

86-984 - 15653



Province of
British Columbia

Ministry of
Energy, Mines and
Petroleum Resources

ASSESSMENT REPORT
TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S)
ROTARY DRILLING

TOTAL COST
\$10,280.50

AUTHOR(S) **Alfred R. Allen, P.Eng.** SIGNATURE(S) *Alfred R. Allen*

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED **21/7/86** YEAR OF WORK **1986**

PROPERTY NAME(S) **R.H. Stanfield**

COMMODITIES PRESENT **Cu, Au, Ag**

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN

MINING DIVISION **Fort Steele** NTS **82G/6W**

LATITUDE **49°-30'** LONGITUDE **115°-27'**

NAME(S) 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)).

Aspen 11, Aspen 12 20 units each
1877(7) 1878(7)

OWNER(S)

(1) **R.H. Stanfield** (2)

FILMED

MAILING ADDRESS

350 - 4723 1st Street S.W.
Calgary, Alberta T2G 0A1

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

(1) **R.H. Stanfield** (2)

MAILING ADDRESS

same

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

Precambrian Aldridge Formation near faults and granitic intrusions.
Near the Bull River mine open pits. To the west Devonian and
Mississippian limestone, sandstone intruded by quartz monzonite and
granodiorite dikes.

REFERENCES TO PREVIOUS WORK **G.B. Leech, G.S.C. Paper 58-10. International Congress**
Reports, 1972 A-15, C-15, A03-C03. M. Chiang, Surface Geology, 1972 Bull
River Area, 1972, A.R. Allen Survey reports 1967-87

MINISTRY OF ENERGY, MINES
AND PETROLEUM RESOURCES

Rec'd FEB 12 1987

SUBJECT _____

FILE _____

VANCOUVER, B.C.

CONTENTS

TITLE PAGE AND SUMMARY

A. INTRODUCTION..... 1. /

B. LOCATION 1. /

C. PROPERTY 1. /

D. PHYSIOGRAPHY..... 2. /

E. PREVIOUS WORK..... 2. /

F. GEOLOGY 2. /

G. THEORY 3. /

H. OBJECT OF DRILLING PROGRAMME 3. /

I. THE ROTARY DRILLING 4. /

J. DRILLING RESULTS 4. /

K. DISCUSSION 4. /

L. SUMMARY 5. /

COSTS STATEMENT 6. /

REFERENCES 7. /

CERTIFICATE /

- MAPS: 1. Location ✓
2. Claims and Drill Hole Aspen 11-84 /

* * * * *

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,653

ROTARY DRILLING
TO DEEPEN ASPEN 11-84 HOLE
FORT STEELE MINING DIVISION, B.C.

A. INTRODUCTION

The Aspen 11 and 12, 20 unit mineral claims, were prospected in 1984 and the 11-84 test hole was located in the northeast area of the Aspen 11 claim. The hole was drilled vertically through medium-grained biotite-hornblende granodiorite for 76 metres.

The hole was deepened an additional 61.5 metres in 1986 to acquire additional information regarding the intrusive body.

The cuttings were examined by the writer and are stored at the Stanfield camp.

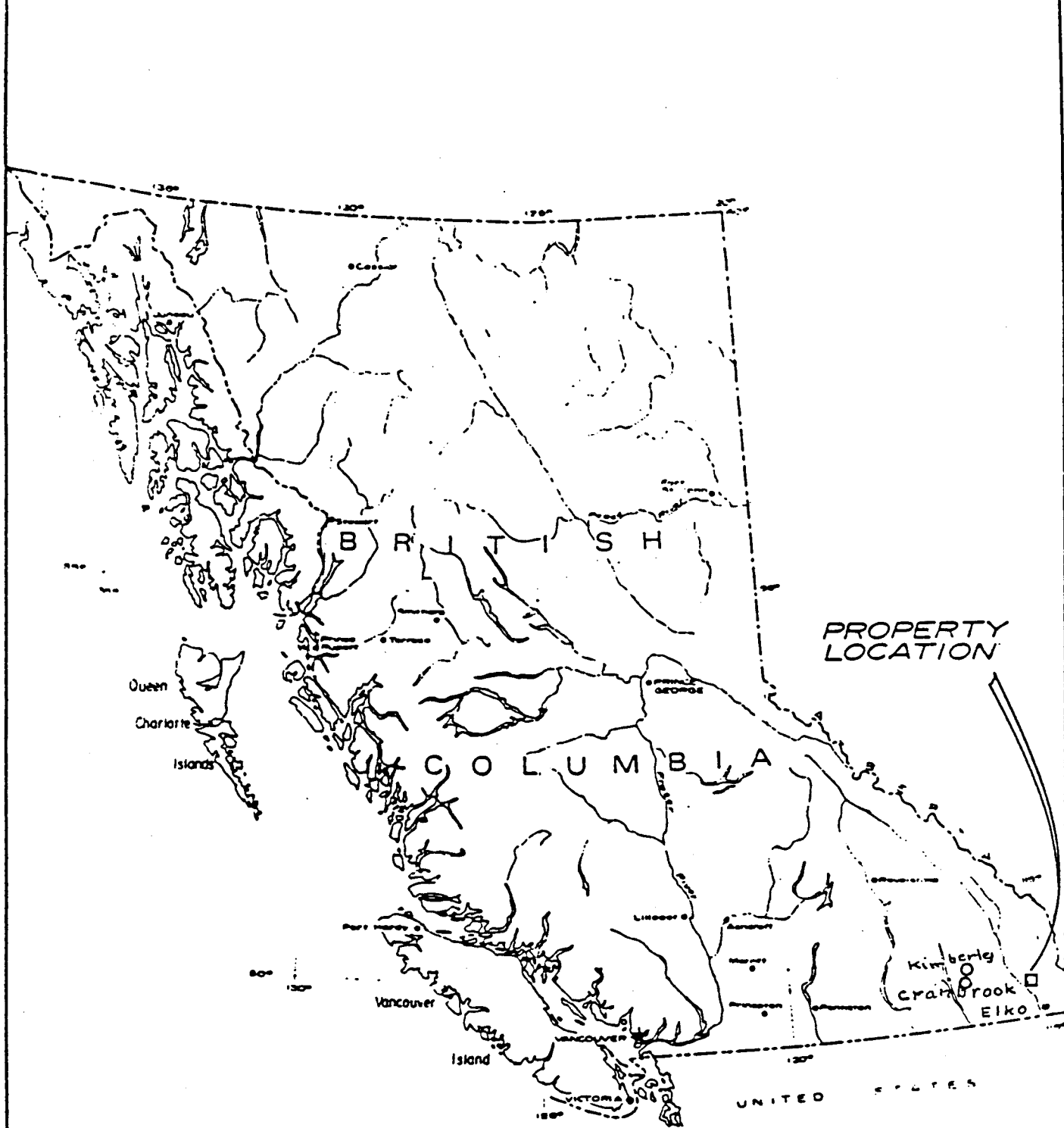
B. LOCATION

The property is located in the Fort Steele Mining Division 1.5 kilometres north of the town of Bull River and 1.5 kilometres south of Fort Steele.

The area is serviced by the Canadian Pacific Railway and excellent highways.

C. PROPERTY

The Aspen #6 Group includes the Aspen 11 and Aspen 12 claims. Record numbers are 1877 and 1878.



R.H. STANFIELD PROPERTY		
LOCATION MAP		
SCALE: 1" = 136 Miles.		
Drawn by	Date	ALLEN GEOLOGICAL ENGINEERING LTD.
Checked by	Dwg. no.	
ara		

D. PHYSIOGRAPHY

The property is located north of the Kootenay River and extends from the Bull River westerly over sparsely timbered hills from 840 metres to 1050 metres above sea level.

Norbury and Little Bull Creeks flow southerly across the Aspen 11 claim.

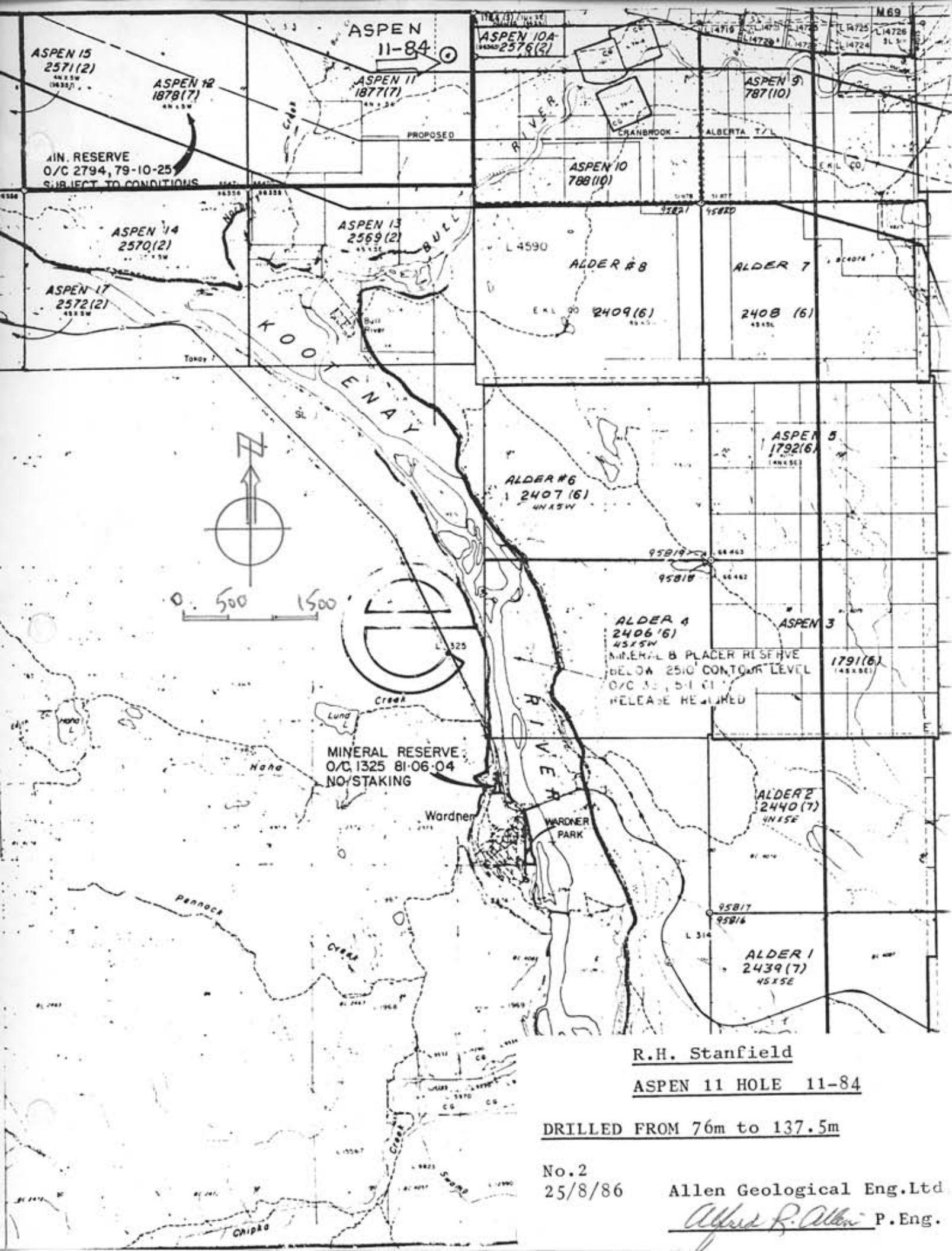
E. PREVIOUS WORK

- Leech, G.B., G.S.C., Paper 58-10, 1950
 " " " " 66-14, p.p. 307-329 1966
 " " Bulletin Canadian Petroleum Geology
 p.p. 396-407, 1962
- Canadian International Congress Field Excursions
 A03, C03, A-15, C-15, 1972
- Chiang, M., Surface Geology, Bull River Area, 1972
- Allen, A.R., Property Reports, R.H. Stanfield 1967-1987
- Placid Oil Company, Files, Reports, Maps, 1972-1976

F. GEOLOGY

The drill hole on the Aspen 11 claim is located near the projected location of the Bull River fault which is believed to be the western boundary of the Precambrian strata in the area of the Bull River mine.

The 11-84 hole and the additional deepening to 137.5 metres penetrated granodioritic intrusive similar to that exposed 1.2 kilometres to the south within Upper Devonian strata.



R.H. Stanfield

ASPEN 11 HOLE 11-84

DRILLED FROM 76m to 137.5m

No. 2
25/8/86

Allen Geological Eng. Ltd

Alfred R. Allen P. Eng.

This indicates that the long projection of the Bull River fault, as shown on the map by M. Chiang, is correct and that most of the area of the Aspen #6 Group is underlain by Devonian and Mississippian formations intruded by granodiorite.

G. THEORY

The Aspen 11 drill hole penetrated granodiorite intrusive similar to the exposed outcrop to the south, thereby indicating its location as being west of the Bull River fault and the Precambrian Aldridge formation within which the Bull River orebodies are located.

This closely corresponds to M. Chiang's interpretation of the fault extension westerly under an extensive overburden cover.

H. OBJECT OF THE DRILLING PROGRAMME

The drilling was conducted on the Aspen 11-84 hole in order to deepen it and if practical penetrate the host rock.

The host rock was not reached but it may be concluded that this igneous intrusive is similar to that exposed to the south within Palaeozoic sediments.

I. THE ROTARY DRILLING

The equipment and crew were contracted from Strathmore, Alberta, as follows:

Ingersol Rand T-H-60 Cyclone Drill Rig
 Drill stem Float truck
 5 ton water truck
 Crew pick-up truck
 Rods trailer, 30-foot
 G.M.C. 4x4 Cyclone transport

Supplied by R.H. Stanfield:

Pick-up 4x4 truck
 Foreman
 Accommodation

No difficulty was encountered in the deeper drilling.

J. DRILLING RESULTS

Hole Aspen 11-84 was deepened by 61.5 metres, to a total depth of 137.5 metres. The cuttings are all granodiorite.

K. DISCUSSION

The hole was extended for 61.5 metres vertical, in order to acquire additional information pertaining to host rock and structure. However there are no apparent changes at the additional depth.

Holes drilled 6 km east, in the Aspen 9 claim, are in Aldridge formation and are considered to be north of the Bull River fault.

The fault, although masked by overburden has been projected for some distance at 294^o in this area just north of the northeast corner of the Aspen 11 claim and Aspen 11-84 drill hole.

L. SUMMARY

From an exploration perspective the location of the Bull River fault is the western boundary of the Precambrian Aldridge formation, within which the orebodies of the mines of the area occur, including the Bull River mine.

This is evidenced by the results of drill holes Aspen 11-84 and similar drilling on the adjacent Aspen 9 claim.

Respectfully submitted,

ALLEN GEOLOGICAL ENGINEERING LTD.

Per Alfred R. Allen P.Eng.
Alfred R. Allen

BULL RIVER MINERAL CORPORATIONCOSTS STATEMENTROTARY DRILLING REPORT

ASPEN #11/84 EXTENSION

R.H. STANFIELDBY CONTRACT

July 14-16, 1986

LOCATION: ASPEN 11 CLAIM, Hole DeepenedDIRECTION: VerticalLENGTH: From 76m to 137.5 metresCOST: 61.5m @ \$147/m \$ 9,040.50

EQUIPMENT: I.R. T-H-60 Cyclone Drill
and auxiliary equipment
water truck, 5 ton
Drill Stem float truck
Crew pick-up truck
Rods trailer - 30 foot
G.M.C. 4x4 Cyclone transport

Supplied by Stanfield:

Foreman, R. Bjorglund 16 hrs@\$15	240.00
Pick-up truck 4x4 2 days @ \$50	100.00
Accommodation 5 men @ \$60/day 2 days	600.00
Consulting Engineer, A.R. Allen	300.00

Total	\$10,280.50
-------	-------------

Contract Crew:

Don Murray, Driller,	Strathcona, Alberta
Duane Bochek "	" "
Jim Jessey, Helper,	Langton, "

Alfred B. Allen

REFERENCES

- Leech G.B., Fernie Map Area, West Half,
G.S.C. Paper 58-10, Map 20, 1958
- Leech G.B., Internatoonal Geological Congress
Twenty-fourth Session, Canada 1972
Field Excursion A03 - Co3 pp 21-26
- Leech G.B., T CIMM V LX11 pp154-174
Southern Rocky Mountain Trench
- Allen, A.R., The Bull River Copper-Silver-Gold Mine
June 7, 1976
- Chiang, M.C.1 Placid Oil Company, Reports, 1973-1976
- Allen, A.R., R.H. Stanfield, Rotary Drilling
Bull River 1985

* * * * *

702 - 2025 Bellevue Avenue
West Vancouver, B.C.
V7V 1B9

CERTIFICATE

I, Alfred R. Allen, certify that:

I am a graduate of the University of British Columbia
and hold the following degrees therefrom:

BASc Geological Engineering 1939

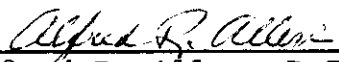
MASc Geological Engineering 1941

I am a Life Member of the Association of Professional
Engineers of the Province of British Columbia.

I have practised my profession for the past forty years.

I hold no interest in the properties or securities of
R.H. Stanfield, or affiliates thereof, nor do I expect
to receive any directly or indirectly.

The report on the Rotary Drilling programme on the
Aspen 11 claim, Fort Steele Mining Division, B.C., is
based on an examination of the property July 14 - 17, 1986.



Alfred R. Allen, P.Eng.