4450

Geochemical Report

on

HDP 1-27 Mineral Claims

on

Riddeck Gr near Owen Lake, Omineca M.D.

Long. 126° 40' W. and Lat. 54° 05' N.

Field Work from May 13 - May 23, 1973

on behalf of

Conquest Exploration Limited

R. Wolfe, P.Eng.

June 7, 1973

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FIGURES

Geochemical Report

on

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Introduction

The following report describes the work on the HDP group in the spring of 1973.

Geophysical surveys in 1971 and 1972 were described in reports by G.E. White and R.W. Woolverton P.Eng. Recommendations included closely spaced soil sampling with particular emphasis on mercury analysis to trace possible vein swarms similar to those being mined by the Bradina Joint Venture. All work prior to 1973 was summarized in a report by R. Wolfe P.Eng. dated September 5, 1972.

Line Grid

The western part of the property where most of the previous work has been concentrated consists of rolling hayfields. Picket lines are unfortunately removed by ploughs and/or cattle. Consequently a new line grid had to be established.

A baseline was chained and marked every 100 feet in a northwesterly direction (340°). Crosslines spaced 400 feet were picketed every 100 feet in a southwesterly direction (250°). See fig. 3-6.

Geochemical Soil Survey

a) Soil development

The black, organic Ao horizon is very well developed and averages about 10 inches in thickness. The A1 horizon is absent and the B horizon consists of brown glacial till. About 5% of the samples were clay.

b) Field procedure

Sample depth averaged between 1 and 1½ feet. The sample was placed in a brown soil envelope and kept cool in a plastic container in a packsack. Field notes were kept as to location and pertinent environmental information. At night, the samples were dried in a cool place to prevent any evaporation of mercury.

c) Results

Silver and Mercury results consist entirely of background values with the possible exception of 140 ppb Hg at line 0 + 00, 13 W. This result, however cannot be considered statistically significant.

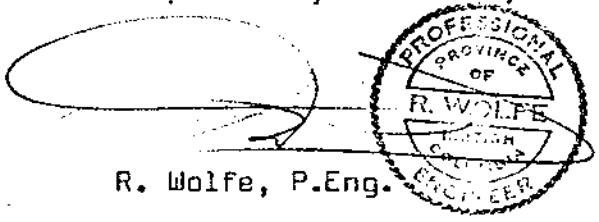
Arsenic and Zinc results were plotted on logarithmic probability graph paper to obtain a cumulative frequency percent curve. Zinc values over 475 ppm can be considered possibly anomalous and ditto with Arsenic over 17 ppm.

The number of values in this category are too few to be considered significant and no correlation between the metals exists.

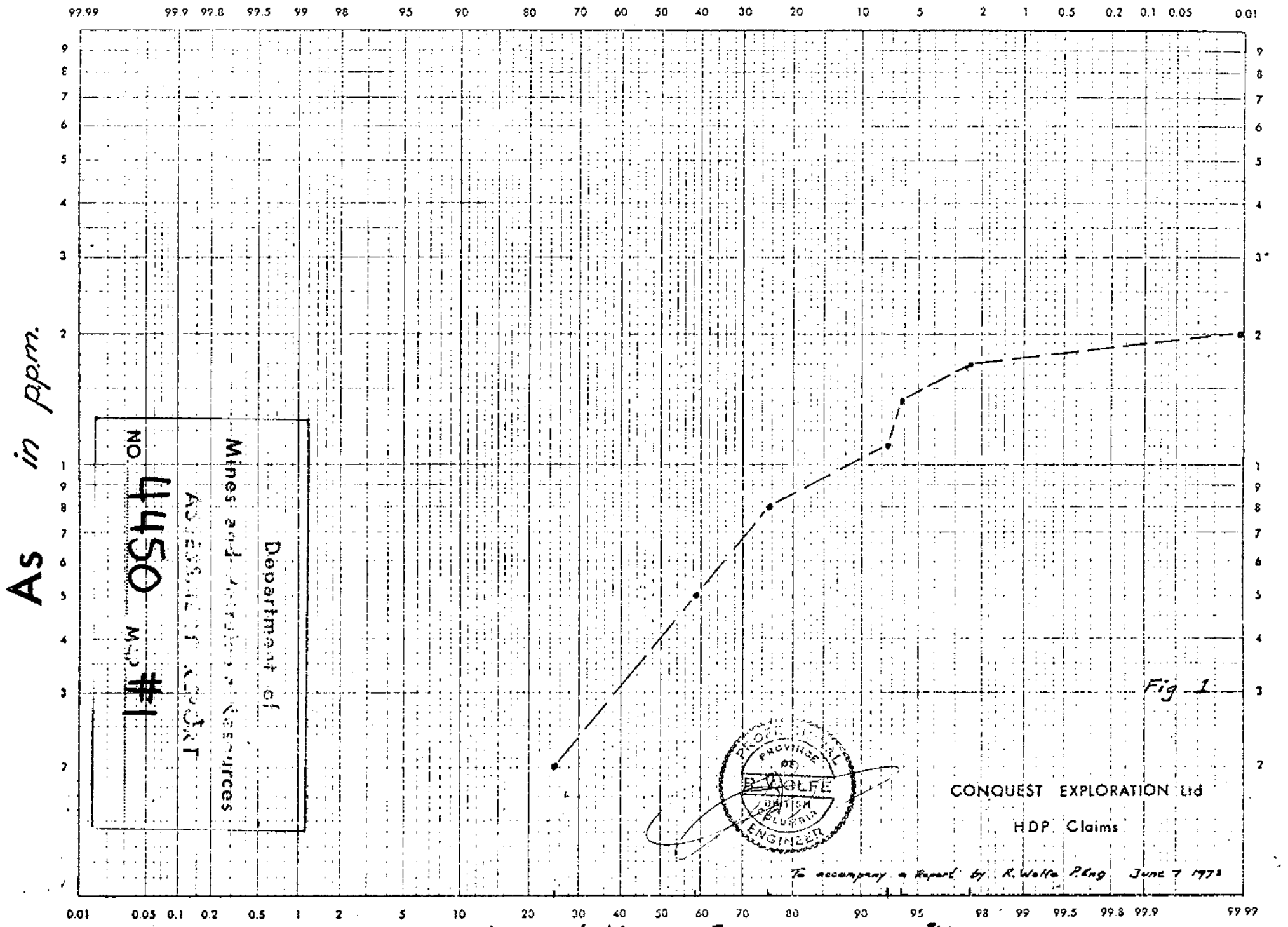
Conclusion

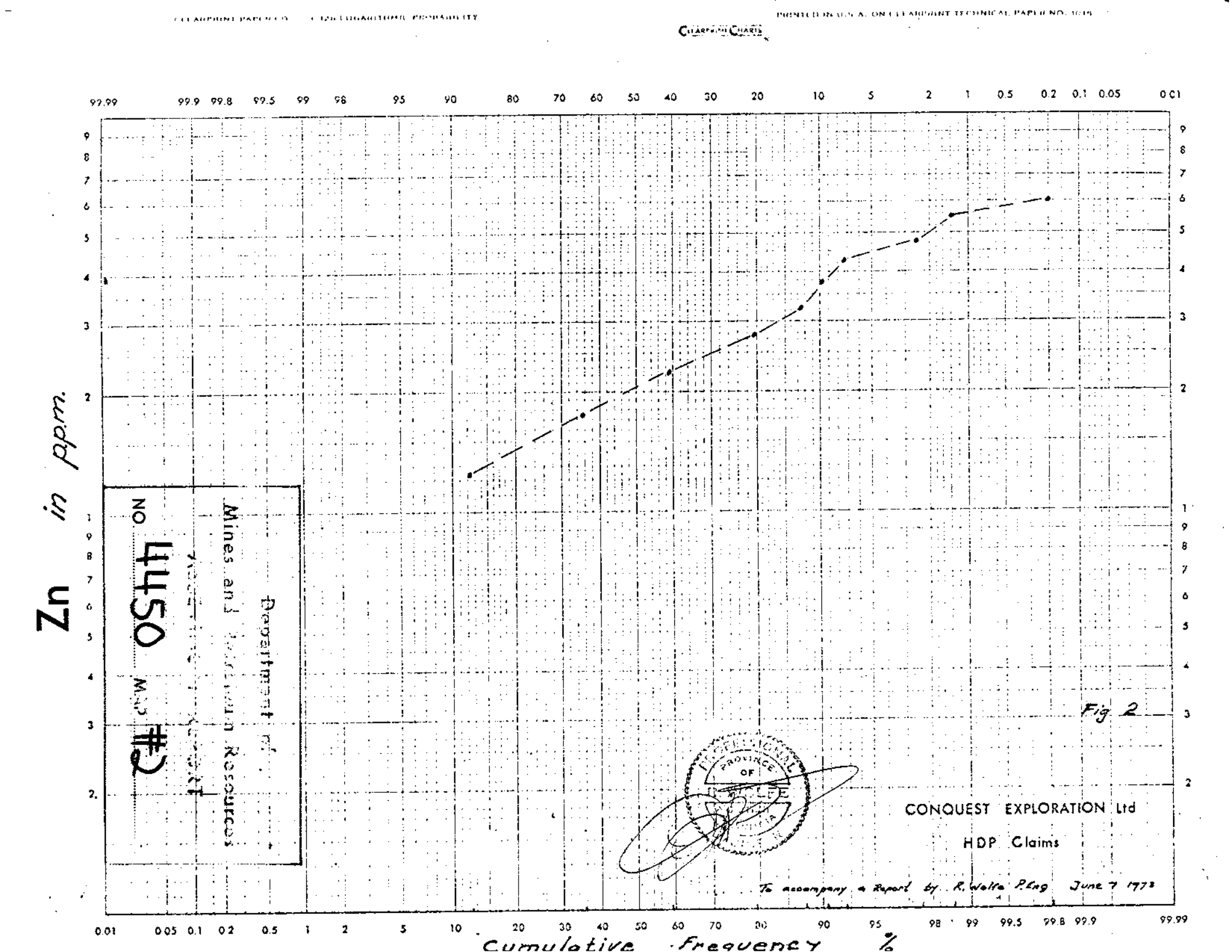
The geochemical soil survey did not outline any obviously anomalous conditions and the attempt to discover possible vein swarms by this method has been unsuccessful.

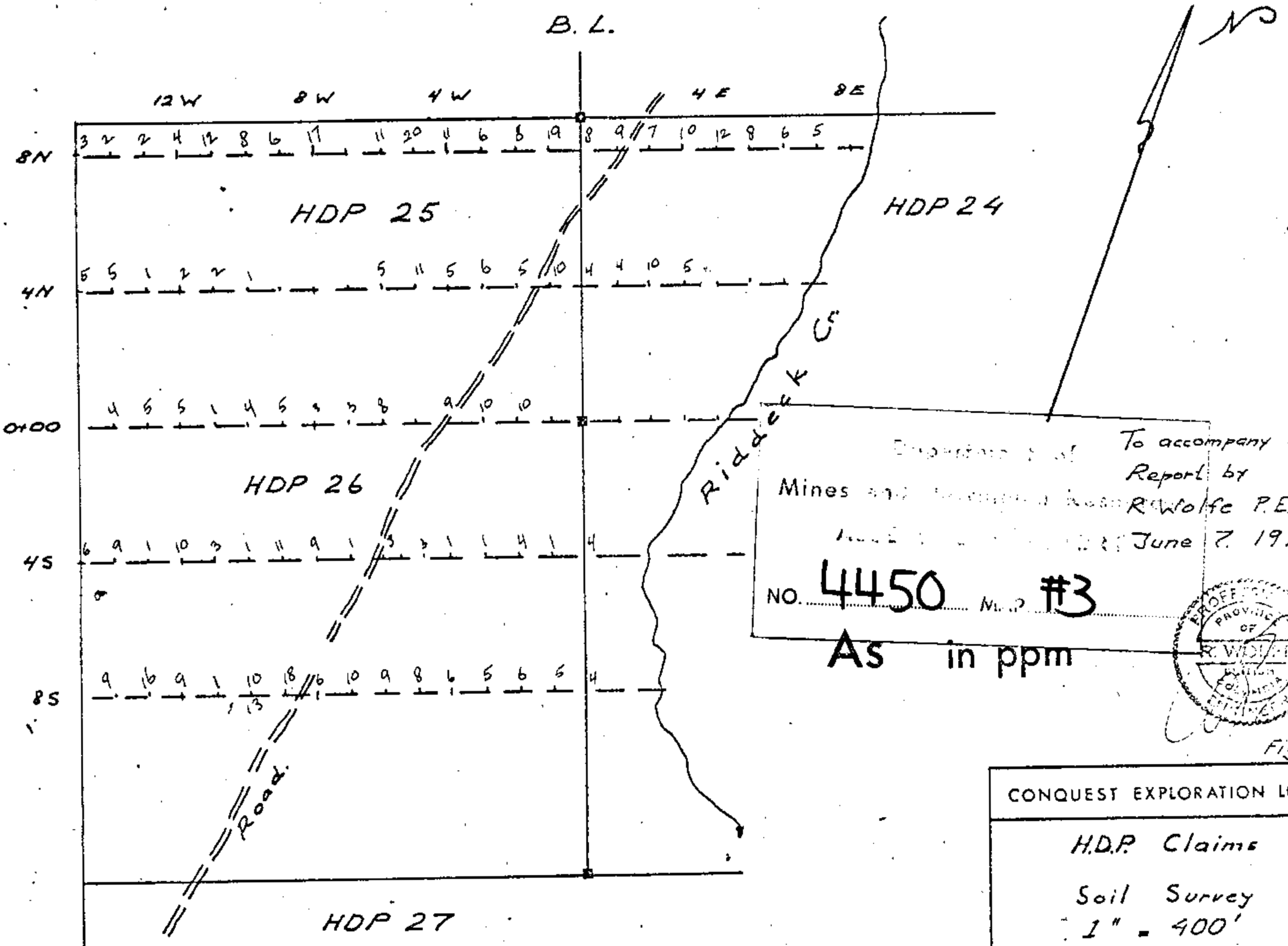
Respectfully submitted,



R. Wolfe, P.Eng.




99.99 99.9 99.8 99.5 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01
Zn in ppm.
Cumulative Frequency %
0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.5 99.8 99.9 99.99
Department of Mines and Petroleum Resources
NO. 4450
MAP #2
Fig 2
CONQUEST EXPLORATION Ltd
HDP Claims
To accompany a Report by R. Wolfe P.Eng June 7 1973



To accompany a Report by R. Wolfe P. Eng. June 7 1973

Mines
NO. 4450 MAP #3

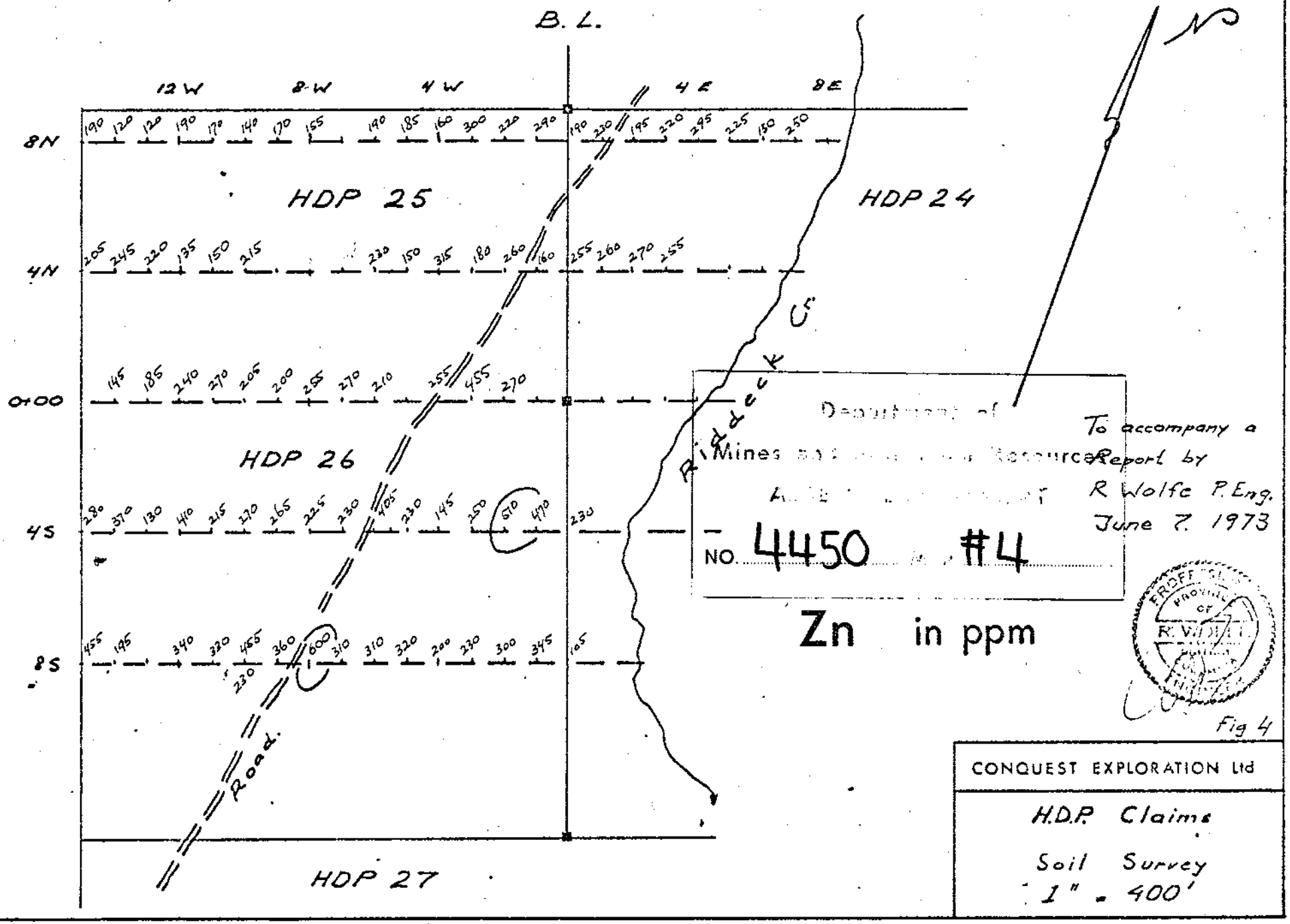
Fig 3

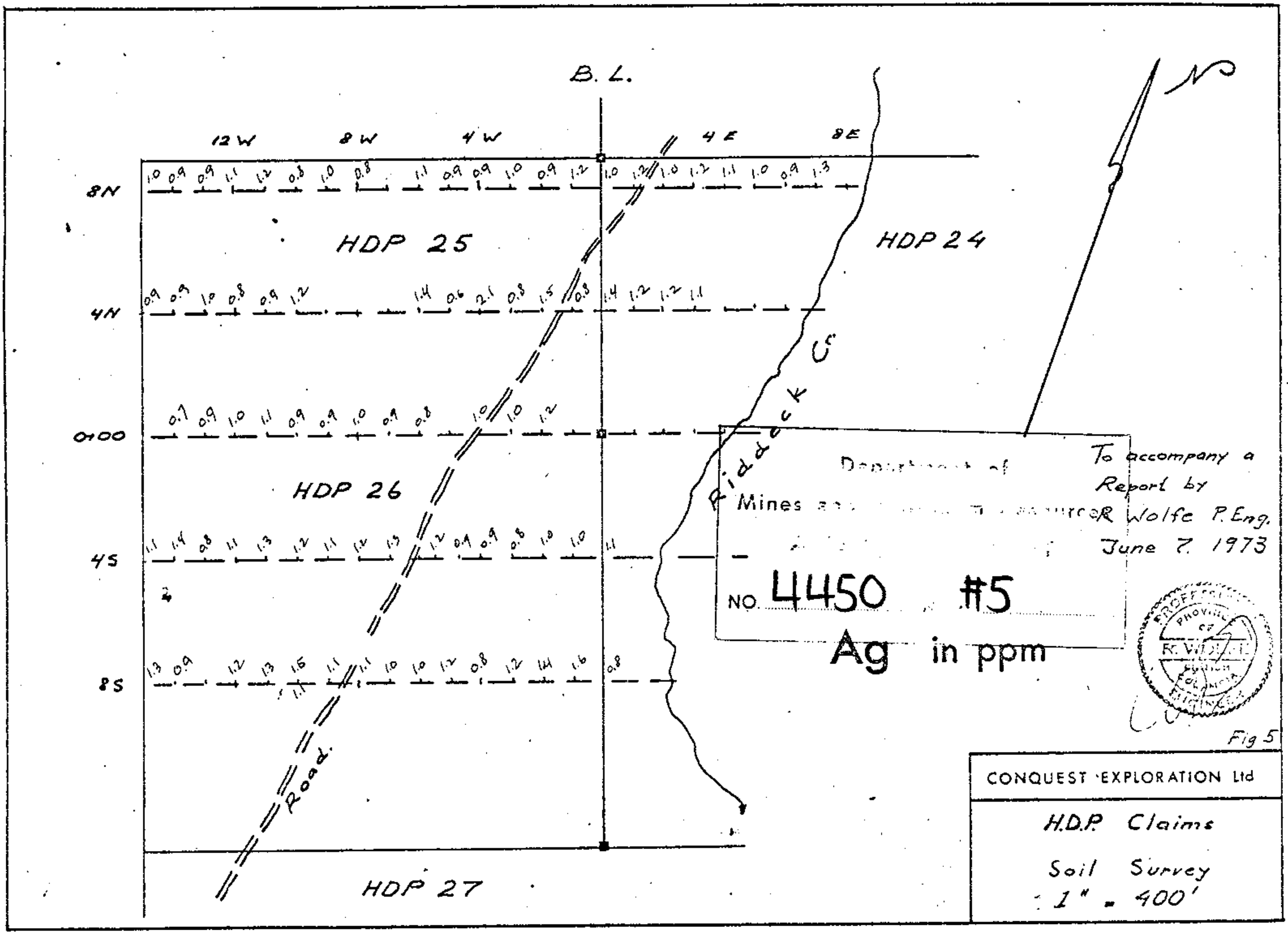
CONQUEST EXPLORATION Ltd

H.D.P. Claims

Soil Survey

1" = 400'


B. L.
12 W
8 W
4 W
4 E
8 E
8N
4N
0+00
4S
8S
HDP 25
HDP 24
HDP 26
HDP 27
Ridge
Road
190 120 120 190 170 140 170 155 190 185 160 300 220 290 190 230 195 220 295 225 150 250
205 245 220 135 150 215 230 150 315 180 260 160 255 260 270 255
145 185 240 270 206 200 255 270 210 255 455 270
280 370 130 410 215 270 265 225 230 405 230 145 250 510 470 230
455 195 340 320 465 360 600 310 310 320 200 230 300 345 105
230
Department of
Mines
NO. 4450 #4
Zn in ppm
To accompany a
Report by
R Wolfe P.Eng.
June 7. 1973
Fig 4
CONQUEST EXPLORATION Ltd
H.D.P. Claims
Soil Survey
1" = 400'


B. L.
12 W
8 W
4 W
4 E
8 E
N
8N
4N
0+00
4S
8S
HDP 25
HDP 24
HDP 26
HDP 27
Road.
Riddock Cr
Department of
Mines
NO. 4450 #5
Ag in ppm
To accompany a
Report by
R Wolfe P. Eng.
June 7 1973
Fig 5
CONQUEST EXPLORATION Ltd
H.D.P. Claims
Soil Survey
1" = 400'

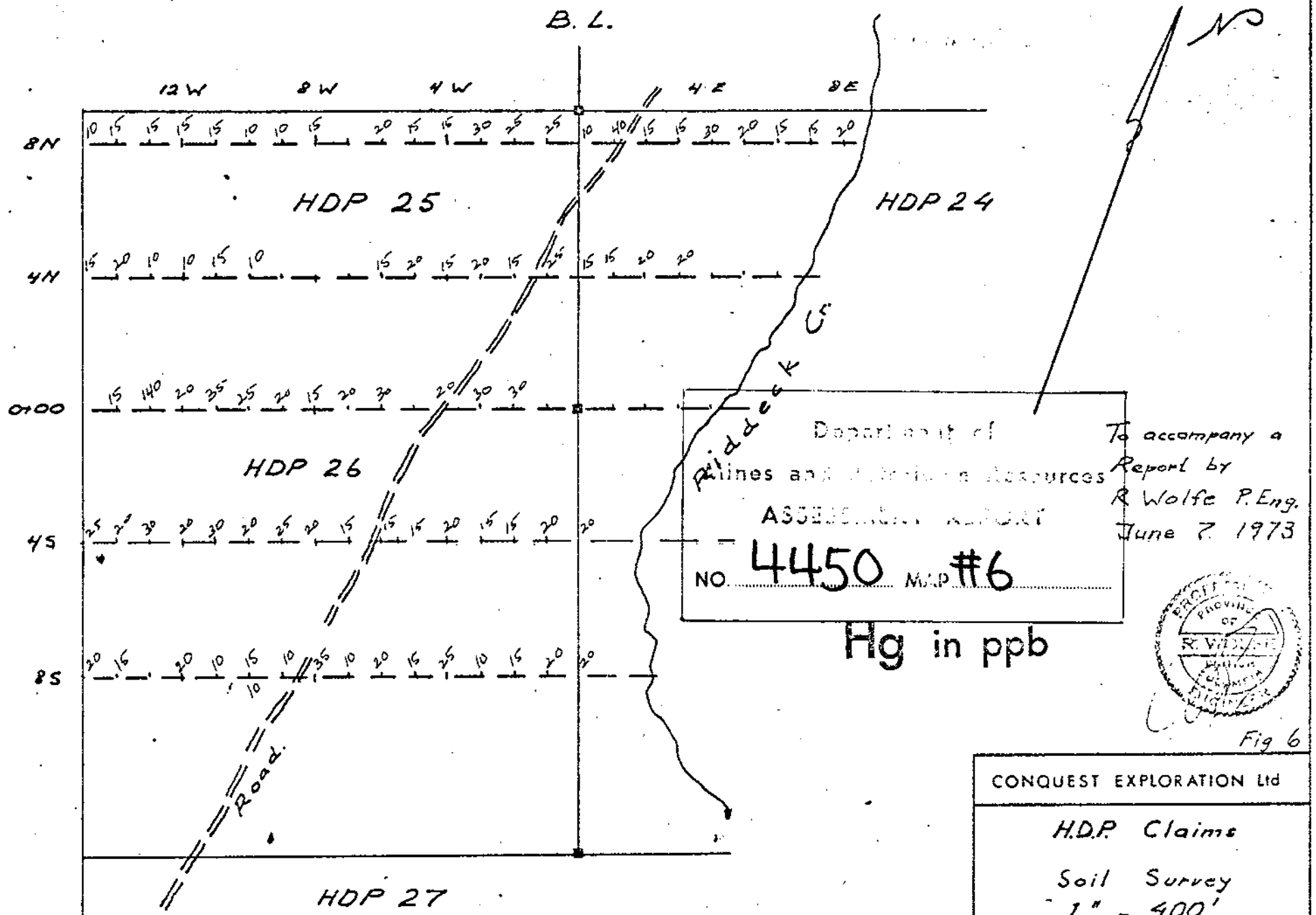


Fig 6

CONQUEST EXPLORATION Ltd

H.D.P. Claims

Soil Survey

1" = 400'

APPENDIX I

Personnel and Dates Worked

Name	Dates (May)	Position		
R. E. Harris	13, 14	Linecutter	30/day	$ 60.00
Rick Harris	13, 14	"	"	60.00
Stan Crockford	13, 14, 19, 20, 21, 22	"	"	180.00
R. Wolfe	18, 19, 20, 21, 22, 23, 24, 25, June 6, 7	Engineering, collecting samples, interpretation and report.	136/day	1,360.00
				$1,660.00

TOTAL COST BREAKDOWN

Truck rental 6 days @ $20.00	$ 120.00
Gas and service	58.00
Accommodation 14 man days @ $20.00	280.00
Wages	1,660.00
Equipment and supplies	20.00
Analyses 82 samples @ $5.90	484.00
Drafting typing - copying	140.00
Administration, etc.	140.00
TOTAL	$2,902.00

Declared before me at the City of Atlin, in the Province of British Columbia, this 9th day of June 1913, A.D.

J. P. Phillips Sub-mining Recorder

A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.

GEOCHEMICAL ANALYSIS BY MIN-EN LABORATORIES LTD.

Samples are processed by Min-En Laboratories Ltd. at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95° soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for 6 hours with HNO_3 and $HClO_4$ mixture.

After cooling samples are diluted to standard volume. The solutions are analysed by Atomic Absorption Spectrophotometers.

Copper, lead, zinc, silver, cadmium, cobalt, nickel and manganese are analysed using the CH_2-H_2-Air flame combination but the molybdenum determination is carried out by C_2H_2-N_2O gas mixture directly or indirectly (depending on the sensitivity and detection limit required) on these sample solutions.

For Arsenic analysis a suitable aliquote is taken from the above 1 gram sample solution and the test is carried out by Gutzit method using Ag CS_2N $(C_2H_5)_2$ as a reagent. The detection limit obtained is 1. ppm.

Fluorine analysis is carried out on a 200 miligram sample. After fusion and suitable dilutions the fluoride ion concentration in rocks or soils samples are measured quantitatively by using fluorine specific ion electrode. Detection limit of this test is 10 ppm F.

COMPANY: Montgomery-Wolfe

PROJECT No.: H.D.P.

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

File No. 250

DATE: May 30, 1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppm
0-2W				270			1.2		30	10		
3W				455			1.0		30	10		
4W				255			1.0		20	9		
6W				210			0.8		30	8		
7W				270			0.9		20	3		
8W				255			1.0		15	3		
9W				200			0.9		20	5		
10W				205			0.9		25	4		
11W				270			1.1		35	1		
12W				240			1.0		20	5		
13W				185			0.9		140	5		
0-14W				145			0.7		15	4		

CERTIFIED BY John Martyn

COMPANY: Montgomery-Wolfe

PROJECT No.: H.D.P.

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

File No. 250

DATE: May 30, 1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppm
4S-2WA				470			1.0		20	< 1		
2WB				510			1.0		15	4		
3W				250			0.8		15	< 1		
4W				145			0.9		15	< 1		
5W				230			0.9		20	3		
6W				405			1.2		15	3		
7W				230			1.3		15	1		
8W				225			1.2		20	9		
9W				265			1.1		25	11		
10W				270			1.2		20	< 1		
11W				215			1.3		30	3		
12W				410			1.1		20	10		
13W				130			0.8		30	<1		
14W				370			1.4		20	9		
4S-15W				280			1.1		25	6		

CERTIFIED BY John Murphy

COMPANY: Montgomery-Wolfe

PROJECT No.: H.D.P.

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

FILE No. 250

DATE: May 30, 1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppm
4N-1E				260			1.2		15	4		
2E				270			1.2		20	10		
4N-3E				255			1.1		20	5		
4N-BL				255			1.4		15	4		
4S-BL				230			1.1		20	4		
8S-BL				105			0.8		20	4		
4N-1W				160			0.8		25	10		
2W				260			1.5		15	5		
3W				180			0.8		20	6		
4W				315			2.1		15	5		
5W				150			0.6		20	11		
6W				230			1.4		15	5		
10W				215			1.2		10	1		
11W				150			0.9		15	2		
12W				135			0.8		10	2		
13W				220			1.0		10	1		
14W				245			0.9		20	5		
4N-15W				205			0.9		15	5		

CERTIFIED BY John Martyn

COMPANY: Montgomery-Wolfe

PROJECT No.: H.D.P.

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

File No. 250

DATE: May 30, 1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppm
8N-00				190			1.0		10	8		
8N-1E				230			1.2		40	9		
2E				195			1.0		15	7		
3E				220			1.2		15	10		
4E				295			1.1		30	12		
5E				225			1.0		20	8		
6E				130			0.9		15	6		
8N-7E				250			1.3		15	5		
8S-1W				345			1.6		20	5		
2W				300			1.4		15	6		
3W				230			1.2		10	5		
4W				200			0.8		25	6		
5W				320			1.2		15	8		
6W				310			1.0		20	9		
7W				310			1.0		10	10		
8W				600			1.1		35	6		
9W				360			1.1		10	18		
10WA depth 1½'				455			1.5		15	10		
10WB depth 3'				230			1.1		10	13		
11W				330			1.3		10	1		
12W				340			1.2		20	9		
14W				195			0.9		15	16		
8S-15W				455			1.3		20	9		

CERTIFIED BY John M Mitchell

COMPANY: Montgomery-Wolfe

PROJECT No.: H.D.P.

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

File No. 250

DATE: May 30, 1973.

Sample Number	Mo pppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppm
8N-1W				290			1.2		25	19		
2W				220			0.9		25	8		
3W				300			1.0		30	6		
4W				160			0.9		15	11		
5W				185			0.9		15	20		
6W				190			1.1		20	11		
8W				155			0.8		15	17		
9W				170			1.0		10	6		
10W				140			0.8		10	8		
11W				170			1.2		15	12		
12W				190			1.1		15	4		
13W				120			0.9		15	2		
14W				120			0.9		15	2		
8N-15W				190			1.0		10	3		

CERTIFIED BY John Martyn