

## CONTENTS OF VOLUME III.

### PART I.

Notes on certain rare Copper Minerals from Utah; by W. F. Hillebrand and H. S. Washington, . . . . .	3-16
A Modified Method for determining Zinc; by Wm. P. Headden, Colorado Volcanic Craters; by P. H. van Diest, . . . . .	17-18 19-23
Preliminary Notes on the Eruptions of the Spanish Peaks Region (with map); by R. C. Hills, . . . . .	24-34
Furnace Products; by Richard Pearce, . . . . .	35
Notes on some unusual Occurrences of Galena Crystals; by F. F. Chisolm, . . . . .	36-37
Mineralogical Notes; by W. F. Hillebrand, . . . . .	38-47
The Quaternary of the Denver Basin; by Geo. L. Cannon, Jr. . . . .	48-70
The Genesis of Ore Deposits; by Richard Pearce, . . . . .	71-72
Two Sulphantimonites from Colorado; by L. G. Eakins, . . . . .	73-76
Notes on the Ore Occurrence of the Red Mountain District; by T. E. Schwarz, . . . . .	77-85
On some Stratigraphical and Structural Features of the Country about Denver, Colorado; by George H. Eldridge, . . . . .	86-118
The Denver Tertiary Formation; by Whitman Cross, . . . . .	119-133
Determination of Silicic Acid by Converting it into Silicic Fluoride; by Wm. P. Headden, . . . . .	134-135
On the Determination of Iron and Copper in Ores and Furnace Products; by F. Guiterman, . . . . .	136-139
On the Tertiary Dinosauria found in Denver Beds; by Geo. L. Cannon, Jr., . . . . .	140-147
The recently discovered Tertiary Beds of the Huerfano River Basin, Colorado (with map); by R. C. Hills, . . . . .	148-164
Address of the Retiring President, R. C. Hills, December 17th, 1888, . . . . .	165-184

### OBITUARY.

Dr. S. F. Rouse, . . . . .	185
----------------------------	-----

### PART II.

Remarks on the Plication of the Coal Measures in Southeastern Colorado and Northeastern New Mexico; by P. H. van Diest, . . . . .	185-190
Informal Notes on Dinosauria; by Geo. L. Cannon, Jr., . . . . .	190
Etched Beryls from Mount Antero, Colorado; by R. C. Hills, . . . . .	191-192
Analysis of Descloizites from New Localities; by W. F. Hillebrand, . . . . .	193-199
Notes on Aboriginal Remains near Denver, Colorado; by Geo. L. Cannon, Jr., . . . . .	200-204
The Plasticity of Glacier Ice; by John F. Main, . . . . .	205-210
Informal Notes; Specimen from Seven-Thirty Mine, by Richard Pearce, . . . . .	210
Stereo-Chemistry; by Charles S. Palmer, . . . . .	211-214

## IV

## CONTENTS.

Informal Notes on a Horn-core ; by Geo. L. Cannon, Jr., . . . . .	215
Informal Notes on formations in Eastern Colorado ; by Geo. L. Cannon, Jr., . . . . .	215-216
Additional Notes on the Huerfano Beds ; by R. C. Hills, . . . . .	217-223
Additional Notes on the Eruptions of the Spanish Peak Region ; by R. C. Hills, . . . . .	224-227
Notes on the Occurrence of Sesquisulphate of Iron, in New Mexico ; by Richard Pearce, . . . . .	228
Sublimed Tellurium ; by Richard Pearce, . . . . .	229
A Preliminary Paper on the Eruptive Rocks of Boulder County and Adjoining Counties, Colorado ; by Charles S. Palmer, . . . . .	230-236
Address of Retiring President ; Richard Pearce, . . . . .	237-244

## PART III.

Production of Carbonate of Soda from the Alkali Waters of Owen's Lake ; by Ernest LeNeve Foster, . . . . .	245-252
Identification of Dinosaurs from the Denver Group ; by Geo. L. Cannon, Jr., . . . . .	253-254
A Remarkable Crystalline Compound of Arsenious and Sulphuric Acids ; by Richard Pearce, . . . . .	255-256
Informal Notes on some Vanadinite Crystals ; by R. C. Hills, . . . . .	257
Informal Notes on Tellurium and Bismuth ; by Richard Pearce, . . . . .	257
Informal Notes on Pseudomorphous Crystals of Malachite ; by R. C. Hills, . . . . .	258
Iron-Ore Beds in the Province of Santiago, Cuba ; by F. F. Chisolm, . . . . .	259-263
Gold Deposits in the Quartzite Formation of Battle Mountain, Colorado ; by F. Guiterman, . . . . .	264-268
Geology of the Rosita Hills, Custer Co., Colorado ; by Whitman Cross, . . . . .	269-279
Fulgerite from the Spanish Peaks ; by R. C. Hills, . . . . .	280-286
On the Nature of the Chemical Elements ; by Chas. S. Palmer, . . . . .	287-307
The Geology of Perry Park, Colorado ; by Geo. L. Cannon, Jr., . . . . .	308-315
A Boulder County Mine ; by John B. Farish, . . . . .	316-322
Columbite and Tantalite from the Black Hills, S. D. ; by Wm. P. Headden, . . . . .	323-346
Notes on the Discovery and Occurrence of Tin Ores in the Black Hills, S. D. ; by Wm. P. Headden, . . . . .	347-350
On the Quartz-Porphry of Flagstaff Hill, Boulder Co. ; by Chas. S. Palmer and Henry Fulton, . . . . .	351-358
Orographic and Structural Features of Rocky Mountain Geology ; by R. C. Hills, (Address of the Retiring President,) . . . . .	359-458

## ERRATA.

- Page 30. Line 7 from top for "orogenetic" read "orogenic."  
 Page 192. Last line for "trace of prismatic striation" read "trace of etched prismatic striation."