

WHITING MINING SERVICES INTERNATIONAL LTD.

1035 GREENWOOD PLACE, WEST VANCOUVER, B.C. CANADA.

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DIAMOND DRILLING REPORT

RICHFIELD GROUP

Richfield #1, #2, #3, #4, #5, #6, CDF #1, #2, & #3

Mineral Claims. Omineca M.D.

Latitude: N 54°34'; Long.: W 126° 14'.

NTS: 93 L 9E & 9W.

Work Program carried out by : Cobre Exploration Ltd.

Consultant : Whiting Mining Services International Ltd.

Author: F.B. Whiting, Geological Engineer, Ph.D., P.Eng.

Date of Work: Nov. 6 - 9 , 1980 and June 28-30, 1981.

Date of Report : June 30, 1981.

Claims: Richfield #1, Record # 1780 (5)

| | | |
|---------------|---|---------------|
| Richfield #2, | " | # 1781 (5) |
| Richfield #3, | " | # 2050 (9) |
| Richfield #4, | " | # 2051 (9) |
| Richfield #5, | " | # 2397 (12) |
| Richfield #6, | " | # 3480 (12) |
| CDF #1 | , | " # 1727 (4) |
| CDF #2 | , | " # 1728 (4) |
| CDF #3 | , | " # 1729 (4). |

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

9563

TABLE OF CONTENTS

| <u>Item</u> | <u>Page</u> |
|------------------------------------|-------------|
| A. INTRODUCTION | 1. |
| B. TECHNICAL DATA & INTERPRETATION | 2. |
| C. ITEMIZED COST STATEMENT | 4. |
| D. STATEMENT OF QUALIFICATIONS | 5. |

List of Illustrations

Fig. 1 : Location Map

Fig. 2 : Claim Map

Fig. 3 : Surface Plan - In pocket.

Fig. 4 : Section 25 - 7 : In pocket.

Drill Log: DDH 80-18 : Pages 1 - 13.

A. INTRODUCTION

Property & Location

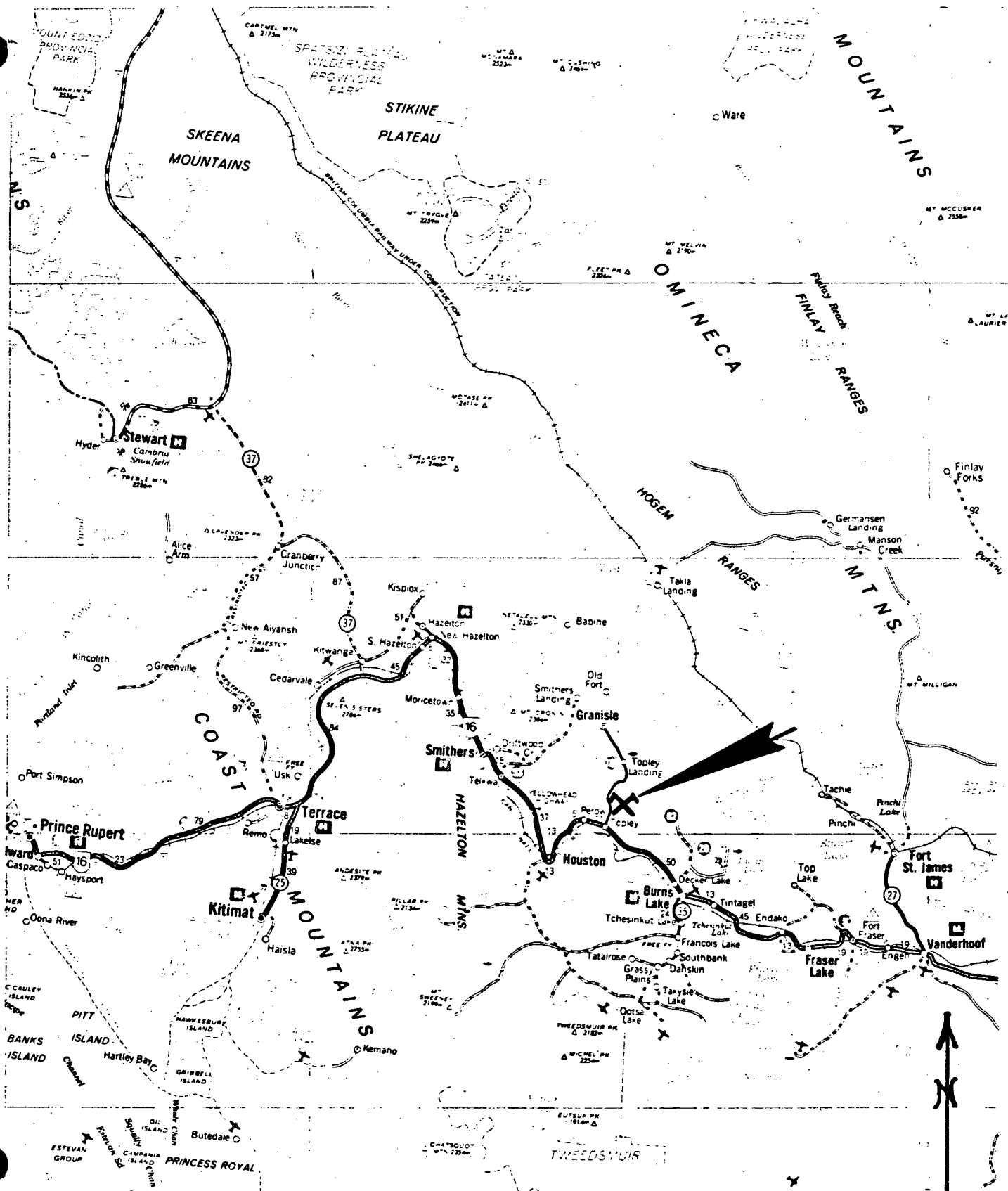
The Richfield claims are situated 4 - 13 km due north of Topley, B.C., in the Omineca M.D., on NTS maps 93 L 9E and 9W, at elevations of 1000-1400 metres; Lat. N54°34', Long.W 126° 14'. Access is by a dirt road that branches from the Topley-Granisle Highway 10 km north of Topley, and thence 3 km east to the workings.

History

The showings were discovered in 1927, and work was carried out on surface and on two underground levels in 1927-29. Other veins were found and trenched in 1934. The workings were de-watered by Silver Standard Mines in 1954-57 and the 200-foot level was re-sampled, confirming the original 1928-29 assays. Four holes were drilled in 1975 by Canadian Superior Exploration Co. Geophysical surveys were made by Cobre Exploration in late 1979. That company drilled Holes 80-1 to 80-8 in April-May, 1980, and Holes 9 -28 in September-December, 1980. Reports filed earlier covered Drillholes 1-17, 19-26, 27, and 28. This report covers Hole 80-18, which was drilled from Nov.6 - 9, 1980.

Economic Potential

Reserves indicated by the old mine workings and the 1980 drillholes amount to some 200,000 tons grading 3.8 grams of gold per short ton and 174 grams of silver per ton.



LOCATION MAP.

FIG. 1.



M 93L/9W

M 93L/9E

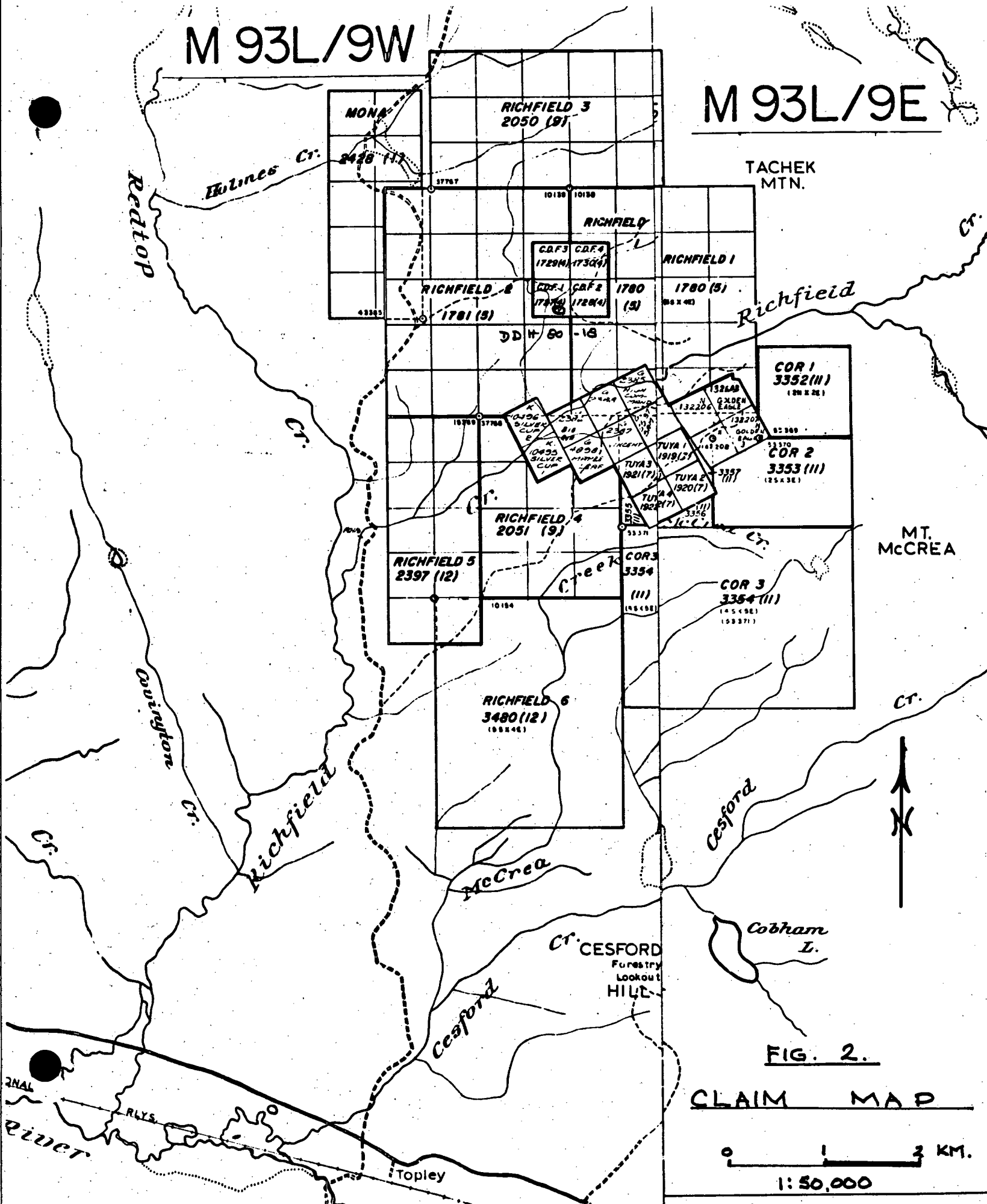


FIG. 2.

CLAIM MAP

0 1 3 KM.

1:50,000

OMINECA MINING DIVISION

The ore contains about 2 % combined lead-zinc, less than 0.1 % copper, and small amounts of cadmium. The arsenic content is about 1%. The deposit is of the volcanogenic type, strata-bound, and offers the potential for the finding of much larger reserves.

Work Summary

The work covered by this report includes the drilling of Hole 80-18, core diameter NQ, vertical at -90°, to a depth of 184.09 metres. Costs of preparing this report, and drafting of the plan, are included. Hole 80-18 is situated on the CDF #1 M.C.

B. TECHNICAL DATA & INTERPRETATION

Purpose of Drilling, and Result

Earlier drillholes 80-4, 80-10, 80-11, 80-13, 80-14, had found good-grade gold-silver mineralization lying as beds within an acidic pyroclastic unit of tuffaceous rocks of Jurassic age, part of the Hazelton Group. The host beds strike north and dip west at about 45°. Hole 80-18 was drilled as a short step-out to the south, looking for a continuation of the ore found in Hole 80-13, which over a vertical interval of 7.3 metres, assayed 4.7 grams gold per ton and 195 grams of silver per ton. Hole 80-18 found overburden 25.91 m deep, and then entered the hangingwall formation that lies above the ore-host beds. This unit was found from 25.91 to 74.82 m. Then altered pyroclastics were found to a depth of 112.00 m; then Footwall Andesite to the bottom of the hole.

Conclusions:

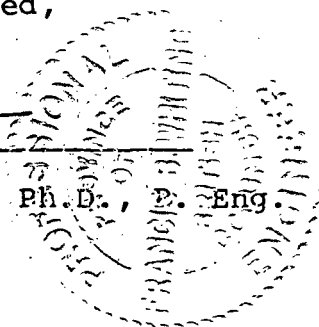
D.H. 80-18 did not intersect any ore bed of commercial importance. Plotting the results of nearby holes 80-15, 80-16, and 80-17, it appears that this hole is south of the main ore shoots, in an area where the ore-host formation is thinning rapidly southwards. If ore does exist at this south coordinate, it must be much farther to the west or southwest.

From the other holes in this vicinity it is clear that the center of the felsic pile of pyroclastics lies to the north-northwest, and that D.D.H. 80-18 is off the main mineralized trend.

Future drilling should be farther west and northwest in the known pile. As other acidic piles may exist along the top of the Footwall Andesite pile, a program of shallow drilling along the sub-outcrop of the ore-host pyroclastic formation is recommended.

Respectfully submitted,


F.B. Whiting, Ph.D., P. Eng.



C. ITEMIZED COST STATEMENT

Diamond Drilling

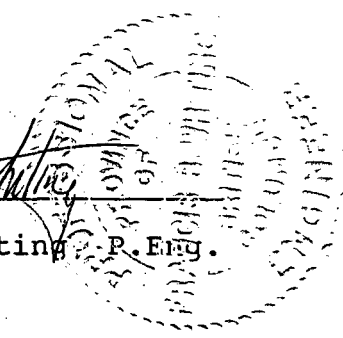
| <u>Item</u> | <u>Dates</u> | <u>Rate</u> | <u>Total \$</u> |
|--|--------------|---------------------------|-----------------|
| Core drilling by J.T. THomas Drilling Co. | Nov. 6-9/80 | 184.09 m @ \$ 79.51 /m | \$ 14,637.00 |

Report Preparation & Xeroxing

| | | | |
|--------------------------|--------------------|----------------|-----------|
| F.B. Whiting, Geol. Eng. | June 28-30 1981 | 3 days @ \$200 | \$ 600.00 |
| Xeroxing, report binders | | | \$ 8.00 |

TOTAL EXPENDITURES.....\$ 15,245.00

F.B. Whiting
F.B. Whiting, P. Eng.



D. STATEMENT OF QUALIFICATIONS

NAME: WHITING, Francis B., P.Eng.

PROFESSION: Geological Engineer.

EDUCATION: B. App. Sci. in Geological Engineering,
University of British Columbia.
M.Sc. in Geology, McGill University.
Ph.D. in Geology and Economics, Massachusetts
Institute of Technology.

PROFESSIONAL ASSOCIATIONS:

Registered Professional Engineer, Province
of British Columbia.

Registered Professional Engineer, Yukon Terr.

Member, Society of Economic Geologists.

EXPERIENCE:

Pre-graduate experience in Geology with
Geological Survey of Canada and International
Mining Corporation.

One and One-half years Field Geologist for
Hedley Mascot Gold Mines, Placer Development,
and New Jersey Zinc Explorations, in B.C.

Three years as Mine Geologist, Missouri, for St.
Joseph Lead Co.

Six years as Chief Geologist, Aguilar Mine, for
Compania Minera Aguilar, S.A., Argentina.

Seven years as Exploration Chief in Argentina
for Compania Minera Aguilar S.A.

Five years as Exploration Manager, later General
Manager, for Arrow Inter-America Corporation,
in western and eastern Canada.

Three years as Regional Manager for Western
North America for Brascan Resources Limited.

Three years as Consulting Geologist, as President
of Whiting Mining Services International Ltd.

Active experience in Canada, U.S.A., Mexico,
Honduras, Brazil, Chile, Peru, Argentina,
Australia, Bolivia.

DRILL HOLE RECORD

PROPERTY: Richfield

CORE SIZE: NO

LOGGED BY: L. Nield

DATE: Nov 2/80

Dip/Dir. Tests: _____

+ F. Whiting

HOLE #: 80-10

HOLE: 80-10

PAGE: 3 of 13

| Core | m. From | m. To | Description | Sample | m. From | m. To | m. Length | st oz. Au | st oz. Ag | % | % | % | % | % |
|------|---------|-------|--|--------|---------|-------|-----------|-----------|-----------|---|---|---|---|---|
| | | | pale green with white and grey irregular layering; mottled in part; rock is soft + crumbly; fr. dissemin. px | | | | | | | | | | | |
| | | | 81.57-82.32 hand core | | | | | | | | | | | |
| | 82.32 | 84.43 | Altered Porphyry - light greyish white with black "phenocrysts + stringers" (sulfides?) - vuggy in part | 96891 | 82.32 | 84.43 | 2.11 | <.008 | .02 | | | | | |
| | | | 82.97-84.43 fracture parallel to core axis; breccia; non eff | | | | | | | | | | | |
| | 84.43 | 85.20 | Breccia / Recrystallized Rock - white to pale grey, bleached with secondary Qtz; top is dk greenish grey | 96907 | 84.43 | 85.20 | 0.77 | <.003 | .02 | | | | | |

DRILL HOLE RECORD

PROPERTY: Richfield CORE SIZE: N2

LOGGED BY: L. N. Call
+ F. Whiting

DATE: Nov 9/80

Dip/Dir. Tests: _____

HOLE #: 80-18

HOLE: 80-18

PAGE: 7 of 13

13

| Core | m. From | m. To | Description | Sample | m. From | m. To | m. Length | st | | % Pb | % Zn | % S | % Fe |
|------|------------|----------|--|--------|------------|----------|--------------|--------|--------|------|------|-----|------|
| | | | | | | | | oz. Au | oz. Ag | | | | |
| | 10045 | 10275 | Brecciated / Fragmental Rock - pale green with white stz, vuggy in part; non-eff. in conc HCl | 96895 | 10045 | 10087 | 0.43 | <.003 | .01 | <.01 | .01 | | |
| | | | 100.60 - 100.64 pyrite and v. fine silvery mineral - slightly banded; hosted in stz in elongated blebs | 96897 | 10087 | 10275 | 1.88 | <.003 | .02 | | | | |
| | | | 101.64 - 102.30 broken rock; rock becomes v. light gray, bleached; vuggy | | | | | | | | | | |
| | | | 102.90 - 102.75 darker green with white stz, fractured; ankerite; non-eff in conc HCl; ankerite streaks | | | | | | | | | | |
| | 10275 | 10466 | Faintly Layered Rock - pale green with thin gray interbedding; ankerite replacement; white stz banding; med-dk green specks; layering CA 40° | 96898 | 10275 | 10466 | 1.91 | <.003 | .01 | | | | |

DRILL HOLE RECORD PROPERTY: Richfield CORE SIZE: 02 LOGGED BY: Nicoll DATE: Nov 9/88
 Dip/Dir. Tests: _____ + whitiny
 HOLE #: 8078 HOLE ID: 80-19 PAGE: 8 of 13

| Core | m. From | m. To | Description | Sample | m. From | m. To | m. Length | st / oz. Au | st / oz. Ag | % Pb | % Zn | % S | % S | % S |
|------|---------|--------|--|--------|---------|--------|-----------|-------------|-------------|---------|---------|-----|-----|-----|
| | 104.66 | 104.72 | Layered Fragmental Rock; medium green, white s/z banding CA 80° - to pyrite and silvery soft mineral | 96899 | 104.66 | 104.72 | 0.06 | <.003 | .08 | <.01 | .01 | | | |
| | 104.72 | 107.50 | Altered Breccia - light creamy white with abundant buffankerite replacement; occasional dark grey relic matrix; white fragments up to 7-10 mm φ; faint layering in part CA 75°; to pyrite and silvery mineral? | 96900 | 104.72 | 107.11 | 2.39 | <.003 | .01 | | | | | |
| | | | 107.11 - 107.22 pyrite stringers; silvery mineral? | 96901 | 107.11 | 107.22 | 0.11 | <.003 | .01 | <.01 | <.01 | | | |
| | | | | 96902 | 107.22 | 107.50 | 0.28 | <.003 | .14 | | | | | |
| | 107.50 | 108.85 | Layered Fragmental / Brecciated Rock - pale green / grey banding with white fragments CA 50°; finely | 96903 | 107.50 | 108.85 | 1.35 | <.003 | .18 | 130 ppm | 350 ppm | | | |

DRILL HOLE RECORD PROPERTY: Richfield CORE SIZE: 122 LOGGED BY: Dicall DATE: Nov 9/80
 Dip/Dir. Tests: _____ Whiting HOLE #: 80-10 HOLE: 32.18 PAGE: 7 of 13

| Core | m. From | m. To | Description | Sample | m. From | m. To | m. Length | oz. Au | oz. Ag | % | % | % | % | % |
|------|---------|--------|---|--------|---------|--------|-----------|--------|--------|---|---|---|---|---|
| | | | layered in part; ; blebs and layered pyrite minz. | | | | | | | | | | | |
| | 108.85 | 109.74 | Altered Massive Rock - light grey bleached; fractured, CA 30°, with replacement parallel to fractures (ankerite?); qtz veining CA 70°; blebs of pyrite | 96904 | 108.85 | 109.74 | 0.89 | <.003 | .02 | | | | | |
| | 109.74 | 112.0 | Finally layered Altered Argillite: -dark grey with abundant bleaching which is pale green and grey. Abund. qtz veining CA 55°; dissem pyrite -layering 60° 111.70-112.67 soft, crumbly | 96905 | 109.74 | 112.00 | 2.26 | <.003 | .01 | | | | | |

INDEX MAP.

RICHFIELD #2

RICHFIELD #1

CDF #3

CDF #4

CDF #1

CDF #2

80-18

500 M.

AREA OF DETAIL MAP.

CDF #1

CDF #2

5100 N

5000 N

4900 N

4800 N

4700 N

4600 N

RICHFIELD #2

RICHFIELD #1

4500 N

4400 N

9563

[Signature]

COBRE EXPLORATION LTD.

SURFACE PLAN

FIG. 3

0 100 M.

1:2000

Drawn By: F. Whiting

Date: May 16 / 81.

4500 E

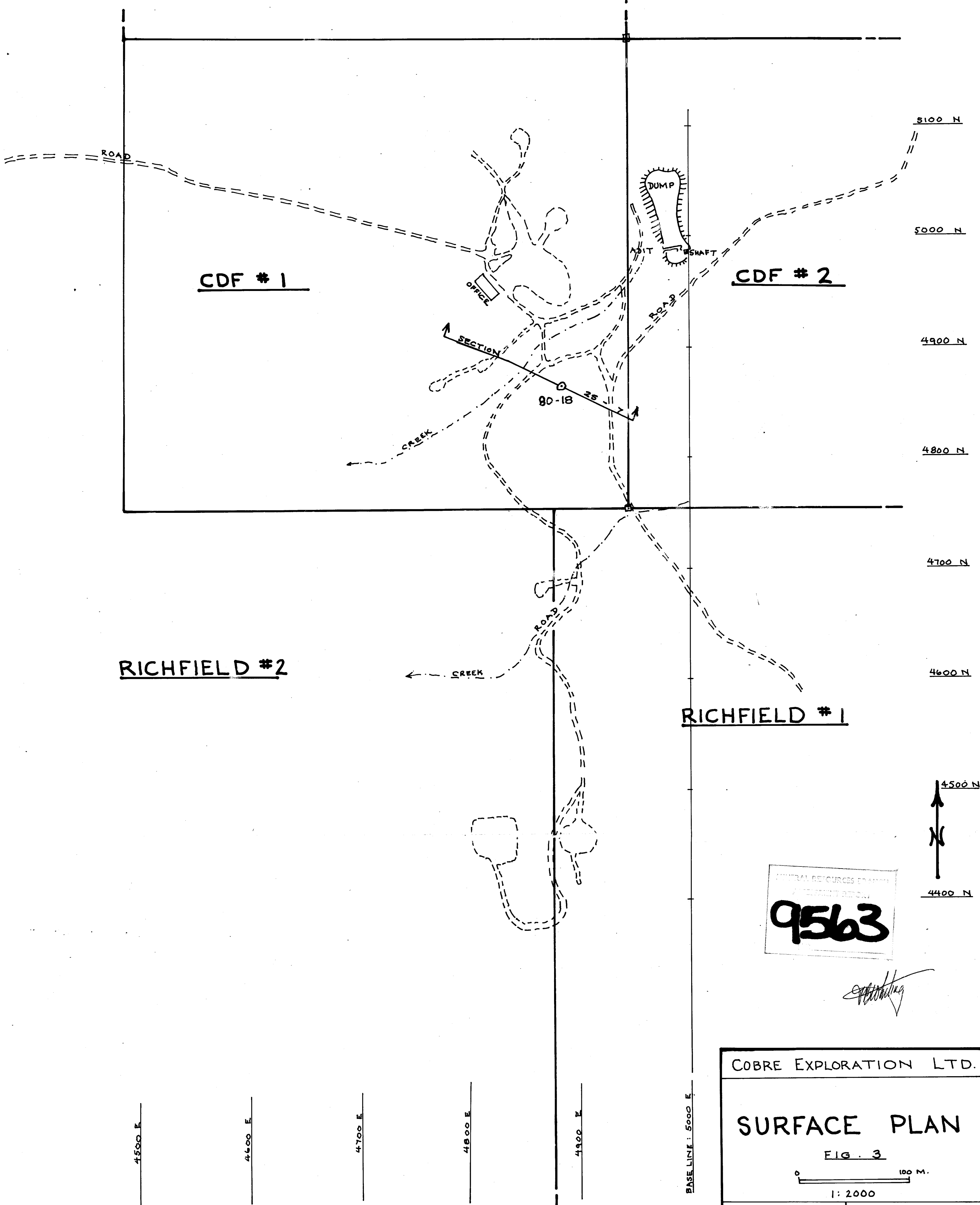
4600 E

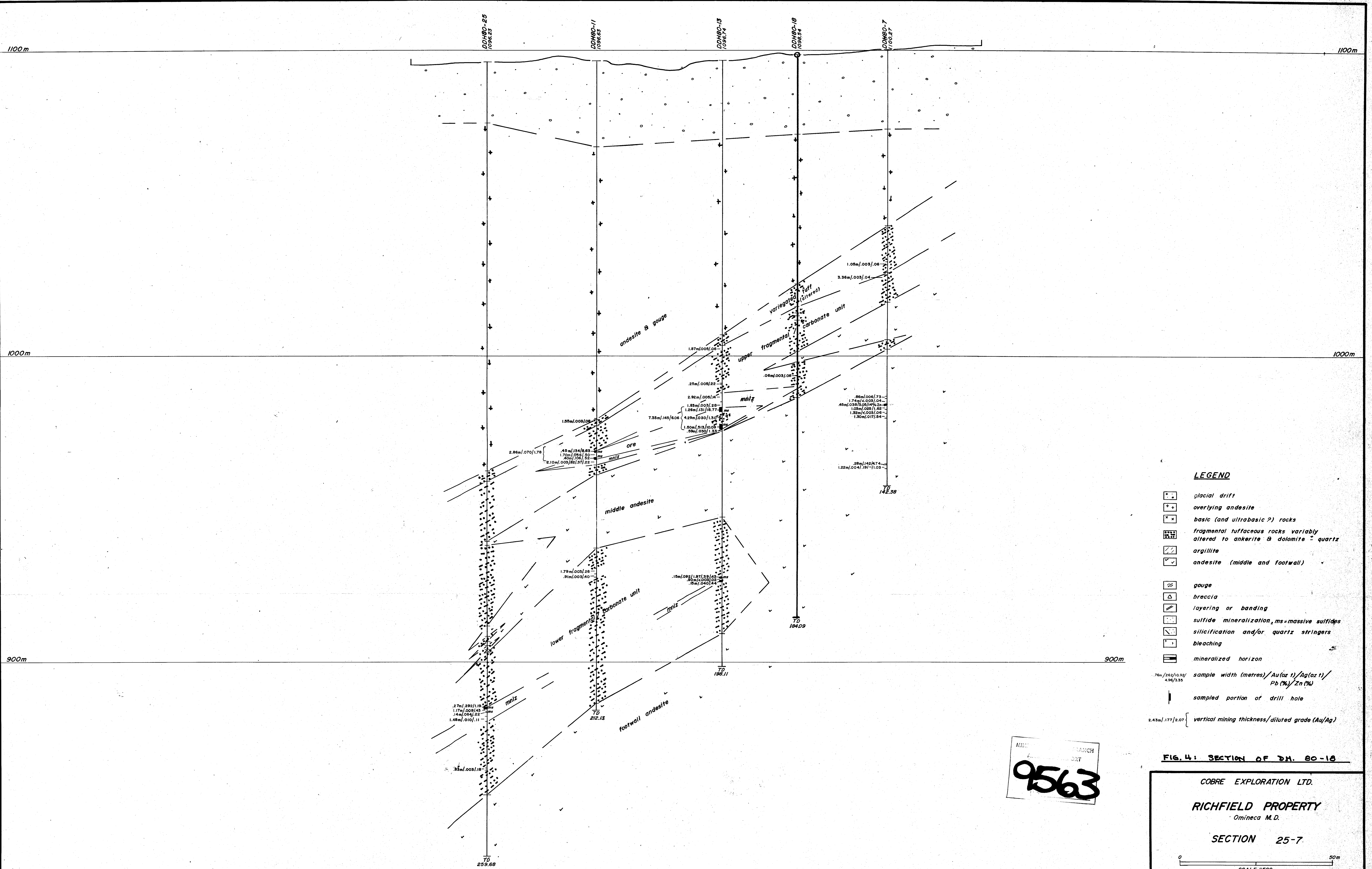
4700 E

4800 E

4900 E

BASELINE: 5000 E





LEGEND

- glacial drift
- overlying andesite
- basic (and ultrabasic?) rocks
- fragmental tuffaceous rocks variably altered to ankerite & dolomite - quartz
- argillite
- andesite (middle and footwall)
- gouge
- breccia
- layering or banding
- sulfide mineralization, ms-massive sulfides
- silicification and/or quartz stringers
- bleaching
- mineralized horizon
- sample width (metres) / Au(oz t) / Ag(oz t) / Pb(%) / Zn(%)
- sampled portion of drill hole
- vertical mining thickness / diluted grade (Au/Ag)

FIG. 4: SECTION OF DH. 80-18

COBRE EXPLORATION LTD.
RICHFIELD PROPERTY
 Omineca M.D.
SECTION 25-7

0 50m
 SCALE 1:500
 (metres)

Jan, 1981 Min-Ex Services Ltd.

SEARCH
 9563