

TABLE OF CONTENTS

COVER	
PREFACE	
FOREWORD	
INTRODUCTION	
CONTENTS	
PLATES	
1. GEOLOGY AND ORE DEPOSITS	
<i>Duncan R. Derry</i>	
2. AN OVERVIEW OF MINING GEOPHYSICS	
<i>Harold O. Seigel</i>	
3. GEOCHEMISTRY OVERVIEW	
<i>R.W. Boyle</i>	
4. AIRBORNE ELECTROMAGNETIC METHODS	
<i>A. Becker</i>	
5. GROUND ELECTROMAGNETIC METHODS AND BASE METALS	
<i>Stanley H. Ward</i>	
6. RECENT DEVELOPMENTS IN THE USE AND INTERPRETATION OF DIRECT-CURRENT RESISTIVITY SURVEYS	
<i>George V. Keller</i>	
7. MAGNETIC METHODS APPLIED TO BASE METAL EXPLORATION	
<i>Peter J. Hood, M.T. Holroyd, and P.H. McGrath</i>	
8. GRAVITY METHOD APPLIED TO BASE METAL EXPLORATION	
<i>J.G. Tanner and R.A. Gibb</i>	
9. THE INDUCED-POLARIZATION EXPLORATION METHOD	
<i>John S. Sumner</i>	
10a. GAMMA RAY SPECTROMETRIC METHODS IN URANIUM EXPLORATION - AIRBORNE INSTRUMENTATION	
<i>Q. Bristow</i>	
10b. GAMMA RAY SPECTROMETRIC METHODS IN URANIUM EXPLORATION - THEORY AND OPERATIONAL PROCEDURES	
<i>R.L. Grasty</i>	
10c. GAMMA RAY SPECTROMETRIC METHODS IN URANIUM EXPLORATION - APPLICATION AND INTERPRETATION	
<i>P.G. Killeen</i>	
11. MODERN TRENDS IN MINING GEOPHYSICS AND NUCLEAR BOREHOLE LOGGING METHODS FOR MINERAL EXPLORATION	
<i>Jan A. Czubek</i>	
12. BOREHOLE LOGGING TECHNIQUES APPLIED TO BASE METAL ORE DEPOSITS	
<i>W.E. Glenn and P.H. Nelson</i>	
13. FOCUS ON THE USE OF SOILS FOR GEOCHEMICAL EXPLORATION IN GLACIATED TERRANE	
<i>B. Bølviken and C.F. Gleeson</i>	
14. THE APPLICATION OF SOIL SAMPLING TO GEOCHEMICAL EXPLORATION IN NONGLACIATED REGIONS OF THE WORLD	
<i>P.M.D. Bradshaw and I. Thomson</i>	
15. LITHOGEOCHEMISTRY IN MINERAL EXPLORATION	
<i>G.J.S. Govett and Ian Nichol</i>	
16. THE APPLICATION OF ATMOSPHERIC PARTICULATE GEOCHEMISTRY IN MINERAL EXPLORATION	
<i>A.R. Barringer</i>	
17. ANALYTICAL METHODOLOGY IN THE SEARCH FOR METALLIC ORES	
<i>F.N. Ward and W.F. Bondar</i>	
18a. ADVANCES IN BOTANICAL METHODS OF PROSPECTING FOR MINERALS PART I - ADVANCES IN GEOBOTANICAL METHODS	
<i>Helen L. Cannon</i>	
18b. ADVANCES IN BOTANICAL METHODS OF PROSPECTING FOR MINERALS PART II - ADVANCES IN BIOGEOCHEMICAL METHODS OF PROSPECTING	
<i>Robert R. Brooks</i>	
19. STREAM SEDIMENT GEOCHEMISTRY	
<i>W.T. Meyer, P.K. Theobald, Jr., and H. Bloom</i>	

20. LAKE SEDIMENT GEOCHEMISTRY APPLIED TO MINERAL EXPLORATION
W.B. Coker, E.H.W. Hornbrook, and E.M. Cameron
- 21a. APPLICATION OF HYDROGEOCHEMISTRY TO THE SEARCH FOR
BASE METALS
W.R. Miller
- 21b. APPLICATION OF HYDROGEOCHEMISTRY TO THE SEARCH FOR URANIUM
W. Dyck
22. REMOTE SENSING IN THE SEARCH FOR METALLIC ORES:
A REVIEW OF CURRENT PRACTICE AND FUTURE POTENTIAL
Alan F. Gregory
23. COMPUTER COMPILATION AND INTERPRETATION OF GEOPHYSICAL DATA
Allan Spector and Wilf Parker
24. COMPUTER-BASED TECHNIQUES IN THE COMPILATION, MAPPING
AND INTERPRETATION OF EXPLORATION GEOCHEMICAL DATA
R.J. Howarth and L. Martin
25. SOME ASPECTS OF INTEGRATED EXPLORATION
J.A. Coope and M.J. Davidson
26. EXPLORATION DISCOVERIES, NORANDA DISTRICT, QUEBEC
J. Boldy
27. EXPLORATION CASE HISTORIES OF THE ISO AND NEW INSCO OREBODIES
W.M. Telford and Alex Becker
28. THE DISCOVERY AND DEFINITION OF THE LESSARD BASE METAL
DEPOSIT, QUEBEC
Laurie E. Reed
29. IZOK LAKE DEPOSIT, NORTHWEST TERRITORIES, CANADA:
A GEOPHYSICAL CASE HISTORY
George Podolsky and John Slankis
30. GEOPHYSICAL EXPLORATION AT THE PINE POINT MINES LTD. ZINC-LEAD
PROPERTY, NORTHWEST TERRITORIES, CANADA
Jules J. Lajoie and Jan Klein
31. ON THE APPLICATION OF GEOPHYSICS IN THE INDIRECT EXPLORATION
FOR COPPER SULPHIDE ORES IN FINLAND
M. Ketola
32. GEOPHYSICAL AND GEOCHEMICAL METHODS USED IN THE DISCOVERY
OF THE ISLAND COPPER DEPOSIT, VANCOUVER ISLAND, BRITISH COLUMBIA
K.E. Witherly
33. GEOPHYSICAL AND GEOCHEMICAL CASE HISTORY OF THE
QUE RIVER DEPOSIT, TASMANIA, AUSTRALIA
S.S. Webster and E.H. Skey
34. GEOPHYSICS AND GEOCHEMISTRY IN THE DISCOVERY AND DEVELOPMENT
OF THE LA CARIDAD PORPHYRY COPPER DEPOSIT, SONORA, MEXICO
D.F. Coolbaugh
35. EXPLORATION OF THE REAL DE ANGELES SILVER-LEAD-ZINC
SULPHIDE DEPOSIT, ZACATECAS, MEXICO
Lee R. Stoiser and José Bravo Nieto
36. APPLICATION OF X-RAY DIFFRACTION ALTERATION AND GEOCHEMICAL
TECHNIQUES AT SAN MANUEL, ARIZONA
D.M. Hausen
37. EXPLORATION FOR MASSIVE SULPHIDES IN DESERT AREAS USING
THE GROUND PULSE ELECTROMAGNETIC METHOD
Duncan Crone
38. THE APPLICATION OF AIRBORNE AND GROUND GEOPHYSICAL TECHNIQUES
TO THE SEARCH FOR MAGNETITE-QUARTZITE ASSOCIATED BASE-METAL
DEPOSITS IN SOUTHERN AFRICA
Geoff Campbell and R. Mason
39. GEOPHYSICAL AND GEOCHEMICAL METHODS FOR MAPPING
GOLD-BEARING STRUCTURES IN NICARAGUA
R.S. Middleton and E.E. Campbell
40. AN OUTLINE OF MINING GEOPHYSICS AND GEOCHEMISTRY IN CHINA
Hsia Kuo-chih et. al.

AUTHOR INDEX