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| LOG NO: | APR 0 8 1992 | RD. |
| ACTION: | <i>WASH TEST ANALYSIS</i> | |
| FILE NO: | | |

**Report on the Cottonwood Resources Ltd.
Hardscrabble Creek Placer Mining Claims**

Cariboo Mining Division

Latitude: 53° 8" Longitude: 121° 39"

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,199



Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT
TITLE PAGE AND SUMMARY

| | |
|--------------------------|------------|
| TYPE OF REPORT/SURVEY(S) | TOTAL COST |
| GEOLOGICAL - PLACER | \$2400.00 |

AUTHOR(S) Harold F. Cowan SIGNATURE(S) *Harold F. Cowan*

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED 1991 YEAR OF WORK 1991

PROPERTY NAME(S) Hardscrabble

COMMODITIES PRESENT Gold, Silver

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN ~~PG1775, PG1773, PG1711~~ 093H-23, III

MINING DIVISION Cariboo NTS 093.H.04E

LATITUDE 53° 8" LONGITUDE 121° 39"

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:

Hardscrabble 1, PC1775; Hardscrabble 2, PC1773; Hardscrabble 3, PC1711

OWNER(S)

(1) Cottonwood Resources Ltd. (2)

MAILING ADDRESS

RR8, Box 24 Rau Road
Quesnel, BC V2J 5E6

OPERATOR(S) (that is, Company paying for the work)

(1) Cottonwood Resources Ltd. (2)

MAILING ADDRESS

RR8, Box 24 Rau Road
Quesnel, BC V2J 5E6

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

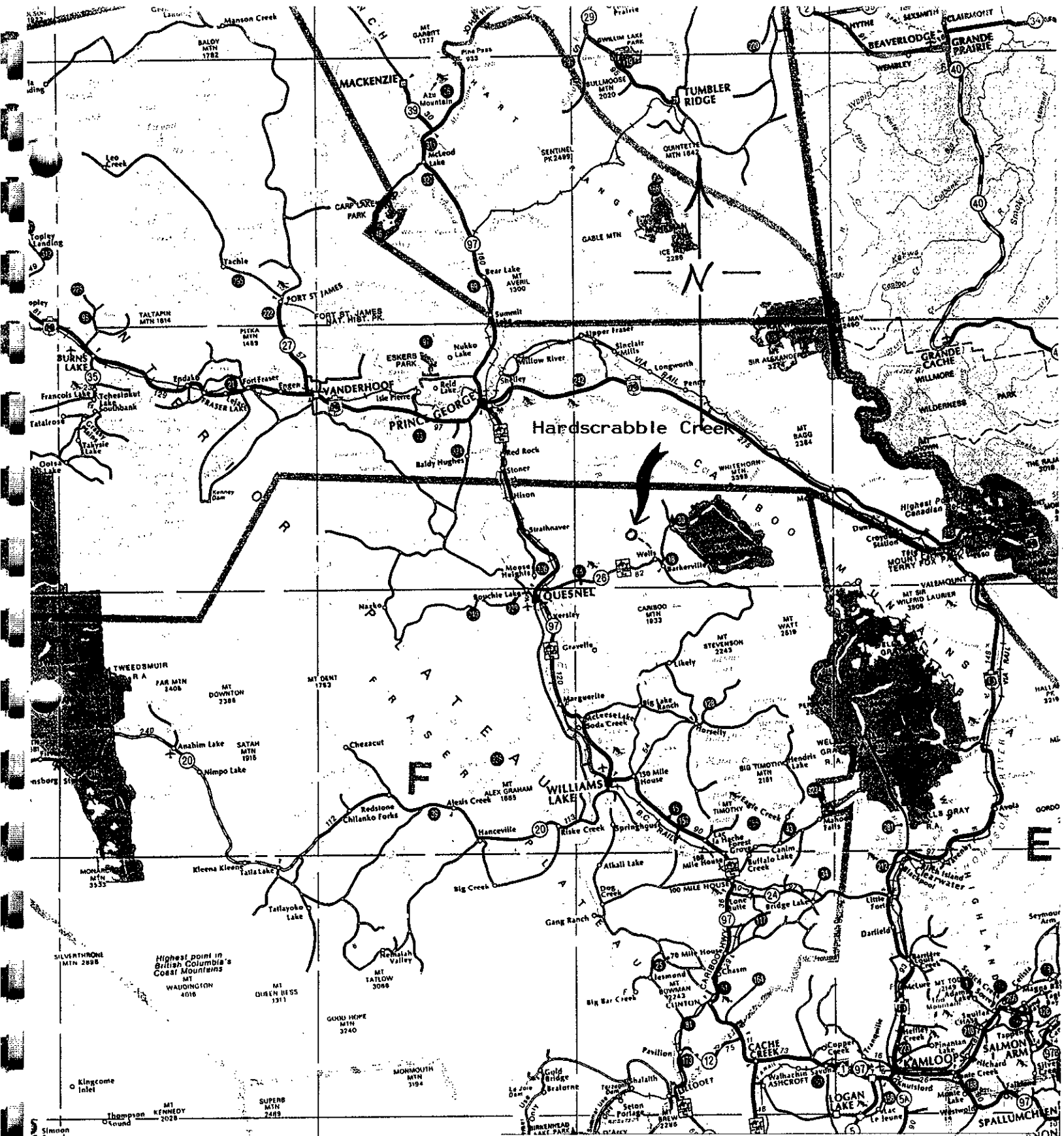
Surface - gravel, sand, silt; Probe (15) recovery was sand, silt and gravel, with no visible gold.

REFERENCES TO PREVIOUS WORK

Memoir 149, Canada, Geological Survey.

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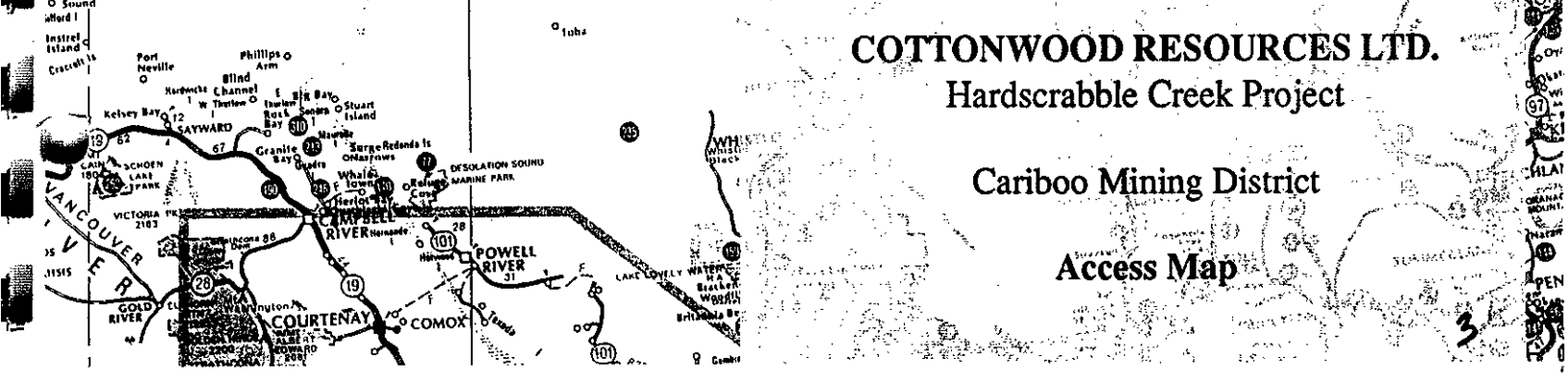
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COTTONWOOD RESOURCES LTD.
Hardscrabble Creek Project

Cariboo Mining District

Access Map



93 H/4E

MT. WILEY

PL 491



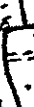
HARDSCRABBLE MTN.

PC 1330
SHAKE UP

Hardscrabble Creek

Porcupine Cr.

HARDSCRABBLE RIVER



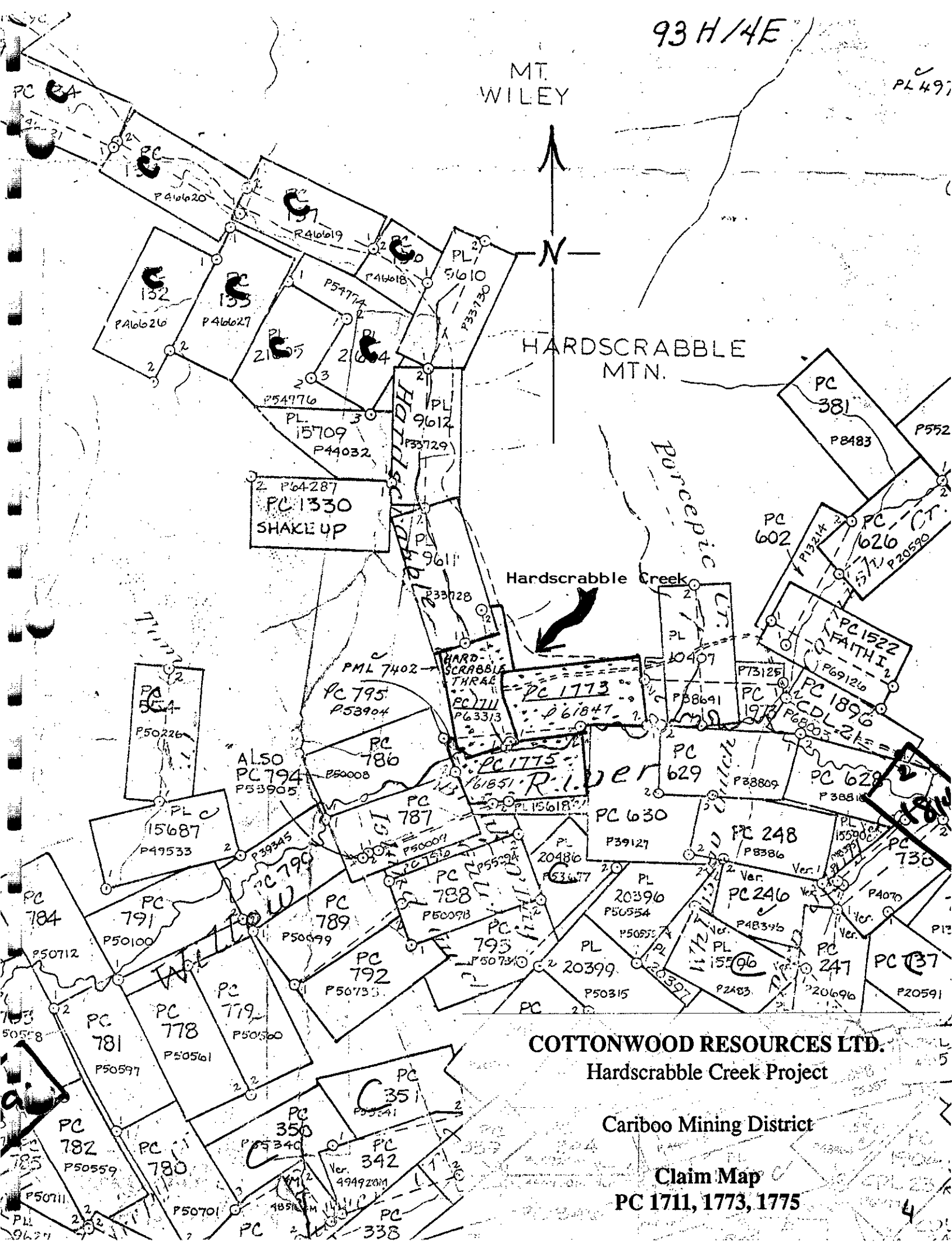
COTTONWOOD RESOURCES LTD.

Hardscrabble Creek Project

Cariboo Mining District

Claim Map

PC 1711, 1773, 1775



Little Woody Resources, Inc.
1120, 520 - 5th Avenue S.W.
Calgary, AB, Canada

March 24, 1992

Mr. Don Kirkham, President
Cottonwood Resources Ltd.
RR#8 Box 24, Rau Road
Quesnel, BC V2J 5E6

Subject: Hardscrabble Creek, BC Project Evaluation, including mining claims PC's 1711, 1773 & 1775

Following your request I have prepared the following report on the subject project, from information gathered by visits to the property and from published and private sources.

The claims lie to the southwest of Hardscrabble Mountain at the intersection of the southward-flowing Hardscrabble Creek with the east-west trending Willow River.

Access is by road bearing NW from the village of Wells, BC, along Mosquito Creek, and then the Willow River for a distance of roughly 9 kilometers.

PC 1711, is aligned north-south and covers the southern portion of Hardscrabble Creek down to its intersection with the Willow River. PC 1773, aligned E-W has its western boundary abutting PC 1711 and has its southern boundary roughly parallel to and adjacent to the north bank of the Willow River; PC 1775 is also aligned E-W and lies on the southern side of the Willow, with its northern border adjoining the two aforementioned claims.

A surface evaluation was made of the claims through several traverses of the area. Samples were collected from a number of well exposed gravel outcrops. Assays of a number of these samples are included in this report. Location of the samples assayed are shown on the data map.

A large tailings pile is located immediately east of Handscrabble Creek near a production shaft dug for the exploitation of the gutter of Handscrabble Creek. The tailings pile and shaft are located just north of a trappers cabin.

Abundant gravel outcrops are present on all these claims. They are present on both sides of Handscrabble Creek within the borders of PC 1711, in a narrow band lying between the Creek, and the steeply dipping hills which flank the creek. The assayed samples were taken from the gravel outcrop which is located on the west bank of the creek opposite the house and tailings pile described above.

Ocurring on the north side of Willow Creek and adjacent to it are several gravel benches, developed on the creek flat which attains a width of up to 500 metres, north of the intersection with Handscrabble Creek. The south side of the Willow also has a well developed bench, however, it is limited in width due to the close proximity of the steeply dipping hills which border the creek on the south side.

The dominant rock type in the area are sedimentary rocks of the Cariboo group of Middle Cambrian age, however the primary objective are the Tertiary sediments, consisting of gravel, sand and silt, which comprise the valley fill of both the Handscrabble Creek and Willow River. Old reports indicate the valley fill to be roughly 28 meters thick along the Willow River, decreasing to 18 meters near the northern end of PC 1711 on Handscrabble Creek. On the flanks of the Creek are several gravel terraces which extend out into the river flat, and widen as the Willow River is approached. These terraces are very prospective and require further evaluation.

Historically the property has been worked since the 1880's with the main project being the drifting of a drainage tunnel along bed rock from a point just NE of the confluence of Handscrabble Creek, and the Willow River. This adit extended north for a distance of some 625 meters terminating very near the northend of PC 1711. Considerable drifting was done in and around the northend following the sinking of a 19 meter shaft as well as at the south end where a shaft was sunk to the 28 meter level.

The northern shaft is accessible at this time, however no attempt to enter it was made, as we did not have the necessary safety equipment on site. The southern shaft was not found, however there are indentations in the ground trending north south which could be the surface trace of the old tunnel. It is possible the "old-timers" highgraded the gutter of the creek, and have left the majority of the valley fill in place.

*
 Samples were taken by probing the surface of PC 1711, these samples have been assayed for Gold and Silver, with assay results attached.

Recommendation

Due to the favourable thickness of potential gold bearing placer material along both Willow River and Hardscrabble Creek, it is recommended that a drill fence in the shape of a V be conducted on PC 1711 and PC 1775. The apex of the V would be some distance north of the intersection of Hardscrabble and Willow with the wings of the V extending to the NW, and NE, to test the terraces on the flanks of the Creek as well as the valley fill to bedrock. Five holes should be drilled on each wing, these having an average depth of roughly 25 meters would result in a total drill program of ¹²⁵ meters.

Cost of the program is expected to be in the \$29,500.00 range as detailed below.

| | |
|---|-----------------|
| Drilling, including move in/move out est. @ 50/hour | \$ 8,000.00 |
| HD Tractor - 110 hours @ \$56/hour | 6,160.00 |
| Processing bulk samples | 1,000.00 |
| Assays: 170 samples @ \$20/each | 3,400.00 |
| Supervision | 8,000.00 |
| Contingencies - 10% | 2,650.00 |
| Total estimated cost | \$29,210.00 |

* Drilling with an auger to one metre depth, the samples were screened and concentrated on a gemini table, then assayed.

To: LITTLE WOODY RESOURCES INC.
1120,520-5th AVENUE S.W.
CALGARY,ALBERTA
T2P 3R7

File No. 34212
 Date APRIL 9,1991
 Samples SAND



ATTN. HAROLD COWAN

Certificate of Assay LORING LABORATORIES LTD.

Page # 1

| SAMPLE NO. | GOLD OZ/TON | % BY WEIGHT |
|------------|----------------|----------------|
|------------|----------------|----------------|

"HARDSCRABBLE
 SAMPLES"

| | | |
|---------------------|---------|-------|
| "A" SAMPLE | 11.472 | |
| -150 MESH PULP | 6.495 | 97.89 |
| +150 MESH METALLICS | 242.38 | 2.11 |
| | | |
| "B" SAMPLE | 4.069 | |
| -150 MESH PULP | 2.344 | 97.41 |
| +150 MESH METALLICS | 68.938 | 2.59 |
| | | |
| "C" SAMPLE | 4.542 | |
| -150 MESH PULP | 2.897 | 99.48 |
| +150 MESH METALLICS | 319.262 | 0.52 |

I Hereby Certify that the above results are those
 assays made by me upon the herein described samples....

Rejects retained one month.
 Pulps retained one month
 unless specific arrangements
 are made in advance.



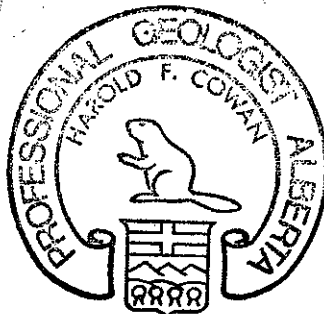
 Assayer

STATEMENT OF QUALIFICATIONS

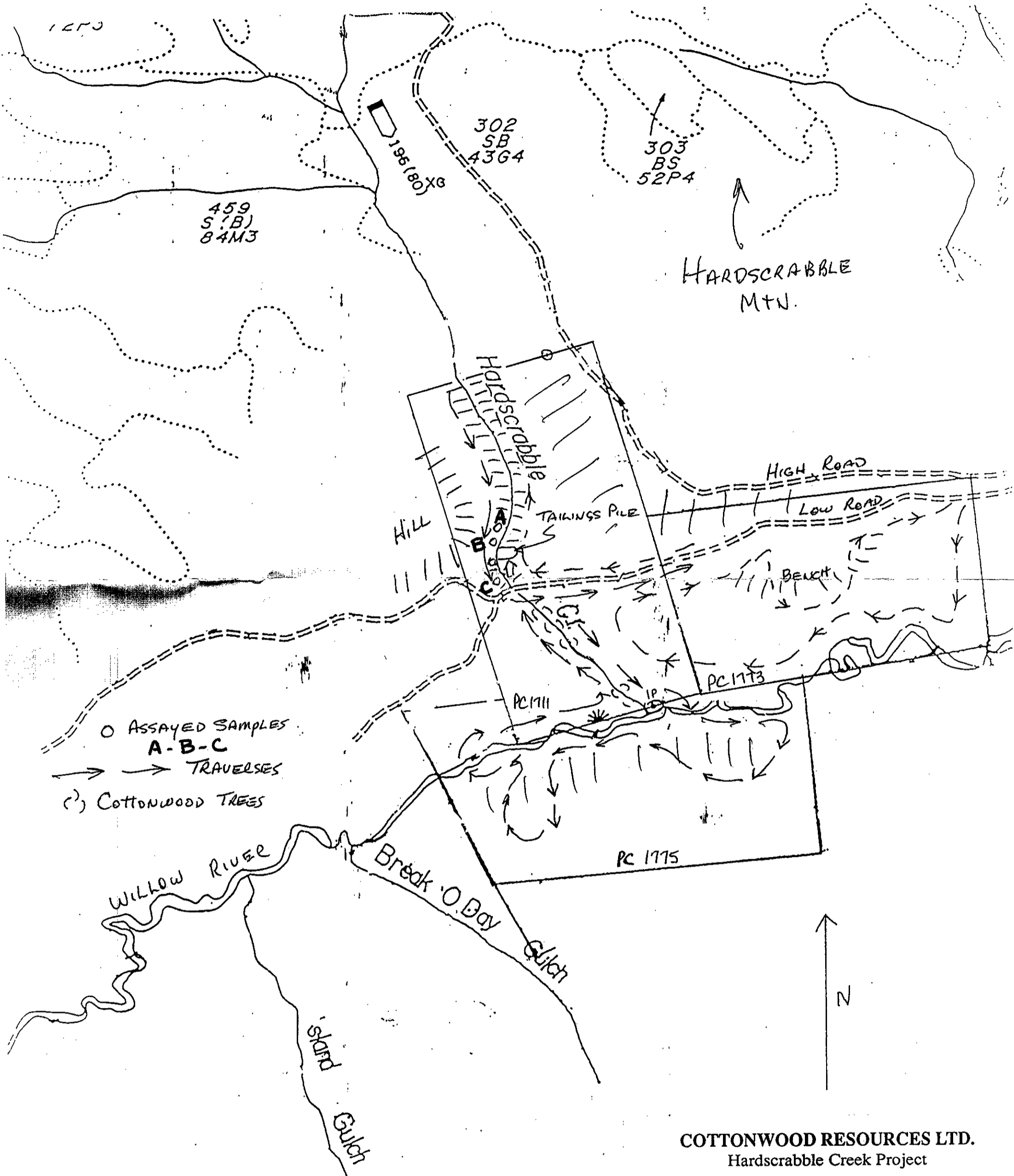
I, Harold F. Cowan, of Calgary, in the Province of Alberta, DO HEREBY CERTIFY THAT:

1. I am the president of Little Woody Resources, Inc. with offices at 1120, 520 - 5 Avenue S.W., Calgary, Alberta, Canada.
2. I am a graduate of the Colorado College, Colorado Springs, Colo. USA, with a Bachelor of Science Degree in Geology.
3. I am a member in good standing with the Association of Professional Engineers, Geologists and Geophysicists of Alberta. Member # 26534, 1991. My primary employment since 1955 has been in the field of mineral and petroleum exploration.
4. My experience has encompassed a wide range of geological environments resulting in considerable familiarization with exploration techniques required for the evaluation of mineral deposits.
5. This report is based on a review of old reports plus field data generated during the 1990 program managed by myself, and aided by Mr. D. Kirkham.
6. I have no interest in the property described herein, nor do I expect to acquire any such interests.

DATED at Quesnel, BC, this 8th day of April 1991



Harold F. Cowan
 Revised Mar 30/1992
 HFC



COTTONWOOD RESOURCES LTD.
Hardscrabble Creek Project

Cariboo Mining District

**Data Map Showing
Traverses & Sampling Locations**

21199