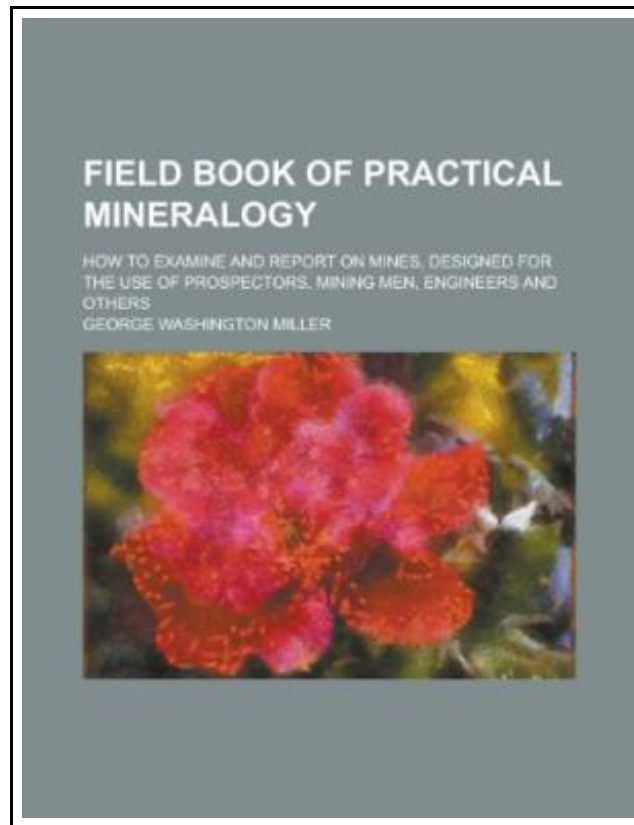


# Field Book of Practical Mineralogy; How to Examine and Report on Mines, Designed for the Use of Prospectors, Mining Men, Engineers and Others



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***(Audrey Lowe I)***

## FIELD BOOK OF PRACTICAL MINERALOGY; HOW TO EXAMINE AND REPORT ON MINES, DESIGNED FOR THE USE OF PROSPECTORS, MINING MEN, ENGINEERS AND OTHERS



Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1901 edition. Excerpt: .yield the odor of phosphuretted hydrogen. IN THE WET WAY. Orthophosphates.--1. Magnesia mixture precipitates white  $MgNH_4PO_4$ . 2.  $AgNO_3$  precipitates light-yellow  $Ag_3PO_4$ , soluble in  $HNO_3$  and  $NH_4OH$ . 3.  $(NH_4)_2MoO_4 + HNO_3$  precipitates yellow ammonium phospho-molybdate; composition variable. The precipitate is soluble in  $NH_4OH$ , in excess of phosphoric acid, and is prevented by organic substances, such as tartaric acid. Pyrophosphate.---1.  $MgSO_4$  precipitates white  $Mg_2P_2O_7$ , soluble in an excess of either solution.  $NH_4OH$  fails to precipitate it from these solutions. On boiling it separates again. By this reaction pyro can be detected in the presence of phosphoric acid. 2.  $(NH_4)_2S + MoO_3 + HNO_3$  does not give a precipitate until orthophosphate is formed. Most of the pyrophosphates of the heavy metals (Ag an exception) are soluble in alkali pyrophosphates (distinction from orthophosphates). 3.  $AgNO_3$  precipitates white  $Ag_3P_2O_7$ , soluble in  $HNO_3$  and  $NH_4OH$ . Addition of an alkali aids the precipitation. Metaphosphoric Acid.--1. Magnesia mixture gives no precipitate. 2.  $(NH_4)_2MoO_4 + HNO_3$  gives no precipitate. 3.  $AgNO_3$  precipitates white  $Ag_3PO_4$ , soluble in alkali metaphosphate solutions (distinction from pyrophosphates). 4. Albumen gives a precipitate (distinction from ortho and pyrophosphates). 5. Fusion with  $Na_2CO_3$  converts meta and pyro into orthophosphates. POTASSIUM, K. WITH THE BLOWPIPE. Flame.--Violet, except borates and phosphates. Interfering Elements. Sodium.--(a) The flame through blue glass will be violet or blue; (6) A bead of borax and a little boracic acid made brown by nickel will become blue on addition of a potassium compound. Lithium.--The flame through green glass will be bluish green. IN THE...

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