YUKON MINING INCENTIVES PROGRAM

YMIP PROJECT 98 - 047

LOWER FORTYMILE AREA PROSPECTING FOR PLACER GOLD

JUNE 13, 1998 - JANUARY 31, 1999

TRANSVERSE MERCATOR PROJECTION CO-ORDINATES latitude 64° 20' - longitude 140° 40' PLACER CLAIM SHEETS 116-C7

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Project Location and Scope

The purpose of this prospecting project was to examine the lower reach of the Fortymile River and its tributary creeks, for gold occurrence. The focus of my evaluation work was placer, but I also examined any interesting hardrock showings which I came across. This section of the Fortymile is bounded on the downstream end by Clinton Creek and upstream by the Fortymile Canyon; a distance of approximately 7 miles. The creeks which I examined were: Clinton Creek and a Clinton Creek tributary, Beck Creek, Mickey Creek, Maiden Creek, Powerhouse Creek, Hoodoo Creek and Voodoo Creek. I limited my activities to areas which did not have active placer claims or leases recorded on them.

The Fortymile River mining district is located approximately 40 air miles northwest of Dawson as shown on **Map 1**. The latitude of the area in which I worked is approximately 64⁰ 20' and the longitude is approximately 140⁰40'. The specific areas which I prospected are located on **Map 2**.

I performed most of my prospecting work in the late fall and early winter period. This allowed me to take advantage of the ice on the Fortymile River for travel by snowmobile, and to walk up the frozen creek beds, and to collect samples from the normally submerged creek channels. I was fortunate in that there was very little snow cover, making it easy for me to find and sample the hardrock outcroppings and the gravel deposits.

I worked with an assistant for most of the program for efficiency and safety. We travelled by snowmobiles to the various prospecting areas from our camp at Marten Creek. I used the Fortymile River down through the canyon and the Fortymile access road, which takes off over the ridge from Clinton Creek, for access to the prospecting areas. In most cases we left the snowmobiles at the mouths of the creeks and walked up the valleys. The lack of snow made travel on the river rough, especially through the canyon.

Areas Investigated

The Fortymile area is a well known placer gold producing region. Gold was first discovered on the river in 1886. It is a transboundary river with much of its drainage originating in Alaska. Placer mining has taken place n both sides of the border since the discovery of placer gold until the present time. Additionally, an asbestos mine was in operation on Clinton Creek for a period of approximately 12 years. A description of the areas which I investigated follows:

1. The mainstem of the Fortymile River below the canyon: The area of the Fortymile River which I investigated consists of a narrow bench located on the right limit of the river, immediately downstream of the Fortymile canyon. This bench is unstaked; most of the rest of the minable gravels in the downstream portion of the Fortymile River have claims located on them. The Fortymile canyon is a narrow gorge which funnels the flow of the river through a channel approximately one quarter of its normal width. Through this canyon, a distance of one half mile, the elevation drops approximately 15 feet. The character of the placer alluvium deposited immediately downstream of the canyon is extremely coarse and well washed. Approximately 25% of the aggregate consists of boulders in excess of 1 foot in diameter, ranging to 4 and 5 feet in diameter. This bench was of interest to me because it represents the first location below the swift canyon where heavy concentrates would be deposited.

The right limit bench which I evaluated is approximately 1/2 mile long and approximately 150 feet

wide, pinching out at each end. The gravel on the bench is covered with permanently frozen sandy overburden, ranging from 6 to 20 feet in depth. Most of the gravel exposed in the bank is quite angular and slaty in character. I suspect that this is colluvium from the steep hillsides and that there is rounded well-washed river gravel underlying this stratum. Based on dredging reports obtained from a historic dredge, working the opposite side of the river from this deposit, I expect that the gravel section depth to bedrock would be 8 to 10 feet.

Creek Inbutary, Beck Creek, Mickey Creek, Maiden Creek, Powertouse Creek, Hooddo Creek and

The work which I performed was hampered by the deep overburden cut bank which appears to sluff each year during high water, making access to the underlying gravel for sampling difficult, using hand methods. I was able, however, to obtain some gravel samples in this cut bank. I took 3 samples of gravel from the centre section of the bench where it is widest; the gravel in this section is angular and unwashed. The upstream one-third of the bench has less overburden and there is some washed gravel evident. I took four samples, each weighing approximately 50 lb., from the river bank in this area. The sample locations are plotted on **Map 3**. **Pages 11, 14 and 37** in my diary, found in appendix A, refer to my prospecting activity on the Fortymile bench. The results of the samples are detailed in **Table 1**, and also discussed in the results section of this report.

2. Hoodoo and Voodoo Creeks a brit of em pativase if protein nevos work ettil yosy asw ment fant

Hoodoo Creek is a small tributary gulch (approximately 11/2 miles in length) of the Fortymile River. Hoodoo Creek empties into the Fortymile

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on the right limit approximately 7 miles upstream from its confluence with the Yukon River. This creek is unnamed on the NTS map sheets; however it is referred to as Hoodoo Creek in early day mining records. There was a discovery claim located on the creek in the early 1900's, but I did not see any evidence of previous historic mining work.

The lower section of the creek cuts through the bench ground of the section of Fortymile River which I was prospecting. This creek is a typical Fortymile gulch, draining a narrow steep walled valley. The channel gradient is also steep for most of the length of the creek; where the creek crosses the river bench the gradient flattens and the creek meanders across the bench, cutting deeply into the overlying muck. The ground is frozen, covered with vegetation consisting of scrubby black spruce, moss, and indigenous shrubbery such as labrador tea. There is alder growing adjacent to the creek channel on the river bench. Where the creek cuts across the bench the overburden is deep, approximately 20 feet, at the location



The confluence of Hoodoo Creek and the Fortymile River. The Fortymile bench ground is defined by the banks of the river. Gravel can be seen under a light skiff of snow, to the left of the figure, sloughing out from under the muck in the bank.

where it empties into the river. I estimate that the depth of overburden is approximately 6 feet at the back end of the bench, against the hillside. The channel takes up most of the width of the creek valley in most sections; however there are some small benches located approximately 20 feet above the channel in parts of the valley. Gravel consists mainly of unwashed, poorly sorted colluvium. There are some outcrops of a typical Fortymile type schist bedrock in the valley walls.

I took 4 samples, each ranging from 12 to 35 lbs., from the gravel in the steeper part of the creek. There was no gravel evident in the part of the creek which crosses the river bench. I hauled the samples back to my camp for later processing and analysis. **Page 20** in my diary, in Appendix 1, discusses my work in the creek.

Voodoo Creek could be considered a twin to Hoodoo Creek. This creek empties into the Fortymile approximately ¼ of a mile downstream from Hoodoo Creek; this creek is also located on the right limit of the river. This creek is unnamed on the NTS map sheet and there is no record of any previous names attributed to it. I gave it the name Voodoo Creek for ease of reference.

This creek is approximately 1 mile long. It has similar characteristics to Hoodoo Creek, traversing the same Fortymile bench in its lower reach and draining a steep narrow gorge in the upper reach. It was heavily glaciated from overflow at the time which I investigated it. The ice glacier formed a series of steps up the creek channel. Overburden and vegetation were much the same as in Hoodoo Creek. The aggregate deposited on the valley floor is a poorly sorted collection of loose colluvium, similar to that found in Hoodoo Creek. The valley was slightly narrower with more outcrops of schist evident in the valley walls.

I collected 3 of samples in Voodoo Creek. The results of these samples are found in **Table 1**, and discussed in the Results section of this report. **Page 19** of my diary in Appendix 1 discuss my prospecting work in Voodoo Creek.

3. Maiden Creek

Maiden Creek is a right limit tributary emptying into the Fortymile River approximately four miles upstream from the mouth of the Fortymile. The creek has a main stem of approximately 1 mile at which point it forks into two small feeder streams.

The mainstem of Maiden Creek drains through a broad bench of the Fortymile River. The Maiden Creek valley at this point is very wide, the stream being bounded on either side by this river bench, which is located from 200 to 300 feet above the river level. The gradient of the mainstem of the creek is relatively shallow; the creek channel is approximately 10 feet in wide, bounded by muck banks on either side. The muck layer is deep, ranging from 10 to 20 feet. Most of the ground is frozen and covered with typical permafrost vegetation (black spruce, moss, etc.); there are some sections of the creek in which the muck overburden is unfrozen, supporting vegetation of alder, poplar, rose bushes, and other vegetation common to sandy soil. The two forks of the creek flow through the tundra; they are intermittent, some times flowing on top of the ground and sometimes underneath it. There is very little gravel exposed in the forks, so I did not extend my evaluation work up into these streams. The gravel in the lower 1,000 feet of the drainage consists of rounded washed rock which I classified as Fortymile river gravel. Further up the creek the gravel becomes more angular, and colluvial, having been concentrated in the creek bed from the valley sides. I did not see any evidence of historic placer diggings in Maiden Creek.

I bagged 5 gravel samples ranging from 7 to 12 lbs. from the creek valley. I transported the samples to my camp for later processing. Sample locations are noted on Map 2. Results of the samples are noted in Table 1. Page 15 in my diary in Appendix 1 refers to prospecting in Maiden Creek.

4. Powerhouse Creek

This creek, unnamed on the NTS map sheet, is a left limit tributary emptying into the Fortymile approximately 3 miles from the Fortymile-Yukon confluence. I named this Powerhouse Creek because the mouth of the creek is immediately upstream of the powerhouse for the old Clinton Creek asbestos mine. This is a small tributary gulch with a mainstem of 1 mile in length. The Fortymile access road crosses this creek approximately ½ mile upstream from its mouth, where the creek flows through a culvert. I have divided the creek into two reaches, one upstream and one downstream from the culvert, because the character of the valley changes significantly at this point.

The valley formed by this gulch is wider than would be expected of a drainage this size. While the valley bottom is only 30 to 50 feet wide, benches have been formed 12 to 15 feet above the creek level on either side of the valley bottom, giving it an uncharacteristically wide profile. Depth of muck overlaying the gravel in the downstream 1/2 mile of the gulch varies from 6 inches to approximately 5 feet. Most of the ground is frozen, although there are sections of thawed ground on the left limit. While most of the vegetation is typical permafrost scrub spruce and moss, there are patches of large spruce trees with aspen on the hillside in the downstream 1/2 mile.

The confluence of this creek with the Fortymile is comprised of a bedrock reef elevated about 15 feet above the river. The water from the gulch spills over this reef, forming a cascade down into the river. Behind this reef, there is a surprisingly deep gravel deposit of at least 6 to 8 feet in depth, containing large rounded well-washed cobbles. This gravel extends over the lower reach of Powerhouse Creek, a distance of approximately 1/2 mile. I bagged 5 samples from the lower reach of the creek and transported them back to camp for later processing.

There is no gravel evident in the upper reach of the creek. The ground is more strongly gripped by the permafrost with dense overlying moss and scrub vegetation. Because of the generous width of the gulch, I suspect that the muck layer is quite deep, exceeding 10 feet; I believe that it is conceivable that, below this muck layer, lies an extension of the deposit of coarse rounded gravel evident in the lower reach. I was able to only obtain one sample from the upper reach. I collected this sample from gravel immediately upstream of the culvert. I also took 3 samples from a seam of bench gravel, approximately 6 to 8 feet wide. This seam of gravel is overlain by 15 feet of muck, and rests on a crumbly bedrock exposed by the road cutbank, on the left limit of the creek.

Pages 23, 24, and 25 in my diary in Appendix 1 refer to prospecting work in Powerhouse Creek. Results of samples are tabulated in Table 1 and sample location are marked on Map 2.

5. Mickey Creek

Mickey Creek is a right limit tributary of the Fortymile. The confluence of the creek is located approximately 3 miles upstream from the mouth of the Fortymile. The Clinton Creek road crosses Mickey Creek approximately 1 mile upstream from its mouth, where there is large culvert. Mickey Creek parallels the Clinton Creek road. The mainstem of Mickey Creek is approximately 10 miles

long.

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I divided the creek, somewhat arbitrarily, into three reaches:

- the lower reach has a length of approximately 2 miles. In this reach, the creek flows through a
 broad plateau formed by the original Pliocene/ Pleistocene Fortymile River valley. This area has
 very interesting gravel, both from the original Fortymile River drainage and from gravel
 deposited and sorted by the fluvial action of the Mickey Creek drainage. However, there are a
 number of other land interests held in this area; for example my neighbour has a homestead
 and trapping concession close to the confluence, there are road allowances on either side of
 the Clinton Creek road, and there is a co-discovery claim on the creek in this vicinity. I therefore
 decided to not investigate the discontinuous segments in this reach which were unencumbered
 by land holdings.
- The middle reach of Mickey Creek is bounded on the downstream end by the upstream limit of the claim group. The upstream boundary is defined by a pronounced canyon-like narrowing of the valley. The middle reach is approximately 1 mile long.

This middle reach is characterized by the broad valley, averaging approximately 1500 to 2000 feet in width. There are gentle benches, approximately 40 to 50, feet high rising up on either side of the valley floor. Much of the ground is frozen, although the growth of large spruce trees in the valley bottom indicate that frost may be discontinuous. There are some areas of poplar growth close to the creek channel, indicating thawed ground. Overburden in the creek does not appear to be deep, the muck in the cut banks defining the creek channel varying from 2 to 5 feet in depth. The aggregate exposed in the cut banks and the creek channel is guite rounded, showing that the gravel has undergone a fair amount of sorting. There is also more raw-looking slabby. angular schist rock in some areas. I panned 17 samples of approximately 8 lbs. each (a struck 10 inch gold pan full). I bagged one 20 lb sample from the area immediately upstream of the claim group, and transported it to my camp for later processing. Pages 1, 2 and 3 in my diary in Appendix 1 refer to my prospecting work in this area. Results are tabulated in Table 1. Sample locations are noted on Map 3.



Samples could be obtained from gravel in a cutbank in the middle reach of Mickey Creek.

The upper reach of Mickey Creek is bounded by the downstream end of the canyon, and covers the remaining drainage. I concentrated my investigations in a 2 mile section of the third reach. This section of the creek has three very small tributary gulches emptying into it on the left limit. I investigated the area from approximately ½ miles above the upper gulch, to approximately 1/4 mile below the most downstream of the three gulches.

The creek valley is much narrower, approximately 150 to 200 feet wide. The overburden is frozen and has typical scrub permafrost vegetation. Overburden exposed in the creek banks is 2 to 6 feet deep. The gravel exposed in the creek channel is angular slabby slide rock which has found its way into the valley bottom from the hillsides. Bedrock outcrops are evident in the valley walls. I panned 17 samples on site using a 10 inch gold pan. Sample weights were approximately 8 to 10 lbs. Because my access into this reach of the creek was down a steep hillside, it was not feasible to pack samples out of the creek valley for later processing. **Pages 1, 2, 3, 4, 5, and 6** in my diary in Appendix 1 refer to prospecting work in this reach of Mickey Creek. Sample locations are noted on **Map 3**, and results are tabulated in **Table 1**.

6. Clinton Creek

Clinton Creek is a large left limit tributary of the Fortymile, located 2½ miles upstream from the mouth of the river. Clinton Creek is a very large tributary of the Fortymile. It has a mainstem of approximately 15 miles with large forks and tributaries emptying into it. There was an asbestos mine operating on Clinton Creek for approximately 12 years. It was shut down and abandoned in 1978. The mine is located approximately 6 miles upstream from the mouth of Clinton Creek. A good road used for hauling asbestos fibre has been built parallel to the creek up to the old mine site. There is also an airstrip which was built on one of the high benches up the creek.

The creek flows in a wide, mature valley varying from 1,000 feet to ½ mile in width. Much of the valley floor is locked in permafrost, however, the meandering creek flow has created large sections of thawed ground. There are many wide benches in the valley bottom. The height of these benches vary from 20 to 150 feet above the creek bottom. The gravel in the section of the creek which I investigated, the lower 4 miles, is well rounded. There is an inordinate amount of serpentine rock in the aggregate mix. Much of this may have been washed done the creek from the mine site (serpentine is the host rock of asbestos fibre). Overburden depths varied considerably from almost none to 10 - 12 feet where it was exposed in the banks. Vegetation in permafrost area is black spruce and moss. Thawed sections created by creek meanders host large poplars, willows, alder, as well some stands of large white spruce.

My investigations concentrated on the lower 4½ miles of Clinton Creek and a left limit tributary. My evaluation of the lower section of Clinton Creek consisted of walking up the bed of the creek collecting samples from exposed gravel banks and from the dry creek bed. I was not able to use a snowmobile for most of this work because of beaver dams and overflow in the creek. I bagged 30 small samples and transported them back to my camp for later processing.

I investigated an unnamed left limit tributary, located approximately 2½ miles upstream from the mouth of Clinton Creek. I named this small stream Beck Creek, after a man who held some claims in the creek in the late 1970's. Beck Creek has a main stem of approximately 2½ miles in length. It is located in a valley approximately 200 feet wide. The creek channel, in the reach which I investigated, is incised into a bench. This gulch is located in permafrost with typical scrubby black spruce and moss vegetation. Muck depths appear to be approximately 4 to 6 feet. The gravel in this creek is surprisingly well rounded with some large cobbles, indicating that it has undergone significant sorting. I had heard that someone, whom Beck had leased the ground to, had taken a cat in to this gulch to go placer mining, but I had not heard what the results of this endeavour were.

I began my investigation of this tributary by finding the section of the creek in which the cat work had been done. I followed the rough cat trail up the valley to a place where the cat had been working in the creek bed, approximately 1/2 mile upstream from the mouth. It appeared that a section of the creek approximately 50 feet by 200 feet long had been mined. I took 4 samples each weighing 8 to 10 lbs., from the cut bank that had been left by the cat in the creek bed. I explored the creek further upstream to a



The section of Beck Creek which was sluiced in previous mining. This section of the creek is approximately 25 -30 feet wide; the rest of the creek is less than half this width.

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distance of approximately 1 mile above the confluence with Clinton Creek. The creek became very narrow upstream of this point, and there was very little exposed gravel. I collected 5 more gravel samples of similar weight in the section of the creek which I traversed.

While travelling up the Clinton Creek mine road I noticed several places where gravel was overlying the bedrock rim above the road. I estimated that the gravel was approximately 250 feet higher than the creek elevation. This gravel was of interest to me because it is very well-rounded and coarse. It looked to be of river origin suggesting that the creek may have been part of a much larger drainage in a previous time. The gravel is very densely packed, almost cemented. I sampled this high level gravel in two locations on the left limit of Clinton Creek, one opposite the mouth of Beck Creek and the other further downstream, above a borrow pit approximately 1 mile from the Fortymile bridge. I took a total of 6 large samples from this high level gravel deposit approximately 20 to 25 lbs. each. I double bagged them in woven sand bags and threw them down the hillside where I collected them and hauled them back to camp for analysis.

Pages 10, 26, 27, 28, 29, 30, 31, 35, and 36 in my diary in Appendix 1 discuss my work in Clinton Creek and Beck Creek. Results of the sampling are given in Table 1, and sample location are noted on Map 3.

Hard Rock Prospecting Work

While the major focus of my work was evaluating the placer potential of the area, I took advantage of my time in the field to prospect some hard rock occurrences in the area. The focus of this work was to look for load gold occurrence.

In my placer mining on the Fortymile I have found pieces of raw gold with quartz adhering to it, and also pieces of quartz with small particles of gold imbedded. I reasoned that this gold could not have travelled far (or the gold would have been broken away from the quartz.) I collected 4 hardrock samples from a quartz intrusion, approximately 4 feet in width, into a fault in the schist bedrock.

The schist host rock has been turned to clay around the intrusion, indicating intense heat. There is evidence of mineralization in this zone. This vein is located beside a road cut across a cliff face 200 feet above the Fortymile River, on the left limit approximately ¼ mile upstream from Marten Creek.

I collected samples from various locations over approximately 1½ miles of the Fortymile access road between mile 1 and mile 4, as measured from my camp on the Fortymile River. Chunks of quartz, exposed by grading and other road maintenance work, can be seen in the ditches along this section of road. As well, large in-place quartz occurrences are visible in this area where the vegetation has been removed. Because this quartz occurs over a large area, I was interested in sampling it. While the quartz did not appear to be heavily mineralized, I had heard that the quartz associated with the Pogo gold deposit, in the Fairbanks area, has no visible mineralization.

While travelling in the river valley, I observed another quartz occurrence which is approximately 1500 feet horizontally and approximately 2,000 feet vertically below the quart area which I sampled on the Fortymile access road. The quartz seam shows up over a length of approximately 30 feet. I took 3 samples across this occurrence.

I continued my hardrock work along the Fortymile Access Road. I took more samples of isolated quartz occurrences but did not find any more large showings. I took a sample from an anomaly which is visible in a borrow pit approximately 8 miles from Marten Creek on the access road. It was a lustreless black in colour with distinct green (olivine?) particles imbedded in it. It was very porus suggesting volcanic origin. Most of the other samples which I collected in this area had an oxidized rusty stain. I took these samples because it looked very similar to the ore which Viceroy is mining northeast of Dawson.

I took one hardrock sample from a quartz outcrop in the bedrock reef across the mouth of Powerhouse Creek.

The last area in which I performed hard rock prospecting is the Cone Hill area, in the vicinity of the Fortymile bridge. Cone Hill is a prominent geological feature; it is, as the name suggests, a conical rock structure, rising 800 to 900 feet above the surrounding terrain. Its shape suggests a volcanic origin. It is said that in the early days an addit was driven into a quartz vein somewhere close to its summit, although I did not locate it. They were reportedly mining either silver or gold. I took 3



Sampling a hardrock outcrop on the Fortymile access road.

samples from exposed rock on Cone Hill. The rock looked to be metamorphic with some igneous quartz intrusion. There was some visible asbestos in some of this rock. I also took 4 samples from a borrow pit located approximately 1 mile from the Fortymile Bridge (the same area where I took the

high level bench placer samples). This rock structure interested me because it had the similar orange stain characteristic of the Viceroy ore. The rock which I sampled was unusually heavy.

Sample Processing Methods

Most of the placer samples were processed in a heated cleanup facility. I had to use a gold pan to process the samples which I collected up Mickey Creek on site, because the distance involved and terrain made it impractical to pack them out. The procedure which I used for processing the samples was as follows:

- I weighed the sample.
- I screened the material through an 8 mesh Tyler screen,
- I panned the oversize material rejected by the screen to check for coarse gold.
- I processed the fine material which had passed through the screen in a 4 lead spiral gold concentrating wheel to separate the heavy fraction. I mixed approximately 1/2 teaspoon of liquid soap (Sunlight dish soap) into the feed gravel prior to feeding it to the concentrating wheel. I also used clean, warm water in the recovery process. The reason for using soap and the warm water is to reduce the surface tension of the water which causes fine gold particles to float and be lost. I fed the screened gravel into the gold wheel in small increments so that I would not overwhelm the wheel and possibly lose gold.
- I examined the concentrate split off with the gold wheel with a magnifying glass. I counted the
 gold colours and noted their size and shape. I also noted the relative quantity of black sand and
 the presence of any other interesting material contained in the concentrate, for example
 gamets. I recorded my observations.
- I saved the concentrate in small zip lock bags for future reference.
- Between processing each sample, I washed and rinsed with clean water all the processing equipment to prevent contamination of the next sample.

The hard rock samples which I collected weighed approximately 2 to 3 lbs each. I bagged them in plastic sample bags, and labelled according to the date. I assigned a number to each sample taken on a particular day. I split each sample, weighing, bagging, and labelling 1 lb. of material to send out for lab analysis. Because I had to haul the samples to Dawson by snowmobile, weight was a concern. The lab advised me that one lb of material would be sufficient for assay. I retained the remainder of each sample in its original labelled bag so that I would have this material for future analysis if required. I packed the samples up securely and shipped them to Acme Analytical Laboratories Ltd. in Vancouver. I requested a 30 element ICP and fire assay for each sample.

4.

Results

I have broken down the results of my placer prospecting according to the drainage which I investigated:

- Fortymile River Bench Ground: I did not recover any gold particles from the three grab samples which I took from the centre of the bench. Given that this gravel looked more like slide
 - rock with a preponderance of angular, platy schist, this was not completely unexpected. This material did, however, contain black sand and other heavy concentrates indicating that there has been deposition of placer minerals. Three of the four larger samples, approximately 50 lbs each, contained placer gold particles. Although there was not enough gold to weigh, and all of the colours were small, the gold particles had a three dimensional quality, rather than being flaky (which is typical of Fortymile gold). The character of this gold is in keeping with my theory

that this is the first location where the coarser, heavier component of a body of gravel under the influence of fluvial sorting would come to rest immediately below the Fortymile canyon. I suspect that at greater depth, gold concentration would be more pronounced.

- Hoodoo and Voodoo Creeks: None of the samples which I took from these creeks contained any gold, although there was some black sand. The aggregate was more of a loose, raw, poorly sorted colluvium from the steep valley sides. There were some quartz particles in the samples, indicating that there may be gold bearing faults eroding into the drainage. While these results are not particularly encouraging, it is not improbable that there could be placer concentration at bedrock level. The Fortymile district is noted for small gulches which have yielded considerable amounts of coarse placer gold. This would have to be determined by further investigation by shafting or ground sluicing a drain to bedrock. It was beyond the scope of this investigation to undertake this work.
- Maiden Creek: None of the grab samples which I took in Maiden Creek yielded any gold. There
 was also a marked lack of heavy concentrates. I found nothing to spark any interest. The slack,
 lazy nature of the drainage may explain the barren results.
- Mickey Creek: I took 17 pans from the middle reach of the creek. Five of my pans contained gold. All the gold particles were very fine, probably larger than 100 mesh but smaller than 60 mesh. The best pan had 4 very fine colours, one pan had 2 colours, and two of the pans had 1 colour each. The 20 lb sample which I processed in the gold room at my camp contained 7 colours; three of the colours were barely visible with the naked eye. Because I found very fine gold in the one sample processed in a lab-like environment, it is possible that I may have lost gold this fine from samples panned in the field. The gold particles were bright and had a flaky nature typical of Fortymile gold. I expect that, from the appearance of the gold it would have a purity factor of .80 to .84. All of the samples contained a good amount of black sand; a few of the samples had an inordinately large amount of black sand. There were some small garnets approximately 1/8 " in diameter in the concentrate. I expect that grade would improve at depth in the gravel body.

I took 18 pans over approximately 1½ miles of the upper reach of Mickey Creek. I did not recover any gold from these samples. The gravel was much more angular, showing that it had not travelled far.

- Powerhouse Creek: I did not recover any gold in the samples which I took from the gravel of Powerhouse Creek. All of the pans had a reasonable showing of heavy concentrates, primarily magnetite. Because the gravel is well-washed and quite coarse, there could be gold deposition at bedrock depth.
- Clinton Creek: I took a total of 30 grab samples (8 to 10 lbs. in weight) in Clinton Creek. One of
 these samples had 2 very fine colours, and three each contained 1 very fine colour. The
 samples which contained colours were at the upstream end of the area which I investigated. All
 of the samples had small bits of serpentine, which had probably washed down from the mine
 site. There was a reasonable amount of heavy concentrates in the samples. The presence of
 these very fine colours indicates that there is placer gold in the drainage.

In Beck Creek I took 9 samples. In one of these samples I found 1 fine colour; under magnification

the particle looked almost round. There was more black sand in the concentrate from the samples from Beck Creek than from the samples from Clinton Creek; garnets were also present in this concentrate.

I took six samples, each weighing approximately 20 lbs., from two exposed gravel banks in the high bench gravel deposit on the left limit of Clinton Creek. Two of the samples from the furthest upstream location of the high bench contained gold. One of the samples had one very fine colour and the other had two very fine colours. The bank gravel from the downstream location did not have any gold , although there was some black sand in the concentrate.

See Table 1 for the results of the placer samples. The sample location are plotted on Map 3.

None of the hardrock samples which I had analysed gave any indication of significant gold presence. I was later advised that it would have been advantageous for me to specify the results in parts per billion; this increased accuracy may have been able to delineate areas of mineralization worthy of further work.

The rock samples which I collected around the Fortymile bridge area in lower Clinton Creek showed some elevated mineralization.

The results of the assays are given in the attached assay report. Map 4 shows the sample locations.

Conclusions and Recommendations

My placer prospecting work turned up some gravel bodies which contained traces of placer gold. I did not find any gravel which I would consider to be minable ground, although this is not particularly discouraging, given the preliminary nature of the work which I performed. All the samples which I gathered were from upper gravel layers where only trace placer showings could be expected. My intent was to, hopefully, establish gold presence in a reach or a drainage rather than to undertake detailed grade evaluation of a more limited area.

The area which was least interesting was Maiden Creek. The overburden is deep the gravel looks unsorted and young.

The work which I did in Powerhouse Creek, the lower reach of Clinton Creek, Beck Creek, and Hoodoo and Voodoo Creeks showed possibilities for placer development. However, at the current price of gold and in the present investment climate, these creeks did not show enough promise to interest me.

I believe that the middle reach of Mickey Creek, and the high bench gravel on the left limit of Clinton Creek showed promise.

 The middle reach of Mickey Creek showed gold deposition in the top layers of the gravel, and the volume of gravel in this 1 mile of ground is significant. Overburden depth is not prohibitive and road access could be easily established, so that preliminary development costs would not be onerous. Because much of the creek channel and adjacent banks are thawed, this ground could be worked using a floater dredging operation. I believe that a preliminary test program to evaluate the gravel at depth would be warranted; either drilling or trenching could accomplish this.

 The high bench gravel turned up some very fine colours, confirming placer gold presence. Additionally, the geographic orientation of these benches is such that much of this ground is thawed. I believe that this bench continues up the creek so that there is probably an immense volume of gravel. Dome Creek, a tributary of the Fortymile in Alaska, currently supports an high bench placer operation. Dome Creek and Clinton Creek both originate on Liberty Dome. Trenching could be undertaken at the rim of the bench where gravel depths are shallow enough. I expect that drilling would be required to evaluate much of this ground because it is probably in excess of 30 feet deep.

The most interesting area which I investigated was the Fortymile bench ground below the canyon. This bench had some gold in the upper layers of gravel which I sampled. The gravel showed that it had undergone an intense sorting action, leading me to believe that there could be significant concentration on bedrock. The bench contains a large enough quantity of placer gravel to warrant further work. I calculated, roughly, that this bench could contain approximately 200,000 yds³ of gravel. The fact that a dredge had successfully worked the opposite side of the river is a positive indication. I took a position on this ground by staking a discovery claim on at the mouth of Hoodoo Creek. While I wasn't particularly interested in the creek, locating in this manner gave me 2,000 feet of river frontage, the equivalent of 4 river claims.

I believe that this project was successful for the following reasons:

- I was able to eliminate areas that I believe are nonviable.
- I located some areas which I will go back to and perform further work on.
- I acquired a promising piece of bench ground which I will be investigating further.

Drainage -	Sample #	Weight in Te	# Colours	Comments
•	11-12-01	9	· · 0	angular gravel, black sand
	11-12-02	8	0	lots of black sand
Fortymile River	11-12-03	11	0	garnet
bench below	11-30-01P	55	3	fine, chunky colours, bright gold
canyon	11-30-02P	47 ·	· · 0	black sand
right limit	11-30-03P	51	3	lots of black sand, fine colours
	11-30-04P	39	8	fine colours, particles rather than flakes
	11-16-01P	12	0	broken schist
Hoodoo	11-16-02P	15	0	angular gravel/broken bedrock
Creek	11-16-03P	20	0	some black sand
•	11-16-04P	35	0	gravel is more washed, quartz
	11-15-01P	12	0	some heavy concentrate and black sand
Voodoo	11-15-02P	10	0	quartz particles
Creek	11-15-03P	15	· 0	slatey gravel with graphitic schist
	11-13-01	7	0	little black sand
Maiden	11-13-02	10	0	little black sand
Creek	11-13-03	12	0	pea gravel
• ·	11-13-04	8	0	light coloured gravel
L	11-13-05	8	0	little black sand
	11-18-06P	9	0	from 4' below surface in cut bank, washed gravel
	11-18-07P	12	0	from 7' below surface in cut bank, lots black sand
Powerhouse	11-18-08P	7	0	from 7' below surface in cut bank, magnetite
Creek	11-19-02P	8	0	100' from mouth, lots black sand
	11-19-03P	10	0	lots of loose gravel and sand, garnets
	11-19-04P	7	0	rounded, washed gravel
	11-19-05P	9	0	rounded course gravel
	11-20-01	12	0	washed gravel from near culvert

TABLE 1 - Results from Placer Grab Samples

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Dminage	Sample #	Weight	# Colours	Comments
<u>Corrections and a second s</u>	08 43 04			
:	00-13-01	~8	0	
	00-13-02	~8	0	
Mickey	06-13-03	~8	1	left limit bank, very fine colour
Creek	06-13-04	~8	0	same location as 03
	06-13-05	~8	0	creek bed
	06-13-06	~8	2	very fine colours between 100 & 60 mesh size
	06-13-07	~8	1	fine colour, fairly large garnet
	06-13-08	22	7	3 colours extremely fine, bright flaky gold
	08-24-01	~8	0	creek bed, lots of black sand
	06-24-02	~8	0	creek bed
	06-24-03	~8	0	right limit
	06-25-04	~8	4	right limit, fine colours
	06-24-05	~8	0	right limit bank
	06-24-06	~8	1	from creek bed
	08-24-07	~8	0	from creek bed
	06-24-08	~8	0	left limit
	06-24-09	~8	0	creek bed
	06-24-10	~8	0	right limit bank
	07-08-01	~8	0	creek bed
	07-08-02	~8	0	creek bed
	07-08-03	~8	0	creek bed
	07-08-04	~8	0	right limit
	07-08-05	~8	0	right limit
	08-10-01	~8	0	mouth of upper guich
	08-10-02	~8	0	mouth of upper guich
	08-10-03	~8	0	mouth of upper guich
	08-10-04	~8	0	mouth of upper guich
	08-10-05	~8	0	mouth of middle gulch
	08-10-06	~8	0	mouth of middle gulch
	08-10-07	~8	0	mouth of middle gulch

TABLE 1 - Results from Placer Grab Samples, continued

Draihage	Sample #	Weight	# colours	Comments
	08-10-08	~8	0	lower gulch mouth area
Mickey	08-10-09	~8	0	lower gulch mouth area
Creek	08-10-10	~8	0	lower guich mouth area
continued	08-10-11	~8	0	creek bed near lower guich
	08-10-12	~8	0 ·	creek bed near lower gulch
	08-10-13	~8	0	creek bed near lower gulch
	11-0 9- 01	9	0	right limit, serpentine in sample
	11-09-02	10	0	right limit, inside bend,
	11-09-03	11	0	left limit, some black sand
Clinton	11-09-04	10	0	same location as 03, lots of black sand
Creek	11-0 9- 05	8	0	from mid-stream bar, angular rock
	11-09-06	9	0	left limit, some black sand
	11-09-07	10	0	bar near mouth
	11-21-01P	8	0	left limit cutbank
	11-21-02P	8	0	right limit, serpentine
	11-21-03P	10	0 ·	right limit, coarser gravel,
	11-21-04P	11	0	left limit inside bend
	11-21-05P	9	0	left limit, black sand & heavies
	11-21-06P	8	0	from gravel bar in mid-channel, little black sand
	11-21-07P	11	0	right limit, serpentine
	11-21-08P	10 ·	0	left limit, lots of black sand
	11-22-01P	10	0	right limit, lots of black sand
	11-22-02P	9	0	right limit, lots of black sand
	11-22-03P	11	0	right limit, lots of black sand
	11-22-04P	11	0	left limit, coarse rounded gravel
	11-22-05P	12	0	left limit, washed gravel
	11-24-01P	9	1	10' depth in bank, nice washed gravel, fine colour
	11-24-02P	11	0	same location as 1, lots of heavy concentrate
	11-24-03P	8	0	same location as 1 &2, lots of black sand

TABLE 1 - Results from Placer Grab Samples, continued

Drainage	Sample #	Welchit In Brit	A Colours	Comments
	11-26-01P	9	0	right limit above Beck Creek, washed gravel
	11-26-02P	10	0	right limít above Beck Creek, sandy gravel
Clinton	11-26-03P	10	0	right limit above Beck Creek, lots black sand
Creek	11-26-04P	10	1	left limit near Beck mouth, sandy gravel, fine colour
continued	11-26-05P	9	0	left limit near Beck mouth, some black sand
	11-26-06P	11	0	right limit above 01 location, coarse gravel
	11-26-07P	10	1	location as 06, lots of concentrate, fine colour
	11-24-04P	9	0	bank near workings, washed gravel tho still angular
	11-24-05P	10	0	location as 04, black sand
Beck	11-24-08P	10	1	fine colour, round shape under magnification
Creek	11-24-07P	9	0	bank near worked area, coarse gravel
	11-25-01P	9	0	right limit above old workings, black sand
	11-25-02P	7	0	left limit
	11-25-03P	11	0	left limit, pea gravel
	11-25-04P	10	0	gulch area left limit, black sand
	11-25-05P	9	0	gulch area right limit, small garnet
	11-2 9 -01	25	1	very fine colour
	11-29-02	19	0	washed gravel, black sand
Clinton	11-2 9 -03	23	2	very fine colours
Creek	11-29-04	20	0	rounded gravel, black sand
high bench	11-29-05	24	0	large cobbles, sandy gravel
	11-29-06	18	0	black sand

TABLE 1 - Results from Placer Grab Samples, continued

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MAP 1 - PROSPECTING LOCATION (from "DAWSON" Map Sheet 116B & C) scale 1" = 6 miles (approx)







ACME ANALYTICAL (ISO 9002 Ac	LAB	ORA dit	ed	Co.) LT	D .		852	B. JEO	HAS CHR	ITII MT(ngs Cal	ST A	. VA Nal'	ncou Ysti	JVBI 9 C	r B('RR'	C TII	V6X 71C3	IR6 TE		PH	ONE	(604) 25	3-3	158	- Pa	,X (6	04)2	51-1
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SAMPLE#	Ho ppm	Cu PP®	РЬ Ррл	Zn Apos	Ag ppn	Ni PPOD	Co ppm	Xn ppm	fe Z	As ppn	لا معجم	Au pps	Th PPR	Sr ppn	Cd	Sb ppm	Bi ppm	v Ppm	Ca X	P X	La	Cr ppe	Hg X	Ba ppm	1i 1	8 B	AL X	Na X	r X	u u ppa (u** ≥/t
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Additional Information

People who worked on the project

Leslie Chapman William Claxton Tom Claxton Dawson City Dawson City Dawson City

Area Investigated

Unstaked tributaries of the lower Fortymile River

Report Preparation

Leslie Chapman and William Claxton prepared the report in 33 manhours.

Lower fortunals Area Thompson 98 June 13 - Mickey Creek - We dove to literariand one on the hand of an entry of Cluster Charlos Charles. 1 located the upper children bot of the a classic killed on the check + torgan walks the creat for there I Englis + roughly sound - Thingthe Shullow sous kersten us Sampler Inconcel · 106-13-01 panned from creek kont - O colours · 06-13-02 Farmer from were bed localars · OG-12-03 · left finit back · 06-13-04 - some location 021 - 0 dents



- 06-13-05 creet test - 06-13-06 right wint with - 06-13-07 same as of - 06-13-06 same - 06-13 100 2016 Danda a de la comercia de l - + (2013) r



(3)June 24/98 Mickey Creek - We went back to Mickey Ck to continue working our way up the creek panning cowe go - creek valley widers ant at N/12-2m der up correct from mouth w/ a nice kench or the right limit - cls. is shallow ~ 245 w/mass + monthy scrubby sprace -10 colours lots of blk sand "06-24-01 'creak bod' ·06-24 02 creek bed - Ocalars •06-2402 RL - 0 cdars •06-24-04 RL - 4 fine calour ·06-24-06 RL back - O colour 06-24-06 creek bed Icolar •06-24-07 create bed O celour ·06-2408 LL bank - O ·06-24-09 creek beel - 0 ·05-24-10 RL back -0



4 upper Mickey Ch. The Clubon d July 8/98 drove up ~ You mile to an area 1000 bofore Frain Ck turnoff where a cart trail takes of Mickey Ck valley 10-10s 1 walked cat trail dorenh. until directly above var Creik than olropped down who the relley demapost 4 valley in this area is not tower 14 steeper them quer mach loss growel in this area than "lover down creak camples - walking up Stream -07.08-01 creek bed O colours - 07-08-02 11 0 -07-08-03 15 -07-08-04 RL COCODIUS 07-08-05



fuly 10/98 upper/med Mickey Ck -bolon July & I drove to Cat trail on Chitan Ck rotact & Walked down to chort daw stream walked Dolaxi -took samples at mouths of LL Visin-guardes - series of 3 -series of gulcher 08.10-01 top gulch month -0) colar: -0 08.10.02 .08-10-03 108-10-04 .08-10-05 108-10-05 0 08-10.07 ·08-10.05 108 10 01 ι, .08.10-10 ·08·10-11 creek last Norlower grent de 108-10-12 \mathcal{O}



6 fuly 10/98 -mid Meckey Ck cart. ·08.10-13 near wouth d'lover -0 colorus gulen I did not see any enridence of did workings -walked up lover gulch -walked up lower yolch (Steep climbol) It back up heizy to where I felt the truck 16 98 Trank day organized supplies fer to fetry from Lawson an but of Monten Charles

(7)Nov 4,98 temp -5° in an , and , toland, Classing in pressingly getter me more Skent and and pand de sons exercising quartes in mi a alfestad quartes solved kontarte quartes to quartes most question missions die minterly SNO schul bedard a very forthe Ylagner host sched has brindly to clay arriter quarty infra on mind hime been very not abserved amerilyation a grant Zura Sample' acount many work from 11-07-01 west end 11-07-02 10' else wil quet 11-04-03 Canddy Frank

vertifiel - quarts is very critical - quarts is very critical here wrokens to n 4' across 20-25' above rand

9 -10°C chear & column went back to chilf read to re-sample weathend of intrusion area sampled of Novitt (sample 11-04-01 ceas lost) • 11-07-01 (replaces 11-04-01) I encommend the diff pace purther west but did not purt any other significant intimiens. If this complete proves interesty - then some of the sinceller storigens could be complet

(0)Nov 9 -10°C partly donally 2 showmadures order word to Clinter street. We walked demation of the field to the month of the creak. Vegetalan to beauty w/ large sphere. Overwand to 344 black, 1 was able to collect grant even able to conner it. Samples from cut bunks. 011-01-01 Right hunt 11=01-02 right hist marche bend • 11-09-03 left limit • 11-09-04 same working of 03 • 11-09-05 from mid-streen bas • 11-09-06 left limit • 11-09-07 bar near month -Oral is chill open in sport. -flagged sample locations



Nov 10 - 14°C cloudy We took 2 show machines 4 first trank in down thru Canyon there are still quite a few open spots + the lack of show makes rough going on the river bars. The aingth was tricky with hollow that ice + open water, but we get then + went down, to the river banke deposit by Hoodoo Etc. Examined quart stringer in chill in obeining of Bruin Ck. 1 Flatgood a quart outcoop on RL above Erculi for future sampling

(2)NouII cloudy + calm - 17°C We Hork & BANNMachunes went up the hill to sample glasty stowings up an top, about 2 miles John Martine samples 11-11-01 tork sample from 15 (most enterly) staring of quart, by read 11-11-02 is no 2/5 ft. east 11-11-03 is no 30 ft east for think that this may kn a lorge body of yearty. I i will return have a see of Cuteropping further down -11-11-04 - quarts outerap forther edot about inde I thought this was a coulder quist, but it into a

(IZ) rovended knobs of a guterap 11-11-05 geath Showing about 1/2 mile each along road mat of this orients is fairly crembly - especially 1-11-017-52 Hwas colder on top of hul because it was forger + moustor

Œ NOU. 12 -18°C closedy & calim We took 2 crownachines it want back down to Housdow Ck flat. - pretty Tough going through campon. We would hipchan to Meacure the barch (back grans) - it is 724 m. - though it owners out to be and happen pinches out to be quite report in wrotth at both lippu: + dozen ruer ende + dozen ruer Ends. took 3 samples of grovel 11-12-01, 11,-12-02, 11-12-03 gravel is relatively angular rather than well spunded by Sladay in choracter there is up to 20 d would

14 over Howder of 1-12-02 17 24 N

5 Nou 13 -18°C partly cloudy Colum 2 Show where the the company of chensiver a canyon, we to Mardyn Ct went + Plan dawn to up the crack mile. Overbeden of Maurien Charles of H. Walker unito We Matery m Not / tex available . mony areas gravel Sincherlang much 10 bomks 11-13-01 right hit ~ 250 upo 011-13-02 right hit observe - 01 011-13-03 life hit ~ Vernale up 11-13-03 right hit ~ Vernale up 11-13-05 right hit mod fills Sample locations flagged ~ 250 up de

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5 acr N x11-15-0 M /XIHSDE XII-15-03 XII-15-04 XII-15-04 XII-15-04 XII-15-05

16 NOV 14 -17°C mostly clear + calin 2 Stow machines up on hill ·11-14-02 sample theken of quarty outerop: N/4 mile from tumbrows sposite Erwin Ck (Kelepinne sport) Small shoreing "11-14-02 quart- Earrie larger stowing over ~ 10 H quarts in quited orxidispol shiny black surface on 1 take uphile ~ 100 yds from 11-14-01. 1-14-03 quarts in broken rech from side of road -less oxidized ~ Solyds E. past telephone two around

17 Nouit cont. 18" 1 quats 11-14-04 toad sampled - although the is not implice rock, it must Fair come from the insteadicte vicenty probably declarked by roodi building - the simple taken in read + urm-out • 11-14-05 E d 11-11-01,02403 dang Nozel sample 6° quarte seam numerous smaller quarte stringers also closeby 1-14-06 1'0 quark tradier on S Side of troad -again rock ounterful by road kounting

18 Nov 14 cont · 11-14-07 Sample 2'0 pure quate boulder Norde of Road · H-14-08 drainage turnont con S state of record opporter 11-14-07 abt of quarty reforming - some quarty churchs mind w could larger Sample from outrop 1 clouded down the null to see if children I could site from deine contained quarter showing kint they were hard, gray layer schiet ·11-14-09 sample from 3 quarty ponders broken off by rock building arer 15 leveth

19 Nov 15 -16°C overcout colum 2 snowmadhings down over to Horse E Had Walkering up creek/draw below Voorlos - creek evident at mouth then goes undergrand there cleak valley changing onthe flat mark becomes which areas Sample taken from grant in creek ked where it jours plat ·11-15-01P 11-15-028 taken 200 up the creek from 11-15-013 valley is skeepen 20' unde 11-15-038 taken i Sub up the discon-slately grant w/graphicity It's use going up of Sunt starroad duce because the creek is glaciated + steep



(20) Nov 16 -17°C oversact + Dreezy 2 snowmachines to Hoodop it we walked up creat fulch 600' fairly steep a narrow plagged graved showing in way up + sampled on way back doesn • 11-16-01P - broken schist gravel upper end of criek is altriaria · 11-16-02 P - Broken schiet & soul ·11-16-03P - angular ground Source troken andreak to 2'O •1+16-04P - ground in more washed - N50' from month poxed of banch it ~ 150 wide



Nov 17 -19°C mostly clear up some high overine , calm boking at quarte showings on Ther ~ 1/2 mile upstream of Brain at right limit of river quarte seam approx 12"-18" thick some oxidation took 3 samples over ~30 •11-17-01, 02 402 H (there is shell almost no show) making it easy to see red cutcheppings, billiounn trovel an the river is pretty rade bedrock strukes ~ N 80° E f dips 30 ·11-17-04H Sampled from 20'+ 0 populations on over which have faller from outcrop ~100 high x~150' wide unite -guard? R on over end it knike

NOU 18 -14°C clear very light show last night 2 snowmaching up or road ·11-18-01 H from lassi quarts 30 boulder in wice part of road approx 1 mile from summit ·11-18-02H Clubon Ck seels of Scient - near where red clay show up - sample a volcanie rock -very portais w/ last class · 11-18-03H of Ided-red broken school from old road bed ned red day some quark in it ·11-18-04H Oxidned schot orange w/ some serpentine > quatz - below steepest part of rand

(23)11-18-05H -~ 50yds from 1418:05H guntz w/limestone? broken by roadside 11-18-06,07 P placer samples from Eside of culvest on read 06 from ~ 4' belows surface -07 '' ~ 7' ·11-18:06708P placer somme 40' from 06+07 from about 7' below surface gravel is washed with oth

Nov 19 -13°C overcast viliahling took 2 snowmachines over road to Cluten Ce and prospected creek which culvert on road on three - Powerhouse & walked down creek to romele flacon gravel showing: #1127-614 hardreek simple of Guarty outcrop at mouth of ch .11-19-02P placer sample 100' from mouth .11-19-03P lots of loose growd + sand. forked, old claim posts forked, old claim posts from '85? poss. for 2 old claim also large old timber in creek " 11-19-04 PZ placer samples working ' 11-19-05 PJ our using up to called Pierry mouth - nive washed gravel



(25) Nov 20 -7°C low averant w/ some light snow snowmachine to Powerhouse Che walked upstream from the culuent much less gravel chowing them downstream - creek many auts three Overburden of muck large = price right limit starper w/ hoss + scrubby black sprice about 12 mile up trendite to find a calcin but did not sain some of the same old Flacquing as I formal down stram but 10 more claim post 11-20-01 from area rear advert

(26) Nov 21 -12°C overcast lutter show 2 show machines over road to Cluster Ck. use using oilde to travel an the cruck by shire marking for ~ 14 mile untill goen water majole it inpossible we wrathend up Olution the taking some complex as we went us got about 1 mile above throl samples: (locations flager) • 11-21-01P left limit cut back • 11-12-02 Pright mint • 11-12-03 Pright mint • 11-12-03 Pright mint · 11- 12- CHP left with from mante bender che ell- 12.05P leftlint o 11 - 12 - Olopyravel bear in mol dri ground in mongin lor; surprinting



27 Nr. 21 Cont Cluster Ct ·11-21-07Pright band ·11-21-08Pleft band contraction have in loss there encor manual - 2-3

[28] Nov 22 -7°C ~2" new show (finally!) 2 Sharman human over ford again the creak then that and -some moon conter 11-22-017 mil and 11-22-017 RE 11-22-02P RE 11-22-038 RL 11-22-04P LL 11-22 anst 12 Lots of Serpentin visible in growel - from mine wash down prossibly

210.40-11. 50 well x200 love cut 11-24-016 . 18 but willing the other - march will meaning in the could be active and show we Quiter Dr. 4 then up routing on pred & outinessed to mouth of orest (R L todo) 2 man marines vised tour 2 Non 24





30 Nov 25 -18°C luit crow returned to Clerken Ck. tub (R.L) TO Disspect westream. The side Cart Sway ing stream. 18.3.1 48 6 1 de we tound years day them for as the 'cat trail goes. about I mule up from 0 the month the creek gets northered with guildes on both left + = 11-23= DEP ag 'or' ·11-25-03P jeft limit ·11-25 O4P guilde area left hunt •11-25 OSP guilde area right hunt creek is considerably natrower T steeper above guildes

(3) NOU 26 -19°C showing 2 Statesmarkings our road + up Cleation Ck were road we travelled parties up the Total post the trub which I have been properties, I had a look at the month of the rest tricks a pistream + the area of the criet in their viccuity. good loting which charles for China into jed up treen up trib wall 11-26-01P 11-26-02PS Pan RL above Bet on Chike 11-26-03P 11-26-04P- left buit trib, mouth 11-26-05P Left limit toto mouth 11-26-05P RL on Cluten Ck 11-26-07P) above 01-02+03 autor

(31 over シク RL Trub -> X 11-26-05P 11-26-07P 11-26-068 11-26-03P 1-26-02 11-26-01P+ Beck CK ->

Nov 27 -24°C partly cloudy 2 Store machines down liver thru Carryon to Hoodoo Ck ait line for discovery claim I'm staking a compar-discovery claim which will when cover the first along the fortypule R. at the models of herder the 4 Jonation Che

33 Nov 28 Fis -23°C partly cloudy 2 show machine 'over toad to Clusion Ok over Dridge to Cone Hill took z hardrack scimple from exposed rack + bargs bonkiers on Core Hill (50/50) · 11-28-01 H' Orange stancel rock up some semperitie + aspestos plans evedent ·11-28.02 H similar to -01 very hard took oll-28.03H same area some quarty precent snowmaching to reprine borrow put rear old boat landing road there is a large cliff here 11-28-04 H •11-28-04H strange stained rock similar to Cond hield

34 ·11-28-05H Sam at mon quoir. inprap pit overtan - 11-28-06H quartz gar ·11-25-07 H orange stain very hard 4 very heavy looks I similar to one all Vicetoy more across the iter from the M Y2 mile oppl 100k semater e ripraio pil & akat opent rock types when in with a rows

34 high level deports Nov 29 the Storenza avel V Sampled were 41 deed 1 CAN Durac A QQA o sovel O Sran lst Hom

(36) Nov 29 cont. 20 lbs each from depost showing opposite Beck Ck 11-29-01,02 ×03 1 toole 3 more 2016 growt chowing near old Here reposits are 150,200 above 'areak level

37 Nov 30 -27°C dear 2 snowmarchines to Hordon CL to Stake dam took nove samples from sluff in tweet bank -11-30-02P 2 upstream of Hoodoo -11-30-02P 2 downstream of Hoodoo -11-30-04P. samples from up show and

Dec 1, 2, 3 processing filseur samples Dec 4 prepared hardrock sample for shupping Les 5 travel to Decusion Snow machines