0.03	0.051	1.56	26.6	21.4	1.46	765	1.24	1.58	10.1	31.8
N417763		2.87	10.20	0.10	1.5	0.04	0.030	1.16	25.6	20.5	0.66	712	1.08	0.79	9.5	26.2
N417764		2.74	12.85	0.12	2.1	0.04	0.038	1.19	36.5	20.7	0.75	582	1.22	1.08	10.6	25.1
N417765		3.18	16.00	0.18	1.9	0.07	0.045	1.97	55.9	33.5	0.69	524	1.48	0.43	13.5	43.5
N417766		3.33	13.90	0.13	2.1	0.03	0.041	1.26	35.1	18.2	0.99	632	1.39	1.54	11.2	27.2
N417767		2.96	14.70	0.12	2.2	0.06	0.043	1.38	35.4	24.1	0.92	569	1.12	1.14	11.6	35.1
N417768		1.11	2.85	0.05	0.5	0.13	0.011	0.23	8.0	3.3	0.39	1545	2.26	0.29	1.8	24.1
N417769		3.35	14.80	0.12	2.3	0.01	0.046	1.32	30.4	20.9	1.20	576	1.29	1.54	11.6	34.5
N417770		2.98	13.30	0.11	1.8	0.02	0.038	1.29	25.8	17.5	1.16	495	0.94	1.63	9.8	29.4
N417771		3.22	13.30	0.13	2.3	0.03	0.044	1.44	35.5	17.2	0.89	621	1.09	1.38	12.1	27.3
N417772		3.76	16.80	0.13	2.8	0.03	0.055	1.74	35.2	24.0	1.42	644	1.99	1.44	11.3	33.5
N417773		3.37	14.95	0.14	2.2	0.04	0.044	1.34	35.7	20.1	1.04	760	1.57	1.48	11.4	38.3
N417774		3.20	12.90	0.15	2.3	0.03	0.040	1.18	48.4	14.8	1.00	613	0.66	1.53	13.8	24.0
N417775		4.04	16.90	0.16	2.9	0.06	0.050	1.58	42.5	23.9	1.16	649	4.14	1.09	13.2	78.3

Comments: REE's may not be totally soluble in MS61 method. NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05087439

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		P ppm 10	Pb ppm 0.5	Rb ppm 0.1	Re ppm 0.002	S % 0.01	Sb ppm 0.05	Se ppm 1	Sn ppm 0.2	Sr ppm 0.2	Ta ppm 0.05	Te ppm 0.05	Th ppm 0.2	Ti % 0.005	Tl ppm 0.02	U ppm 0.1
N417751		1170	4.6	21.3	<0.002	0.08	0.58	3	0.5	185.0	0.26	<0.05	5.6	0.175	0.10	1.9
N417752		780	12.6	58.9	<0.002	0.03	1.40	3	1.6	261.0	0.76	<0.05	8.3	0.431	0.37	2.5
N417753		660	10.4	50.9	<0.002	0.02	0.60	2	1.1	123.5	0.57	<0.05	6.7	0.346	0.24	1.9
N417754		900	11.0	55.9	<0.002	0.04	1.03	2	1.5	287.0	0.77	<0.05	7.6	0.400	0.28	2.1
N417755		910	11.7	58.1	<0.002	0.05	1.30	2	2.6	279.0	0.75	<0.05	8.7	0.460	0.30	1.9
N417756		950	11.2	59.4	<0.002	0.05	0.98	2	2.1	267.0	0.85	<0.05	11.8	0.631	0.29	3.3
N417757		920	9.5	57.6	<0.002	0.03	0.81	2	1.7	249.0	0.85	<0.05	4.9	0.533	0.25	1.5
N417758		820	11.6	64.5	<0.002	0.03	1.00	2	1.5	285.0	0.61	<0.05	7.0	0.371	0.33	1.9
N417759		860	14.1	68.5	<0.002	0.04	1.14	3	1.6	234.0	0.71	<0.05	8.7	0.368	0.40	3.1
N417760		890	12.3	67.6	<0.002	0.03	1.19	2	1.6	286.0	0.63	<0.05	6.8	0.395	0.34	2.0
N417761		910	17.8	101.0	<0.002	0.04	1.23	3	2.9	134.5	0.80	<0.05	11.8	0.379	0.48	4.1
N417762		920	12.4	65.6	<0.002	0.03	1.12	2	1.6	282.0	0.67	<0.05	7.3	0.420	0.33	2.1
N417763		730	12.4	57.1	<0.002	0.03	0.87	3	1.2	151.0	0.66	<0.05	7.0	0.344	0.28	2.3
N417764		660	12.0	61.6	<0.002	0.03	0.72	3	1.3	196.0	0.71	<0.05	8.3	0.360	0.34	2.7
N417765		840	17.6	105.0	<0.002	0.04	1.60	4	2.1	108.0	0.90	0.06	14.8	0.351	0.49	5.9
N417766		800	11.6	57.6	<0.002	0.02	1.13	2	1.7	274.0	0.76	<0.05	9.2	0.426	0.33	2.4
N417767		820	19.3	70.1	<0.002	0.04	1.03	3	1.6	212.0	0.76	<0.05	9.6	0.404	0.40	2.7
N417768		1450	3.5	9.7	<0.002	0.24	0.85	3	0.4	151.0	0.11	<0.05	1.9	0.080	0.07	0.7
N417769		870	12.0	59.7	<0.002	0.03	1.15	2	1.5	276.0	0.77	<0.05	7.7	0.402	0.34	2.1
N417770		840	10.5	53.2	<0.002	0.02	0.98	2	1.3	286.0	0.64	<0.05	6.4	0.376	0.29	1.7
N417771		910	92.0	62.9	<0.002	0.01	1.02	2	1.6	261.0	0.82	<0.05	10.0	0.453	0.32	2.4
N417772		740	16.0	71.3	<0.002	0.04	1.47	3	1.9	263.0	0.76	<0.05	10.0	0.387	0.43	3.1
N417773		900	13.2	62.9	<0.002	0.06	1.53	3	1.6	275.0	0.80	<0.05	9.2	0.396	0.37	2.8
N417774		910	9.3	50.9	<0.002	0.01	0.77	2	1.5	280.0	0.94	<0.05	12.4	0.557	0.26	2.6
N417775		890	16.2	76.0	<0.002	0.03	2.84	4	1.8	217.0	0.87	0.05	10.6	0.432	0.55	2.7

Comments: REE's may not be totally soluble in MS61 method. NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05087439

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
N417751		110	0.5	21.9	91	31.3
N417752		134	1.2	19.7	91	59.0
N417753		97	0.8	18.8	98	30.5
N417754		109	1.0	21.0	80	37.1
N417755		122	4.3	21.4	84	33.4
N417756		184	8.0	23.1	87	36.8
N417757		130	0.8	18.6	100	34.0
N417758		102	1.2	17.2	86	30.6
N417759		112	1.0	21.9	143	48.9
N417760		119	1.8	18.0	104	36.5
N417761		122	1.0	21.6	127	46.0
N417762		126	3.1	18.8	94	42.9
N417763		93	1.0	19.1	135	36.0
N417764		101	1.0	16.8	91	53.1
N417765		113	1.0	26.2	133	50.2
N417766		118	1.0	19.1	78	50.9
N417767		114	1.5	19.4	131	55.7
N417768		27	0.3	8.1	39	15.0
N417769		124	1.0	18.6	88	57.3
N417770		114	0.9	16.3	76	43.7
N417771		116	1.7	17.8	168	55.1
N417772		114	1.3	20.8	97	69.0
N417773		120	1.1	19.1	86	56.2
N417774		118	1.2	20.9	70	57.2
N417775		133	1.8	17.7	124	74.9

Comments: REE's may not be totally soluble in MS61 method. NSS is non-sufficient sample.