SUMMARY OF BULKLEY RIVER

- Telkwa to Smithers

76 FDC 18 (1979)

FIELD: May 22, 1979 to June 21, 1979

OFFICE: January 30, 1980 to March 18, 1980

Data compiled in metres

The field survey was carried out under favourable conditions by an eight-man crew under the supervision of T. M. Dignan.

Vertical control data was collected with the use of Zeiss Ni 2 and Wild Na 2 Auto levels and is referred to Geodetic Surveys of Canada Datum. Data are recorded in Field Books #2232 L-1 and 2232 L-2.

Bulkley River

In total, sixty-eight cross-sections were located and run on the Bulkley River and are divided into two sections.

Section 1:

Cross-sections 1 to 35 including cross-sections 66 to 70 located as follows:

XS-1 opposite Smithers Airport
XS-35 situated 6.2 kilometres upstream of new Hwy 16 Bridge
XS-70 50 metres upstream of XS-16 (Old Hwy Bridge)
XS-67, 68, 69 at new Hwy 16 Bridge
XS-66, 105 metres downstream XS-30

Section 2:

Cross-sections 43 to 65 including cross-section 71 located as follows:

XS-43 immediately downstream of Municipal Disposal site
XS-65, 5.9 kilometres upstream of Bulkley-Telkwa Rivers confluence
XS-71, immediately downstream of rapids between XS-48 and XS-49

Cross-sections 36 to 42 were located but not run.

Data for the cross-sections were gathered with a TH 43 transit and a Raytheon #DE 719B (metric) Echo Sounder. Data are recorded in Books #2232I-1 and 2232I-2. A road centreline profile was done on the right and left banks at cross-section 16.

Telkwa River

One cross-section was run on the Telkwa River at the C.N.R. Bridge, immediately upstream of confluence. Due to high water conditions the remaining nine cross-sections will be run in low water (April 1980).

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Twenty-seven spot-heights were established at Telkwa. For location, refer to enlargement of Air-Photo B.C. #78030-183, scale 1:5000 approx.

Two monuments, WRS 1179 and WRS 1180, were established and given vertical values only.

For location of monuments, cross-sections and temporary bench marks, refer to Dwg. No. A5231 Sheets 3, 4, and 5.

T. M. Dignan
Party Chief