

**United States Nuclear Regulatory Commission Official Hearing Exhibit**

**In the Matter of:** POWERTECH USA, INC.  
(Dewey-Burdock In Situ Uranium Recovery Facility)



**ASLBP #:** 10-898-02-MLA-BD01  
**Docket #:** 04009075  
**Exhibit #:** NRC-154-00-BD01  
**Admitted:** 8/19/2014  
**Rejected:**  
**Other:**

**Identified:** 8/19/2014  
**Withdrawn:**  
**Stricken:**

NRC-154

Submitted: July 15, 2014

**DICTIONARY** of

**GEOLOGICAL**

**T E R M S**

**THIRD EDITION**

**PREPARED BY  
THE AMERICAN  
GEOLOGICAL INSTITUTE**



**ROBERT L. BATES and  
JULIA A. JACKSON, Editors**

NRC-154  
Submitted: July 15, 2014

This *Dictionary* is dedicated to  
William H. Matthews III and Robert E. Boyer,  
editors of the 1976 edition.

AN ANCHOR BOOK  
PUBLISHED BY DOUBLEDAY  
a division of Bantam Doubleday Dell Publishing Group, Inc.  
1540 Broadway, New York, New York 10036

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*Library of Congress Cataloging in Publication Data*  
Dictionary of geological terms.

I. Geology—Dictionaries. I. Bares, Robert  
Latimer, 1912- . II. Jackson, Julia A., 1939-  
III. American Geological Institute.  
QE5.D55 1983 550'.3'21 82-45315  
ISBN 0-385-18101-9 (pbk.)

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PRINTED IN THE UNITED STATES OF AMERICA

FIRST EDITION: 1957, SECOND EDITION: 1960,

DOLPHIN BOOKS EDITION: 1962,

ANCHOR BOOKS EDITIONS: 1976, 1984

20 19 18 17

Submitted: July 15, 2014

- and/or shell fragments. It yields lime on calcination.
- limnetic** (lim-net'-ic) 1. Relating to the pelagic or open part of a body of fresh water. 2. Said of lake-dwelling organisms and communities that are free from direct dependence on the bottom or shore.—Syn: *limnic*.
- limnic** (lim'-nic) 1. Pertaining to a body of fresh water. Cf: *lacustrine*. 2. *limnetic*. 3. Said of coal deposits formed inland in fresh-water basins or peat bogs, as opposed to *paralic* deposits.
- limnobios** (lim-no-bi'-os) The life of the fresh-water environment.
- limnology** (lim-nol'-o-gy) The scientific study of fresh waters, especially of ponds and lakes. It deals with the physical, chemical, meteorological, and esp. biological and ecological conditions pertaining to such bodies of water.
- limonite** (li'-mo-nite) A field term for a group of brown amorphous hydrous ferric oxides. Limonite is a common secondary material, formed by weathering (oxidation) of iron-bearing minerals; it may also occur as a precipitate in bogs or lakes. It occurs as coatings, earthy masses, and in a variety of other forms, and is the coloring material of yellow clays and soils. Limonite is a minor ore of iron. See also: *bog iron ore*. Syn: *brown iron ore*.
- limy** 1. Containing a significant amount of lime or limestone; e.g. "limy soil". 2. Containing calcite; e.g. "limy dolomite" (a calcitic dolomite rock).
- Lindgren's volume law** The principle that during formation of ore by replacement, there is no change in rock volume or form. Syn: *volume law*.
- lineage** (lin'-e-age) A series of genera and species which form an evolutionary series, each one being ancestral to its successor in the geological sequence; a line of evolution.
- lineament** (lin'-e-a-ment) A linear topographic feature of regional extent that is believed to reflect crustal structure. Examples are fault lines, aligned volcanoes, and straight stream courses. Non-recommended syn: *linear*.
- linear** (lin'-e-ar) adj. Arranged in a line or lines; pertaining to the line-like character of some object or objects.—n. A nonrecommended syn. of *lineament*.
- linear element** A fabric element having one dimension that is much greater than the other two. Lineations are the common linear elements. Cf: *planar element*; *equant element*.
- lineation** (lin-e-a'-tion) A general, nongeneric term for any linear structure in a rock, e.g. flow lines, stretched clasts, slickensides, preferred alignment of fossils, or axes of folds.
- line of section** A line on a map, indicating the position of a *profile section* or *cross section*.
- lingulid** (lin'-gu-lid) Any lingulacean brachiopod belonging to the family Lingulidae, characterized mainly by an elongate oval to spatulate outline and a biconvex