



Province of
British Columbia
Ministry of
Energy, Mines and
Petroleum Resources

ASSESSMENT REPORT
TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S) CYCLONE ROTARY DRILLING	TOTAL COST \$22,950.00
---	---------------------------

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

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED ... Dec. 22 ... YEAR OF WORK 1986

PROPERTY NAME(S) ... Aspen Group 6A

COMMODITIES PRESENT ... Cu, Ag, Au, Pb

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

MINING DIVISION Fort Steele NTS 82G/ 11 & 12

LATITUDE 49°-30' LONGITUDE 115°-35'

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), Minerals Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]

Aspen 11, 12, 13, 14, 15

20 Unit Claims

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):
On and near the contact between Precambrian Aldridge Creston and Kitchener Siyeh formations and Devonian and Mississippian Limestone formations. Major fault contact. Granitic and diorite dykes near the Bull River mine which produced Cu,Ag,Au,Pb from quartz-siderate veins 1972-1974. Ore in Aldridge formation.

REFERENCES TO PREVIOUS WORK ... G.S.C. Paper 58-10 - G.B. Leech
Property Reports since 1968 - A.R. Allen

15,858

GEOLOGICAL BRANCH
ASSESSMENT REPORT

GENERAL INFORMATION

Location:
Phone:
City:
State:
County:
Elevation:
Electromagnetic:
Industrial concentration:
Hydrography:
Soils:
Climate:
Other:

GEOTECHNICAL (number of samples analyzed for ...)

Soil:
Silt:
Rock:
Other:

DRILLING (total metres, number of holes, size)

Core:
Non core: Cyclone Rotary 131m 4/8 holes

RELATED TECHNICAL 21.6cm - 14.0cm

Sampling/assaying:
Petrographic:
Mineralogic:
Metallurgic:

PROSPECTING (scale, area)

PREPARATORY/PHYSICAL

Log scale, area:
Topographic scale, area:
Photogeometric (scale, area):
Lithologic (kilometres):
Fluvial (scale, area) (kilometres):
Trench (metres):
Drainage (metres):

Aspen 11, 12, 13, 14, 15

Cuttings stored in core house at Stanfield camp

\$22,950.00

TOTAL COST

\$22,950.00

FOR MINISTRY USE ONLY

NAME OF PAC ACCOUNT

DEBIT

CREDIT

REMARKS

Value work done (from report)
Value of work approved
Value claimed (from statement)
Value credited to PAC account
Value debited to PAC account
Accepted Date

Dept No

Information Class

CONTENTS

TITLE PAGE AND SUMMARY	1 & 2
A. INTRODUCTION	3.
B. PROPERTY	4.
C. LOCATION AND ACCESSIBILITY	4.
D. PHYSIOGRAPHY	5.
E. PREVIOUS WORK	5.
F. GEOLOGY	5.
G. THEORY	6.
H. OBJECT OF THE DRILLING PROGRAMME	6
I. CYCLONE ROTARY AIR-MUD DRILL PROGRAMME	6.
J. DRILLING RESULTS	7.
K. DISCUSSION.....	7.
L. SUMMARY	7.
REFERENCES	8.

COSTS STATEMENT

CERTIFICATE

MAPS:

1. Location
2. Claims and Drill Locations

A. INTRODUCTION

A drilling programme was conducted on the Aspen 11 of Aspen Group 6A, December 18-20, 1986.

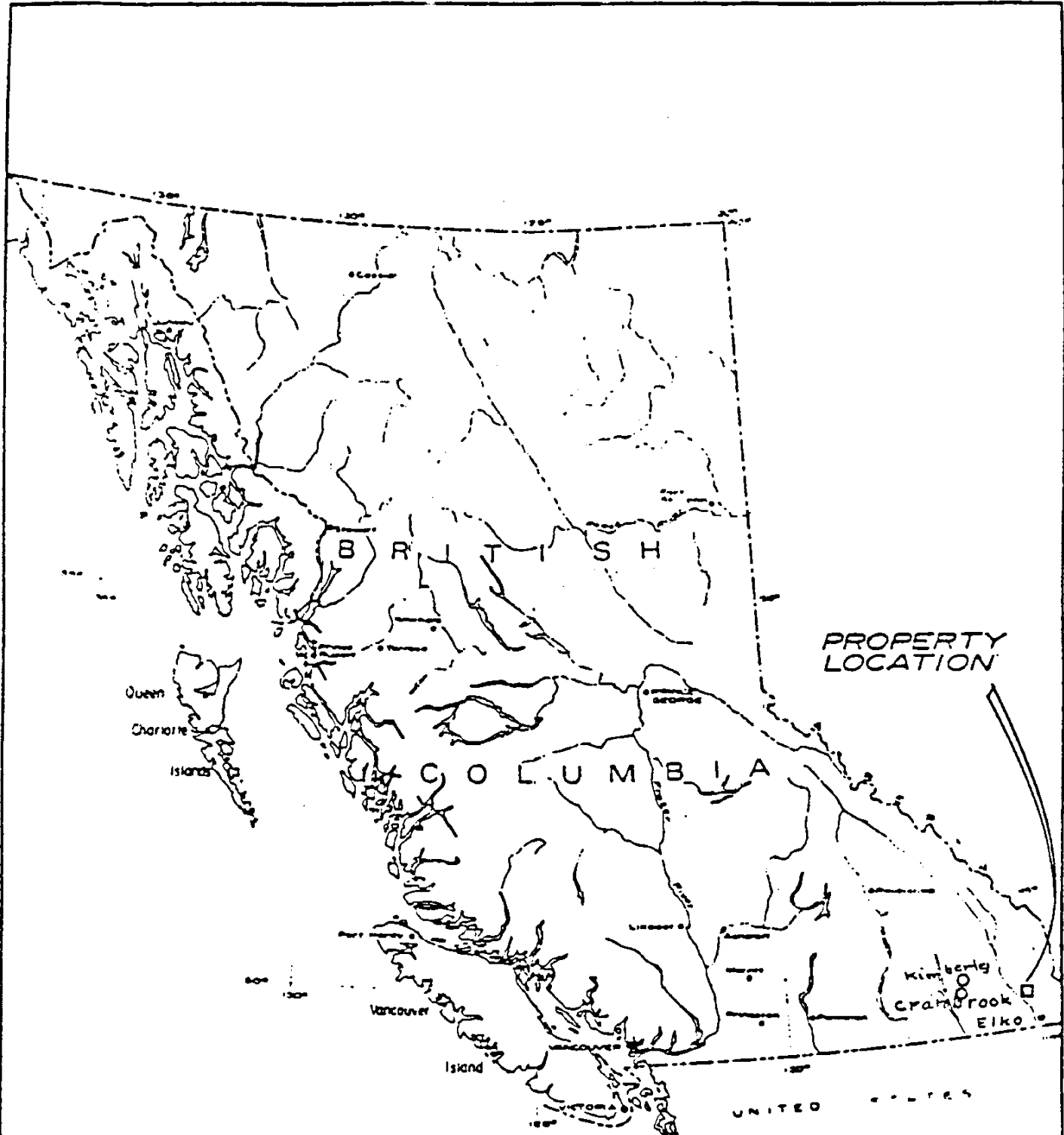
Four vertical holes were drilled and the cuttings are stored in the core house at the Stanfield camp.

The Steeples claims are held by R.H. Stanfield in the Fort Steele Mining Division.

The drilling was contracted by R.H. Stanfield to Zeus Mineral Corporation.

The object of the drilling was to acquire bedrock information in the area of the Bull River fault and Aldridge formation.

The purpose of the report is to describe the drill programme, the results acquired, and to outline briefly the location, geology and physiography of the area, particularly with regard to the Bull River Fault.



R.H. STANFIELD PROPERTY		
LOCATION MAP		
SCALE: 1" = 136 MILES		
Drawn by	DATE	ALLEN GEOLOGICAL ENGINEERING LTD.
Checked by	DRG NO.	

B. PROPERTY

The Aspen 6A group consists of the Aspen 11, 12, 13, 14 and 15 claims which are located on the southwest corner of the Steeples claims. The Aspen 11 adjoins the Steeples 21 on the south.

The Bull River western dipping fault is located close to the northeast corner of the Aspen 11 claim. The outcropping of the monzonite, quartz monzonite and granodiorite intrusive is about two kilometres to the south.

<u>HOLE</u>	<u>GROUP</u>	<u>CLAIMS</u>	<u>RECORD NUMBERS</u>
A-1-86	6A	11, 12, 13, 14, 15	1877, 1878, 2569, 2570, 2571
A-2-86	"		
A-3-86	"		
A-4-86	"		

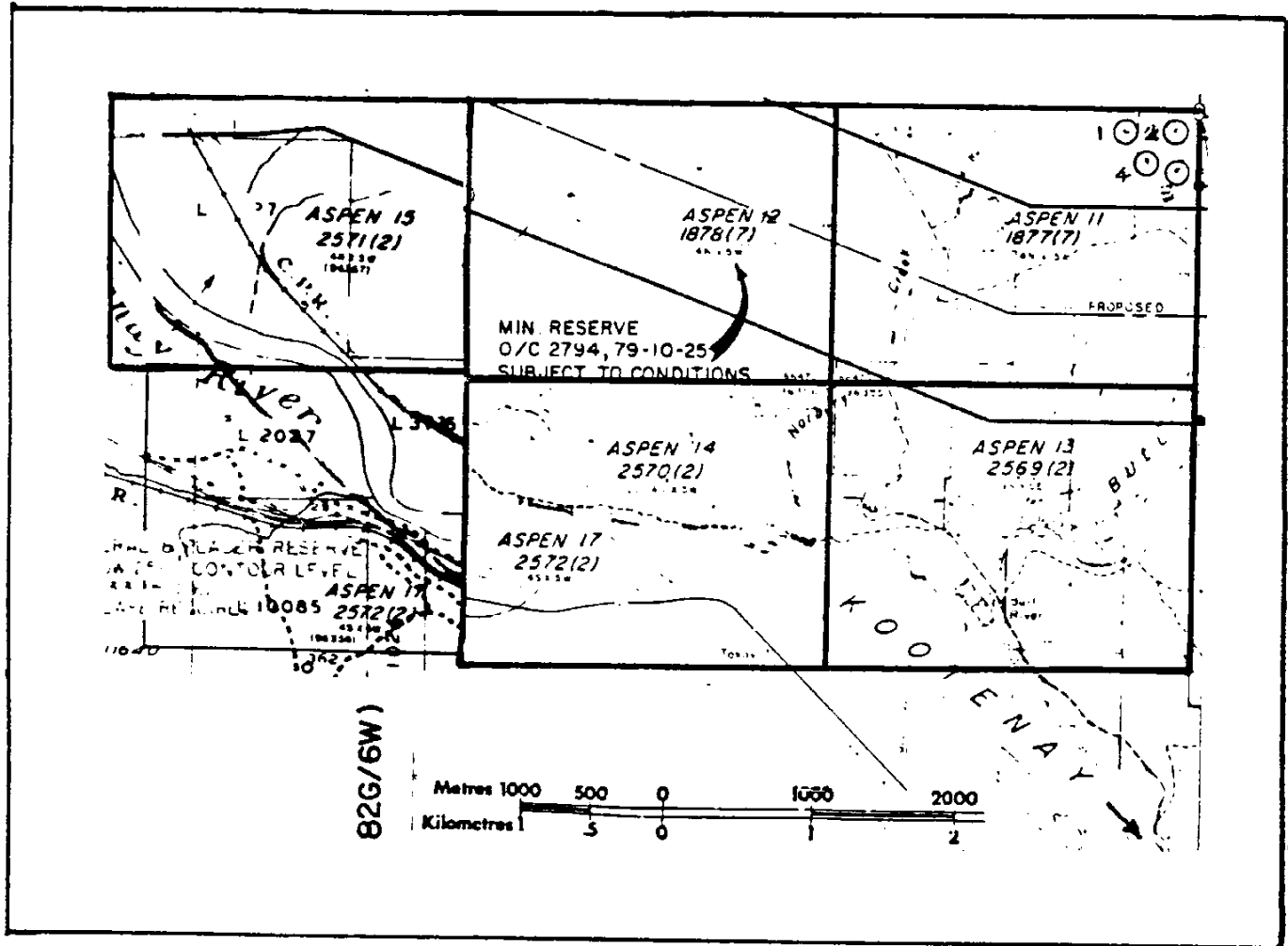
C. LOCATION AND ACCESSIBILITY

The Aspen property is located in southeastern British Columbia, in the Fort Steele Mining Division.

Location of the property to the following towns via Highway 3 is as follows:

Kimberly	43km	N.W.W.
Cranbrook	27km	W
Fort Steele	16km	N.W.
Fernie	25km	E.
Galloway	18km	S.

The Canadian Pacific Railway provides service to the area. Air service is maintained from Vancouver to Calgary with the Cranbrook-Kimberly airport.



LEGEND

Cyclone Rotary Drill Holes

Mineral Claims

R.H. STANFIELD

ASPEN GROUP : 6A

HOLES 1-4

No. 2
March 17/87

Alfred R. Allen P. Eng
Alfred R. Allen

D. PHYSIOGRAPHY

The Kootenay River, flowing southerly, crosses the southeast corner of the Aspen 15 claim.

The Bull River flows through the Aspen 13 claim into the Kootenay River near the town of Bull River at an elevation of 800 metres above sea level.

E. PREVIOUS WORK

The geology of the area was mapped by G.B. Leech and R.L. Langenheim Jr. of the Geological Survey of Canada 1956-57, paper 58-10.

The local area was mapped by the Placid Oil Company, 1972-74 and the Bull River was placed into production.

Since 1968 the writer, as consultant for R.H. Stanfield has conducted geological, geochemical, geophysical surveys and drilling programmes over the area, including the Aspen claims.

F. GEOLOGY

The Aspen 6A group is located within the Rocky Mountain Trench, except for a small area at the northeast corner of the Aspen 11 claim. There, the Bull River fault forms the contact between the Devonian and Mississippian limestone and the Precambrian Aldridge formation.

This area was drilled with the possibility of determining the position of this contact.

G. THEORY

The Bull River mine is located 3.5 kilometres easterly from the northeast corner of the Aspen 11 claim and the Aspen 1,2,3,4 drill holes.

The drilling was conducted at this location to attempt to check the fault and the depth and character of the Aldridge formation.

Drilling proved difficult and bedrock was not encountered.

H. OBJECT OF THE DRILLING PROGRAMME

The drilling was located on or near the projected location of the Bull River fault which determines the contact between the Aldridge formation and the Devonian and Mississippian formations.

The determining of the depth of overburden and type of bedrock at this location will be important when planning additional exploratory investigations.

I. CYCLONE ROTARY AIR-MUD DRILLING PROGRAMME

Four holes were drilled near the northeast corner of the Aspen 11 claim, December 18-20, 1986.

The technique used is considered faster and less costly than core drilling and is acceptable for preliminary investigations.

J. DRILLING RESULTS

<u>Group</u>	<u>Hole No.</u>	<u>Depth m.</u>	<u>Logs</u>
6A	A-1-86	26	Gravel, sand, gravel, clay
6A	A-2-86	5	Gravel, silt, sloughing - abandoned
6A	A-3-86	5	Gravel, silt, sloughing - abandoned
6A	A-4-86	95	Gravel, sand, cemented gravel clay
<u>1</u>	<u>4</u>	<u>131m</u>	Project abandoned -drilling difficultie:

K. DISCUSSION

The object of drilling near the projected location of the Bull River fault was to establish the western boundary of the Aldridge formation, near the Bull River mine.

Unfortunately bedrock was not reached because of deep overburden composed of gravel, sand, silt and clay which would not hold.

K. SUMMARY

The four drill holes were collared near the northeast corner of Aspen 11 claim. The object was to acquire the location of the Bull River fault and the type of bedrock. Difficult overburden resulted in abandoning the project.

It is possible that drilling at a different location, or with different equipment may be considered at a later date.

Submitted by:

ALLEN GEOLOGICAL ENGINEERING LTD.

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

March 17, 1987.



ZEUS MINERAL CORPORATION LTD.

STATEMENT

December 18-20, 1986

By contract to:

R.H. Stanfield
P.O. Box #94
Galloway, B.C.

Cyclone Rotary Drilling Program on Aspen 11-15
Vertical holes 1-4 131 metres.

PERSONNEL

Drill Crew: Randy Post, Driller-foreman, Strathmore, Alberta
Peter Cameron " " "
Ken Carlson " " "
Boyd Meyers " " "
Meals and accommodation, 8 man days @ \$65/day \$ 520.00

STANFIELD CREW

Brent Skene, Foreman, 16 hrs. @ \$15	240.00
R. Stanfield, Jr., Coordinator @ \$15	240.00
Stan Muglich, Clean-up	186.00

<u>EQUIPMENT</u> 2 trucks, 4x4, 3 days @ \$50	300.00
---	--------

<u>CONSULTING</u> Alfred R. Allen, P. Eng., Reports	807.00
Mobilization and Demobilization	1,400.00

Drilling, 131m @ \$147	<u>19,257.00</u>
------------------------	------------------

To All inclusive:	\$22,950.00
-------------------	-------------

REFERENCES

- Leech G.B., Fernie Map Area, West Half,
G.S.C. Paper 58-10, Map 20, 1958
- Leech G.B., International Geological Congress
Twenty-fourth Session, Canada 1972
Field Excursion A03 - Co3 pp 21-26
- Leech G.B., T CIMM V LX11 pp 154-174
Southern Rocky Mountain Trench
- Allen, A.R., The Bull River Copper-Silver-Gold Mine,
June 7, 1976
- Chiang, M.C., Placid Oil Company, Reports, 1973-1976
- Allen, A.R., R.H. Stanfield, Rotary Drilling, Bull River
Property, March 1985

* * * * *

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

CERTIFICATE

March 17, 1987.

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

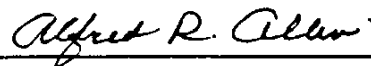
MASc Geological Engineering 1941

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

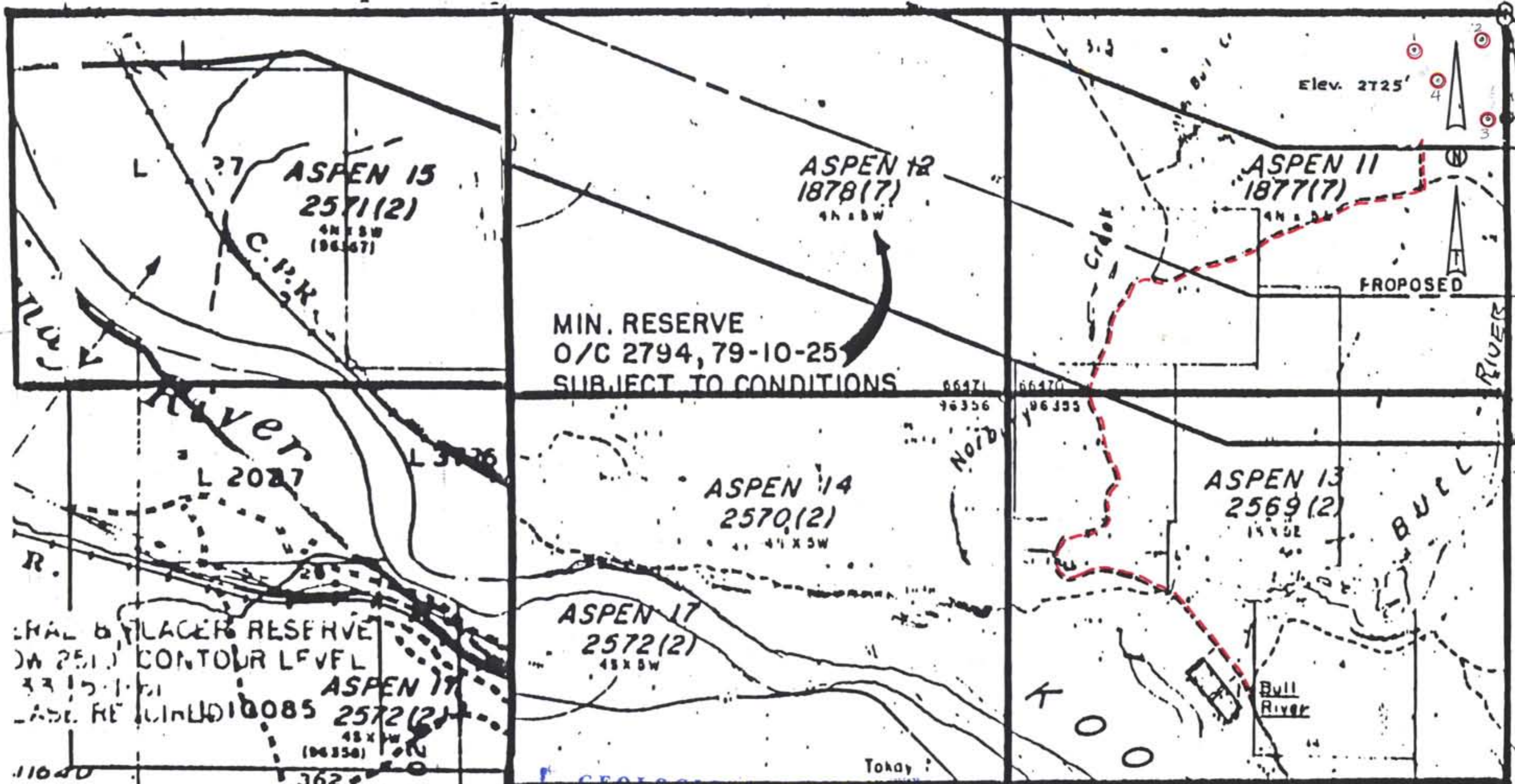
I have practised my profession for the past forty years.

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 Cyclone Rotary Air-Mud drilling programme on the Aspen 11-15, 20 unit mineral claims, by the writer is based on consulting, interpretation, inspection of cuttings and report preparation, from December 20, 1986 to March 17, 1987.



Alfred R. Allen, P.Eng.



GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,858



R.H. STANFIELD
ASPEN GROUP 6A

HOLES 1-4 ON ASPEN #11

Alfred R. Allen P. Eng.

July 1987. Alfred R. Allen