ORO ALTO VENTURE

PROSPECTING - GRUBSTAKE PROGRAM

YUKON MINING INCENTIVES PROGRAM

PROJECT # 01-040

MAIDEN, BRUIN, AND MICKEY CREEK AREAS

FORTYMILE DISTRICT

YUKON

NTS 116-C-7

A.WOODSEND

November 2001

SUMMARY

Exploration in the Maiden, Mickey and Bruin Creek areas of the Fortymile District has been successful in indicating several hardrock and placer exploration targets.

Reconnaissance geochemical sampling, aerial photograph interpretation, preliminary surface prospecting, and the results from 29 auger drill holes (conducted as part of separate programs) have led to several realisations:

1) There is a Fortymile equivalent to the Klondike White Channel gravel which carries economically viable placer gold values;

2) These placer values do not appear to be purely detrital in origin but instead are likely to have been introduced into the basal Fortymile White Channel gravels hydrothermally;

3) The hydrothermal fluids responsible for mineralisation were generated by intrusive events which are thought to be quite recent in age;

4) Two granitic plutons are suspected, one under the Maiden Creek structure which has probably breached the surface, and the other under the mouth of Bruin Creek which remains hidden.

The proposed focus of 2002 hardrock exploration is geological mapping and continued geochemical sampling with an emphasis on the Maiden Creek structure. It would be particularly useful to obtain an age date for the intrusive event(s).

Ten placer targets have been chosen with an eye to accessibility and the likelyhood of economic viability, though given time and funding constraints it may not be possible to evaluate all these targets in 2002.

Exploration, both hard rock and placer, is in its very early stages and there are still many more questions than answers. Sensible choices must be made regarding the 2002 exploration programs so as to develop the various properties to greatest effect.

CONTENTS

INTRODUCTION

This is a report on the grass-roots exploration conducted by the Oro Alto Venture in the Maiden, Bruin and Mickey Creek areas of the Fortymile District of the Yukon (NTS 116-C-7) during 2001.

This work received funding from the Yukon Department of Economic Development under the Yukon Mining Incentives Program, project designation number 01-040, and this report is in compliance with the terms and conditions of the contribution agreement.

According to this agreement the contents of this report are to be kept confidential until 31 March 2007.

Appreciation is given to Mr. Roger Hulstein, geologist, for helpful technical advice.

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.

The Fortymile Placers road is a private road to the Fortymile Placers (W.Claxton and L.Chapman) base at the mouth of Marten Creek.

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, most of which was rehabilitated by the Oro Alto Venture in 2001.

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

The Pluto trail was constructed in 1980 to explore a Mo-(W) prospect. It is presently blocked by windfall but could be rehabilitated with little surface disturbance.

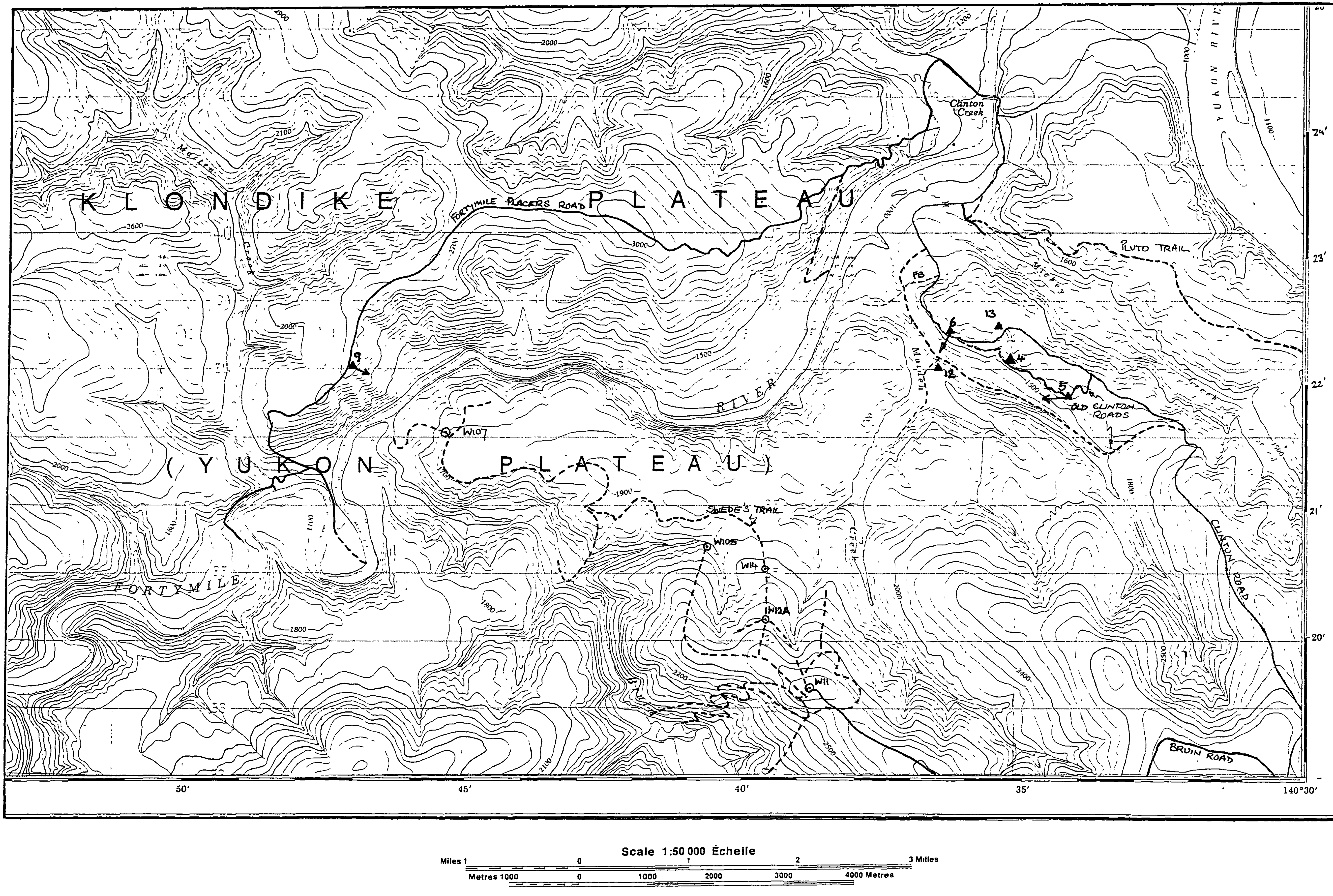

FIGURE 1.

ORO ALTO VENTURE

LOCATION AND ACCESS

ROAD
TRAIL
⊙ W14 G.P.S. Waypoint
▲4 PHOTO NUMBER AND LOCATION.

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The Bruin Road is a summer road accessible with 4x4 vehicles in dry weather to GPS waypoint W11. Most of the trails beyond this point were constructed in attempts to gain access to lower Bruin Creek.

Oro Alto cleared ATV access to waypoints W12A and W105 in 2001. The saddle north of W12A is occupied by frozen muck, an impediment to road building.

A boat trip was made to the mouth of Bruin Creek and the trail up to waypoint W107 was walked. This route is very steep and also underlain by frozen muck.

The conclusion reached regarding future access possibilities onto the plateau between Bruin and Maiden Creeks is that the only realistic route for a summer road would be from W11 to W105, and across the Bruin right limit tributary at this point to link up with Swede's trail. Such an access road would require serious heavy equipment work.

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. Within the area covered by Fig.1 the only serious prospects appear to have been the Fortymile property (Yukon Minfile 116-C-7 #118, Au-Ag vein) and the Kink property (Yukon Minfile 116-C-7 #163 Au vein).

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.

2000 PLACER DRILL PROGRAM

The 2000 drill program was conducted using a Nodwell-mounted auger drill with Angus Woodsend as operator.

A line of holes was sunk through the lower gravels and into the underlying bedrock on the hillside on the northeast side of lower Maiden Creek. By the end of this program three important things were apparent.

1. The gravel deposit itself was so similar to the Klondike White Channel gravel that it was referred to as the Fortymile White Channel gravel.

2. The gravel deposit was essentially flat lying.

3. The gravel did indeed contain gold, sometimes in economic amounts, and some of the gold was coarse and crystalline.

As a result it was concluded that more drilling was necessary to delineate mineable placer reserves, and that an effort should be made to look for the hard rock source of the placer gold.

2001 PLACER DRILL PROGRAM

Auger drilling in 2001 was funded in part by the Yukon Mining Incentives Program (Project 01-041), for which a separate report has been filed.

The old Clinton road was cleared out and a drill road was built around the hillside twenty to twenty five feet above the bedrock contact. It had been hoped that the drill line could be extended far enough to tie in to the 2000 drilling, but unstable ground conditions stopped the drill road short.

In general the 2001 drill results were less encouraging than those of the previous year, but more careful analysis of all the drill information to date revealed some very interesting patterns and correlations which can be summarised as follows:

1) The Fortymile White Channel gravels in the section drilled were flat lying with the gravel - bedrock contact following the 1635 ft contour.

2) Most of the gravels drilled carried only background, sub-economic amounts of placer gold as extremely fine particles with just a slight concentration near bedrock.

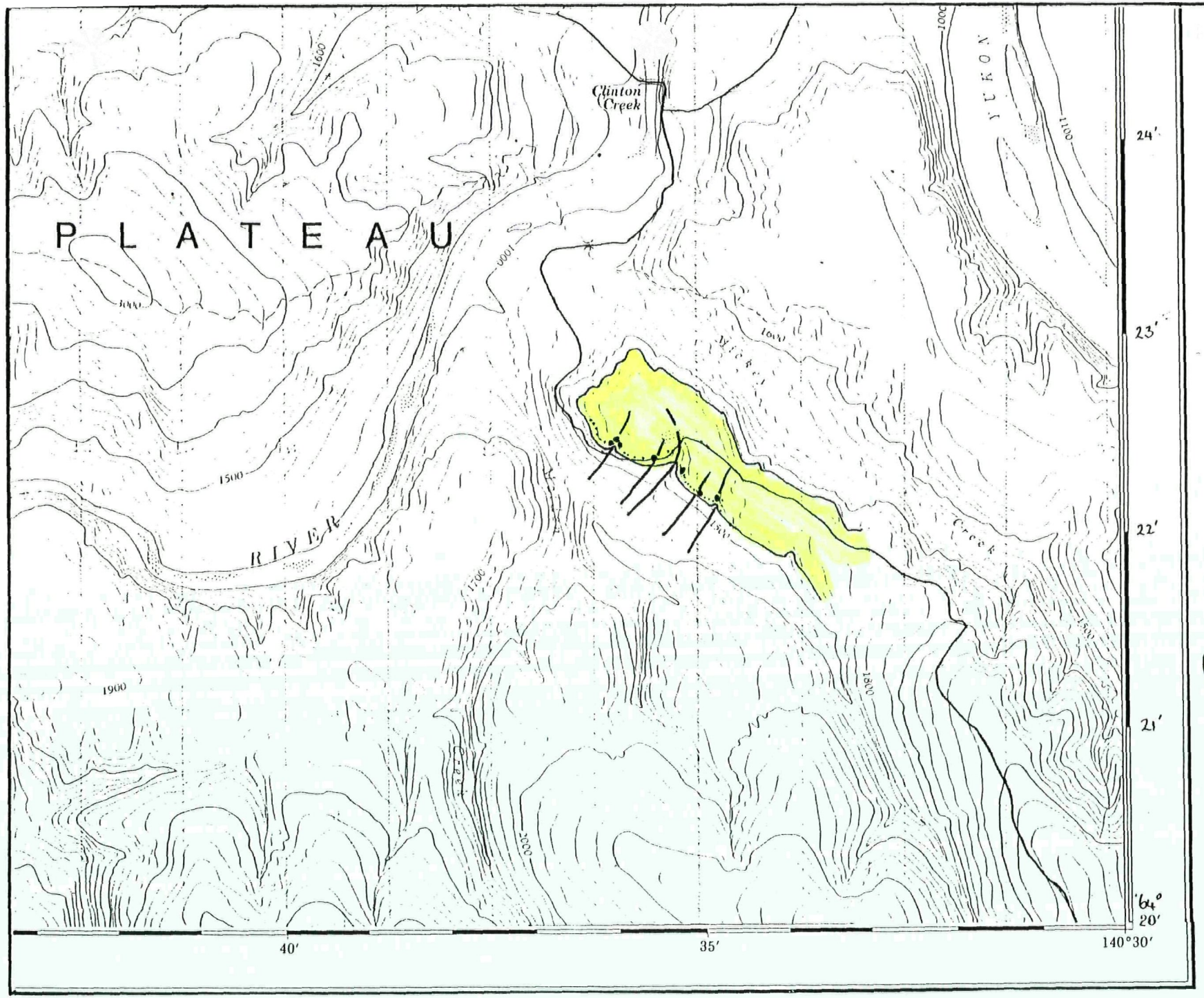
3) Economic concentrations of gold depended on the presence of significantly coarser particles, many of which were hackly or crystalline.

4) This coaser gold seemed to lie in basal gravels that were sticky, more clayey, and therefore more difficult to wash.

5) There also appeared to be a correlation between economic holes and small draws or gulches.

Figure 2 shows the location of the 2000 and 2001 drilling and the relationship between the better holes, the White Channel gravel - bedrock contact and small gulches and draws.

As mentioned, the drill road had to be stopped short before reaching the gulch immediately west of the last hole drilled due to unstable water saturated overburden. It seemed quite possible that the ground was in this condition because it lay directly on a fault plane, and it was this fault which determined the position of the gulch itself. Having reached this conclusion it was a short step to wonder whether the other draws on this hillside were also following fault lines.



Scale 1:50 000 Échelle

Miles 1 0 1 2 3 Milles

Metres 1000 0 1000 2000 3000 4000 Mètres

7-

FIG. 2.

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PLACER DRILL HOLES AND RELATED FEATURES

WHITE CHANNEL GVL - BEDROCK CONTACT.

DRILL HOLE.

SIGNIFICANT Au.

FAULT LINE.

Nov 2001

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 terrahe 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).

The Fortymile White Channel gravels were deposited within this terrane 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 east of the study area. 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.

Figure 4 is a photograph of the White Channel 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.

FIGURE 3.

GEOLOGY

PARTS OF 116, B.C.

TERTIARY

eTqfp Qtz-feldspar porphyry

LATE CRETACEOUS

lKva Andesite

lKgd Granodiorite

TRIASSIC

TRS argillite, sandstone

PALEOZOIC

Pu Serpentinite.

Pv greenstone.

DPqsc Nasina schists.

DPc Nasina marble.

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

SCALE 1: 250,000

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FIGURE 4. FORTYMILE WHITE CHANNEL GRAVEL

EXPLORATION FOR A HARDROCK SOURCE

INITIAL CONCEPT

By the end of the 2000 placer drill program it was known that there were economically viable placer gold concentrations in the basal levels of what was by then called the Fortymile White Channel gravel Terraces underlain by these gravels had been mapped upstream as far as the Alaskan border (Duk-Rodkin, 1996)

The presence of coarse hackly crystalline gold suggested a nearby source, not one so far removed as to lie in Alaska The dredge that sank at the mouth of Bruin Creek was said to have been recovering coarse gold, and the nearest known heat source (intrusive) in this general upstream direction was the Late Cretaceous Swede Dome pluton (see Fig 3)

For these reasons several days were spent in June of 2001 assessing possible access routes onto the plateau between Bruin Creek and Maiden Creek By the end of the 2001 placer drill program, though, the suspicion was that the source of the placer gold was closer than that

INTERESTING STRUCTURES ON MAIDEN LEFT FORK

Looking west from the old Clinton road there are several clear views of the hillside opposite where a break in slope indicates the White Channel gravel - bedrock contact

Figures 5 and 5A show this contact on the Maiden left fork slope and on the hillside beyond However on the saddle in the centre of the photograph the contact cannot be seen

From a point on the main Clinton road a little more than a mile to the northwest one gets another clear view to the west This is shown in Figures 6 and 6A

(The locations from which photographs were taken are shown on Fig 1)

Referring to Figure 6, the White Channel gravel - bedrock contact is seen in the distance on the far left of the photograph To the right of this is the low-lying saddle, and to the right again a higher ridge that should show the White Channel - bedrock contact, but does not

FIG. 5.

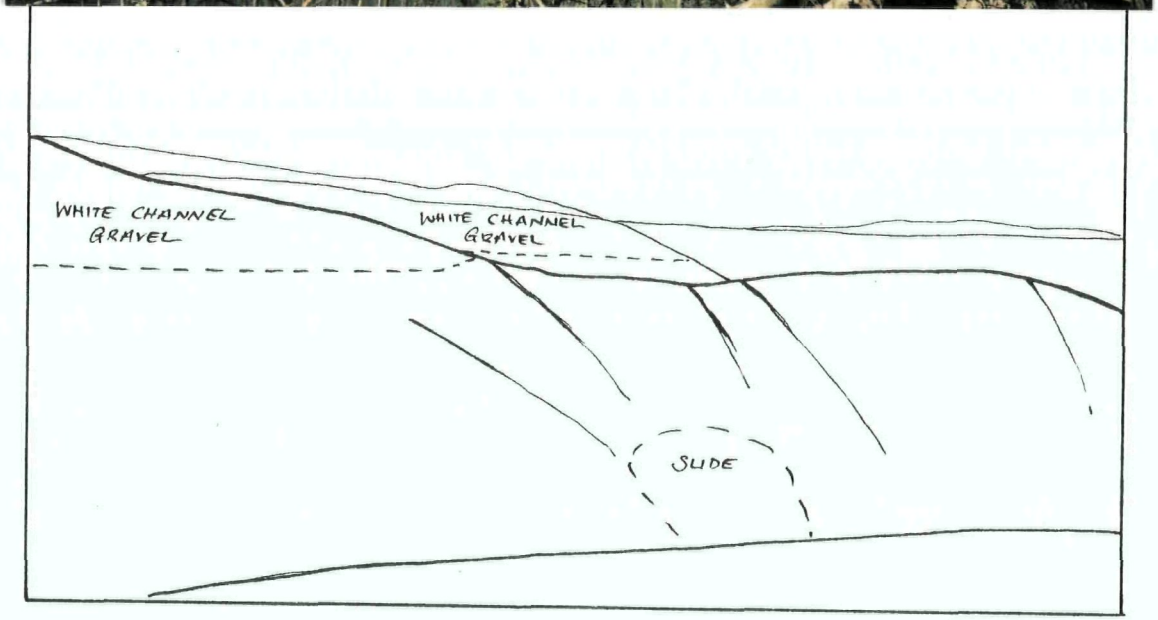

FIG. 5A
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VIEW WEST FROM OLD CLINTON ROAD.

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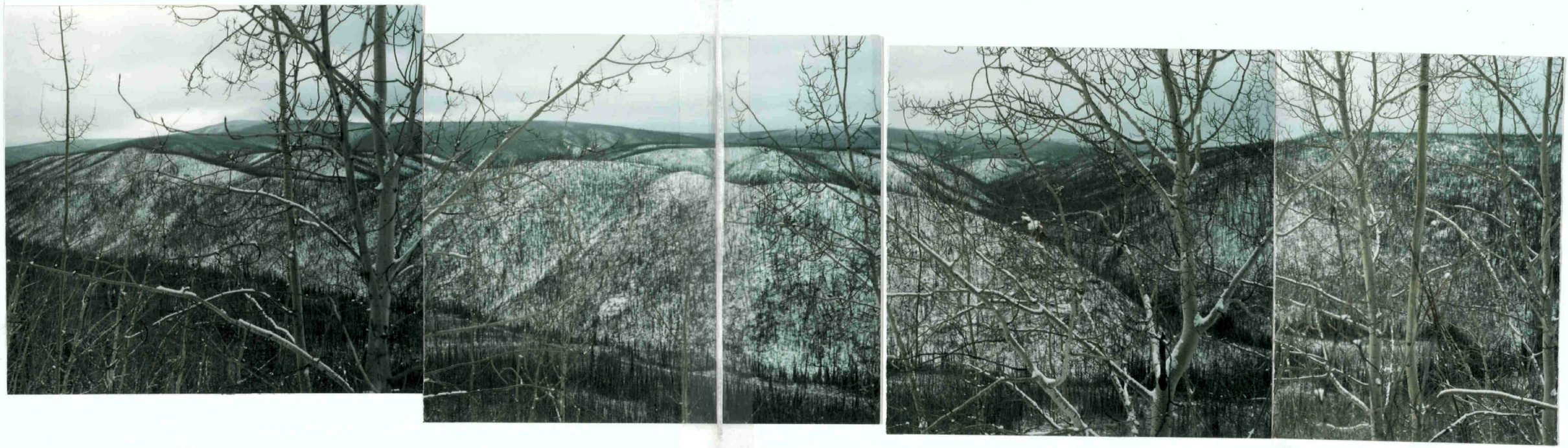

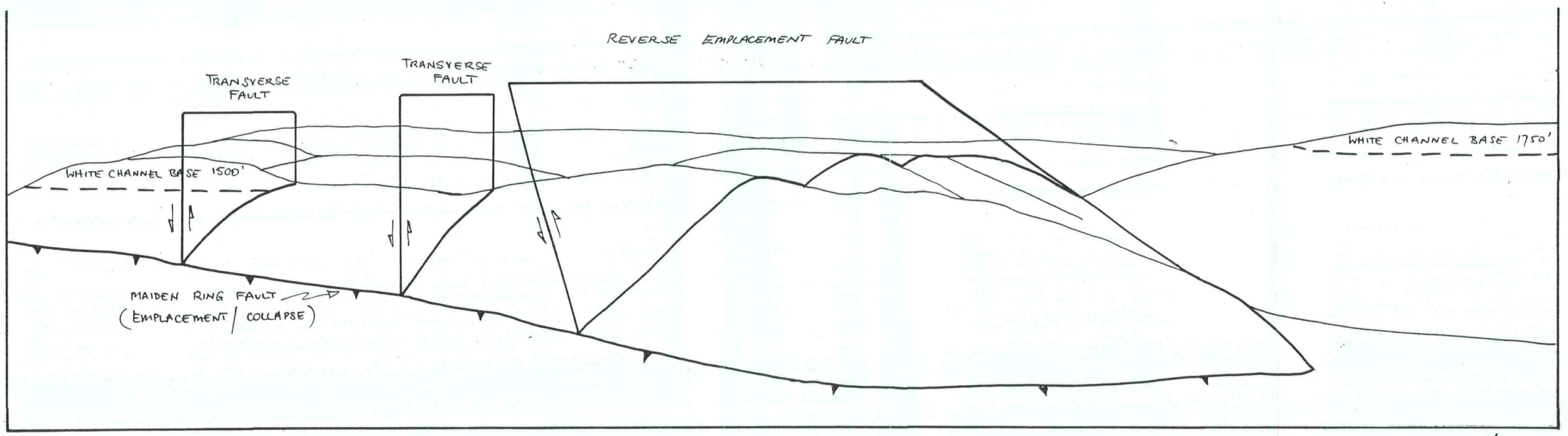

FIGURE 6 AND 6A. VIEW WEST FROM CLINTON ROAD.

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One explanation for this interruption in the White Channel - bedrock contact line could be that this ridge represents an 'island' of higher ground which divided the flow of the paleo-Fortymile.

On the far right of Figure 6 the White Channel - bedrock contact reappears, as if in support of the 'island' concept, except that the contact is now at a significantly higher elevation - more than 200 ft higher. One has to invoke post-depositional tectonics to account for such an elevation change.

Figure 6A is an interpretation of the structures causing these features.

If tectonic events such as faulting and differential uplift have played a hand here, what caused them, and when did they occur? Since the faults appear to have penetrated most (if not all) of the White Channel sequence, and the differential uplift has affected whole blocks of White Channel ground, these events must be younger than the gravels themselves. What, then, is the age of the White Channel gravel?

THE AGE OF THE KLONDIKE WHITE CHANNEL GRAVEL

Lowey (1998), and Froese and Hein (1996) describe the Klondike White Channel gravel as being deposited by a wandering braided river system running in broad valleys and basins during warmer wetter climate regimes. Gravel accumulation is thought to have started more than 5 million years ago in the Miocene, and ended with climatic cooling and the onset of pre-Reid glaciation.

The Klondike White Channel gravels are overlain by the Klondike gravels which are interpreted as being pre-Reid glaciofluvial deposits. On Mosquito Creek a tephra bed which penetrates some Klondike gravels has been dated at 1.2 Ma (Froese and Hein, 1996; Morison, 1985).

The conclusion follows that the Klondike White Channel gravel had stopped accumulating before the onset of pre-Reid glaciation, prior to 1.2 Ma.

Soon after this, differential uplift and the accumulation of ice barriers in the Tintina Trench forced a dramatic northward drainage reversal of the Yukon River to allow meltwaters to escape. Associated downcutting left the Klondike White Channel deposits high above present day creek levels (Duk-Rodkin, 1996; Templeton-Kluit, 1980).

THE AGE OF THE FORTYMILE WHITE CHANNEL GRAVELS

The Fortymile White Channel gravels are so similar to the Klondike White Channel gravels that, with Ockham's razor in mind*, both should be considered to be of much the same age and the product of much the same processes.

Just as in the Klondike, the bedrock underlying the Fortymile gravels is often a highly weathered red to ochre-coloured clay reminiscent of saprolite, an indicator of a warmer and wetter climate. (Miners refer to such bedrock as 'gumbo'.)

The Fortymile deposits have also been abandoned by the present day drainages, left as flat-topped terraces hundreds of feet above the current creek levels. The same Yukon River reversal that left the Klondike White Channel deposits high and dry affected the Fortymile River as well, causing the rapid rejuvenation which cut the abrupt incised channels seen today.

In the Alaskan Fortymile Yeend (1996) describes high-level Fortymile terrace gravels derived from local rock types with schist and quartzite as the dominant clasts.

At Lost Chicken Creek a tephra bed overlies these terrace gravels. The tephra has been dated at 1.7 to 2.6 Ma. It seems likely then that these Alaskan high terrace gravels are equivalent to the Klondike gravels which puts the termination of the Fortymile White Channel sedimentation as much as 2.6 Ma ago.

* William Ockham, 1285-1349(?); 'Entities are not to be multiplied beyond necessity'.

AERIAL PHOTOGRAPH INTERPRETATION

Figure 7 shows an airphoto interpretation. The aerial photographs used were A27619 24 to 26, and A27619 51 to 55.

Figure 8 is a photocopy of airphoto A27619 - 52.

There are eight 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 transcordant 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) An elliptical structure at the mouth of Bruin Creek signaling a second more deeply buried pluton.

7) 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) the next lowest block with a base at 1550 ft over the subsided Bruin pluton, (see Figures 9 & 9A);

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

d) a block between the two plutons with the gravel base at 1750 ft, forced up by a reverse fault caused by pluton emplacement.

Figure 10 is a three dimentional representation of the Mickey-Maiden structures.

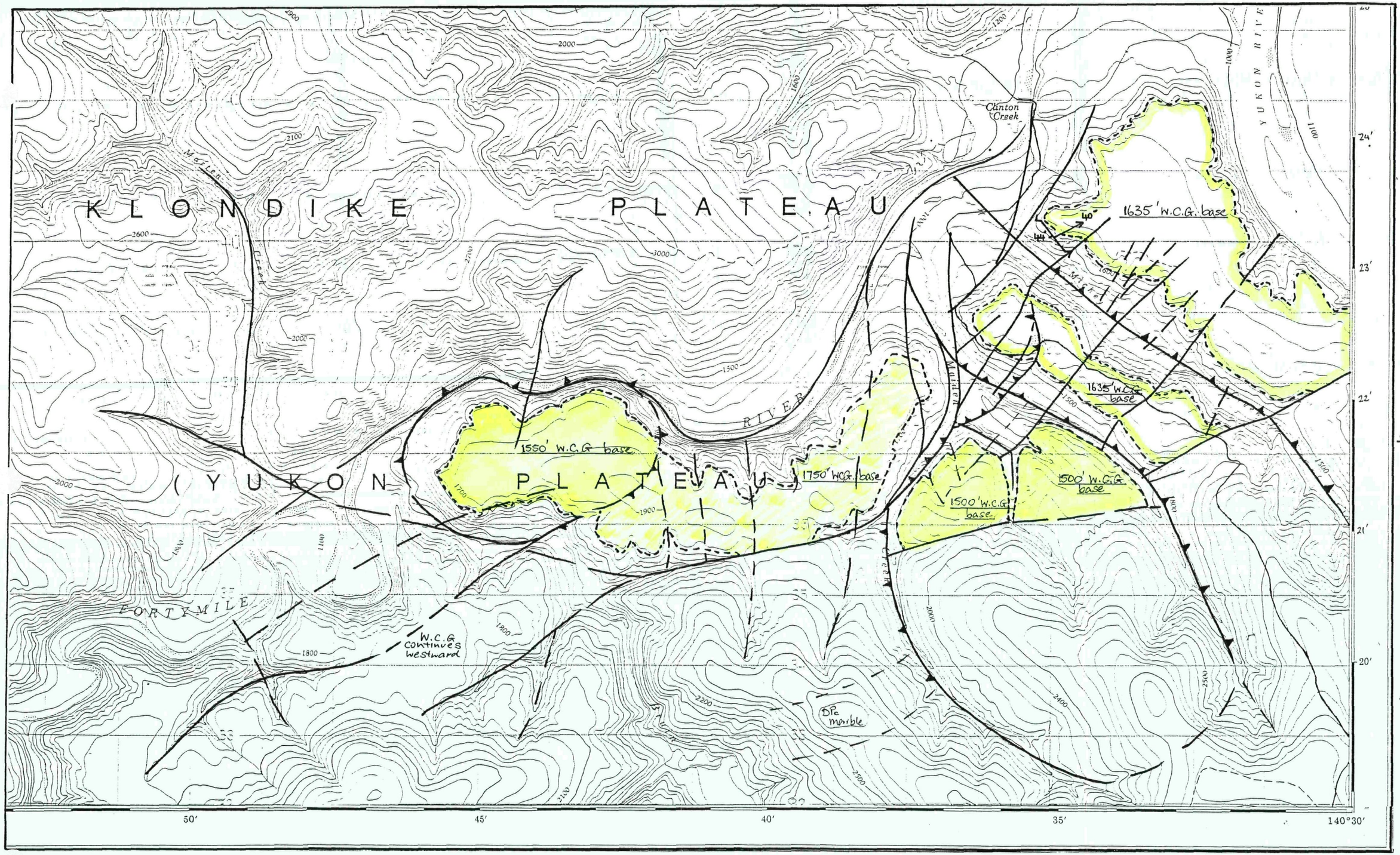

FIG. 7.

ORO ALTO VENTURE

AERIAL PHOTOGRAPH INTERPRETATION

Scale 1:50 000 Échelle

Miles 1 0 1 2 3 Miles

Metres 1000 0 1000 2000 3000 4000 Mètres

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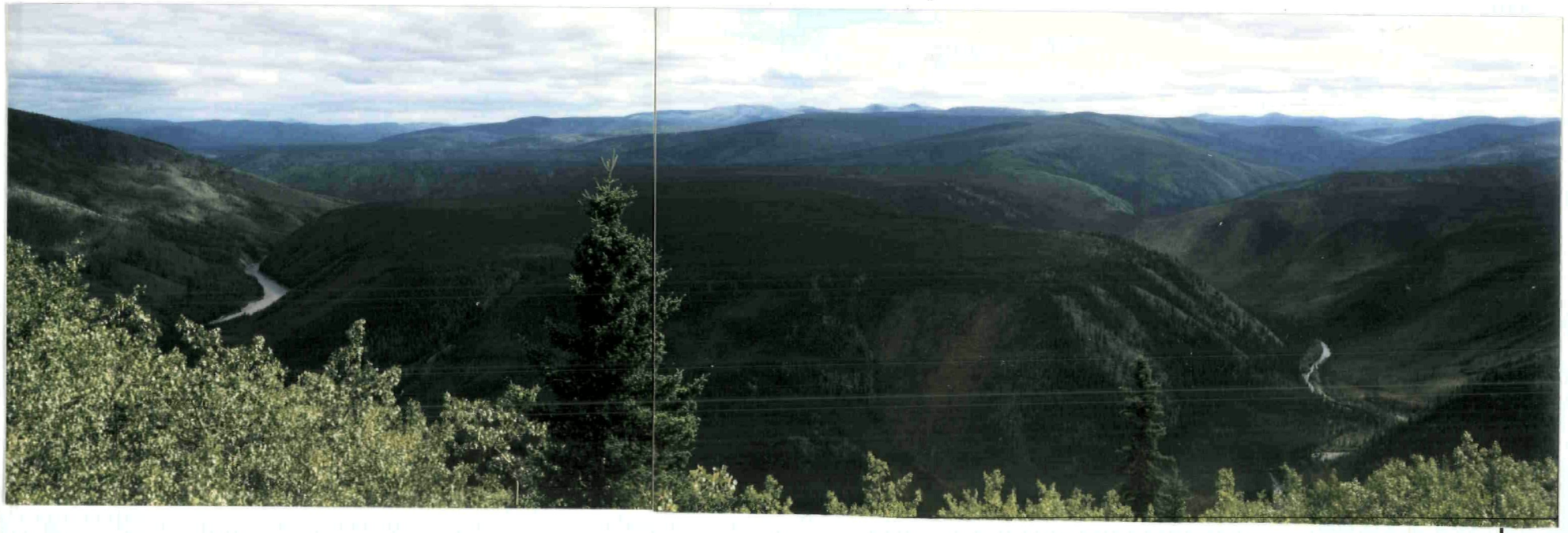
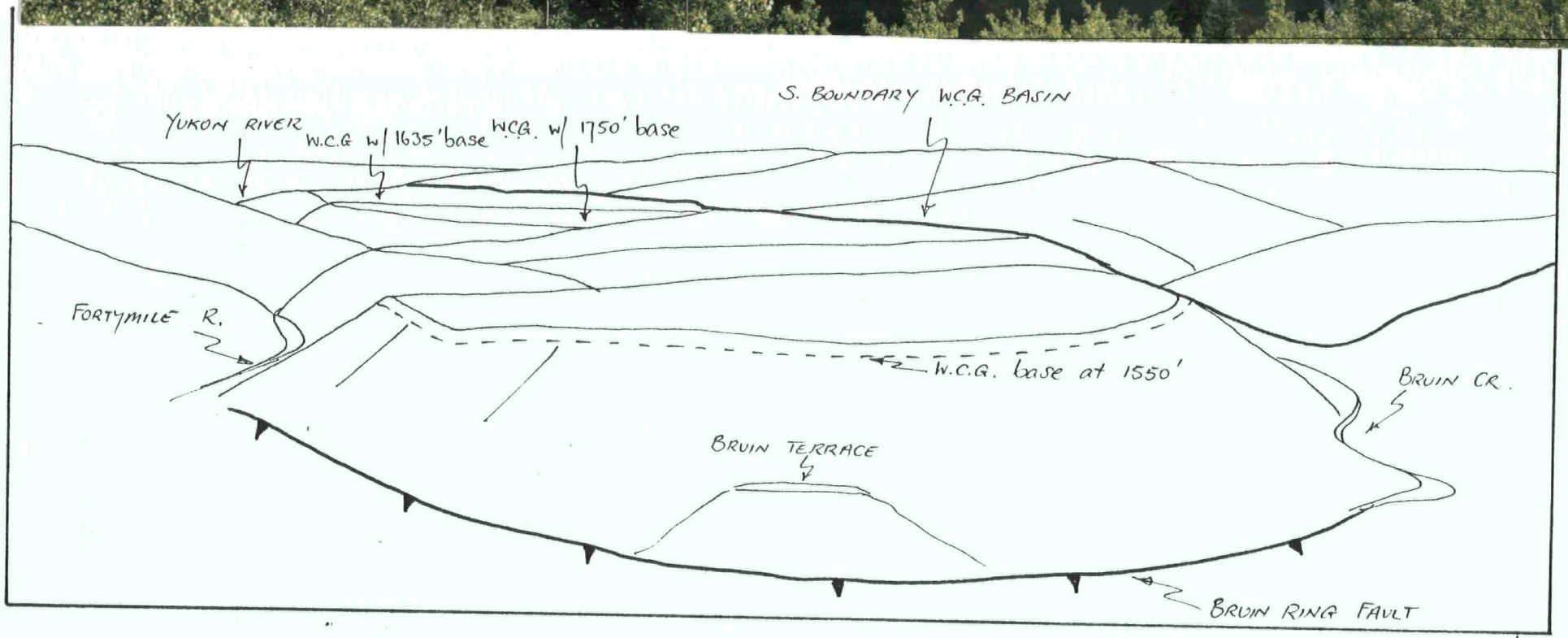
FIGURE 8

PHOTOCOPY OF AIRPHOTO
A 27619 - 52





FIGURES 9 AND 9A VIEW OVER BRUIN PLATEAU.

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-19-

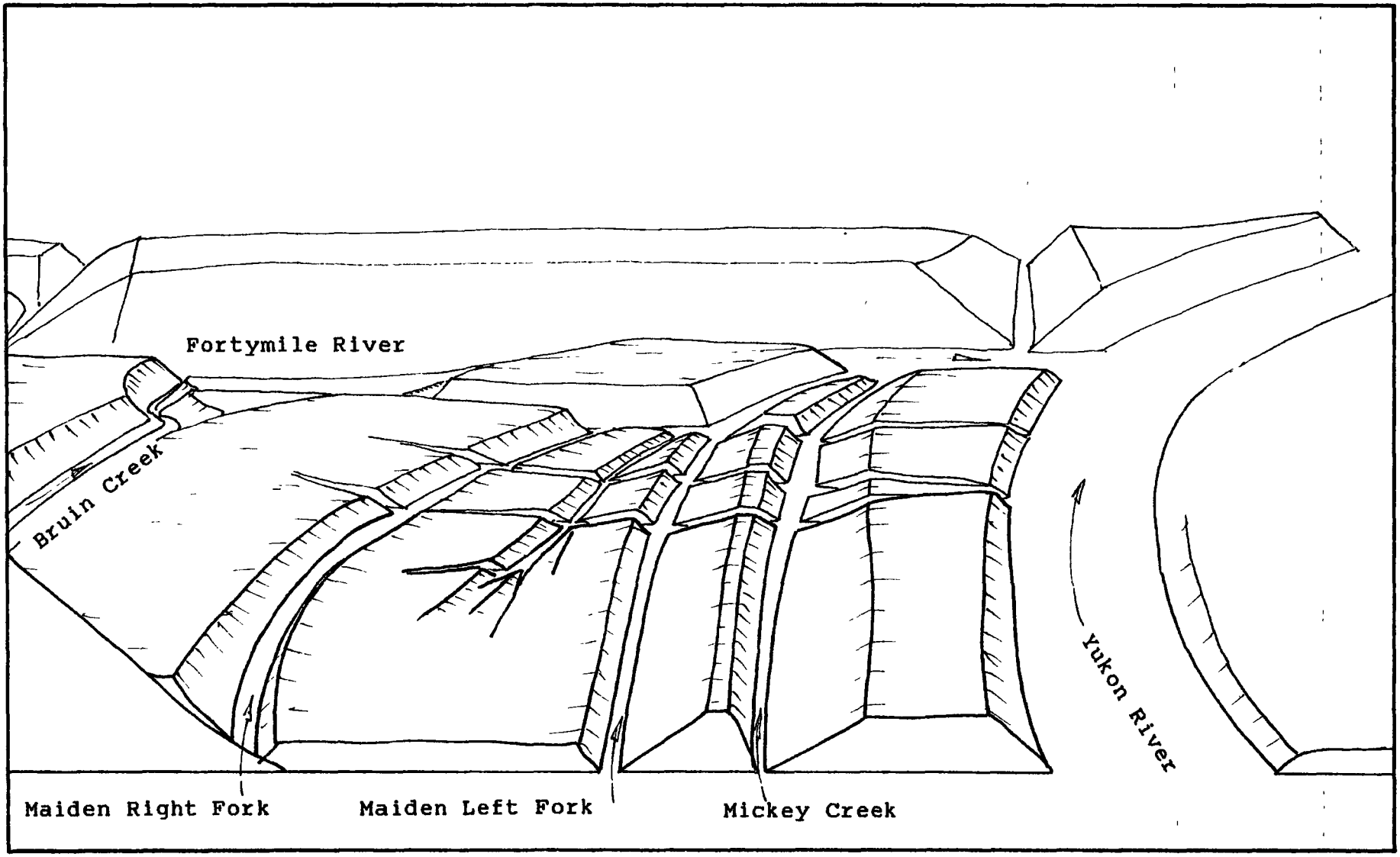

FIGURE 10. SCHEMATIC REPRESENTATION.

-20-

THE AGE OF THE INTRUSIVES AND RELATED FEATURES

At this stage we only have indirect indications of the age of pluton emplacement.

Though the faults which define the borders of the White Channel sedimentary basin must be relatively old, the majority of the faults in the study area cut and therefore post-date the White Channel deposits.

Starting perhaps 3 million years ago the Klondike-Fortymile districts saw a fairly rapid (in geological terms) sequence of interrelated events. Climate cooled, White Channel sedimentation halted, regional uplift and spreading glaciation caused the Yukon River to reverse its flow, and tributary creeks and rivers were suddenly rejuvenated. Where do the Maiden and Bruin intrusive events fit within this sequence?

Surprisingly there are clues to this in the Twelvemile drainage twenty miles to the south, (see Fig.3).

The author spent four years exploring the Twelvemile from 1997 to 2000 and drilled ninety auger holes during this time. The conclusion reluctantly reached was that the Twelvemile was the most complicated, frustrating and illogical drainage in the Yukon. But now these new discoveries in the Fortymile may finally explain some of the Twelvemile's aberrations.

Figure 11 is a section across the Twelvemile about one mile up from its mouth.

On the surface there is no indication of anything out of the ordinary. Twelvemile creek runs in a 400 ft wide flat in an asymmetric valley with a steep eastern rim and a gentler western one. The first holes drilled in the valley flat reached bedrock at 12 to 18 feet, as was expected.

Later exploration found a large abandoned channel running down the western side of the Twelvemile valley. This paleochannel was some 800 ft wide and much of it was estimated to be more than 100 ft deep, quite out of proportion to the diminutive Twelvemile. The gravel in the paleochannel was tight (almost indurated), pebbly rather than cobbly, and well washed and sorted. In the section in Figure 11 hole 34 is on the eastern edge of this old channel.

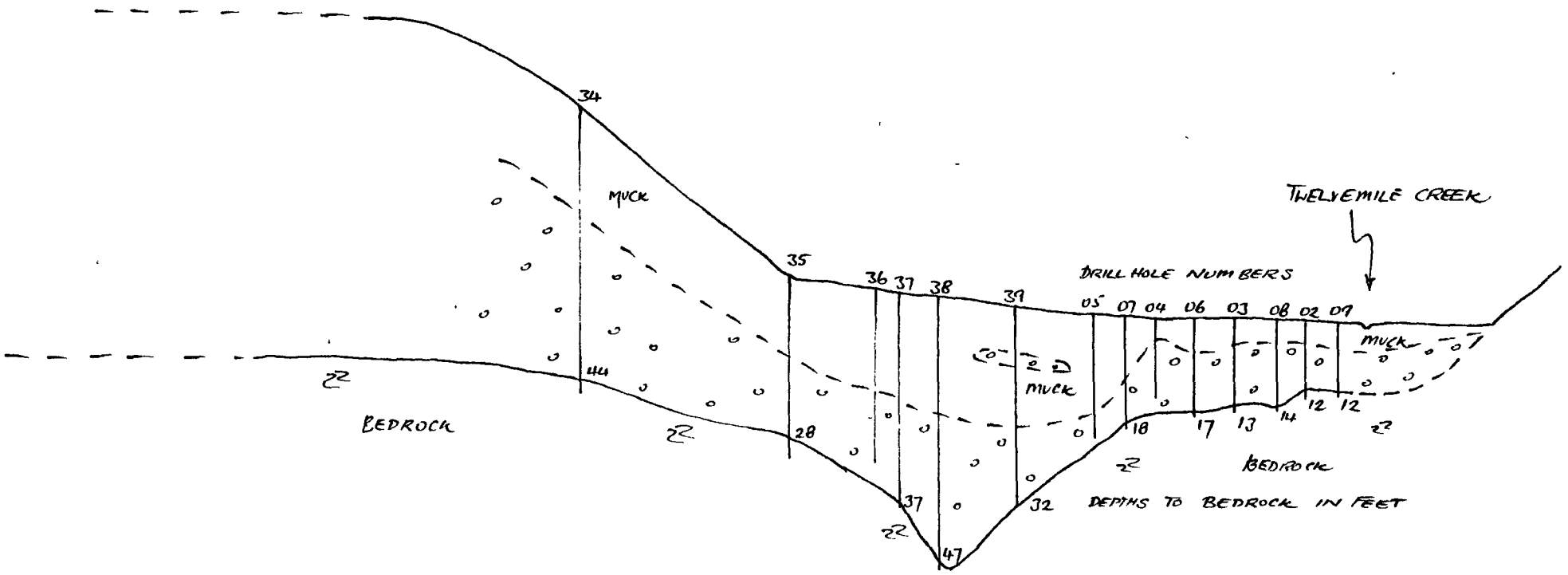

FIG. 11. TWELVEMILE CREEK – SECTION LOOKING NORTH.

SCALES HOR 1" = 100'
VERT. 2'

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East of hole 34 the bedrock drops away and drilling defined a narrow canyon-like scour channel filled with angular fragments of graphitic schist bedrock. Hole 38, in the centre, reached bedrock at 47 ft, almost 20 ft lower than the bedrock under the present day creek.

Further upstream in the Twelvemile a whole section of creek had an upside-down sequence with gravel on the surface, grading into silt with depth, the silt in turn grading into frozen muck that lay directly on bedrock.

Now, in the light of the Fortymile discoveries, there seems to be a logical explanation for the Twelvemile's oddities.

It is likely that at a time before the Fortymile rejuvenation, when the paleo-Fortymile still ran in the flat-lying White Channel basin, doming caused by the incoming Maiden and Bruin intrusions blocked the basin's drainage and forced the Fortymile to divert down the Twelvemile. This large volume of diverted water scoured out the Twelvemile and the uplift was such that a flood water channel was cut down below present day base levels.

As the intrusives cooled, the surface in the Twelvemile returned to its pre-intrusion level, and the diverted Fortymile established a stable channel on the west side of the Twelvemile valley. It must have remained here for some considerable time given the amount of accumulated gravel.

Eventually the intrusives cooled and shrank enough to allow the Fortymile to squeeze by the Bruin dome and re-establish a channel down the north side of the White Channel basin. (It is possible though that before returning to its own valley the Fortymile may have run down the west side of Califonia Creek, and later down Swede Creek.)

If the above scenario is correct, then the start of the Maiden-Bruin intrusive event predates any well-developed Fortymile River incision in the Bruin Creek area.

With regard to the Fortymile's tributaries the Bruin pluton interrupted Bruin Creek's relatively straight south to north course, forcing it to wrap around the west side of the pluton's dome. Figures 8 and 8A show a small Bruin terrace on the northwest side of the dome.

However, there is other evidence that indicates younger tectonic actity.

The Mickey Creek fault caused rejuvenation on the upthrown western side of the Mickey Creek valley, and there is similar rejuvenation on the west side of the Maiden left fork. This suggests that the Mickey and Maiden faults were still active in relatively recent time.

Recent fault activity may also be the cause of a large slump feature on Maiden Creek, part of which is seen in the foreground in Figures 5 and 5A. The remains of this slump extend across the Maiden valley so that for a time it must have dammed the present day creek. Lemmings busily burrowing in the slump material have excavated small White Channel pebbles, indicating that the slide came from the faulted ridge above.

Prospecting around the Maiden fork nose encountered outcrops of hornfelsed graphitic schist and quartz mica schist. Figure 12 is a photograph of one of these outcrops. This contact metamorphism has produced competant resistant rocks which form the ridge at the nose of the Maiden structure.

Unfortunately there was not enough time to walk the draws cut into this structure, but intrusive rocks that are almost certainly from this structure have been found.

About 30 feet from the top of the main gravel pit on the Clinton road immediately east of the Maiden forks there are some well-rounded cobbles of intrusive rock. These cobbles are quite noticeable, being larger than the bulk of the gravel which is made up of the quartz-rich sand and small quartz pebbles typical of White Channel gravel. Lying next to them was an angular block of fractured hornfelsed country rock, a block which was far too brittle to have travelled far.

Figure 13 shows where these cobbles were found, and the location of the pit is shown on Figure 1.

The intrusive cobbles have a granitic composition (>10% quartz), are medium to fine grained, mostly even-grained (one has a quartz-feldspar porphyry lens), with biotite (partly chloritised) and small garnets as the visible mafic constituents.

FIGURE 12. HORNFELSED COUNTRY ROCK, MAIDEN FORKS.

Figure 14 is a photograph of the intrusives and the hornfels

This is strong, though indirect, evidence that an intrusive has breached the surface near the Maiden forks, and that this event pre-dated the establishment of the present Maiden drainage That later tectonics affected the development of the Mickey and Maiden valleys attests to the longevity of the system as a whole

The specific timing of intrusive emplacement, faulting, mineralisation, incision and erosion is very important in an economic sense though, particularly with regard to the development of placer deposits

If it is true that precipitation of placer gold has occurred on and just above the White Channel gravel contact, the absence of such a contact due to it's prior removal by downcutting in the Mickey and Maiden valleys will diminish the extent of placer deposits Conversely, if hydrothermal processes pre-date the removal of in-valley White Channel deposits, subsequent reconcentration in the valley bottoms should be very beneficial

GEOCHEMISTRY

Figure 15 shows the geochemistry results to date

G S C Open File 2365 results (released in 1991) are shown as circles and squares There are fairly strongly anomalous gold values on upper Marten Creek and upper Mickey Creek There is a strong associated mercury anomaly on upper Mickey, but other elements are not particularly anomalous

Oro Alto's 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 Results are shown as triangles on Figure 15

The overall levels are fairly weak, perhaps due to the youthfulness of the system

FIGURE 13. GRAVEL PIT WITH INTRUSIVE COBBLES.

FIGURE 14. STUDIO PHOTOGRAPH OF HORNFELSED SCHIST AND THREE INTRUSIVE COBBLES (BROKEN IN HALF).

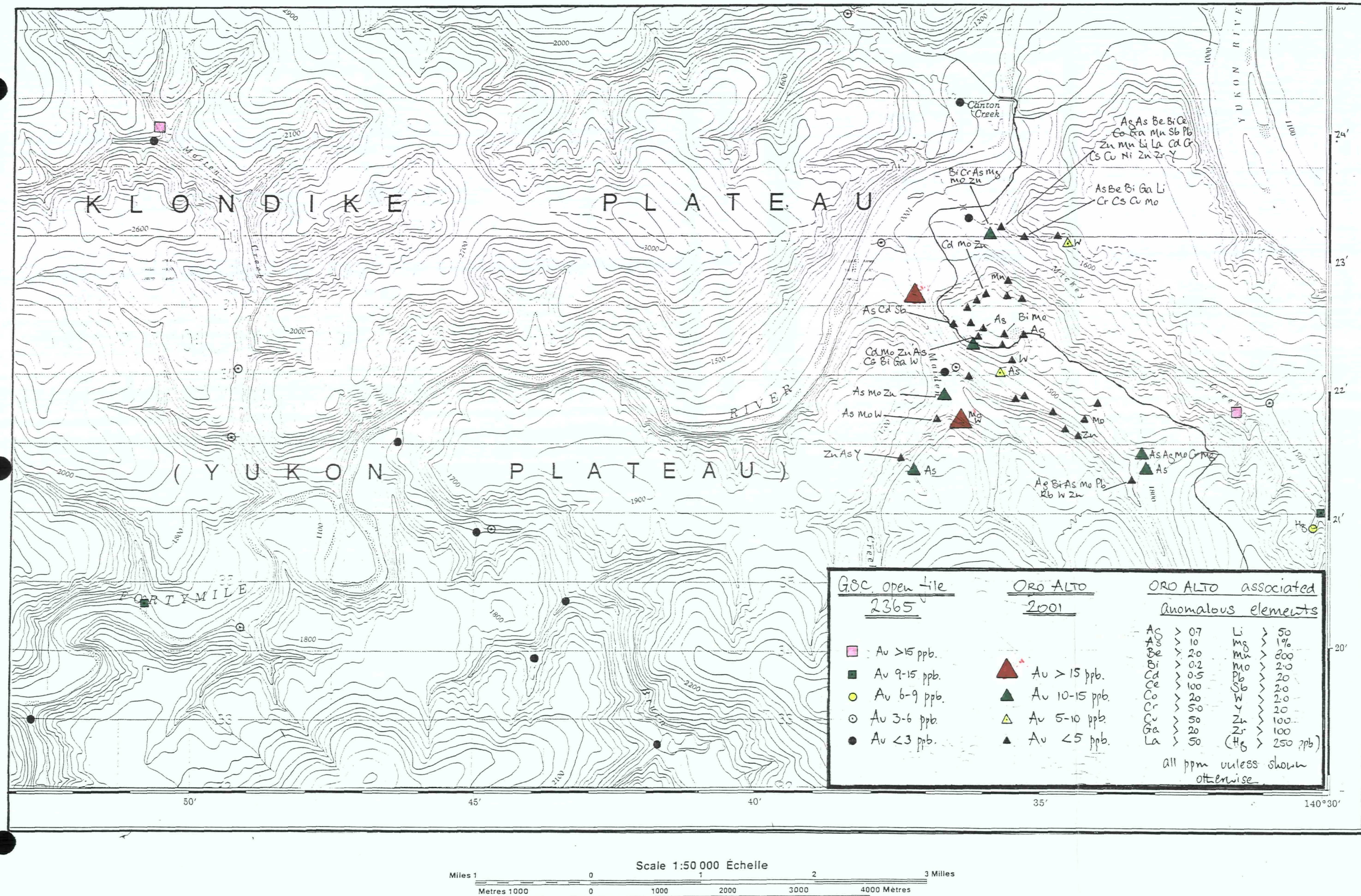

FIG 15.

ORO ALTO VENTURE

GEOCHEMISTRY

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Nonetheless good 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 Weaker anomalies in the Maiden valley are in the gully downstream from the end of the 2001 drill line, and from the gully tested by holes 2006, 07 and 08

On Mickey Creek there is a moderate gold anomaly near the mouth and a weak gold anomaly on the White Channel gravel - bedrock contact on the Pluto trail

Anomalous associated elements are also shown in Figure 15 Interesting indications of As, Bi, Cd, Sb, Mo and W are found in both drainages, apparently peripheral to the higher temperature (?) gold values

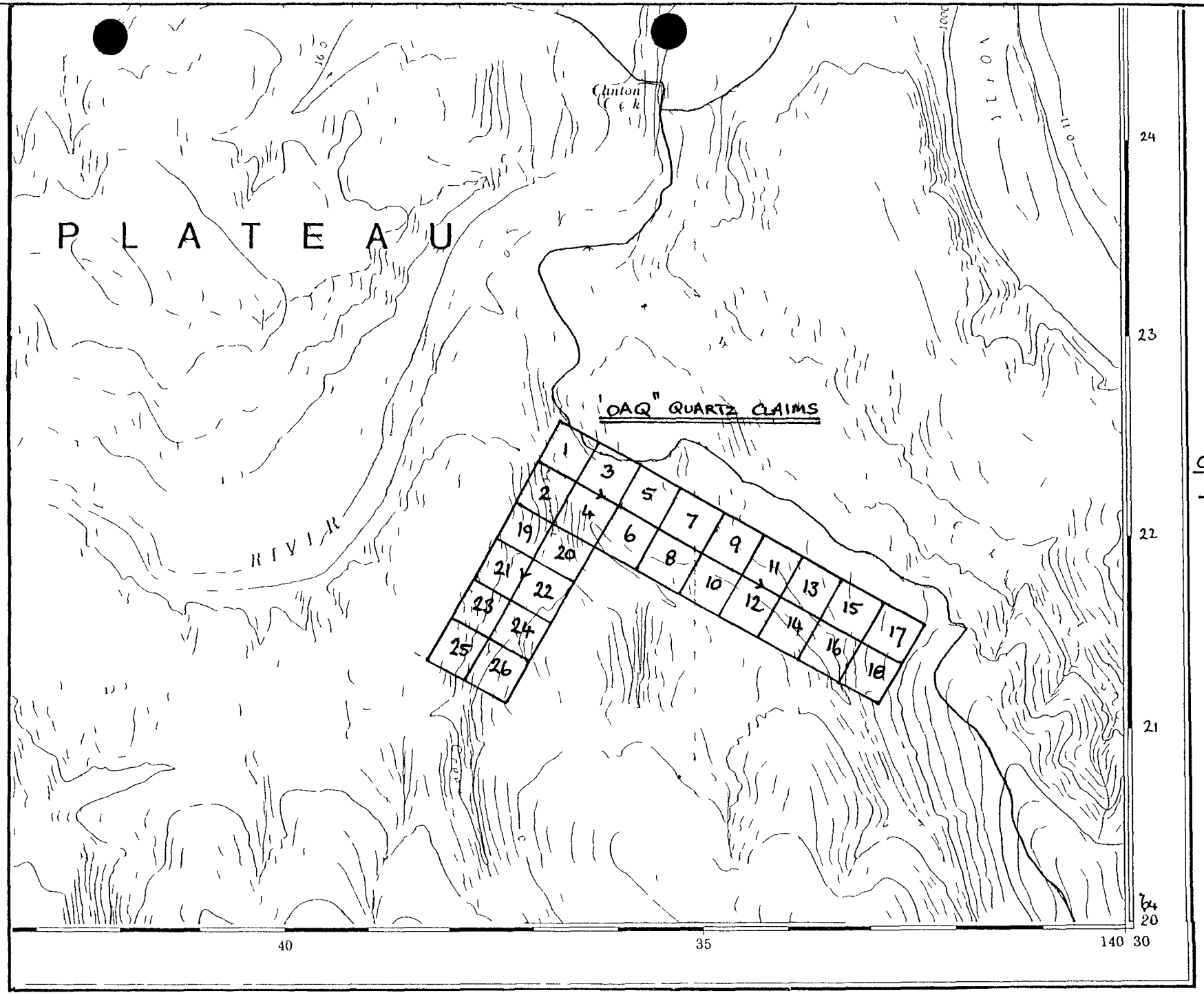
Two particularly intriguing samples were taken on the Pluto trail Though not anomalous in gold, both of these samples carry a remarkable range of other elements The samples are from a narrow (2 to 4 inches wide) shear zone exposed in the cut bank The attitude of this shear and lineations on the shear face are shown on Figure 7

Is there a correlation between placer gold and geochemical values in the study area? In other parts of the Yukon, indeed in other parts of the world, this would be a question hardly worth addressing, but here placer deposits are likely to be so intimately related to hardrock processes, both in time and place, that it is a pertinent inquiry

Two of the three draws that have been shown to carry placer values by drilling are geochemically anomalous, (compare Figs 2 & 15) Though there is a good chance that there is a reliable link between geochemical values and placer values, at this time we have too little information to give any definite answer One more year's exploration, both placer and hardrock, should clarify the relationship

PROPERTIES STAKED TO DATE

Figure 16 and 17 show the quartz and placer properties staked to date



Scale 1 50 000 Echelle

MI 1 0 1 2 3 MII

M t 1000 0 1000 2000 3000 4000 Mèt

N

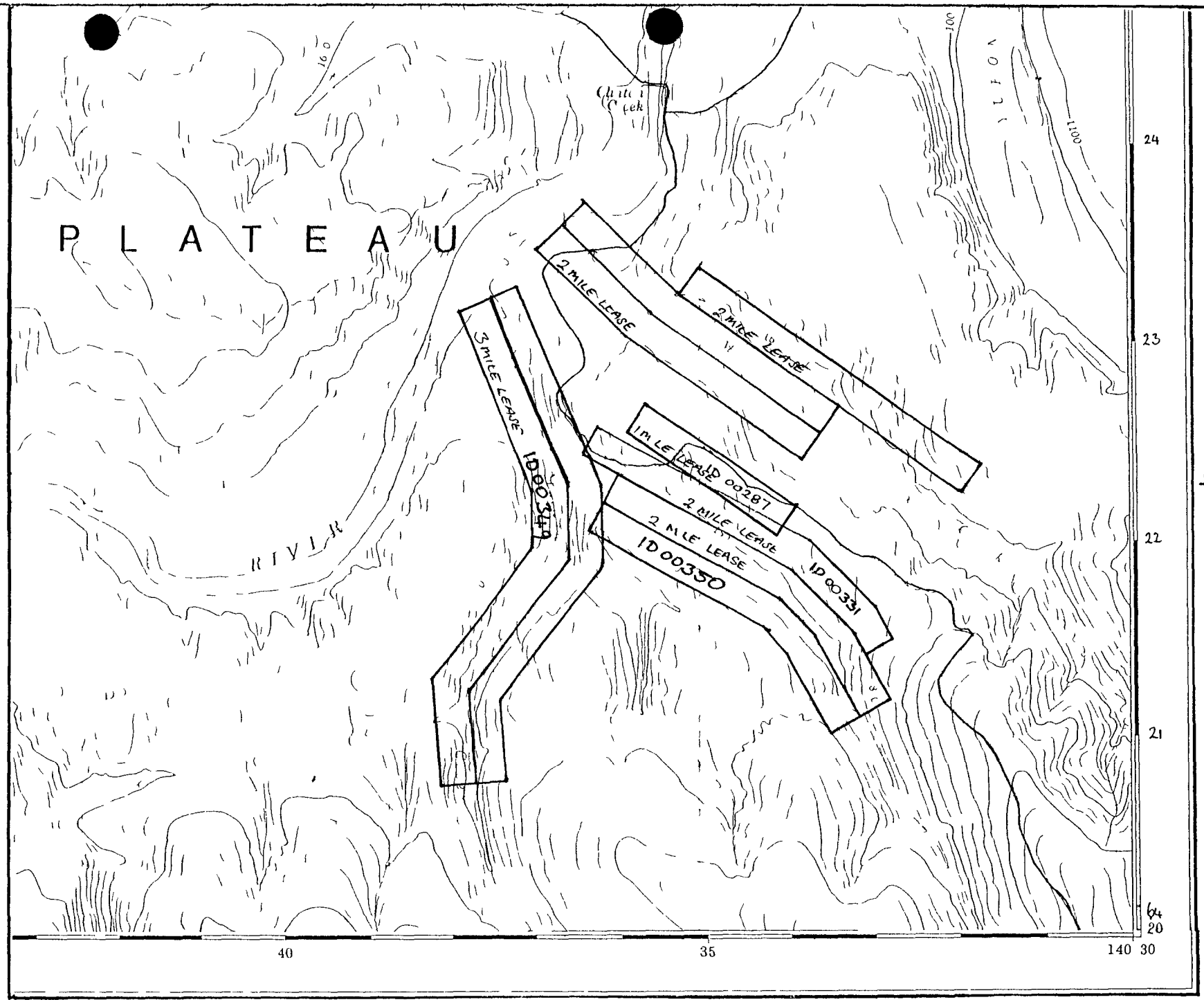
-30-

FIG 16

ORO ALTO VENTURE

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

Nov 2001



31-

FIG 17

ORO ALTO VENTURE

PLACER LEASES STAKED

Scale 1 50 000 Echelle

Miles 0 1 2 3 Miles

Metres 1000 0 1000 2000 3000 4000 Metres

Nov 2001

CONCLUSIONS AND RECOMMENDATIONS FOR 2002

Auger drilling on the eastern flank of the Maiden Creek valley has confirmed the presence of Fortymile White Channel gravels which contain economic placer gold concentrations

It is likely that this gold is not purely detrital in origin but that it has been introduced into the basal gravels by hydrothermal fluids following fault lines The faulting and hydrothermal events are directly linked to pluton emplacement that probably started less than 3 Ma years ago Two plutons are indicated, one under Maiden Creek which broke the surface, and another under the mouth of Bruin Creek which probably remains buried

Orientation geochemical sampling in the lower Maiden and Mickey drainages indicates that mineralisation has produced a geochemical signature

Recommendations for further exploration are as follows

HARD ROCK EXPLORATION

1) Geological mapping throughout the study area, but with particular attention to the Maiden nose to locate outcropping intrusives, delineate alteration haloes and trace fault patterns

2) Reconnaissance mapping should also be conducted around the Bruin pluton and in areas that may be underlain by the Paleozoic Nasina marble, (see Fig 3)

3) Geochemical sampling in the above areas and in all remaining unsampled drainages within the Mickey, Maiden, and lower Bruin catchments Due to financial constraints it may be necessary to restrict analyses to gold alone, samples to be retained for possible additional analyses at some later date

4) Samples of intrusives (and extrusives) should be collected for age dating

PLACER EXPLORATION

1) The draw north of the last hole drilled in 2001 should be drilled and, given acceptable drill results, bulk sampled This should be possible with little surface disturbance and no water discharge to Maiden Creek Bedrock exposed during such work should be carefully mapped and sampled

2) There are so many potential placer possibilities that some discipline will have to be exercised in the choice of targets Figure 17 shows ten suggested candidates for drilling in 2002 The targets have been chosen with regard to accessabilty and exploration potential

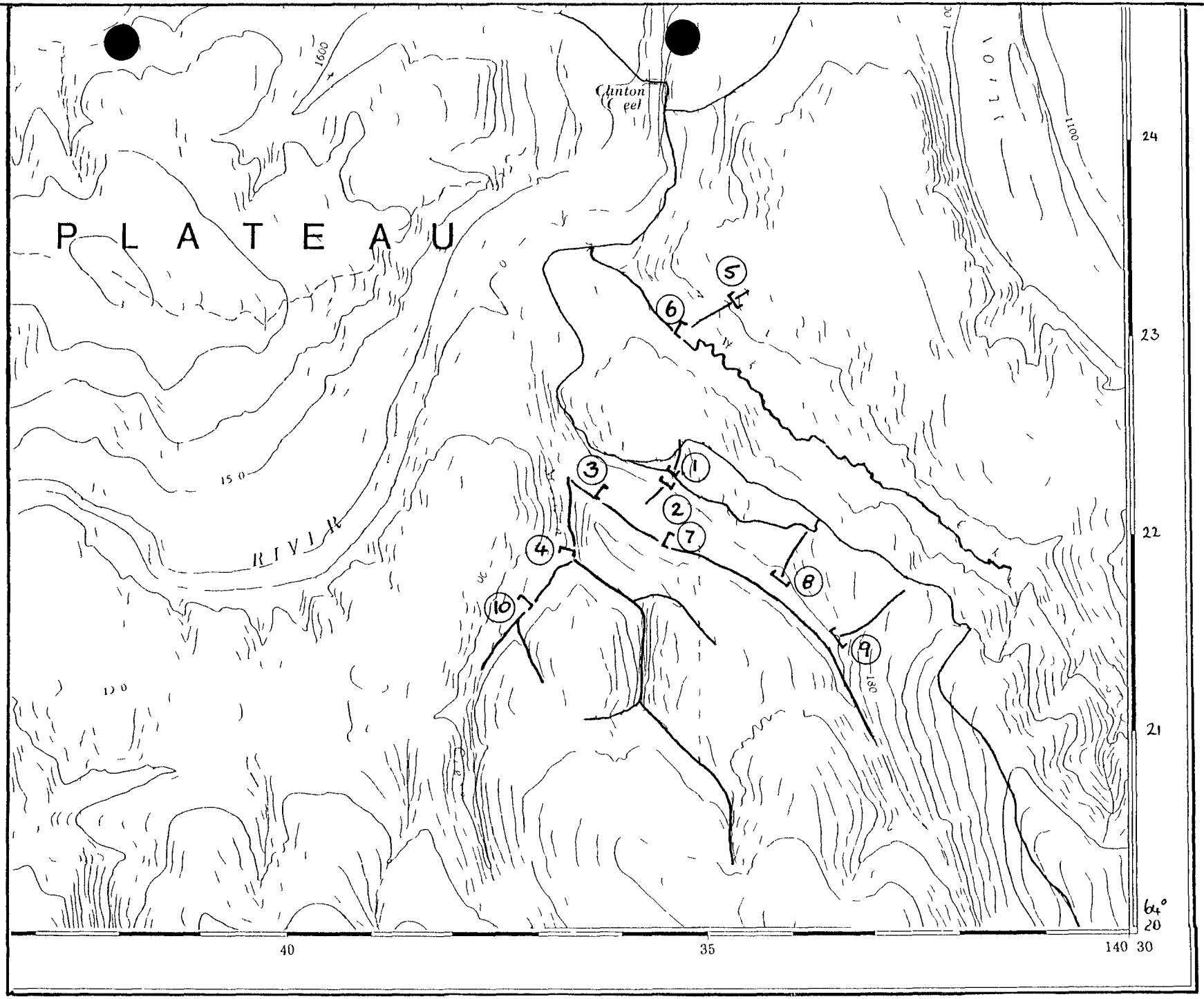


FIG 17

ORO ALTO VENTURE

SUGGESTED PLACER TARGETS for 2002

1 of 1

Scale 1 50 000 Echelle

MI 1 0 1 2 3 MI

Met es 1000 0 1000 2000 3000 4000 Mèt

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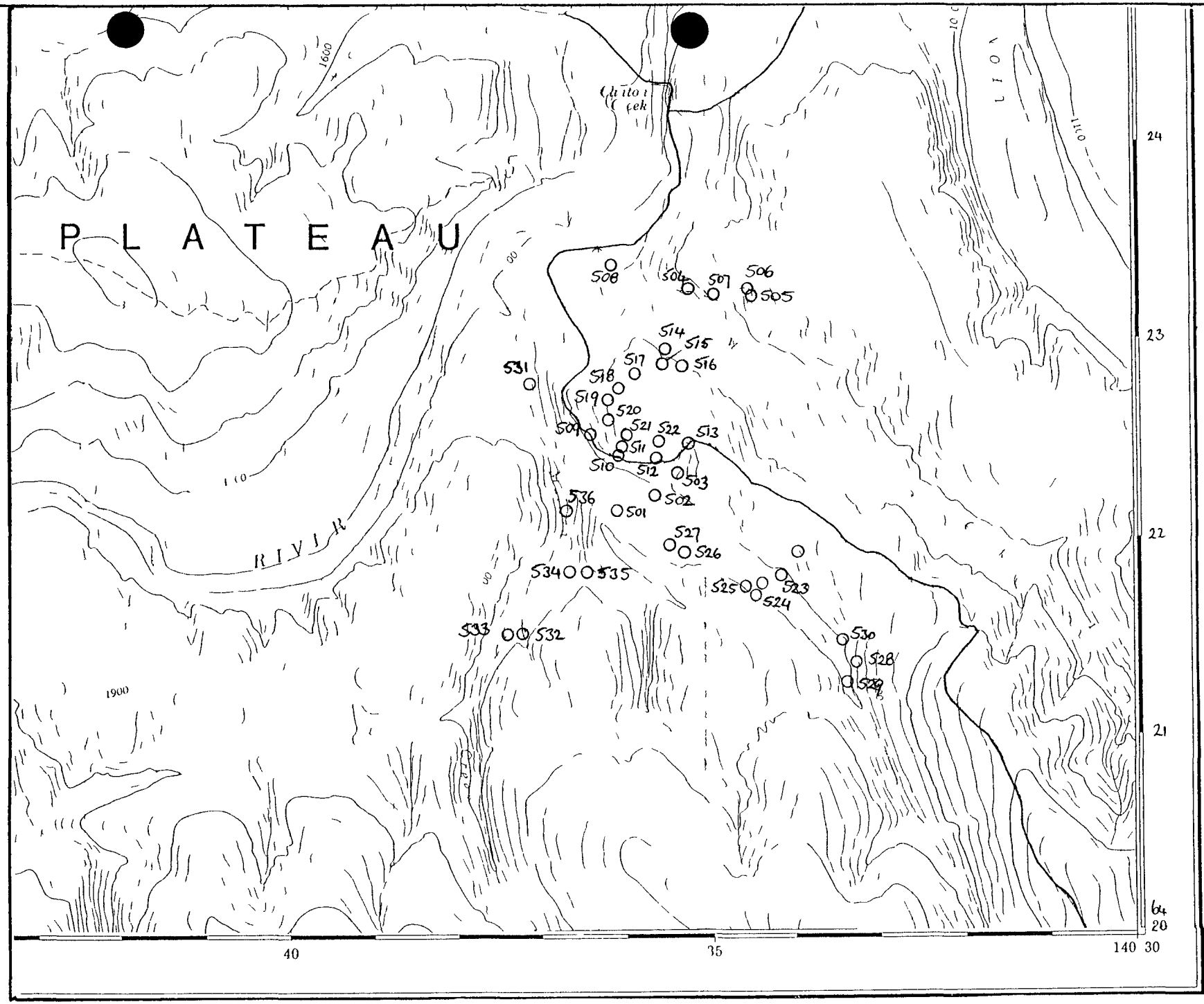

ORO ALTO VENTURE

GEOCHEMISTRY

SAMPLE LOCATIONS (prefix 417)

Scale 1 50 000 Echelle

MI 1 0 1 2 3 MIles

M t 1000 0 1000 2000 3000 4000 Met

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Samples submitted to our lab in Vancouver BC
This report was printed on 16 OCT-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 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
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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	B 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
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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	L ppm ICP + ICP MS package	ICP MS	0 2	500
Mg MS61	27	Mg % ICP + ICP MS package	ICP	0 01	15 00
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Nb MS61	27	Nb ppm ICP + ICP MS package	ICP MS	0 1	500
Ni MS61	27	N 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
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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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LOG-22	27	Samples received without barcode

ANALYTICAL PROCEDURES 2 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
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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
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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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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
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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
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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
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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
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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
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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

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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

Project
Comments ATTN ANGUS WOODSEND

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

CERTIFICATE OF ANALYSIS A0128199

SAMPLE	PREP CODE		Weight Kg	Au ppb FA+AA	Ag ppm (ICP)	Al % (ICP)	As ppm	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	94069	407	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	94069	407	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	94069	407	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	94069	407	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	94069	407	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	94069	407	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	94069	407	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	94069	407	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	94069	407	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

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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 %	Sb ppm (ICP)	Se ppm	Sn ppm	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

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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

This report was submitted in compliance with the Yukon Mining Incentives Program Project # 01-040

It describes reconnaissance exploration for hard rock gold sources in the Maiden, Bruin and Mickey Creek areas of the Fortymile District, NTS 116-C-7

As a result of this work 26 quartz claims (OAQ 1 to 26, YC21101 to YC 21126) were staked in October 2001

Those who worked on this project were

Bill Claxton of Dawson City, Yukon
Leslie Chapman of Dawson City, Yukon
Angus Woodsend of Dawson City, Yukon (summer), and Salt Spring Island, B C (winter)

The report was prepared by Angus Woodsend in November 2001

2001-040

ORO ALTO VENTURE

COPY OF FIELD BOOK ENTRIES WITH SUMMARY

TO ACCOMPANY

PROSPECTING - GRUBSTAKE PROGRAM REPORT

YUKON MINING INCENTIVES PROGRAM

PROJECT # 01-040

MAIDEN, BRUIN, AND MICKEY CREEK AREAS

FORTYMILE DISTRICT

YUKON

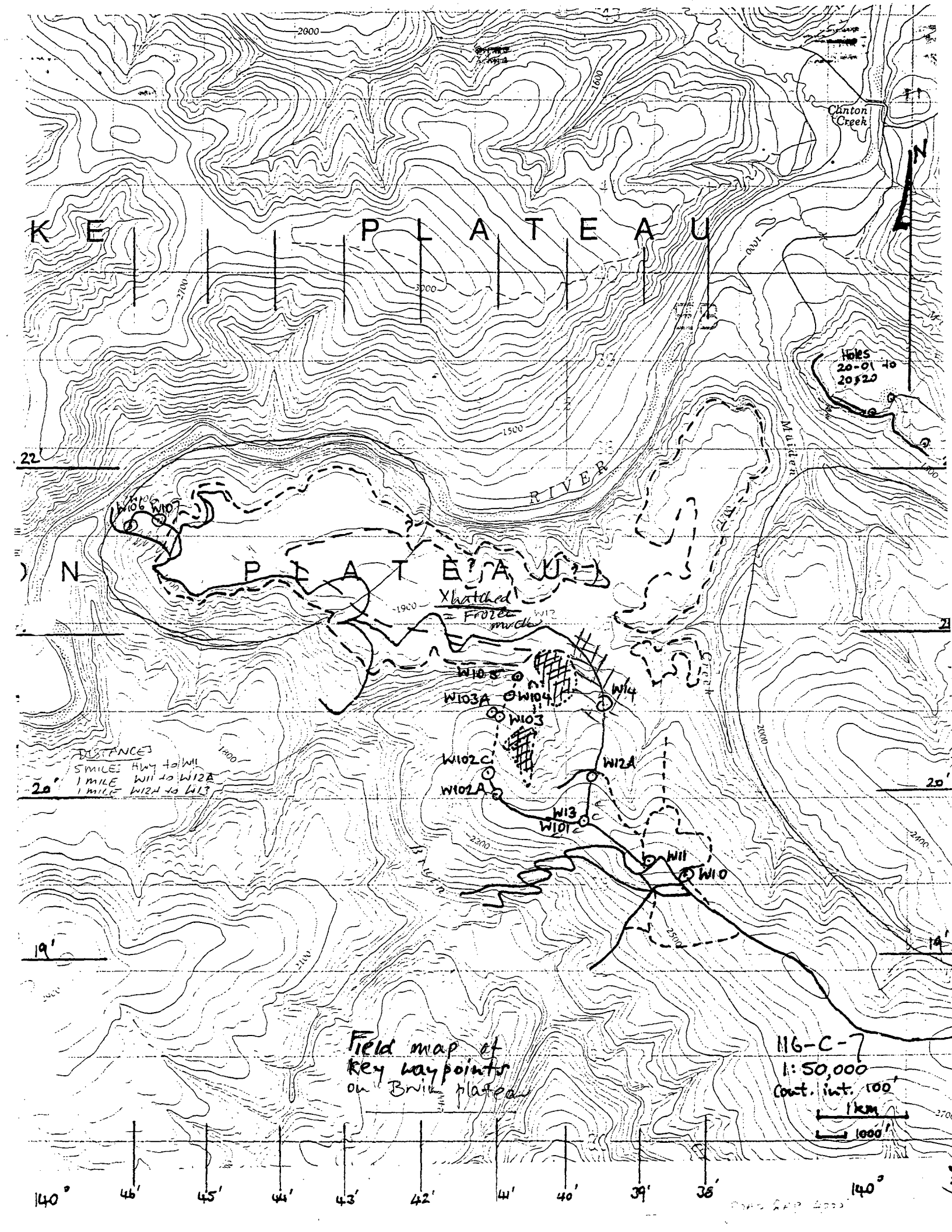
NTS 116-C-7

ORO ALTO VENTURE

GRUBSTAKE - YMIP - 01-040

A.Woodsend diary summary

Fri June 8, BRUIN Move ATV to end Bruin rd, walk to trail gap on saddle, W13.
Sun June 10, BRUIN ret to W13, walk slopes back on either side.
Mon June 11, BRUIN ret to W13, find and walk Swede's rd. ret on W side.
Fri June 15, BRUIN walk to W14, decide saddle not feasible for rd constrn.
Sat June 16, BRUIN walk Swede's rd to W14, walk slopes to N, W and E.
Fri June 22, BRUIN survey & prospect to W 104.
Sat June 23, BRUIN walk prospt draw between W12A and W104.
Sun June 24, BRUIN walk top of pup to first bend, ret via W14.
Mon June 25, BRUIN ret to W104, cont to W105.
Tue June 26, BRUIN ret W105, find WCG on rim, walk slope down to pup.
Wed June 27, BRUIN ret W102A, walk slope to W, ret via W 104.
Fri June 29, BRUIN ret W102A walk back to W11. Marble.
Sun July 1, BRUIN with B.Claxton in boat to mouth Bruin, walk up to WCG rim.
Mon Sept 17, MAIDEN collect stream seds and stake.
Tue Sept 18, MAIDEN photo Maiden structure, walk firebreak rd.
Wed Sept 19, MAIDEN-MICKEY walk Maiden cat rd, sample Mickey cr.
Fri Sept 21, MAIDEN sample pups Cr7 to Cr10, I1.
Mon Sept 24, Mail samples, telephone lab, photos in etc.
Wed Oct 3, MAIDEN staking P8, P2A, walk Nodwell down old cat rd.
Thur Oct 4, MAIDEN, staking & stream seds top Maiden, P9A, Str.seds. 528 to 530.
Mon Oct 8, MAIDEN prospect & stake P10, S.Sed 531, qtz.cls OAQ 1-4.
Wed Oct 10, MAIDEN stake P11 to 13.
Thur Oct 11, MAIDEN stake P14, 15.
Fri Oct 12 MAIDEN stake P16, 17.
Tue Oct 16, MAIDEN prospect and stake L1, Cr11, P19, Rs1 & 2.
Thur Oct 18, MAIDEN prospect Rs3 & 4, walk rim.
Fri Oct 19, MICKEY P20, R6 mickey leases.
Sat Oct 20, MICKEY line cut flag L1 P20 L2 end cr lease
Sun Oct 21, MAIDEN Rt fork P21, 22, S sed 532 to 536, P23.
Mon Oct 22, MICKEY cut flag bench lease line to P24.
Tue Oct 23, MICKEY finish cr lease line, return Nodwell.
Sun Nov 17 to Fri Nov 23 report & maps etc.


KE PLATEAU
N PLATEAU
Clinton Creek
RIVER
Muiden
Holes 20-01 to 20-20
W106
W107
W105
W103A
W104
W103
W102C
W102A
W101
W14
W12A
W13
W11
W10
Xhatched = Frozen muck
DISTANCES
5 MILES Hwy to W11
1 MILE W11 to W12A
1 MILE W12A to W13
Field map of key waypoints on Brule plateau
116-C-7
1:50,000
Cont. int. 100'
1km
1000'
140°
46'
45'
44'
43'
42'
41'
40'
39'
38'
140°

BRUIN

FRI JUNE 8

Waypoint (W10) at Taylor's trailer
64, 19, 30 N / 140, 38, 140 el 2845'
(W11) at old camp site 64, 19, 35 / 140, 38, 55
(W12) Cat rd start 64, 20, 12 / 140, 39, 55
(W12A) end flag. trail on cat rd
64, 20, 08 N / 140, 39, 37 W
(W13) 64, 19, 50 / 140, 39, 40,
All day prospect / flag w/ 4wheeler + ch. saw.

[Sat June 9 To DC for meet re staking MAIDEN]

Sun June 10 BRUIN
Return to W13, walk slopes on either side
Good rd. material, no int / ist, abund. scl. only.

Mon June 11 BRUIN
Return to W13, flag start Sheep rd., walk
Sheep rd and return on W. side. Probable mvmt,
away from saddle.

MAIDEN!

~~Tue June 12~~ MAIDEN lve DC w/ BC, check
SH2020 64, 22, 13 / 140, 34, 50 elev. 1665/76/94.
Decision re. Land use requirement

WED JUNE 13 No Time applicable. (plv. supplies
am, set up trailer pm Ret DC 5pm.

Thur June 14 plv supplies. Get GPS loc's info,
to trailer, move in. No Time applicable.

BRUIN

FRI, June 15 lve camp 8am ret 6:30 pm.
To Sheep Rd, walk to W14
(W14) 64, 20, 34, / 140, 39, 31 el. 2130 ft.
Sheep rd 10-15' bushbrnd but becomes muddy +
sloughed, holes >20' deep, not feasible for
summer rd.

BRUIN

Sat June 16 Return (W14) walk slopes to N +
W + E. No feasible route thru, only
occasional scl float, thinly covt. mvmt
(shrub) cover.

Sun June 17 No applicable-time. Camp work,
plot elevations maiden, pm check 40mile
level for BC.

Mon June 18 MAIDEN (W8) second corner rim
rd. 64, 22, 02 / 140, 34, 02, el 1840. Clear to
first drac, Puncture 4 wheeler, pm to DC.

Tue June 19 MAIDEN

(W19) just past first draw Maiden rim. rd.. 64, 22, 07 / 140, 34, 12, elev. 1824

(W10) 4th Corden 64, 22, 03 / 140, 34, 19 el. 1779

(W11) 2nd draw 64, 22, 09, / 140, 34, 36 el 1664

(W12) 3rd draw 64, 22, 12, / 140, 34, 50, el ??

(H2020) 64, 22, 13 / 140, 34, 50 el. 1658

pm L. 85. for 4 wheeler Trail

Wed June 20 MAIDEN

(H2020) recheck 64, 22, 23 / 140, 35, 40 el. 1653

pm. Decision made to go for Land use Permit w/ Cat etc, all to work on application.

Thur June 21 No applicable time Land use, p/u 4 wheeler tire, maps (Top.) + supplies. Discuss land use

Fri. June 22 BRUIN

(W13) = (W101) 64, 19, 50 / 140, 39, 40

(W102) 64, 19, 55 / 140, 41, 00.

(W103) 64, 20, 26 / 140, 40, 58

W101 to 102 1.08 km 278° T.

(W104) 64, 20, 36 / 140, 40, 47 el. 1996

Survey - prospect to W104. Good rd. material Sch. subcrop. no Lt. Ret. camp 6pm.

Sat June 23 BRUIN

Walk prospect rd. draw between W12A and W104. Sch. float / subcrop. No Lt. No mole.

Sun June 24 BRUIN

Title claim 52466 and 52566,

Walk pup down to first bend, return via W14 on Swedish trail. Steep, fine-med mud, no sig. Lt., no A possibilities.

Mon June 25 BRUIN

Return W104, Cont. to W105

(W105) 64, 20, 45, / 140, 40, 46 elev 1831

Good rd. material, sch. subcrop, no Lt. seen. Qtz. at points rd.

Tue June 26 BRUIN

Return (W105), find WCC on rim. Walk slope down to pup, steep Lt dry prob. WCC under, OK for switchback rd., return camp 7pm.

~~27~~
WED June ~~27~~ 28 BRUIN
mileage start 52730
Return W102A, walk slope to W. and return via W104. Occasional set. stomp. Nothing else of interest. All ok for rd. material.

~~28~~
Thurs June ~~28~~ 29 No applicable time.
To 12 mile p/u parts trailer, return 40 mile + set up. Arrange to meet Bc. tomorrow at Marten C.

~~FRIDAY~~ SUNDAY July 1 BRUIN
To Marten Cr. and L/ boat + Bc to mouth Bruin. Walk to W106 - W107. Photo W106. No/ possibility W here but W66 is east trail bed, water runs off W66 bank.

FRIDAY June 29 BRUIN
Return W102A walk Bruin slope back to hill, map marble o/c + stomp. Looks v. dry. No sign ice, or alt. Retrieve 4 wheeler.

Sat June 30 No applicable Time
To Dc. for supplies. ph service + more 4 wheeler to Marten, top rim rd.

Mon July 2 No applicable Time.
12 mile. P/u ripper teeth + prop. cyls. bits, weld gear, balance etc. more Toyota out. Return camp 6pm.

Tue July 3 No applicable Time
More miles trailer to new site in gravel pit. Then to Dc for propane, oxy, supplies. Rain pm.

WED July 4 No applicable Time.
Design Rodwell brake system + truck draw bar. Midday to Dc. charge oxy. cyl p/u steel, rest. camp 7pm

Thur July 5
Fri July 6
Sat July 7
Sun July 8
} No applicable Time.

Service Rodwell, construct brake syst., set up weld, camp trailer etc, prepare for walk to Marten Creek. Rain most days.

Sat 15 Sept

Walk Nodwell to end of road, bring 4wheeler back to campsite.

[No applicable time]

[Sun 16 Sept] MAIDEN

Move P6 80 bearing, Check Az. cl. line, (129)
~~St at P6~~ Flag down to P6B and stake,
~~Collect S.seds. at P6B, CR5 and~~

[All day stake/survey]

[Mon 17 Sept] MAIDEN

~~Met~~ Restake ~~R~~ Left fork maiden to P6B. Collect S.seds at P6B, CR5 and P7B. (am apprise Lesley of general theory)

[All day stake/survey]

[Tue 18 Sept] MAIDEN

am plot survey info. Fix truck (heater hoses), Photo maiden structure. +/- 11 am B.C. out. Meet, show him structure, and explain theory. Agree to meet pm and decide on Qtz. staking. 12noon Check out Maiden Firebreak road, 1pm to DC for food + supplies. Back to camp 5pm. Organize maps etc till 6pm.

[Tue 18 Sept (Cont)]

7pm B.C. to camp, Long discussion all aspects J.V. Agree to plan staking.

[All Day prospecting]

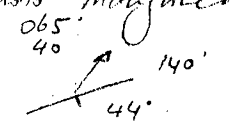
[Wed 19 Sept]

am to top of Maiden Rt. Fork cat rd. pm sample Mickey Rd. structure and Gully's on main Cinto Rd.

(R6) 64, 23, 17 / 140, 35, 27. el 1902
S. sample 417504 + photo.

(R7) 64, 23, 15 / 140, 34, 27 el 1636, 1623
photo + S. sed 417505 S side.
417506 N. side.

(R8) 64. 23. 14 / 140. 35. 04 el 971?
photo manganese on clean



Soil 417507

~~R9~~ (Cr6) Mickey Cr. 64. 22, 21 / 140, ~~13~~ 36, 13 el 1359
S. Sed 417508

(R9) 64, 22, 32 / 140, 36, 24 el 1531
Soil in gully 417509

(R10) Loc. 64, 22, 24 / 140, 36, 04 el 2132 ?
Soil in gully 417~~509~~ 510

417511 top material hole 20-07 (includes WCG)

(R11) 64, 22, 23 / 140, 35, 35 el 1702 ?
Soil in gully 417512

(R12) 64, 22, 30 / 140, 35, 20 el 2252 ?
Soil in gully 417513.

[FRI 21 Sept MAIDEN]
(W26) Loc 64, 21, 59 / 140, 34, 13 el 1635
photo loc. on / near WCG / bedrock contact. Lge qtz boulder and angular, mn - coated cleaved schist float.

(CR7) Loc 64, 21, 52 / 140, 34, 27 el 1440
silt sample 417523.

(CR8) Loc. 64, 21, 50 / 140, 34, 31 el. 1370
str. sed. 417524

(CR9) Loc 64, 21, 30 / 140, 34, 30 el 1361 !
Maiden Rt. Fork L.L. silt sample intended to be on small draw. Loc. flagged 417525

(CR10) Spring on [illegible] fault structure.
Loc [illegible] 64, 22, 25 / 140, 35, 33 el 2022
str. sed. 417526.

(I1) Intrusive plug. Albitized granodiorite and qtz. frags in lemming excavation.
Loc. 64, 22, 01 / 140, 35, 27. el 1289
C. Larson sample 417527.

Photo of W.C.G. at road forks 64, 22, 10 / 140, 35, [illegible]

Sat 22 Sept To DC for supplies. Intended to mail sed samples but P.O. not open.
Sun 23 Sept Camp moving. No time.

[Mon 24 Sept] To [DC with Chemex samples. Mailed them, called Chemex. Pu. propane etc. ~~pur~~ buy plexiglass for trailer windows. Flag tape, hip ch thread, etc.
Tue 25 Sept to 12 mile. Go across drilling for Jim. Start to move Nodwell out. 1 more load from old camp.

Thu 27 Sept Redated claim OA1 and first post 2 mile lease (Grouting) to today's date. Prospected lutrodine 1 which now appears to be a slide/slump feature.

28 Sept mining Rec. Qtz 40 mile
Placer 12 mile
Corp mail.

12 mile
Dutstream 1D00329
Cr pup 1D 00330.

116-C-8 Qtz c/o Trach c/o = Arden Cattermo.

29 Sept To 12 mile. Walked Nodwell 2/3 way out to hyway.

30 Sept Sun Meet w/ BC + LC 11am. Walk to Disc. Prp + look at road view. Discuss prog. Pm walk Nodwell to hwy [1/2 Day Prospecting]

1 Oct Mon To DC. Supplies + Dr. appt. [No Time]

2 Oct Tue Truck Nodwell to top maiden cat rd. Pm to town for supplies [No Time]

3 Oct MAIDEN

GPS ✓
Aluminum ✓ ... , [...] flagging, Chainsaw ✓
3rd spare ✓ Oil ... ✓
flagging ✓ [hipchain] [hay wire] [distances ✓] [Protractor]

Loc. Qtz posts 115,16,17,18
(P8 =) 64, 21, 27° N 140, 33, 16 W

Loc. Anna's lease top post new position
(P2A) 64, 21, 22° N 140, 33, 05 W

Inscription (P2)
Post 2 Placer Lease Post 1 2 miles dnstrm. William George Claxton, POA Anna Chapman Claxton June 6 2001, Wm Geo Claxton.

Walk Nodwell down to top maiden L. Fork but stopped by trail washout. Flag Anna's lease line back to original post 2. Walk out to rd.
[All Day Staking]

Thur 4 Oct | All day staking | MAIDEN

placed OAQ 15, 16, 17, 18. = (P8)

repositioned Annie leave post (P2A)

str. sed: sampled at gully at P2A = 528

Second post Groundex 2 mile leave = (P9)

Loc = 64.21.05 N / 140.33.01 W.

Actual post at (P9A) 64.21.04 / 140.33.06,

Str. sed sample 529 +/- 500' dn from P9A

str. sed sample 530 from moose cut rd pup.

pm walk Nodwell out to Clinton rd and drive to camp.

Fri 5 Oct

To DC for instructions to Glenex and supplies. Return 5 pm to camp. | No time |

Sat 6 Oct to 12 mile, also ~~to~~ more Nodwell to start Firebreak Rd. Load with gas, 4x4's etc. | 1/2 day prep. staking |

Sun 7 Oct

retrieve cracked truck at Clinton C. All day No time. pm tow truck to DC, get parts + Readers results (No). Ret. camp 7:30 pm | No Time |

Mon 8 Oct | MAIDEN

theoretical P10 (first post Alex leave mouth maiden) 64.23.05 / 140.37.25.

GPS U.S. so no fix.

Post #1 5 mile Placer Leave. Post #2 5 miles upstr on Right Fork. Bear 200 A. Woodsend.

S. sed. sample 531 maiden at fire break.

Post 2 of OAQ 1 and 2 } 8 Oct.
Post 1 of OAQ 3 and 4 }

| All day staking |

Tue 9 Oct to DC. | No Time |

Wed 10 Oct MAIDEN

am to Nodwell. Chainman clai[illegible] size.

P11 #2 OAQ 1+2

#1 OAQ 3+4

64, 22, 16 N 140, 36, 26 W 1173 el.

Part ① Grander lease changes to thurs 4 oct.

theoretical P12 64, 22, 05 / 140, 35, 59.

P12A 64, 22, 10 / 140, 36, 06,

P13 64, 22, 01 / 140, 35, 38 el. 1202

Staking all day

Thurs 11 Oct MAIDEN

P14 64, 21, 57 / 140, 35, 05 el. 1309,

Staking all DAY

Midday - radiator burst.

Take in, 1/2" + 9/16 sockets + extension + ratchet

Radiator, flashlight, pa.1, 1 1/2" hose, layflat

hoses top ID 1 1/2", + bottom 1 1/2" ID

distance rad top to bottom 26"

engine to front outside 14"

width opening 22"

FRI 12 Oct MAIDEN Fixed road by 2.00 pm.

P15 64, 21, 51 / 140, 34, 34.

P16 64, 21, 44 / 140, 34, 03

P17 64, 21, 36 / 140, 33, 35

Bal 2 of 13+14

Pt 1 of 14 115

R. L

back to camp 7pm

Sat 13 Oct

am Retrace tracks, Reoccupy claim OA1

to 13 Oct, move 4 wheels back to

firebreak road. pm To DC No Time!

Sun 14 Oct clean out the mikes Trailer,

move into my trailer, replace tires etc

Camp move. No Time

Mon 15 Oct take mikes trailer to DC.

meet with B+L, open J.V. account at CIBC,

park mikes trailer at Schmidt's. Return

camp 7pm No Time!

Tue 16 Oct MAIDEN

P11 to P12 124°, P12 to P13 125°,
so P11 to P18 recip 124 = 304°.

Flag Qtz cl. line to foot of Hill:
(L1) 64, 22, 20 / 140, 36, 44
(P18) Not done

(CR11) = Crossing Rt. Fork 64, 22, 02 / 140, 36, 17
240 m 034°
CR11 to P11 ~~400m~~ ~~214°~~ 034°
P18 to P11 124 − 90 = ~~214°~~,
(P18) = 64, 22, 03 / 140, 36, 45

(RS1) = 64, 22, 09 / 140, 36, 31
silicified Qtz chlor - scl.

(RS2) +Photo 64, 22, 09 / 140, 36, 35
> metamorphosed to hornblende ? gneiss ?

tble ? 21 - 30 0-10 silt, 10-20 clay much frost
aband at 20'
Loc. 64, 22, 01 / 140, 35, 26 el 1374
All day staking + prospecting

Wed 17 Oct to PC, + camp move, Rec
ICP results from BCL. No line

MAIDEN
Thur 18 Oct Repair radiator, cut creek crossing.
(RS3) 64, 22, 13 / 140, 36, 21
(RS4) 64, 22, 07 / 140, 36, 01
All day prospecting

Need to rejig Qtz line. Theoretical Loc P21
64, 21, 45 / 140, 36, 55,
bearing & distance to P11, 029°, .914 km.
Calc. line 029 / 029°.

Fri 19 Oct

pm. put in post #1, 2 mile P. Claim, Mickey Cr.
"A.W. post for Maiden Creek Placers Ltd,
put in post #1, 2 mile placer lease, Mickey Creek for for Leslie Patricia Chapman.

Sat 20 Oct — MICKEY

am w/ Nodwell to forks maiden. Tested fire no impact. Pack bags. Survey Mickey.

L1 = leave line crossing Clinton road.

(L1) 64, 23, 29 / 140, 36, 20.

(P29) Post 1 2mile Leave, Mickey Creek
64, 23, 39 / 140, 36, 30

(L2) Ox Creek 64, 23, 20 / 140, 35, 50,

Sun 21 Oct — MAIDEN

(P21 A) = 64, 21, 50 / 140, 36, 59 el 3004

S.S. ___ 532 at upper R.L. draw on Rt. fork maiden.

S.S. ___ 533 Rt fork Maiden above 532

(P22) Top post Alt. 3 mile leave
64, 21, 45 / 140, 36, 56

SS ___ 534 Rt Fork maiden above 535

SS ___ 535 R.L. PP Rt. Fork Maiden.

SS ___ 536 at CR 11.

Nodwell broken down at start Rt. Forks, Ct hole.

'Vent' is slide, schist flags under three knots I 1 = hump of HCG = qtz pebbles appear to have been cooked (pink-red coating) but no flags found other than qtz & sch.

(P23) is lower post Alt. 3 mile leave.
64, 22, 59 / 140, 37, 14
Rotated / 21 Oct 2001 and changed to 3 mile leave.

Mon 22 Oct Mickey C. Cont. cut/flag bend leave line to (P24). Hard day.

Tue Oct 23 Mickey C. Cut cut/flag Creek leave line to P2. Need more work. Return Nodwell to camp.

END