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REPORT: This report covers work accomplished in 2000 under YMIP 00-64 and YMIP 00-066.

a) Claim Information: In the prospected areas of Thistle Creek and French Gulch, no claims were in place, or staked under these grants,. Work on Fifty Mile was accomplished on and about the Bon 1-54 and Ber 1-30 Placer Claims owned by Ralph Nordling and Al Rudis. Bon 1-54 is on 50 Mile Creek, and Ber 1-30 is on what we call Cheryl Creek. Six new hardrock claims were located on the left upper fork of Cheryl Creek.

b) Location Map: The general location of all prospecting areas in given in Appendix 2.

c) Claim Maps: Claim locations for the 50 Mile are shown in Appendix 4 .

d) Access:

1. *50 Mile Creek:* Primary access is by helicopter. Limited access is by truck up to the Matson Creek road, and then to the old Mar West mining access road that runs along the ridge line leading to Hart Mountain. Access from the end of this road is within about 1 mile from the top of the target area. From there a difficult transit can be made by foot. Some assist may be possible by 4 wheeler.

2. *Kirkman Creek*: Helicopter would be a best option where time is limited. Ground access is by boat to the mouth of Thistle Creek, then by 4 wheeler along the road along Blueberry Creek and over the ridge to Kirkman Creek. A system of roads can be used for access to Ballarat and Sparkling Creek, and to the top of the ridge over the area reported on in the referenced report by Sparkling Minerals. Transit over some stretches of the road require hand clearing and the use of a chain saw or ax. Foot transit off the road is difficult.

3. *French Gulch*: Access is by truck up the Bonanza, Eldorado, French Gulch roads, and then by foot. A 4-wheeler has limited use along some of the roads leading to abandoned placer properties on lesser creeks. Boat access and foot were used to gain access from the mouths of the lesser creeks such as Ensley, Barker, Jim Creek, and Caraboo.

4. *HIP Barite:* Access is by the Dempster Highway by truck up to the intersection of the target area, and then by foot.

e) Traverses:

1. *50 Mile Creek:* Traverses in the 50 Mile Creek area were largely made over magnetic survey lines. One traverse was made from the end of the magnetic survey, up Cheryl Creek to the end of the placer claims.

2. *Kirkman Creek*: Roads traversed in the area are marked in heavy lines on the Appendix 4 Claim Location Map. Traverses by foot are marked on the same map with dotted lines. Traverse over some stretches of the road required hand clearing.

3. *French Gulch*: Roads traversed in the area are marked in heavy lines on the Appendix 3 Sample Location Map. Traverses by foot are marked on the same map with dotted lines. Walked traverses included French Gulch at samples FG1 - FG5; as defined by dotted lines down Jim Creek and up Ensley Creek; and ¼ mile traverses up Barker and Caribou Creeks from their mouths.

50 MILE CREEK AREA

1. SUMMARY:

a) A Total Field Magnetic Survey was run on the first two miles of Cheryl Creek. Anomalies, probably from placer magnetite, are present the full length of the survey. Earlier sampling on the first mile of the creek indicate values of $6 to $9 dollars per yard. This sampling showed that higher gold values are related to higher amounts of magnetite. The extent of the outlined magnetic concentrations outlined, the values of placer gold and a shallow depth to pay, give Cheryl Creek a high economic potential. Trenching on upper Cheryl Creek and bulk testing are needed to confirm this potential. Magnetic anomalies extending to the top the survey grid indicate that they probably extend to the top portion of Cheryl Creek.

b) Outcrops exposed at the ends of Survey lines show that Cheryl Creek is cut by several zones of ultramafic. Six new hardrock claims were placed over one of these zones. One ultramafic rock sample assayed 214ppm Ni, 1134ppm Cr, 44Cu, 65 Zn, 1.7 Cd, 50 Co, 9ppm Au.

2. GEOLOGY AND PREVIOUS WORK:

a) General Geology: The local geology of the area is described in DIAND Open File 1996-1G, specifically in its coverage of 115N/15,16. It states in general:

> "Northern Stewart River map area southwest of the Tintina Fault Zone is underlain by two distinct lithotectonic assemblages: 1) medium to high grade, polydeformed metasedimentary and met-igneous rocks of the Yukon-Tanana Terrane, and 2) weakly deformed and metamorphosed rocks to the Slide Mountain Terrane. These two assemblages are both mainly Paleozoic in age in the study area, and were juxtaposed by regional scale thrust faults in Early Mesozoic time, during a period of terrane accretion that affected much of the northern Cordillera. A variety of younger (post-accretion) volcanic, plutonic and sedimentary rocks are also present in the study area."

The claim area falls within the Yukon-Tanana Terrane as described in this Open File.

b) Major Rock Units:

- 1Kva: andesite flows and brecias. (late Cretaceous)
- DMS: medium to coarse grained mica schist. Commonly garnetiferous amphibolite, minor quartzite. (late Devonian)
- 1Kgdr: massive hornblende-biotite granodiorite. (late Cretaceous)
- 1Kst: sandstone, pebble conglomerate, minor shale, commonly coal-bearing. (late Cretaceous)
- DMgg: moderately to strongly foliated K-feldspar augen-bearing quartz monzonitic to granitic gneiss (S. Fiftymile Batholith). (early Mississippian)
- EJQM: massive to weakly foliated biotite and biotite-muscovite quartz monzonite and granite; includes abundant pegmatite and aplite phases. (early Jurasic)
- DMc: marble. (late Devonian to early Mississippian)
- 1Kgdr: massive hornblende-biotite granodiorite. (late Cretaceous)
- Psqm: rusty weathering quartz muscovite schist. (late Permian)
- Dmgdg: massive to strongly foliated dioritic to granodioritic gneiss (N. Fiftymile Batholith) (early Mississippian)

c) Other Rock Units:

1. Amerok's Total Magnetic Field Survey Report states that Cheryl Creek is underlain by two rock units. It further states: "To the North of L1190N (about the top of the Ber 12 claim) the property is underlain by metamorphic mafic rocks including amphibolite and ultramafic rocks belonging to the Nising, Nasina , and Slide Mountain

assemblages. These rocks appear to strike east-west based on their aeromagnetic signature. South of L1190N, the property is underlain by orthogneiss of the Fifty Mile Batholith. The Report also observes "that the intrusive rocks have a very subdued aeromagnetic signature. Residual magnetite in placer deposits on Cheryl Creek is likely derived from the northern rock unit."

2. Outcrops exposed at the ends of Survey lines show that Cheryl Creek is cut by several zones of ultramafic well below L1190N. Ultramafic has been found at L280S, L120S, L00, L40N, and L720N. Those checked, however, did not appear to be magnetic. A hand pit sample (F3-7) taken in 1998 also exposed a seam of decomposed ultramafic at L1040N. It showed 46ppb Au along with minor W and Hg.

3. Significant to large magnetic hardrock-type anomalies show up on the Report map at L400S - L560S, and L760 - L800N.

d) Local Structure:

1. The area is structurally complex and has a scarcity of exposures. A regional scale thrust fault dominates the 50 Mile Creek along its left limit. The valley of the 60 Mile River in the central and western part of the Sixtymile District follows a northeast-trending graben structure that has downdropped Cretaceous volcanic and sedimentary rocks against metamorphic rocks of the Nasina and Klondike Schist. Cretaceous strata are cut by steeply-dipping normal faults. All of the smaller bodies of greenstone and/or ultramafic rocks in the area are thought to mark thrust faults.

2. There is a probable major fault running east - west at about L1190N. Structure taken at L1360N had a strike of 069° and dip of 30° east. The significance that the various ultramafic zones crossing Cheryl Creek are probably all related to thrust faults is notable.

e) Previous Work: There are no MINFILES for Cheryl Creek. Previous work reported in the general area is as follows:

1. *MINFILE #115N 039:* North-northeast striking, mesothermal (?) quartz-carbonate veins with major Ag, Pb and minor Au, Zn. 63-55-29N 140-48-52W
2. *MINFILE #115N 040:* Lenses of galena and arsenopyrite with minor sphalerite, tetrahedrite and boulangerite in northeast-striking quartz veins. Major Ag, Pb and minor Au, Zn. 63-54-50N 140-47-46W
3. *MINFILE #115N 042:* An epidote-magnetite-diopside skarn containing minor chalcopyrite and pyrrhotite developed at the contact between a marble layer and the intrusion (Dms and 1Kgdr). Major Cu, Ag, Pb, Au. 63-54-58N 140-34-35W

4. *MINFILE #115N 043:* 300 m long skarn with traces of malachite and old workings. 63-53-26N 140-37-40W
5. *MINFILE #115N 044:* Late Cretaceous quartz pebble conglomerate (unit 1Kst), with one specimen containing a small rounded flake of gold. The conglomerate has a thickness of 15-30 m and outcrops over approximately 0.8 km. It is capped by, and may extend under, andesitic volcanic rocks (unit 1Kva). No mineralization was found in 1973 by Silver Standard. Paleoplacer with Au as the major commodity. 63-53-18N 140-25-10W
6. *MINFILE #115N 119:* Another outcropping of unit 1Kst defined in MINFILE #115 044. 63-55-10N 140-25-32W
7. *MINFILE #115N 123:* A thrust -fault-bounded lens of serpentinite occurs along the fault to the east of the occurrence. A vuggy quartz carbonate vein with silver and minor gold, copper and no visible sulphides, outcrops on the hanging wall of the fault. 63-58-31N 140-53-15W
8. *MINFILE #115O 158:* Traces of disseminated galena within a very rusty weathering band of pyritic muscovite-quartz schist (Psqm) of Klondike Schist assemblage. 63-56-58N 140-42-48W
9. *Assessment Evaluation Report on Monica 1 to 10 quartz mining claims, 22 February 1999:* This report reaches the following pertinent conclusions:
    a. Results of field work, assay and analysis (till that date) do not point to specific large scale targets. They do indicate, however, that a major gold deposition event has taken place.
    b. A major gold deposit is possible within or adjacent to the claim group, or in its general area.
    c. Deposit types that should be considered as possibilities include: Pogo style, Epithermal, Quartz Carbonate Vein Gold, and Disseminated and Replacement Gold.
    d. Further field work and analysis on the Claim group is recommended.
    e. Detailed field work and analysis should be expanded to the general claim group area, and in particular to the nearby low underlying the pup that drains the Claim group.
10. *Glaciation, Gravel and Gold in the Fifty Mile Creek Area, West Central Yukon, Grant W. Lowey, Yukon Geology Program, Nov 1999:*

    Dr. Lowey confirmed that placer gold occurs in lower-level terraces located along Fifty Mile Creek and in lower-level terraces located along several tributaries to Fifty Mile Creek, and there is potential for placer gold in upper-level terraces located along Fifty Mile Creek." Dr Lowey's pan sample taken at a placer exploration test pit showed a gold content o 0.024oz per cubic yard . The report also describes the gravel column and heavy mineral constituents from selected test pits.

11. *Total Magnetic Field Survey of the Cheryl Creek Property, Fifty Mile River Area, Yukon Territory, A Report for Al Rudis by Amerok Geosciences, Ltd.*, dated October 24, 2000. This survey was conducted as part of YMIP 00-64 and 00-66, and it is attached hereto as Attachment 1. It contains a description of pysiology and placer geology more specific to the Field Survey area.

3. WORK PERFORMED & RESULTS:

a) A *total magnetic field survey* was conducted. A description and results on the principal survey are shown in *Total Magnetic Field Survey of the Cheryl Creek Property, Fifty Mile River Area, Yukon Territory, A Report for Al Rudis by Amerok Geosciences, Ltd.*, dated October 24, 2000 and attached as Attachment 1. Two additional, short placer magnetic surveys were run. The first covered three parallel, short (17.5 m) lines across the mouth of Cheryl Creek. The second covered four short parallel lines on the 50 Mile Terrace just below Cheryl Creek. Computer generated graphs of these short surveys are being generated by Amerok, and can be forwarded when available.

b) *Samples:* Previously sampled placer gold is largely coarse with a few pieces showing enclosed fragile cuprite crystals. This indicates that a probable gold source lies within the Magnetic Survey grid. Samples to help locate the placer source were taken in proximity to the ends of the Survey grid lines, and in unclaimed areas. Fifteen hardrock samples were taken. Three silt samples were taken. One pan sample from a shallow pit was taken. Sample location is shown at Appendix 3. Sample Assays are given in Appendix 1, Assay Reports.

c) *Total Magnetic Field Survey Results:*

1. *Placer:* The survey along Cheryl Creek shows a semi-continuous magnetic anomaly that probably defines an old stream channel of high magnetic concentration. This probable stream channel extends the full two mile length of the survey. This is quite significant as earlier hand and cat pit samples consistently showed values of $6 to $9 per yard at pay. Graphs of the lines at the mouth of Cheryl Creek and on the 50 Mile Terrace below Cheryl Creek are being processed.

2. *Hard Rock Placer Gold Source:* As noted above under *Other Rock Units,* significant to large magnetic hardrock-type anomalies show up on the Report map at L400S - L560S, and L760 - L800N.

d) *Assay Results:*

1. Overall assay results are shown at Appendix 1, *Assay Reports.*

2. Samples with significant results are as follows:

   a. 00-W-80: 214ppm Ni, 1134ppm Cr, 44ppm Cu, 65ppm Zn, 1.7ppm Cd, 50ppm Co, 5Sb, 9ppb Au.

   b. 34N 140E: 100ppm Zn, 29ppm Cu, 5ppm Mo, 9ppb Au.

   c. Post-2-Ber-18: 24ppb Au, 150ppm Zn, 5ppm Mo. (Ultramafic)

   d. B61P: Pan sample from small 2' deep pit near L00. Depth of bedrock unknown. No muck. Two 1/3 pan samples showed an estimated $5 per yard. Under 30X, also showed a clear sapphire blue mineral with included gold.

4 WORK METHOD :

a) *Total magnetic field survey* grid, method and personnel are discussed in the Amerok report. Ralph Nordling, Al Rudis and two technicians provided line cutting and grid layout.

b) *Assay Sampling* hardrock locations were necessarily in proximity to outcrop and slide materials adjacent to line cuts. Three silt / soil samples were taken in stream sediment of Cheryl Creek. One small pit (dug for ultimate use as a latrine) was sampled and panned. Appendix 3 shows the resulting Reconnaissance Traverses and Sample Locations.

c) *Problems* in sampling in the 50 Mile Creek area come from the roughness of terrain, in-penetrability of the vegetation, prevalence of muskeg, and deadfalls. This limits traverses largely to ridge lines and to stream cut bedrock. The same difficulties apply to line cutting, which however, did facilitate sampling access.

d) *Persons sampling* were Al Rudis, Ralph Nordling, and Shawn Ryan.

e) The complete *Prospecting Technical Report* was done by Albert Rudis in six full days of effort.

5. SAMPLE ROCK TYPES:

a) Shabber-1-Float: Float . Quartz with pyrite, chalcopyrite, and sphalerite mineralization along contact with schist edge.

b) Post-2-Ber-18: Float from bank. Ultramafic. Mostly pyroxene and olivine.

c) Post-2-Ber-18 River: Float from bank. Felsic quartz, feldspar pegmatitic rock in contact with small lens of pyroxene, serpentinized olivine, phlogopite. Lenses appear injected along fracture with little alteration of host rock. Shows 1624ppm Ba, 98ppmCr, and 511ppmSr.

d) 00-W80: Slide rock on bank. 30'X30' exposed. Ultramafic. Possible intrusive. Pyroxene, serpentinized olivine. High chrome (1134ppm).

e) 1N 110W A: Slide rock on bank. Ultramafic with quartz inserted along fractures. One quartz pod 12"X5". Quartz microstructure.

f) 1N 110W: Slide rock on bank. Very dark mafic gneiss.

g) 14N 180W: Slide rock on bank. High quartz gneiss or schist with quartz stringers up to 4" thick.

h) 14N 180WA: Slide rock on bank. High quartz gneiss or schist with quartz stringers up to 4" thick.

i) 18N 140E: Outcrop. High quartz gneiss with 4" thick quartz vein. Nearby olivine/pyroxene float not sampled.

j) 25N 140E: Slide rock on bank. Light felsic gneiss. 12ppb Au.

k) 34N 00: Float from bank. 1 foot X 1 foot not rounded, rough rock of pure milky white limestone. No alteration shown. 9ppbAu.

l) 34N 140MO, 34N 140M1A, 34N 140M1B, 34N 140M1C: Outcrop 30'X30'. High quartz banded gneiss with pronounced gossan. Strike 069°, Dip 30° E. 100ppmZn, 29ppmCu, 5ppmMo.

m) S3N 120E: Slide Rock from bank. Ultramafic and Quartzite in close proximity. Samples mixed giving light ultramafic signature to ICP. 64ppmZn, 37ppmCu, 8ppmAu.

n) S7 EndW 40 B: High quartz schist or gneiss with sparse pyrite.

o) S1N-30E, S3N-20E, S17N-20E: Sediment samples.

6. CONCLUSIONS:

a) Conclusions and Recommendations presented in the Amerok report on the Cheryl Creek Magnetic Survey are: "The results of the total magnetic field survey conducted on the Cheryl Creek property indicate the location of several anomalies which could be arise form placer magnetite concentrations. These anomalies should be investigated on the ground and tested by excavation if resources permit. Those anomalies with higher amplitudes and flanking negative anomalies should be investigated first." Also: "Many of these lack flanking troughs suggesting that the deposits are deeper than they are thick."

b) Earlier sampling on the first mile of the creek indicate values of $6 to $9 dollars per yard. This sampling showed that higher gold values are related to higher amounts of magnetite. The extent of the outlined magnetic concentrations outlined, the values of placer gold and a shallow depth to pay, give Cheryl Creek a high economic potential.

c) Trenching on upper Cheryl Creek and bulk testing are needed to confirm Cheryl Creek's high potential.

d) Magnetic anomalies extending to the top the survey grid indicate that they probably extend to the top portion of Cheryl Creek.

e) There is an episode of pyritic, and probably gold mineralization that saw injection along zones of weakness and postdates quartz stringer and lens insertion.

8. RECOMMENDATIONS:

a) Carry out trenching on upper Cheryl Creek.

b) Bulk test lower and upper Cheryl Creek to confirm its high economic potential.

c) Conduct further magnetic survey to cover the upper portion of Cheryl Creek.

d) Continue efforts to locate placer gold source on Cheryl Creek.

THISTLE MOUNTAIN / KIRKMAN CREEK AREA

1. SUMMARY:

a) Broad exploration was made in the of Kirkman, Ballarat, and Sparkling Creeks drainage. An effort to concentrate on the quartz vein system defined in previous work by Sparkling Minerals was unsuccessful because of difficulty in finding any trace of posts, grids, or major in-place quartz vein systems in the area mapped. Sampling concentrated

on areas that drained high and low magnetic signature targets as defined in published aeromagnetic survey. Significant targets for further exploration and possible staking were found associated with Kirkland, Balarat, and Sparkling Creeks. A high (11.4 ppm) silver silt hit was taken at the mouth of an unnamed creek entering the Yukon between Kirkman and Ballarat Creeks.

b) Follow-up silt and soil sampling is recommended for:

1. A potentially large quartz vein system defined by a magnetic low on the ridge above Blueberry and the Kirkland Discovery Pup.
2. Along the next right limit tributary up from Kirkman Discovery Pup, and up to the top of the ridge that it drains. Sample SKIR-104 refers.
3. The unnamed creek showing a high silver silt sample.
4. A Magnetic Low over the right limit ridge at the mouth of Kirkland Discovery Pup.
5. An area on a ridge between Sparkling and Ballarat Creeks at the probable extension of the quartz vein system defined in the Sparkling Minerals Report. SSPA-035 road sample refers.
6. The area defined in the Sparkling Mineral Report if it can localized.

2. GEOLOGY AND PREVIOUS WORK:

a) General Geology: Geology of the area is given in a to-be-published GSC Map, Thistle Creek Area, Yukon Territory, based on work done by J.J. Ryan and S.P. Gordey in 2000.

b) Rock Units:

- Late Cretaceous to Eocene?: (15) *Porphyry* possibly related to Carmacks volcanics.
- Jurassic or Cretaceous: (14) Pink to gray *Granite.*
- Paleozoic and/or Mesozoic: (13) *Foliated Granite* including *Quartz Monzonite.* (12) *Gabbro.*
- Mid-Paleozoic:
  - *Orthogneissic Rocks:* (11) *Augen Gneiss.* (10) *Felsic Gneiss*, pink to orange. (6/9) *Amphibolite* and *Mafic Gneiss* units undivided. (9) *Mafic Gneiss*, gray.
  - *Metavolcanic (?) and Volcaniclastic Rocks:* (8) *Mafic Schist*, mostly on Thistle Mountain. (7) *Quartz-Sericite Schist.* (6) *Amphibolite*, schist and gneiss.
  - *Metasedimentary Rocks*: (5) *Marble.* (3/4) *Quartz-Mica Schist* and *Mica-Quartz Schist / Paragneiss* Units

undivided. (4) *Quartz-Mica Schist.* (3) *Mica-Quartz Schist/Paragneiss.* (2) *Conglomerate*, grades to Quartzite. (1) Quartzite, gray to white.

c) Key Previous Work:

1. Key previous work in the area was done by Sparkling Minerals Incorporated in 1991. Documented results included the discovery of a vein system uncovered in Ballarat Creek. This vein system is composed of coarse grained feldspar and quartz dykes cut by secondary limonitic quartz veining. Mineralization seen is predominately specular hematite and a minor amount of pyrite. The vein system was exposed for a 75 meter width though the Ballarat valley. The dykes trend 057° and dip vertically. It is concluded that the presence of such a system indicates a nearby intrusion and possibly more systems within the region. Also concluded was that the rich concentration of placer gold at this locale likely resulted from the erosion of the exposed vein system.

2. The Kirkman Creek and adjacent drainage area includes several significant magnetic highs and a magnetic low area shown on GSC Aeromagnetic Survey, Map 4306G.

3. The area is marked by major placer production in coarse gold.

3. WORK PERFORMED AND RESULTS:

a) Broad exploration was made in the Kirkman, Ballarat, and Sparkling Creek drainage. An effort to concentrate on the quartz vein system defined in previous work by Sparkling Minerals was unsuccessful because of difficulty in finding any trace of posts, grids, or major in-place quartz vein systems in the area mapped. Silt samples were taken at key tributaries. Unmined creeks into the Yukon were approached by boat from the river in order to sample at their mouth wherever possible. Significant targets for further exploration and possible staking were found associated with Kirkland, Balarat, and Sparkling Creeks. A high (11.4 ppm) silver silt hit was taken at the mouth of an unnamed creek entering the Yukon between Kirkman and Ballarat Creeks.

b) *Samples:* 16 sediment and 21 rock samples were taken.

c) *Assay Results:*

1. Overall assay results are shown at Appendix 1, *Assay Reports.*

2. Samples with significant results are as follows:

   a. SKIR 104 (No Id. on Assay sheet): Silt. **19ppb Au**, .5ppm Ag, 28ppm Cu, **178ppm Zn**, **193ppm As**, **6ppm Mo**. First right limit tributary upstream of Kirkman Discovery pup.

   b. SKIR 101: Silt. Mouth of Kirkman Discovery Pup. Cuts triangular low and drains low at ridge between Pup and Blueberry Creek. 100ppm Zn, 29ppm Cu, 5ppm Mo, 9ppb Au.

   c. SKIR 102: Silt. Tributary to Kirkman 1km below discovery pup. Cuts triangular low. 100ppm Zn, 29ppm Cu, 5ppm Mo, 9ppb Au.

   d. SKIR 103: Silt. 16ppb Au, 70ppm Zn.

   e. SKIR 105: Silt. **29ppb Au**, 45ppm Pb.

   f. SKIR 033: Silt. 15ppb Au, 64ppm Zn.

   g. SKIR 034: Silt. 17ppb Au, 69ppm Zn.

   h. SKIR 035: Silt. 15ppb Au, 40ppm Zn.

   i. SKIR 036: Silt. 24ppb Au, 24ppm Cu, 29ppm Pb, 63ppm Zn, 4ppm Mo.

   j. SKIR 037: Silt. 85ppm Zn.

   k. SKIR 038: Silt. 14ppb Au, 32ppm Cu, 27ppm Pb, 73ppm Zn.

   l. SKIR 039: Silt. 20ppb Au, 3.5ppm Ag, 34ppm Cu, 27ppm Pb, 79ppm Zn.

   m. KIR 1: Rock. Calcareous gneiss. 9ppb Au, .2ppm Ag, **115ppm Cu**, 154ppm Sr.

   n. KIR 103: Rock. 12ppb Au, **282ppm Zn, 26ppm Sb, 6ppm Mo**, 4.5ppm Cd.

   o. BAL 202: Quartz Rock. 26ppb Au, no ICP.

   p. BAL 203: Amphibolite Rock. 9ppb Au, 60ppm Cu.

   q. SSPA 031: Silt. 14ppb Au, 47ppm Cu, 97ppm Zn.

r. SSPA 032: Silt. **51ppb Au**, .6ppm Ag, 42ppm Cu, 34ppm Pb, 96ppm Zn, 5ppm Mo.

s. SSPA 033: Silt. 15ppb Au, 25ppm Cu, 23ppm Pb, 64ppm Zn, 3ppm Mo.

t. SSPA 034: Silt. 17ppb Au, 23ppm Cu, 27ppm Pb, 69ppm Zn, 5ppm Mo.

u. SSPA 035: Silt taken in natural silt trap on road at ridge between Ballarat and Sparkling Creeks. Should be in an extension of the mineralized quartz zone defined by Sparkling Minerals Report. 15ppb Au, .4ppm Ag, 31ppm Cu, 40ppm Pb, 96ppm Zn.

v. So41: Silt. **11.4ppm Ag**, 13ppb Au, 48ppm Cu, 28ppm Pb, 90ppm Zn, 4ppm Mo.

4. WORK METHOD :

a) An effort to concentrate on the quartz vein system defined in previous work by Sparkling Minerals was unsuccessful because of difficulty in finding any trace of posts, grids, or major in-place quartz vein systems in the area mapped. We traversed to the head of Ballarat, penetrated half way into the map indicated claim area, and saw none of the post or grid markings that were indicated on the map.

b) Samples were made on all key accessible tributaries entering Kirkman Creek from one mile below Kirkman Discovery Pup to its head; on all the significant tributaries on Sparkling Creek; and on upper Ballarat Creek in the vicinity of the mapped Sparkling Minerals quartz system. Sampling concentrated on areas that drained high and low magnetic signature targets as defined in published aeromagnetic survey.

c) An effort was made to sample the mouths of all significant unmined creeks entering the Yukon between Thistle and Ballarat Creek. We were only successful at one creek. It showed 11ppm Ag. In particular we tried to sample Touleary Creek from the river. We were unsuccessful because the Creek Valley was set back too far from the mouth to permit a hike-in in the time allowed. Touleary remains a good target because of the well defined magnetic highs and lows at it headwaters.

d) In response to an unconfirmed report that a geologist had recently found visible gold in a large quartz vein on the ridge above the headwaters of Kirkman discovery pup, we spent time exploring the general area. In particular we tried to determine if staking in the area concluded the day before we arrived, covered an indicated low on the

Mag map. We concluded that it did and moved on. Latter review of the claim maps at the Mining Recorder show that the mag low, and probably the quartz vein, have not been staked. Thus the vein remains an open, and significant target.

e) *Persons sampling* were Al Rudis, and Ralph Nordling.

f) The complete *Prospecting Technical Report* was done by Albert Rudis in five full days of effort.

5. SAMPLE ROCK TYPES:

a. KIR-1 through KIR-5: Samples of quartz, quartzite, limestone, and schist from bedrock at bottom of placer pit. KIR 1: Calcareous gneiss with chalcopyrite along fractures. 5' wide exposure. 9ppb Au, .2ppm Ag, **115ppm Cu**, 154ppm Sr.

b. KIR-101: Micaceous quartz schist.

c. KIR-102: One foot wide white quartz vein included in KIR-101.

d. KIR-103: Gray calcareous gneiss. Appearance similar to KIR 1. Twenty foot width exposed at bottom of placer pit. Sparse chalcopyrite and a silver white mineral. Structure trends 070°. 12ppb Au, **282ppm Zn, 26ppm Sb, 6ppm Mo**.

e. KIR-104: Four foot wide white quartz boulder float on Kirkman road about ½ mile below Kirkman Discovery Pup. One of several large boulders, possibly from a triangular low that covers the area. 10ppb Au.

f. KIR-105: Quartz gneiss boulder in stream sampled as SKIR-104.

g. KIR-106: Talus slide rock biotite, quartz gneiss near sediment sample SKIR-104.

h. KIR-107: Largely unaltered gneiss.

i. Bal-0201: Slide rock rusted gneiss with ½ inch quartz banding. In vicinity of Sparkling Minerals Quartz veining.

j. BAL-0202: Milky quartz float in Sparkling Minerals Quartz vein area. 26ppb Au with no ICP run.

k. BAL-0203: Amphibolite float. Bright silver, amalgam-like mineralization along seams. 60ppm Cu, 40ppm Zn.

l. SPA-31: Amphibolite.

m. SPA-32: Placer clean-up fines.

n. SPA-33: Altered gneiss.

o. SPA-34: Amphibolite.

p. KIR-035: Vuggy mineralized quartz float from Kirkman tributary of sample SKIR 039.

6. CONCLUSIONS:

a) Significant targets for further exploration and possible staking are associated with Kirkland, Balarat, and Sparkling Creeks.
b) A high (11.4 ppm) silver silt hit taken at the mouth of an unnamed creek entering the Yukon between Kirkman and Ballarat Creeks is significant. Its potential is increased by adjacent high and low magnetic anomalies.
c) The potentially large quartz vein defined by a magnetic low on the ridge above Blueberry and the Kirkland Discovery Pup is on interesting ground. It has been reported that visible gold has been found in that, or a nearby quartz vein. The vein may be associated with a fault along a quartz monzonite intrusion (rock unit 13 in the table above).

7. RECOMMENDATIONS: Silt and Soil sampling, and possibly staking should be carried out on:

a) A potentially large quartz vein defined by a magnetic low on the ridge above Blueberry and the Kirkland Discovery Pup.
b) The next right limit tributary up from Kirkman Discovery Pup, and up to the top of the ridge that it drains. Sample SKIR-104 refers.
c) The unnamed creek showing a high silver silt sample.
d) A Magnetic Low over the right limit ridge at the mouth of Kirkland Discovery Pup.
e) The area on the ridge between Sparkling and Ballarat Creeks at the probable extension of the quartz vein system defined in the Sparkling Minerals Report. SSPA-035 road sample refers.
f) The area defined in the Sparkling Mineral Report if it can localized.

FRENCH GULCH AREA

1. SUMMARY:

a) The thrust of this project was to do overview prospecting of high potential ground that has had little attention. Exploration was carried out in an area beginning at French Gulch and extending over a broad area to the West. Accordingly anomalous results were sparse, and low grade. Results in four areas were significant enough to warrant recommendation for follow-up exploration.

b) Follow-up silt and soil sampling is recommended for:

1. Barker and Caribou Creeks, and the ridge line between them.
2. The southern side of French Gulch in the vicinity of samples FR-1 through FR-5.
3 An area adjacent to the road in the vicinity of samples 186-6 through 186-12.
4. An area around rock sample ENR 102 to follow up on bismuth, antimony, arsenic, and mercury hit.

2. GEOLOGY AND PREVIOUS WORK:

a) General Geology: The local geology of the area is described in DIAND Open File 1996-1G, specifically in its coverage of 115O/13

b) Key Rock Units:

- 1Kva: andesite flows and brecias. (late Cretaceous)
- Psa: quartz and/or feldspar augen-bearing quartz-muscovite schist (Middle to Late Permian)
- Pgmg: Moderate to strongly foliated biotite quartz monzonite gneiss (Middle Permian)
- 1Kst: sandstone, pebble conglomerate, minor shale, commonly coal-bearing. (late Cretaceous)
- DMsqc: graphitic Nasina Assemblage undifferentiated (mainly pale to dark gray weathering, fine grained quartzite, quartz-muscovite schist, locally garnetiferous (Late Devonian to Early Mississippian)
- EJQM: massive to weakly foliated biotite and biotite-muscovite quartz monzonite and granite; includes abundant pegmatite and aplite phases. (early Jurasic)
- DMc: marble. (late Devonian to early Mississippian)

c) Key Previous Work and Information:

1. This area is within an extension of the Alaskan faulting regimen that includes the Fort Knox, True North and Pogo deposits. The dynamics of this regime is a determinate of the development of these deposits.

2. The gulch has had some of the highest grade production in placer gold in the world. It is famous for the size and quantity of nuggets that were found. There is also reportedly relatively high placer fine gold values in the bench deposits a the mouth of the gulch. Attempts to extract it using a sluice and later a jig have been unsuccessful.
3. Knight, Mortensen and Morison in their DIAND Bulletin 3, *Shape and Composition of Lode and Placer Gold From the Klondike District, Yukon, Canada*, addressed the sources of placer gold in the Klondike in 1994. Their report concluded that the gold sampled in the Bonanza-Eldorado area: "is likely derived form the French Gulch-Golden Gulch area (West of Eldorado Creek)".
4. Positive gold geochems have been found on the ridge to the East of the intrusion. Copper has been found on the ridge to the South. Tungsten in pan concentrates has shown up on the West side ridge.
5. Float from a granitic intrusion can be found near the top of the French Gulch headwaters and to the North of the Indian River.

3. WORK PERFORMED AND RESULTS:

a) Exploration was carried out in an area beginning at French Gulch and extending over a broad area to the West. Accordingly anomalous results were sparse, and low grade. Ridge Lines in proximity to road or 4 wheeler access were covered. Sampling was also done in French Gulch, Jim Creek, Ensley Creek, Caribou Creek, Barker Creek and Bertha Creek. Results in four areas were significant enough to warrant recommendation for follow-up exploration.

b) *Samples:* 33 sediments and 59 rock samples were taken.

c) *Assay Results:*

1. Overall assay results are shown at Appendix 1, *Assay Reports.*

2. Samples with significant results are as follows:

a. Jim Rock 4C: Soil. **32ppb Au**, no ICP.

b. Jim Rock 6: Soil. **26ppb Au**, no ICP.

c. FR-4: Soil. **35ppb Au**, 49ppm Zn.

d. FR-5: Soil. **75ppb Au**, 44ppm Zn.

e. FG 10S-3: Soil. 20ppb Au, .1ppm Ag.

f. FG 10S-7: Soil. 20ppb Au, .5ppm Ag, 27ppm Cu, 26ppm Pb, 1.4ppm Cd.

g. FG 10S-8: Soil. 16ppb Au, .1ppm Ag, 31ppm Pb.

h. YK-1: Rock. 17ppb Au.

i. R186-6: Rock. 8ppb Au, 4209ppm Ba, 77ppm Zn, 4ppm Mo.

j. R186-7: Rock. 10ppb Au, 1670ppm Ba, 110ppm Zn, 4ppm Mo.

k. R186-9: Rock. 20ppb Au.

l. R186-12: Rock 15ppb Au, 4017ppm Ba, 36ppm Zn, 8ppm Mo.

m. R186-15: Silt. 8ppb Au, 215ppm Zn. Bertha Creek.

n. EN-2: Silt. 12ppb Au, 75ppm Zn.

o. Grap-1: Rock. 834ppm V, 8ppm Mo.

p. Jim-1A: Silt. 20ppb Au, 22ppm Cu, 63ppm Zn.

q. ENS101 A/B: Silt 14ppm As.

r. ENS103 A/B: Silt. 14ppm As

s. ENR102 A/B: Rock. 5ppb Au, **2ppm As**, **8ppm Bi**, **8ppm Sb**, 46ppm Zn, 5ppm Mo, **1ppm Hg**, 150ppm Ni, 3ppm Sc, 105ppm Sr, 120ppm V.

t. CAR S2: Rock. 25ppb Au, 4ppm As, 2ppm Sb.

u. CAS S1A A/B: Silt. 10ppb Au, 4ppm As, 32ppm Pb, 116Zn.

v. BAS S1A A/B: Silt. **30ppb Au**, 8ppm As, 18ppm Pb, 130Zn, 2ppm Sb.

w. FGS 19S6 A/B: Silt. 6ppm Bi.

4. WORK METHOD :

a) Exploration was carried out in an area beginning at French Gulch and extending over a broad area to the West.

b) Roads traversed in the area are marked in heavy lines on the Appendix 4 Claim Location Map. Traverses by foot are marked on the same map with dotted lines. Walked traverses included French Gulch at samples FG1 - FG5; as defined by dotted lines down Jim Creek and up Ensley Creek; and ¼ mile traverses up Barker and Caribou Creeks from their mouths. A 4 wheeler was used where old road were impassable to four wheel drive truck. Access to the mouths of creeks fronting on the Yukon River was by boat.

c) A soil sample grid was set up were a major new road cut has been made for access to the Indian River. The grid is located on the sample map as "Soil Grid". Samples were taken of silt along the road beginning at a north end of the cut at a position on the bank marked by blue ribbon. Silt sampling started with FG 10S #3 at a blue ribbon marker and ran to the south with a sample every 250 feet thereafter. The last sample was FG 10S #9 for a total of seven sample points Rock samples FG 10S #1 and #2, and FG 9S #1 through #6 are taken along the same cut.

d) Ridge Lines in proximity to road or 4 wheeler access were prospected. Sampling was also done in French Gulch, Jim Creek, Ensley Creek, Caribou Creek, Barker Creek and Bertha Creek.

e) *Persons sampling* were Al Rudis, and Ralph Nordling

f) The complete *Prospecting Technical Report* was done by Albert Rudis in five full days of effort.

5. SAMPLE ROCK TYPES:

a. Jim Rock #1: Banded gneiss between Ensley and Nine Mile Creeks.

b. Jim Rock #2: Banded gneiss in contact with granitic intrusive.

c. Jim Rock #3: Dark gneiss.

d. Jim Rock #4A, B, C: Small quartz vein material.

e. Jim Rock #5: Dark gneiss. Banded, vuggy, high quartz, sparse pyrite.

f. Jim Rock #6: Dark gneiss. Banded. In Close to contact with granitic rock.

g. Jim Rock #7 2000: Dark gneiss. High quartz, similar Jim Rock 5 and 6.

h. Jim Rock #7 2002: Dark gneiss. High quartz, similar Jim Rock 5 and 6.

i. Jim Rock #8: Dark fine grained metamorphic rock close to intrusive.

j. Jim Rock #9: Dark banded gneiss grading to schist.

k. Jim Rock #10: Fine grained intrusive rock, some banding, high quartz, rusty zones.

l. YK 1: Limestone.

m YK 2. Quartz vein. 3' X 6' exposed.

n. YK 3: Altered quartz with gossan.

o. YK 4: Possible intrusive. Greenish with green and red gossan.

p. YK 5: Altered possibly granitic rock

q. YK 7: Ultramafic off of Yukon River outcrop.

r. YK 8: Altered metamorphic close to contact with intrusive.

s. R186-1: Rusted schist.

t. R186-2 Gray banded schist, high quartz.

u. R186-3. Banded quartzite.

v. R186-4. Banded quartzite.

w. R186-5 Quartz-like inclusion, probably feldspar.

x. R186-6: Granitic intrusive.

y. R186-7 Dark gneiss.

z. R186-8 Light green, blue dense quartzite with significant veining.

aa. R186-9: Gneiss. Vuggy and fractured with sooty coating inside fractures.

bb. R186-10: Schist. Slate-like with quartz veining across schistosity.

cc R186-11: Schist 9 (possibly graphitic) with emerald colored laths along schistosity.

dd. R186-12: High quartz schist. Dense with some weathering.

ee. R186-13: Light colored schist with quartz, feldspar and biotite.

ff R186-14: High quartz schist.

gg. R186-15: Quartz from a 3" vein.

hh R186-16: Banded gneiss with heavy linear biotite. Possible stockwork.

ii. FR Rock #1: Quartz.

jj. FR Rock #2: Quartz inclusions in gray gneiss.

kk. EN #1R: Quartz included in quartzite schist.

ll. FR Rock #1: Quartz.

mm. FGR 18S1: Quartz, vuggy and rusted.

nn FGR 18S2: High quartz schist with pinkish feldspar.

oo. FGR 18S3: Slightly altered gneiss, with included 1" quartz stringer.

pp. FGR 19S1: Schist from very Micaceous to high quartz. Limonitic staining and Manganese in vuggy inclusions.

qq. FGR 19S3: Vuggy rusted quartz enclosed in schist.

rr FGR 23S1: Quartz.

ss. FGR 23S2: Vuggy quartz with limonite stains.

tt. FGR 23S3: Highly foliated gneiss with quartz and feldspar Augens.

uu. FGR 23S5: Easily fractured white quartz with sporadic, large manganese vuggy voids.

vv. ENR 102: Slide rock from talus slope. 8ppm Bi.

ww. CAR S2: Outcrop. 25ppb Au, 4ppm As, 2ppm Sb.

6 CONCLUSIONS:

a) Anomalous results were sparse, and low grade. Results in four areas were significant enough to warrant recommendation for follow-up exploration.

b) The highest gold was found in two silts on the lower end of French Gulch. They were from two of three tributaries that enter into the Gulch from the south. The third tributary was not sampled. Values were 75ppb Au, 44ppmZn, and 35ppb Au, 49ppm Zn.

c) The next highest gold kicks were from Jim Rock 4C and Jim Rock 6, Soils on a ridge adjacent to the soil samples taken in the FG 10S soil grid series. Top values are 32, 26 and 20ppb Au.

d) Although these are low anomalous values, they are significant in that they stand out in the very low background of other samples taken. They present a best location on which to continue to try and localize sources of placer gold in the area.

7. RECOMMENDATIONS: Silt and soil sampling is recommended for:

a) Barker and Caribou Creeks, and the ridge line between them.

b) The southern side of French Gulch in the vicinity of samples FR-1 through FR-5.

c) An area adjacent to the road in the vicinity of samples 186-6 through 186-12.

d) An area around rock sample ENR 102 to follow up on bismuth, antimony, arsenic, and mercury hit.

APPENDIX 1

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Al Rudis WO# 00140

Certified by _____

	Sample #	Au ppb
	-80 +200 Mesh	
s	FG10S-3	15
s	FG10S-4	11
s	FG10S-5	9
s	FG10S-6	10
s	FG10S-7	12
s	FG10S-8	12
s	FG10S-9	9
	-200 Mesh	
s	FG10S-3	20
s	FG10S-4	12
s	FG10S-5	13
s	FG10S-6	14
s	FG10S-7	20
s	FG10S-8	16
s	FG10S-9	11
r	FG9S-2	11
r	FG9S-3	10
r	FG9S-4	7
r	FG9S-5	9
r	FG9S-6	8
r	FG9S-7	8
r	FG10S-1	8
r	FG10S-2	8
r	SHABER 1 FLOAT	8
r	SMRC-1	9

CERTIFICATE OF ANALYSIS
iPL 00I1283

INTERNATIONAL PLASMA LABORATORY LTD
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Client : Northern Analytical Laboratories
Project: W.O. 00140

3 Samples
3=Pulp

[128314:14:07:00100600]

Out: Oct 06, 2000
In : Sep 28, 2000

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
FG 9S-2	P	<	6	44	49	<	<	<	3	<	<	<	5	4	1847	<	61	10	118	20	42	44	3	0.10	7.4%	0.22	1.53	0.15	6.24	1.38	0.01
FG 9S-6	P	<	7	27	47	<	<	<	3	<	<	<	3	3	2787	<	113	2	132	25	37	66	2	0.03	7.0%	0.04	0.92	0.02	6.40	1.24	<
5MRC #1	P	<	16	41	35	<	<	4	4	<	<	1.8	13	8	2273	<	92	62	264	27	488	119	7	0.25	11%	0.28	0.60	0.12	2.08	0.28	0.12
Min Limit		0.1	1	2	1	5	5	3	1	2	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0 01	0.01	0 01	0.01	0.01	0 01	0.01
Max Reported*		99.9	20000	20000	20000	9999	999	9999	999	999	9999	999.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1 00	5.00	9.99	5.00	9 99	9.99	5.00	5.00
Method		ICPM	ICPM	ICPM	ICPM	ICPM	ICP	ICPM	ICP	ICP	ICPM	ICPM	ICPM	ICPM	ICPM	ICP	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

CERTIFICATE OF ANALYSIS
iPL 00I1284

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Client : Northern Analytical Laboratories
Project: W.O. 00140

7 Samples
7=Pulp

[128411:57:45:00100500]

Out: Oct 05, 2000
In : Sep 28, 2000

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
FG10S-3	P	0.1	16	22	45	<	<	<	2	<	<	0.7	7	13	150	<	17	32	223	24	11	4	3	0.03	1.03	0.11	1.74	0.30	0.04	0.02	0.01
FG10S-4	P	0.1	12	15	41	<	<	<	1	<	<	0.7	6	9	123	<	14	30	207	33	9	5	2	0.03	0.94	0.10	1.61	0.26	0.04	0.02	0.01
FG10S-5	P	<	15	15	49	<	<	<	1	<	<	0.7	7	10	148	<	15	32	255	50	12	8	3	0.04	0.96	0.13	1.74	0.28	0.04	0.02	0.01
FG10S-6	P	<	14	17	45	<	<	<	2	<	<	0.7	6	13	129	<	14	29	223	48	11	8	3	0.04	1.02	0.11	1.63	0.28	0.05	0.02	0.01
FG10S-7	P	0.5	27	26	77	<	<	<	2	<	<	1.4	8	24	263	<	19	38	349	44	44	3	3	0.04	1.16	0.66	2.43	0.54	0.16	0.03	0.12
FG10S-8	P	0.1	12	23	44	<	<	<	1	<	<	0.6	6	11	116	<	13	27	188	38	13	5	3	0.04	1.09	0.12	1.66	0.35	0.07	0.02	0.01
FG10S-9	P	<	10	31	37	<	<	<	2	<	<	0.5	5	8	84	<	9	21	169	25	15	2	2	0.03	0.91	0.12	1.41	0.30	0.09	0.02	0.01
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	999	9999	999	999	9999	99.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	9 99	9.99	9.99	9 99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

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13/09/2000 Certificate of Analysis Page 1

Al Rudis

WO# 00135

Certified by

	Sample #	Au ppb	Au 30g ppb	Pt 30g ppb	Pd 30g ppb
r	BAL-0201	9			
r	BAL-0203		9	<15	<5
r	KIR-1	9			
r	KIR-3	11			
r	KIR-5	11			
r	KIR-103	12			
r	KIR-104	10			
r	SPA-034		11	<15	<5
r	B-0202	26			
r	KIR-2	10			
r	KIR-4	12			
r	KIR-035	15			
r	KIR-102	9			
r	KIR-0105	11			
r	KIR-0105 FLOAT	12			
r	KIR-0106	11			
r	KIR-0107	11			
r	KIR-201	11			
r	RFB-60	14			
r	SPA-033	11			
	-8 +80 MESH				
ss	SKIR-102	10			
ss	SKIR-103	16			
ss	S-041	12			
ss	SSPA-033	11			
	-80 +200 MESH				
ss	SKIR-036	15			
ss	SKIR-037	11			
ss	SKIR-038	15			
ss	SKIR-039	12			

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Al Rudis WO# 00135

Certified by

	Sample #	Au ppb	Au 30g ppb	Pt 30g ppb	Pd 30g ppb
ss	SKIR-101	16			
ss	SKIR-102	12			
ss	SKIR-103	14			
ss	SKIR-105	14			
ss	S-041	9			
ss	SSPA-031	15			
ss	SSPA-032	12			
ss	SSPA-033	12			
ss	SSPA-034	12			
ss	SSPA-035	14			
ss	??? (NO ID) -200 MESH	16			
ss	SKIR-036	12			
ss	SKIR-037	13			
ss	SKIR-038	14			
ss	SKIR-039	20			
ss	SKIR-101	20			
ss	SKIR-102	28			
ss	SKIR-103	16			
ss	SKIR-105	29			
ss	S-041	13			
ss	SSPA-031	14			
ss	SSPA-032	51			
ss	SSPA-033	15			
ss	SSPA-034	17			
ss	SSPA-035	15			
ss	??? (NO ID)	19			

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CERTIFICATE OF ANALYSIS
iPL 00I1206

Client : Northern Analytical Laboratories
Project: W.O. 00135

9 Samples
9=Pulp

[120611:54:16:00092500]

Out: Sep 25, 2000
In : Sep 18, 2000

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
BAL0201	P	<	11	<	12	<	<	<	2	<	<	0.3	4	2	404	<	55	7	72	<	7	<	1	0.02	0.29	0.07	0.68	0.12	0.09	0.04	0.01
BAL0203	P	<	60	7	42	<	<	<	3	<	<	1.3	27	7	152	<	26	99	278	<	61	2	7	0.09	1.61	2.38	3.20	1.33	0.27	0.21	0.52
KIR-1	P	0.2	115	10	20	<	<	<	1	<	<	1.2	10	18	76	<	25	22	405	7	154	5	1	0.01	1.06	2.43	1.83	0.27	0.06	0.01	0.06
KIR-3	P	<	12	5	93	<	<	<	1	<	<	0.9	5	13	127	<	77	5	734	31	8	3	1	0.01	0.21	0.13	1.79	0.18	0.12	0.03	0.01
KIR-5	P	<	27	<	87	<	<	<	1	<	<	0.8	7	25	59	<	97	11	1074	11	21	1	2	<	0.05	0.46	1.86	0.23	0.02	0.03	0.02
KIR-103	P	0.1	19	22	282	<	26	<	6	<	<	4.5	9	94	12	<	120	133	262	8	58	7	5	<	0.15	1.12	3.05	0.20	0.03	0.03	0.29
KIR-104	P	<	3	4	5	<	<	<	1	<	<	0.4	<	3	49	<	114	<	23	<	1	<	<	<	0.01	0.01	0.16	<	<	0.02	<
SPA034	P	<	34	8	53	<	<	<	2	<	<	1.5	32	10	359	<	24	162	312	2	30	2	10	0.18	1.75	1.40	3.57	1.67	0.46	0.19	0.03
NAL CHECK	P	36.0	39	3984	75	330	<	<	13	<	<	3.4	32	63	222	135	276	859	802	9	8	10	1	0.05	0.15	0.23	22%	0.05	0.02	0.02	0.09
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0 01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	999	9999	999	999	9999	99.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	9.99	9.99	9.99	9.99	9.99	5.00	5.00
		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

* Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

CERTIFICATE OF ANALYSIS
iPL 00I1207

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Client : Northern Analytical Laboratories
Project: W.O. 00135

30 Samples
30=Pulp

[120715:27:49:00092600]

Out: Sep 26, 2000
In : Sep 18, 2000

Sample Name			Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
SKIR-036	-80+200	P	0.5	26	33	72	<	<	<	3	<	<	<	25	53	986	<	138	99	799	29	196	41	13	0.28	7.4%	1.96	3.26	1.75	1.54	1.50	0.06
SKIR-037	-80+200	P	<	24	33	96	<	<	<	4	<	<	<	23	52	1041	<	145	113	885	22	248	27	18	0.27	7.4%	3.21	3.56	2.12	1.22	2.11	0.08
SKIR-038	-80+200	P	2.0	24	32	81	<	<	<	2	<	<	1.3	24	21	682	<	54	88	955	22	167	35	12	0.23	6.8%	2.00	3.00	1.05	1.24	1.43	0.05
SKIR-039	-80+200	P	0.1	31	29	80	<	<	<	3	<	<	<	22	30	775	<	53	97	1428	33	225	40	15	0.28	7.4%	2.66	3.41	1.11	1.27	1.87	0.07
SKIR-101	-80+200	P	<	39	27	100	<	<	<	4	<	<	<	24	40	1221	<	83	117	938	37	227	41	14	0.30	6.6%	2.56	3.42	1.34	1.31	1.38	0.07
SKIR-102	-80+200	P	<	31	31	99	<	<	<	3	<	<	<	22	44	1818	<	90	130	771	21	221	27	12	0.34	6.1%	2.25	3.16	0.99	1.40	1.15	0.11
SKIR-103	-80+200	P	<	25	30	68	<	<	<	3	<	<	<	20	37	1216	<	65	117	1127	20	288	54	12	0.31	6.5%	2.35	2.90	1.13	1.35	1.74	0.07
SKIR-105	-80+200	P	0.2	41	23	82	<	<	<	4	<	<	<	31	34	483	<	86	218	1091	16	300	27	30	0.40	8.3%	5.06	5.1%	2.10	0.83	2.46	0.08
S041	-80+200	P	0.1	41	33	103	<	<	<	6	<	<	<	22	42	896	<	79	112	704	33	236	31	15	0.32	7.4%	2.66	3.38	1.25	1.51	1.69	0.09
SSPA-031	-80+200	P	0.3	47	29	97	<	<	<	3	<	<	<	34	69	1031	<	175	128	925	27	255	34	18	0.34	6.8%	3.33	3.93	2.35	1.08	1.52	0.11
SSPA-032	-80+200	P	0.6	42	34	96	<	<	<	5	<	<	<	28	37	959	<	82	148	1025	23	327	37	20	0.39	7.6%	3.17	4.16	1.91	1.28	1.94	0.09
SSPA-033	-80+200	P	0.1	30	28	80	<	<	<	3	<	<	<	25	28	608	<	63	160	1009	17	300	31	22	0.42	7.4%	3.69	4.31	1.69	1.07	1.99	0.10
SSPA-034	-80+200	P	<	25	28	86	<	<	<	5	<	<	<	25	17	822	<	45	147	991	24	272	37	21	0.36	7.8%	3.31	4.21	1.49	1.40	2.06	0.10
SSPA-035	-80+200	P	0.2	36	37	123	<	<	<	5	<	<	<	26	24	969	<	49	154	852	17	231	45	14	0.38	8.1%	1.61	4.39	1.86	1.75	1.91	0.05
?	-80+200	P	0.5	68	28	178	193	<	<	6	<	<	<	32	86	1393	<	120	190	1158	29	173	28	14	0.42	6.1%	2.42	4.19	1.25	1.69	0.90	0.11
SKIR-036	-200	P	0.4	24	29	63	<	<	<	4	<	<	<	23	39	906	<	112	105	704	30	266	61	14	0.36	7.4%	2.22	2.80	1.40	1.47	1.80	0.06
SKIR-037	-200	P	0.3	30	31	85	<	<	<	4	<	<	<	26	42	996	<	133	135	918	37	327	51	21	0.44	7.6%	3.68	3.60	1.69	1.25	2.17	0.13
SKIR-038	-200	P	<	32	28	73	<	<	<	3	<	<	<	24	24	754	<	60	102	867	26	238	55	13	0.33	7.0%	2.21	2.81	1.03	1.32	1.76	0.06
SKIR-039	-200	P	3.5	34	27	79	<	<	<	4	<	<	<	24	27	780	5	62	103	1621	41	270	65	15	0.36	7.0%	2.70	3.02	1.09	1.21	1.80	0.07
SKIR-101	-200	P	0.2	31	25	84	<	<	<	4	<	<	<	22	35	885	<	72	109	755	34	290	60	14	0.35	6.8%	2.73	2.82	1.14	1.21	1.85	0.07
SKIR-102	-200	P	0.2	28	31	86	<	<	<	3	<	<	<	24	39	1394	<	95	139	973	31	325	60	16	0.47	7.0%	3.23	3.20	1.15	1.38	1.66	0.12
SKIR-103	-200	P	0.2	22	26	70	<	<	<	3	<	<	<	24	29	949	<	81	137	1166	26	318	76	15	0.44	7.0%	2.96	3.36	1.31	1.26	2.03	0.08
SKIR-105	-200	P	0.1	45	20	72	<	<	<	4	<	<	<	28	32	665	<	84	172	857	21	319	52	23	0.47	7.3%	3.95	4.06	1.64	1.06	2.15	0.08
So41	-200	P	11.4	48	28	90	<	<	<	4	<	<	<	20	36	807	<	71	104	593	38	278	49	14	0.35	6.8%	2.63	2.81	1.09	1.32	1.73	0.08
SSPA-031	-200	P	0.5	45	30	87	<	<	<	3	<	<	<	28	45	961	<	117	117	821	27	257	46	15	0.36	6.5%	2.77	3.22	1.54	1.08	1.54	0.11
SSPA-032	-200	P	0.5	34	28	75	<	<	<	4	<	<	<	23	27	828	<	76	126	756	25	339	55	17	0.44	7.0%	2.95	3.14	1.36	1.22	1.96	0.08
SSPA-033	-200	P	<	25	23	64	<	<	<	4	<	<	<	22	22	724	<	66	125	701	22	299	55	16	0.44	6.9%	2.86	3.11	1.26	1.17	1.92	0.08
SSPA-034	-200	P	0.1	23	27	69	<	<	<	3	<	<	<	21	21	819	<	58	115	693	26	282	64	15	0.39	7.0%	2.53	3.01	1.12	1.27	1.93	0.06
SSPA-035	-200	P	0.4	31	40	96	<	<	<	3	<	<	<	23	22	890	<	57	138	670	18	254	58	14	0.38	7.7%	1.75	3.76	1.43	1.52	1.92	0.05
?	-200	P	1.0	67	33	168	194	<	<	6	<	<	<	32	70	1264	<	118	192	1166	37	259	45	16	0.52	6.8%	3.95	4.00	1.16	1.60	1.22	0.17
Min Limit			0.1	1	2	1	5	5	3	1	2	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0 01	0.01	0.01
Max Reported*			99.9	20000	20000	20000	9999	999	9999	999	999	9999	999.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	5.00	9.99	5.00	9.99	9.99	5 00	5.00
Method			ICPM	ICPM	ICPM	ICPM	ICPM	ICP	ICPM	ICP	ICP	ICPM	ICPM	ICPM	ICPM	ICPM	ICP	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM

—=N. Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

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04/10/2000 Certificate of Analysis Page 1

Al Rudis WO# 00138

Certified by

	Sample #	Au ppb
	-80 +200 Mesh	
s	BG1S	11
s	EN-1	9
s	EN-2	17
s	FR-1A	14
s	FR-1B	14
s	FR-2	13
s	FR-3	13
s	FR-4	26
s	FR-5	26
s	JIM-1	15
s	JIM-1A	17
s	JIM-2	12
s	JIM-3	14
s	R186#15	14
s	51N-130E	11
s	53N-120E	24
s	517N-100E	12
s	YK9-SILT	13
	-200 Mesh	
s	BG1S	7
s	EN-1	10
s	EN-2	12
s	FR-1A	9
s	FR-1B	10
s	FR-2	8
s	FR-3	8
s	FR-4	35
s	FR-5	75
s	JIM-1	10

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Al Rudis

WO# 00138

Certified by

	Sample #	Au ppb
s	JIM-1A	9
s	JIM-2	<5
s	JIM-3	5
s	R186#15	8
s	51N-130E	6
s	53N-120E	8
s	517N-100E	6
s	YK9-SILT	12
r	EN-1R	<5
r	FR-ROCK-1	<5
r	FR-ROCK-2	<5
r	GRAP-1	<5
r	JIM-PORPHRY	9
r	JIM-ROCK-1	5
r	JIM-ROCK-2	5
r	JIM-ROCK-3	6
r	JIM-ROCK-4A	5
r	JIM-ROCK-4B	6
r	JIM-ROCK-4C	32
r	JIM-ROCK-5	7
r	JIM-ROCK-6	26
r	JIM-ROCK-7 2002	7
r	JIM-ROCK-7 2000	8
r	JIM-ROCK-8	6
r	JIM-ROCK-9	6
r	JIM-ROCK-102	8
r	POST-2-BER-18	24
r	POST-2-BER-18 RIVER	5
r	R186-1	8
r	R186-2	10

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Al Rudis

WO# 00138

Certified by

	Sample #	Au ppb
r	R186-3/4	10
r	R186-3	10
r	R186-4	9
r	R186-5	10
r	R186-6	8
r	R186-7	10
r	R186-8	10
r	R186-9	20
r	R186-10	11
r	R186-12	15
r	R186-13	14
r	R186-16	14
r	SAMP-10	8
r	YK-1	17
r	YK-2	11
r	YK-3	10
r	YK-4	11
r	YK-5	10
r	YK-6	7
r	YK-8	14
r	50M-1R	8
r	50M-3R	7
r	60M-1	9
r	00-W80	9
r	1N 110W A	6
r	1N 110W	9
r	1N 180W	8
r	14N 80W	8
r	14N 80W A	7
r	18N 140E	9

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Al Rudis

WO# 00138

Certified by

	Sample #	Au ppb
r	25N 140E	12
r	34N 00	9
r	34N 140M0	7
r	34N 140M1A	9
r	34N 140M1B	8
r	34N 140M1C	7
r	53N 120E	8
r	57 END W40B	9
r	57 END W40M	9

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CERTIFICATE OF ANALYSIS
iPL 00I1281

Client : Northern Analytical Laboratories
Project: W.O. 00138

18 Samples
18=Pulp

[128114:23:18:00100600]

Out: Oct 06, 2000
In : Sep 28, 2000

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
FR-2 ROCK	P	<	8	8	7	<	<	<	2	<	<	0.2	2	6	1149	<	103	2	65	8	16	3	<	<	0.07	0.01	0.33	0.01	0.03	0.01	<
GRAP-1	P	<	15	7	32	<	<	<	8	<	<	<	3	6	992	<	164	834	125	11	28	59	5	0.12	3.26	0.02	0.54	0.35	1.50	0.10	0.02
JIM ROCK-1	P	<	48	5	20	<	<	<	<	<	<	0.2	2	7	329	<	225	11	332	<	8	2	1	0.01	0.36	0.01	0.55	0.02	0.14	0.01	0.01
14N-80WA	P	<	4	19	20	<	<	<	3	<	<	<	5	6	1100	<	73	16	57	13	97	15	2	0.09	9.3%	0.48	0.86	0.27	3.37	1.55	0.11
34N-140M 1A	P	<	29	27	100	<	<	<	5	<	<	<	19	19	672	<	150	90	821	20	103	16	15	0.24	8.0%	2.48	4.12	1.73	1.61	1.65	0.05
34N-140 MD	P	<	17	23	36	<	<	<	4	<	<	<	14	22	815	<	194	43	258	24	89	10	8	0.19	5.5%	0.57	2.05	0.72	1.79	1.19	0.02
POST 2 BER 18	P	<	13	22	150	<	<	<	5	<	<	<	60	21	532	<	34	479	946	<	151	33	45	0.51	7.7%	9.26	11%	6.51	1.26	1.37	0.39
POST 2 BER 18 RIVER	P	<	10	17	11	<	<	<	2	<	<	<	6	4	1629	<	98	29	72	5	811	14	2	0.06	8.7%	1.32	0.71	0.24	2.07	3.87	0.01
S7 END W4DB	P	<	4	11	19	<	<	<	3	<	<	<	4	4	1698	<	85	10	278	34	139	31	4	0.10	7.7%	1.05	1.43	0.27	2.11	2.74	0.01
SAMPLE 10	P	<	5	39	41	<	<	<	3	<	<	<	4	2	1748	7	89	3	108	13	32	58	2	0.06	7.3%	0.06	0.84	0.06	6.00	1.61	<
R186- 1	P	0.1	10	10	21	<	<	<	4	<	<	0.4	3	4	1988	<	201	297	38	5	39	27	3	0.04	1.30	0.08	0.45	0.08	0.52	0.05	0.06
R186- 4	P	<	34	8	14	<	<	<	1	<	<	0.4	2	6	221	<	206	8	40	<	8	3	1	0.01	0.37	0.01	0.44	0.02	0.11	0.02	0.01
R186- 6	P	<	15	34	77	<	<	<	4	<	<	<	19	12	4209	<	145	83	364	18	153	25	12	0.33	6.4%	0.43	3.70	1.01	4.07	0.60	0.03
R186- 7	P	<	8	26	110	<	<	<	4	<	<	<	23	10	1670	<	100	128	746	36	288	38	17	0.47	9.3%	3.26	4.90	1.62	2.53	1.71	0.20
R186- 8	P	<	10	11	10	<	<	<	4	<	<	0.8	3	3	2285	<	161	242	93	9	26	42	4	0.05	1.62	0.02	0.67	0.11	0.76	0.11	0.06
R186-12	P	<	14	27	36	<	<	<	8	<	<	<	6	5	4017	<	138	32	72	39	244	55	9	0.12	6.7%	0.12	1.36	0.27	2.72	0.98	0.01
R186-16	P	<	20	15	50	<	<	<	1	<	<	<	12	20	1409	<	174	70	124	13	37	23	7	0.17	3.72	0.17	2.47	0.61	1.41	0.50	0.02
00W8016	P	<	44	11	65	<	5	<	4	<	<	1.7	50	214	230	<	1134	143	1610	4	147	11	39	0.16	3.42	10%	6.2%	11%	0.27	0.56	0.04
Min Limit		0.1	1	2	1	5	5	3	1	2	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	999	9999	999	999	9999	999.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	5.00	9.99	5.00	9.99	9.99	5.00	5.00
Method		ICPM	ICPM	ICPM	ICPM	ICPM	ICP	ICPM	ICP	ICP	ICPM	ICPM	ICPM	ICPM	ICPM	ICP	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

CERTIFICATE OF ANALYSIS
iPL 00I1282

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Client : Northern Analytical Laboratories
Project: W.O. 00138

18 Samples
18=Pulp

[128211:57:56:00100500]

Out: Oct 05, 2000
In : Sep 28, 2000

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
BG 1S	P	0.3	47	40	96	<	<	<	3	<	<	1.6	17	29	337	<	38	71	567	22	60	2	4	0.08	1.83	0.85	3.02	0.84	0.12	0.04	0.12
EN-1	P	<	11	14	36	<	<	<	2	<	<	0.4	7	27	157	<	36	28	236	28	28	2	2	0.04	0.97	0.51	1.32	0.47	0.08	0.02	0.04
EN-2	P	<	13	16	75	<	<	<	2	<	<	0.7	10	11	273	<	15	31	763	27	32	1	2	0.05	1.08	0.43	1.55	0.37	0.07	0.03	0.05
FR-1A	P	0.1	14	22	58	<	<	<	1	<	<	0.8	9	12	398	<	15	33	230	25	35	2	2	0.06	0.97	0.46	1.73	0.37	0.08	0.03	0.06
FR-1B	P	<	20	26	52	<	<	<	1	<	<	0.6	9	15	543	<	22	44	260	24	28	4	4	0.07	1.64	0.35	2.12	0.42	0.15	0.03	0.03
FR-2	P	0.1	18	16	48	<	<	<	2	<	<	0.9	9	14	613	<	17	36	603	46	35	2	4	0.04	1.44	0.53	1.90	0.35	0.10	0.03	0.04
FR-3	P	<	15	19	67	<	<	<	2	<	<	0.9	9	13	351	<	17	35	412	26	39	2	2	0.06	1.15	0.49	1.75	0.43	0.09	0.03	0.06
FR-4	P	<	18	19	49	<	<	<	1	<	<	0.7	9	14	274	<	17	35	411	21	29	2	2	0.06	1.02	0.45	1.61	0.41	0.07	0.03	0.06
FR-5	P	<	19	19	44	<	<	<	1	<	<	0.6	7	8	375	<	14	32	280	32	20	1	3	0.04	0.94	0.29	1.43	0.29	0.06	0.03	0.05
JIM 1	P	<	23	15	63	<	<	<	1	<	<	0.5	10	18	307	<	24	46	265	19	41	3	4	0.07	1.50	0.60	2.07	0.51	0.07	0.04	0.07
JIM 1A	P	<	22	13	63	<	<	<	2	<	<	0.9	10	19	246	<	23	44	477	20	42	3	3	0.07	1.22	0.68	1.90	0.49	0.09	0.04	0.08
JIM 2	P	<	10	9	51	<	<	<	1	<	<	0.6	8	15	214	<	17	37	184	14	37	3	3	0.07	1.02	0.59	1.61	0.42	0.06	0.04	0.09
JIM 3	P	<	11	9	51	<	<	<	1	<	<	0.5	9	19	275	<	23	44	270	21	38	2	3	0.08	1.10	0.66	1.72	0.46	0.08	0.04	0.09
53N-120E	P	0.1	37	16	64	<	<	<	1	<	<	0.8	11	29	331	<	34	47	340	24	55	3	4	0.07	1.78	1.20	2.31	0.67	0.10	0.04	0.07
R186-15	P	<	25	18	215	<	<	<	1	<	<	1.2	26	87	436	<	37	51	965	17	43	2	4	0.10	1.44	0.70	2.04	0.64	0.21	0.04	0.08
S1N-130E	P	<	28	19	57	<	<	<	2	<	<	0.9	14	26	182	<	27	51	277	25	25	4	3	0.06	1.77	0.38	2.92	0.48	0.12	0.03	0.02
S17N-100E	P	<	31	18	76	<	<	<	3	<	<	1.6	20	33	210	<	44	75	570	21	29	2	5	0.10	2.16	0.66	3.97	0.92	0.12	0.03	0.07
YU9-SILT	P	<	12	10	70	<	<	<	1	<	<	0.7	10	19	210	<	21	39	397	16	29	2	3	0.07	1.08	0.57	1.66	0.43	0.09	0.03	0.09
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0 01	0.01
Max Reported*		99.9	20000	20000	20000	9999	999	9999	999	999	9999	99 9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	9.99	9.99	9.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

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To RUDIS, ALBERT **

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DAWSON CITY, YT
Y0B 1G0

Project
Comments ATTN ALBERT RUDIS

Page Number 1-A
Total Pages 1
Certificate Date 22-JAN-01
Invoice No I0110717
P O Number
Account SRD

CERTIFICATE OF ANALYSIS A0110717

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
FGR18S1	205	226	15	< 0.2	0.55	2	< 10	120	< 0.5	< 2	0.37	< 0.5	4	67	19	1.00	< 10	< 1	0.06	< 10	0.29
FGR18S2	205	226	5	< 0.2	0.28	2	< 10	100	< 0.5	< 2	0.05	< 0.5	1	75	6	0.56	< 10	< 1	0.10	< 10	0.04
FGR18S3	205	226	< 5	< 0.2	0.60	6	< 10	100	< 0.5	< 2	< 0.01	< 0.5	< 1	63	1	0.56	< 10	< 1	0.37	< 10	0.15
FGR18S4	205	226	15	0.2	0.12	< 2	< 10	10	< 0.5	< 2	0.01	< 0.5	< 1	86	4	0.28	< 10	< 1	0.02	< 10	0.01
FGR19S1	205	226	< 5	< 0.2	0.54	< 2	< 10	200	< 0.5	< 2	0.15	< 0.5	< 1	73	3	0.51	< 10	< 1	0.17	30	0.20
FGR19S3	205	226	< 5	< 0.2	0.64	< 2	< 10	130	< 0.5	6	0.16	< 0.5	3	110	31	1.20	< 10	< 1	0.26	< 10	0.35
FGR23S1	205	226	5	0.2	0.19	< 2	< 10	200	< 0.5	< 2	0.04	< 0.5	< 1	102	4	0.44	< 10	< 1	0.15	< 10	0.03
FGR23S2	205	226	< 5	0.2	0.31	< 2	< 10	140	< 0.5	< 2	0.09	< 0.5	1	90	3	0.67	< 10	< 1	0.23	< 10	0.09
FGR23S3	205	226	< 5	< 0.2	0.72	< 2	< 10	120	< 0.5	< 2	0.08	< 0.5	1	68	4	1.12	< 10	< 1	0.46	10	0.27
FGR23S5	205	226	< 5	< 0.2	0.11	< 2	< 10	30	< 0.5	6	0.05	< 0.5	1	133	1	0.57	< 10	< 1	0.05	< 10	0.03
CARS2	205	226	25	< 0.2	0.18	4	< 10	350	< 0.5	< 2	0.02	< 0.5	< 1	101	1	0.28	< 10	< 1	0.14	10	0.02
ENR102	205	226	5	< 0.2	1.63	2	10	120	< 0.5	8	1.01	< 0.5	17	111	24	2.94	< 10	1	0.47	10	2.39

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01/22/00 2:22PM CHEMEX LABS Alpha-FAX2 PAGE 002

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Page Number 1-B
Total Pages 1
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SAMPLE	PREP CODE		Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
FGR18S1	205	226	315	< 1	0.08	4	280	2	0.03	6	1	9	0.01	< 10	< 10	11	< 10	20
FGR18S2	205	226	65	1	0.07	3	120	8	< 0.01	< 2	1	4	< 0.01	< 10	< 10	3	< 10	8
FGR18S3	205	226	45	< 1	< 0.01	1	10	6	< 0.01	2	< 1	4	< 0.01	< 10	< 10	1	< 10	20
FGR18S4	205	226	30	< 1	0.05	2	< 10	8	< 0.01	2	< 1	1	< 0.01	< 10	< 10	< 1	< 10	2
FGR19S1	205	226	155	1	0.04	3	60	14	< 0.01	< 2	1	20	< 0.01	< 10	< 10	1	< 10	16
FGR19S3	205	226	130	1	0.04	4	220	< 2	0.04	2	< 1	18	0.06	< 10	< 10	10	< 10	18
FGR23S1	205	226	110	1	0.03	3	140	28	0.01	2	< 1	8	< 0.01	< 10	< 10	1	< 10	6
FGR23S2	205	226	225	2	0.03	3	270	76	< 0.01	< 2	< 1	10	0.01	< 10	< 10	1	< 10	20
FGR23S3	205	226	230	1	0.05	2	150	14	< 0.01	< 2	1	6	0.05	< 10	< 10	3	< 10	36
FGR23S5	205	226	80	9	< 0.01	5	200	2	< 0.01	2	< 1	1	< 0.01	< 10	< 10	3	< 10	10
CARS2	205	226	15	1	0.02	3	10	4	0.01	2	< 1	7	< 0.01	< 10	< 10	1	< 10	2
ENR102	205	226	335	5	0.22	150	1150	2	< 0.01	8	3	105	0.13	< 10	< 10	120	< 10	40

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Page Number 1-A
Total Pages 1
Certificate Date 22-JAN-01
Invoice No 10110718
P O Number
Account SRD

CERTIFICATE OF ANALYSIS A0110718

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
FGS18S1 A/B	254	202	10	< 0.2	1.19	6	< 10	160	< 0.5	< 2	0.11	< 0.5	3	14	6	1.89	< 10	< 1	0.06	< 10	0.24
FGS18S2 A/B	254	202	5	< 0.2	2.29	10	< 10	170	< 0.5	< 2	0.08	< 0.5	6	25	12	3.01	< 10	< 1	0.06	< 10	0.33
FGS18S4 A/B	254	202	< 5	< 0.2	2.31	8	< 10	180	< 0.5	< 2	0.10	< 0.5	6	26	11	3.31	< 10	< 1	0.05	10	0.41
FGS19S1 A/B	254	202	5	< 0.2	2.27	10	< 10	270	< 0.5	< 2	0.14	< 0.5	9	34	16	3.06	< 10	< 1	0.05	< 10	0.55
FGS19S4 A/B	254	202	5	< 0.2	2.40	10	< 10	300	< 0.5	< 2	0.16	< 0.5	10	30	18	3.41	10	< 1	0.18	10	0.64
FGS19S5 A/B	254	202	5	< 0.2	2.33	6	< 10	270	< 0.5	< 2	0.14	< 0.5	11	51	15	3.73	< 10	< 1	0.29	< 10	0.96
FGS19S6 A/B	254	202	< 5	< 0.2	2.28	4	< 10	390	0.5	6	0.22	< 0.5	13	28	23	4.72	< 10	< 1	0.37	10	0.93
FGS23S4 A/B	254	202	< 5	< 0.2	1.33	2	< 10	160	< 0.5	< 2	0.19	< 0.5	6	24	11	2.18	< 10	< 1	0.25	10	0.61
BAS S1A A/B	254	202	30	< 0.2	1.22	8	< 10	460	< 0.5	< 2	0.56	< 0.5	8	22	16	2.11	< 10	< 1	0.09	30	0.48
CAS S1A A/B	254	202	10	< 0.2	1.16	4	< 10	410	< 0.5	< 2	0.54	0.5	7	19	20	1.96	< 10	< 1	0.09	40	0.46
KWS101 A/B	254	202	< 5	< 0.2	1.05	14	< 10	390	< 0.5	< 2	0.45	< 0.5	23	35	24	3.00	< 10	< 1	0.15	20	0.52
KWS103 A/B	254	202	not/ss	< 0.2	1.15	14	< 10	330	< 0.5	< 2	0.54	0.5	28	93	22	2.90	< 10	< 1	0.15	20	0.57

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SAMPLE	PREP CODE		Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
FGS18S1 A/B	254	202	115	1	0.01	6	340	8	0.01	2	< 1	13	0.05	< 10	< 10	59	< 10	18
FGS18S2 A/B	254	202	260	3	< 0.01	14	200	20	< 0.01	6	3	8	0.05	< 10	< 10	63	< 10	50
FGS18S4 A/B	254	202	205	2	0.01	15	220	14	0.01	6	3	12	0.06	< 10	< 10	61	< 10	50
FGS19S1 A/B	254	202	225	2	0.01	25	230	8	< 0.01	< 2	4	13	0.06	< 10	< 10	59	< 10	50
FGS19S4 A/B	254	202	375	4	0.01	15	450	10	< 0.01	6	5	12	0.08	< 10	< 10	72	< 10	54
FGS19S5 A/B	254	202	345	3	0.01	26	310	6	< 0.01	8	4	13	0.10	< 10	< 10	70	< 10	52
FGS19S6 A/B	254	202	485	3	< 0.01	14	700	4	< 0.01	8	10	12	0.07	< 10	< 10	90	< 10	62
FGS23S4 A/B	254	202	270	3	0.01	11	520	14	< 0.01	6	3	13	0.07	< 10	< 10	39	< 10	42
BAS S1A A/B	254	202	420	2	0.02	21	650	18	0.05	2	3	65	0.04	< 10	< 10	34	< 10	130
CAS S1A A/B	254	202	330	3	0.01	15	540	32	0.05	6	2	60	0.04	10	< 10	28	< 10	116
KNS101 A/B	254	202	1370	3	0.01	57	930	14	0.03	8	3	26	0.05	< 10	< 10	38	< 10	160
KNS103 A/B	254	202	1905	4	0.01	97	1020	16	0.03	6	3	31	0.05	< 10	< 10	39	< 10	218

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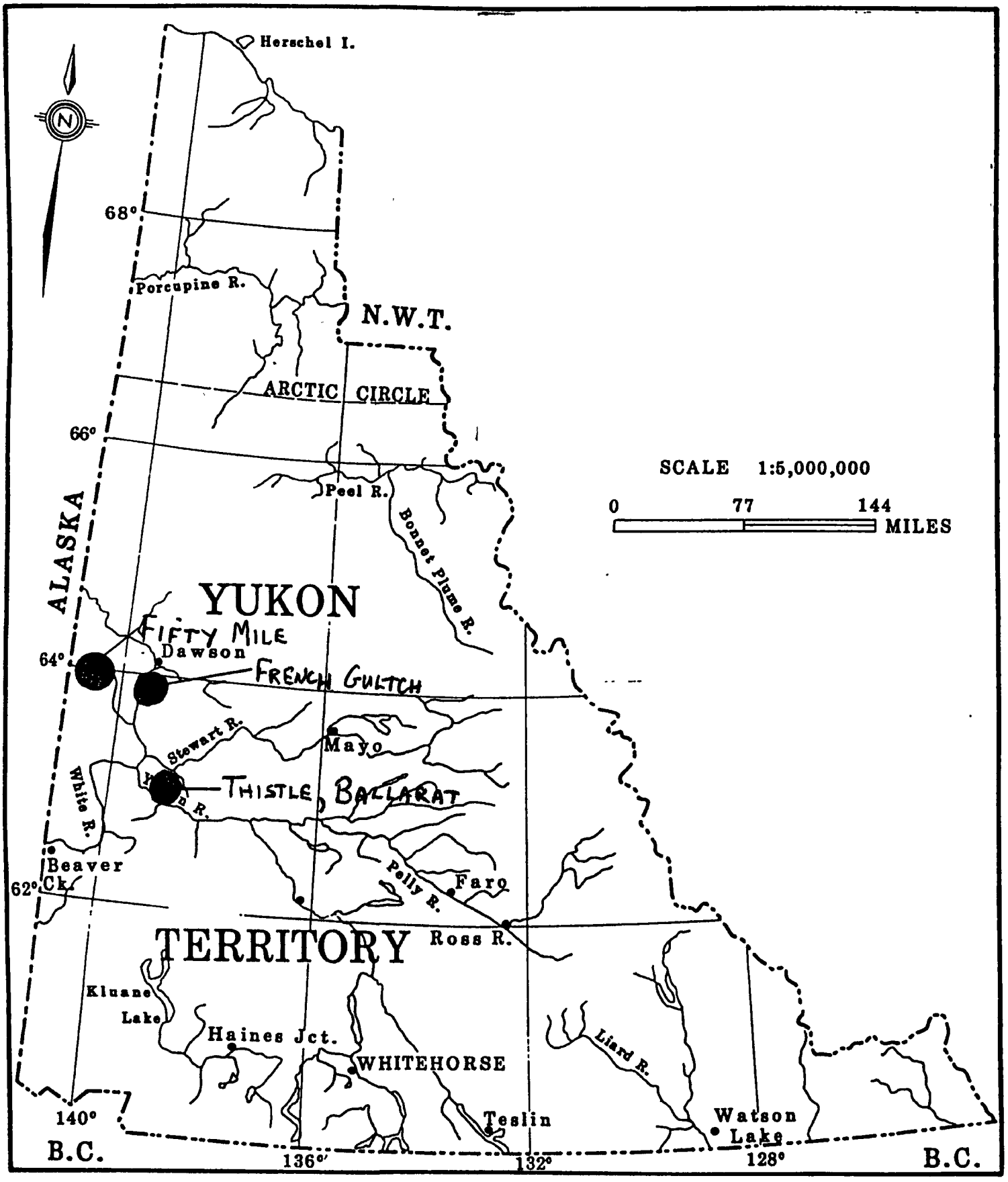
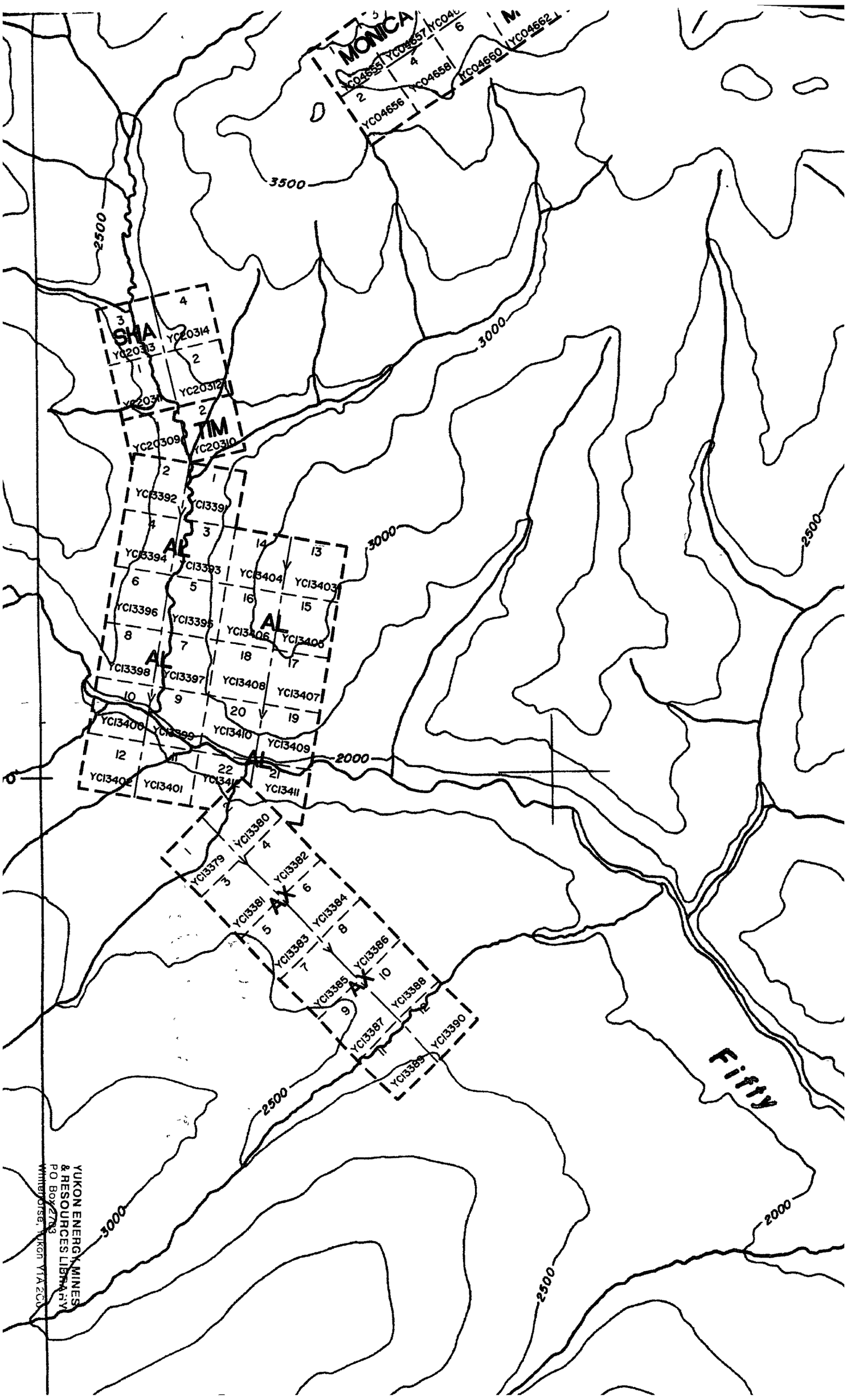
01/22/00 2:29PM CHEMEX LABS Alpha-FAX2 PAGE 003

APPENDIX 2

Figure 1. Location Map





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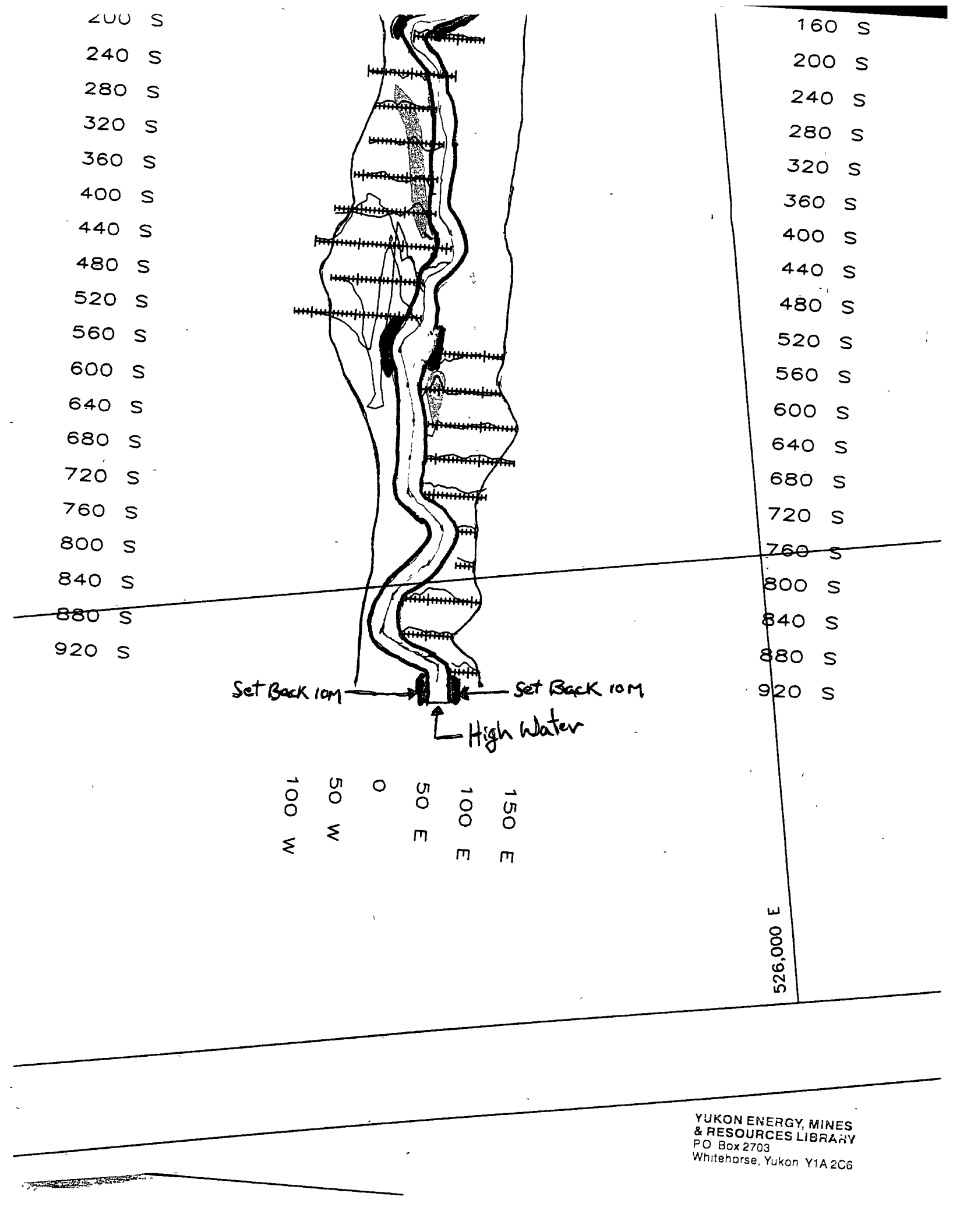
APPENDIX 4
50 MILE AREA



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50 W 0 50 E 100 E 150 E 200 E 250 E

Flat to Moderate Gradient

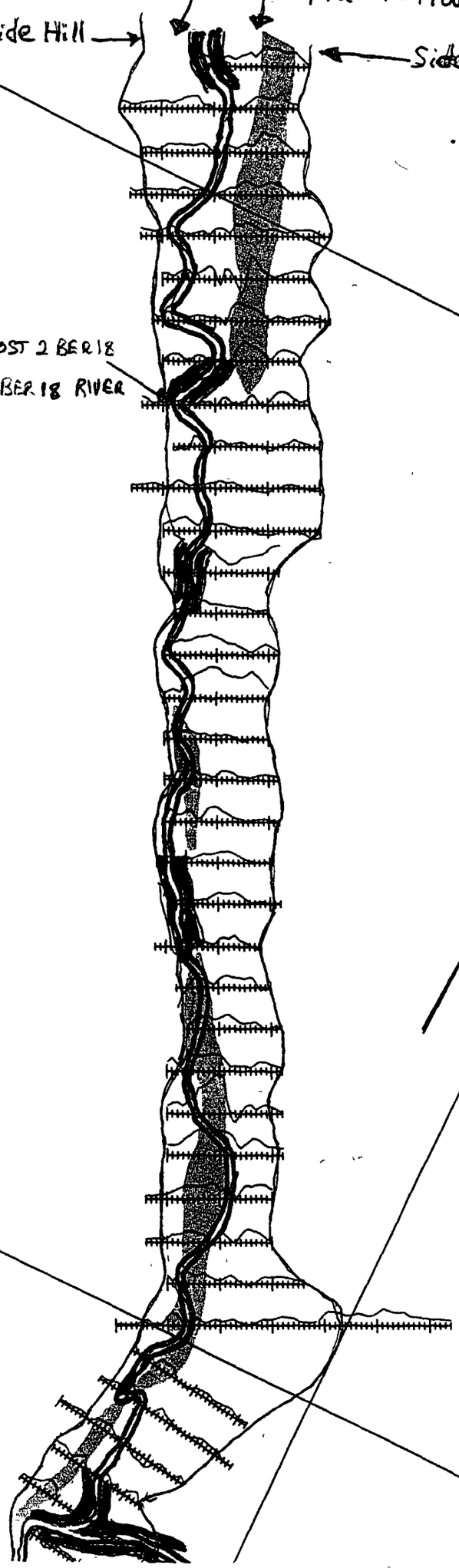
Side Hill

Side Hill

2400 N
2360 N
2320 N
2280 N
2240 N
2200 N
2160 N
2120 N
2080 N
2040 N
2000 N
1960 N
1920 N
1880 N
1840 N
1800 N
1760 N
1720 N
1680 N
1640 N
1600 N
1560 N
1520 N
1480 N
1440 N
1400 N
1360 N
1320 N
1280 N
1240 N
1200 N

POST 2 BER 18

POST 2 BER 18 RIVER



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220 N
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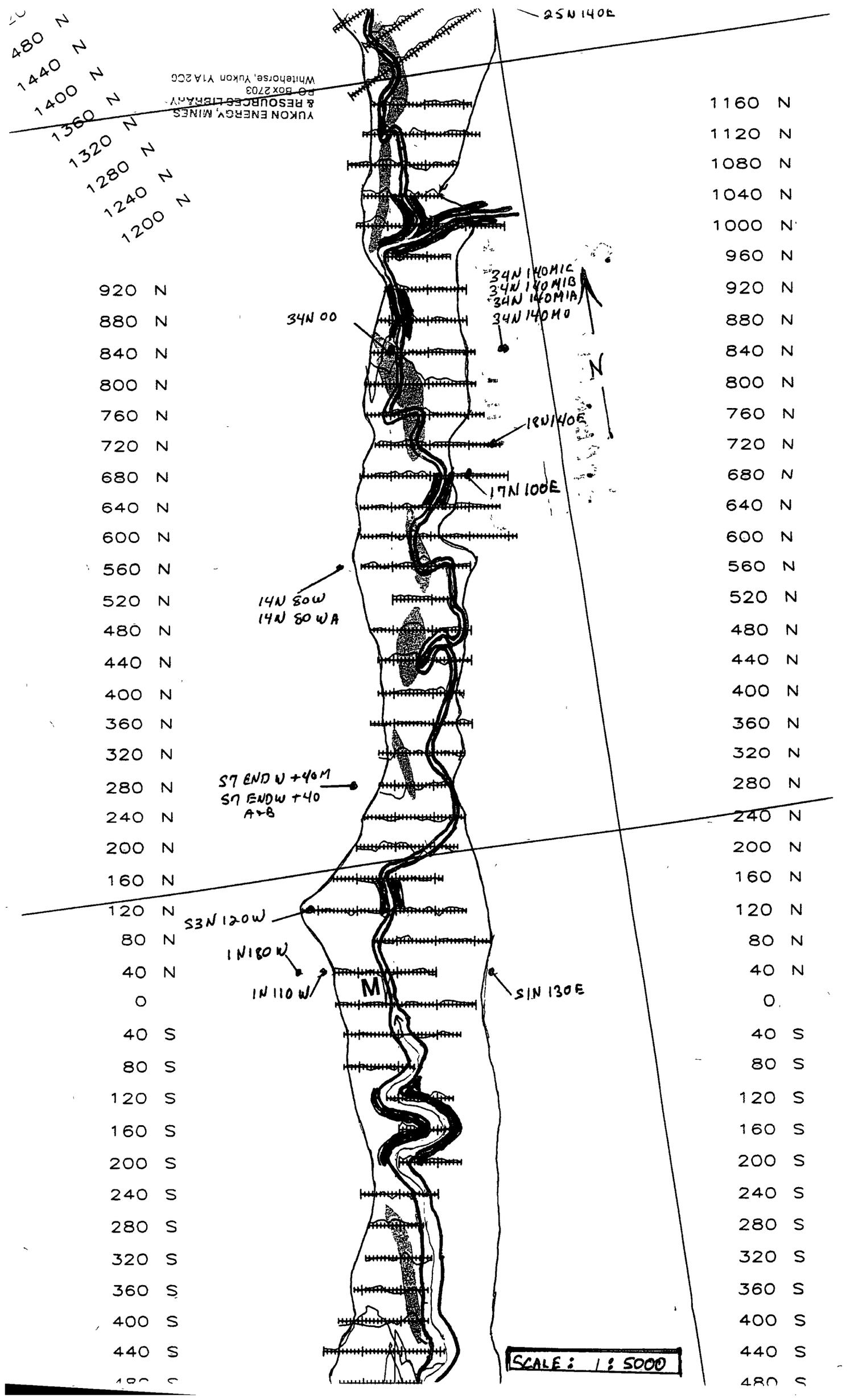
SCALE : 1:5000


480 N
1440 N
1400 N
1360 N
1320 N
1280 N
1240 N
1200 N
25N 140E
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1160 N
1120 N
1080 N
1040 N
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960 N
920 N
880 N
840 N
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760 N
720 N
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160 S
200 S
240 S
280 S
320 S
360 S
400 S
440 S
480 S
34N 140M1C
34N 140M1B
34N 140M1A
34N 140M0
34N 00
N
18N 140E
17N 100E
14N 80W
14N 80W A
S7 END W +40M
S7 END W +40
A+B
S3N 120W
1N 180W
1N 110W
M
S1N 130E
SCALE : 1 : 5000

APPENDIX 3

50 MILE AREA

RNER CREEK
UKON TERRITORY

SCALE 1:50 000 ÉCHELLE

1 2 3 Miles

1000 2000 3000 4000 Mètres

1000 2000 3000 4000 Verges

FEET
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27
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0° EAST
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ÉQUIDISTANCE DES COURBES 100 PIEDS
Élévations en pieds au-dessus du niveau moyen de la mer
Réseau géodésique nord-américain unifié (1927)
Projection transverse de Mercator

DÉCLINAISON MAGNÉTIQUE AU CENTRE
DE LA FEUILLE EN 1961 31°40' EST
Variation annuelle (decroissante) 3 5'

La nomenclature de la présente carte n'a pas été soumise à la Commission canadienne des noms géographiques et, par conséquent, elle pourrait faire l'objet d'une revision. Tous renseignements sur les noms seront bien accueillis par la Direction des levés et de la cartographie.

ERSION SCALE FOR ELEVATIONS

100 150 200 250 300 Metres

00 400 500 600 700 800 900 1000 Feet

Building	Bâtiment		Barn	Grange	
School	École		Post Office	Bureau de poste	P
Church	Église		Cemetery	Cimetière	C
Lighthouse		Phare			
River with bridge		Rivière avec pont			
Stream, intermittent or dry		Cours d'eau intermittent, ou à sec			
Lake intermittent, indefinite		Lac intermittent, rive imprécise			
Marsh or Swamp		Marais ou marécage			
Depression contours.		Courbes de cuvette			

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TN
1°07' or 20 Mils
30°33 or 543 Mils
Grid North
Magnetic North

Use diagram only to obtain numerical
APPROXIMATE MEAN DECLINATIO
FOR CENTRE OF MAP
Annual change decreasing 3 5

115 O/13
EDITION 1

CANADA

Refer to this map as.	115 O / 13 EDITION 1 ASE SERIES A 722

EDITION 1

CARTE PROVISOIRE

115 O/13

61 62 63 64 65 66 67 68 69 70 71 72 73

45′ 40′ 35′ 139°30′ 64°00′

97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79

55′ 50′

BRS SIA

CAS S2

CAS S1 A+B

YK1 R Rock

YK2 Rock

YK3 Rock

ENS 101 A+B

ENS 103 A+B

ENS 101

ENS 102

ENS 104 Rock

ENS 104 Silt

YK9 Silt

JIM CREEK Rock

JIM CREEK Silt

JIM #2 Silt

JIM #2 Rock

JIM #3 Rock

SOIL GRID

R136 #3

R136 #2

R136 #1

R136 #4

R136 #5

R136 #6

R136 #7

R136 #8

R136 #9

R136 #10

R136 #11

R136 #12

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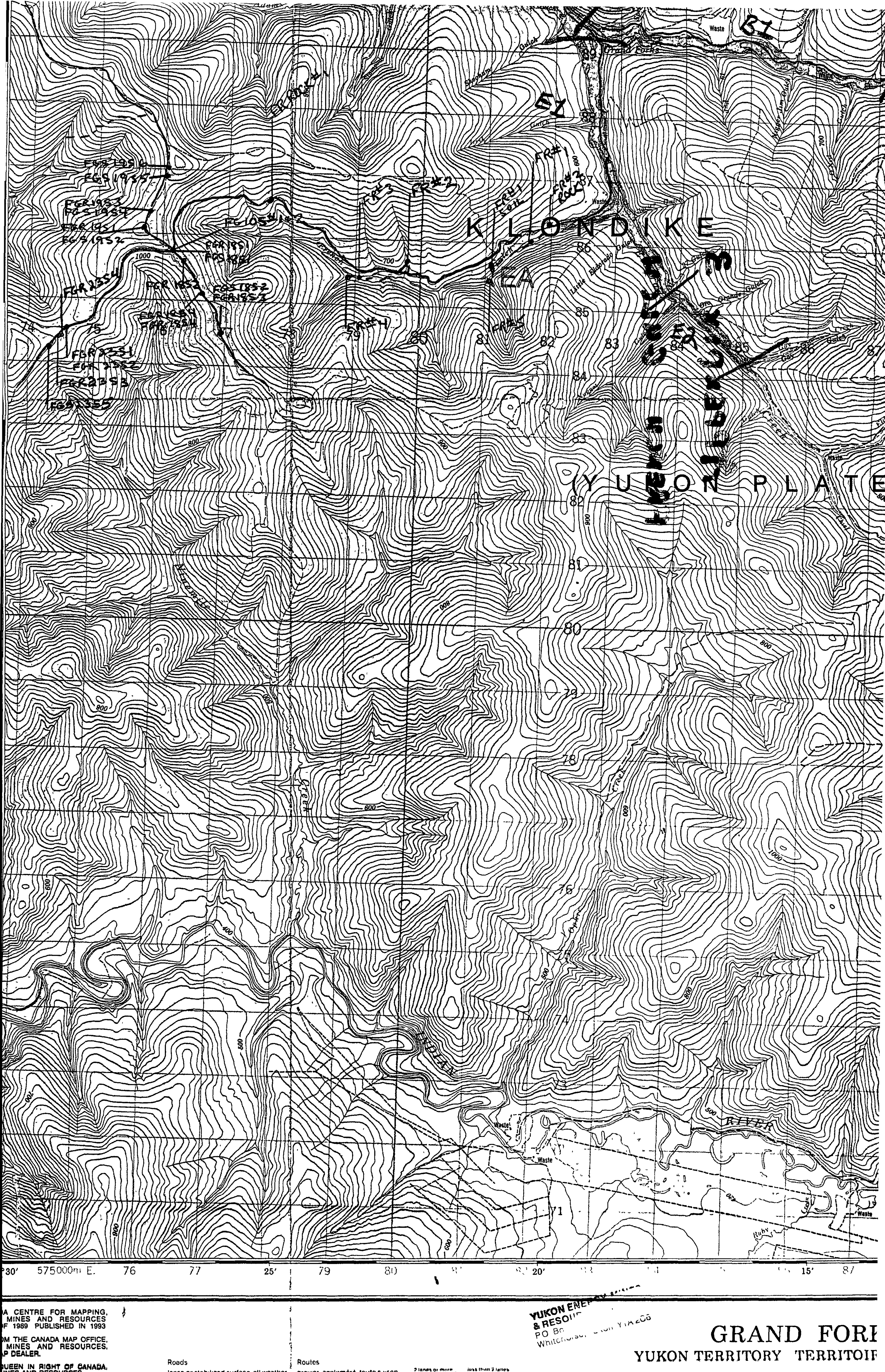

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PO Bo…
Whitehorse… Y1A 2C6

GRAND FORI
YUKON TERRITORY TERRITOIF

Roads
loose or stabilized surface, all weather

Routes
gravier, aggloméré, toute saison

2 lanes or more
less than 2 lanes

APPENDIX 3

FRENCH GULCH

THISTLE CREEK
YUKON TERRITORY

SCALE 1:50,000 ÉCHELLE

Miles 1 0 1 2 3 Miles

Roads	Routes	
all weather	toute saison	
dry weather	période sèche	

Building	Bâtiment	•
School	École	▪
Barn	Grange	▬
Post Office	Bureau de poste	•P

YUKO
& RES
PO Box 27
Whitehorse
nY
1206

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or
28 Mi

APPENDIX 3

THISTLE, BALLARAT

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& RESOURC
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Whitehorse, Yukon

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