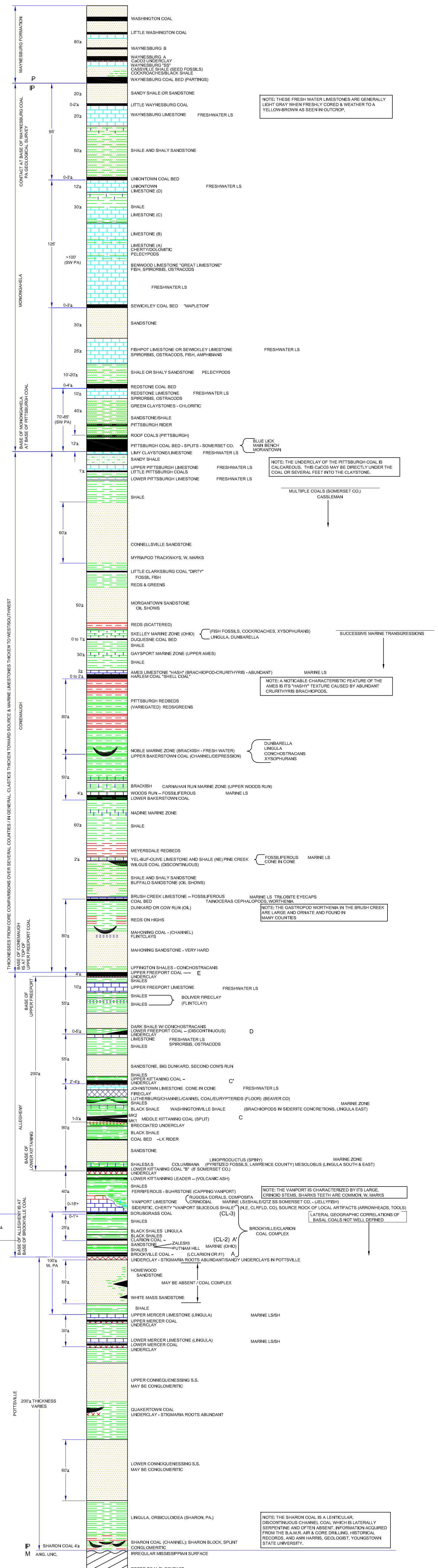


**GENERALIZED GEOLOGIC COLUMNAR SECTION**  
**BITUMINOUS COAL MEASURES**  
 APPALACHIAN PLATEAU, WESTERN PENNSYLVANIA  
 COMPILATIONS & REVISIONS FROM DIAMOND CORE DRILLING  
 LOGS & RECORDS OF:  
 WILLIAM J. MARKS, GEOLOGIST  
 AND THE PENNSYLVANIA GEOLOGICAL SURVEY COAL GEOLOGISTS  
 FOR  
 THE BUREAU OF ABANDONED MINE RECLAMATION  
 (NO VERTICAL SCALE)

**NOTE:**  
 THIS COLUMNAR SECTION IS A GENERALIZED STRATIGRAPHIC SEQUENCE OF THE COAL BEARING MEASURES ON THE APPALACHIAN PLATEAU IN WESTERN PENNSYLVANIA. IT IS NOT INTENDED TO BE A SITE SPECIFIC REFERENCE.  
 THIS COLUMNAR IS DYNAMIC, MEANING AS THE B.A.M.R. EXPLORATORY CORE DRILLING CONTINUES, MODIFICATIONS & REVISIONS ARE EXPECTED.  
 THE FOSSILS THAT ARE INDICATED ON THIS COLUMNAR ARE FOSSILS OF SPECIAL INTEREST OR FOSSILS THAT ARE CHARACTERISTIC OF PARTICULAR UNITS OVER A WIDE-SPREAD GEOGRAPHIC AREA. THEY ARE NOT MEANT TO REPRESENT INDEX FOSSILS.  
 FIRST DRAWING  
 DRAWN BY: MICHAEL J. CEKADA JR. AUGUST 1999  
 REVISED BY: JOHN ROBBINS MAY 2000



NOTE: THESE FRESH WATER LIMESTONES ARE GENERALLY LIGHT GRAY WHEN FRESHLY CORED & WEATHER TO A YELLOW-BROWN AS SEEN IN OUTCROP.

NOTE: THE UNDERLAY OF THE PITTSBOROUGH COAL IS CALCAREOUS. THIS COAL MAY BE DIRECTLY UNDER THE COAL OR SEVERAL FEET INTO THE CLAYSTONE.

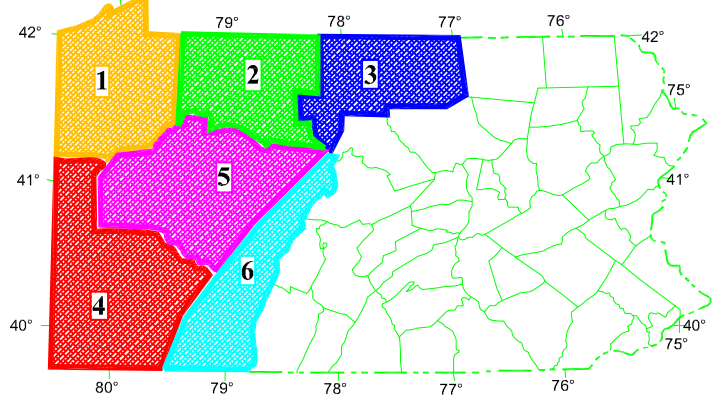
NOTE: A NOTICABLE CHARACTERISTIC FEATURE OF THE AMES IS ITS "HASHY" TEXTURE CAUSED BY ABUNDANT CRURITHYRIS BRACHIOPODS.

NOTE: THE GASTROPOD WORTHENIA IN THE BRUSH CREEK ARE LARGE AND ORNATE AND FOUND IN MANY COUNTIES

NOTE: THE VANPORT IS CHARACTERIZED BY ITS LARGE CRINOID STEMS, SHARKS TEETH ARE COMMON, W. MARKS

NOTE: THE SHARON COAL IS A LENTICULAR, DISCONTINUOUS CHANNEL COAL WHICH IS LATERALLY SERPENTINE AND OFTEN ABSENT. INFORMATION ACQUIRED FROM THE B.A.M.R. AIR & CORE DRILLING, HISTORICAL RECORDS, AND ANN HARRIS, GEOLOGIST, YOUNGSTOWN STATE UNIVERSITY.

**LOCATION OF AREAS**



**PA GEOLOGICAL SURVEY OIL & GAS DIVISION M-H-P UNCONFORMABLE CONTACT**

