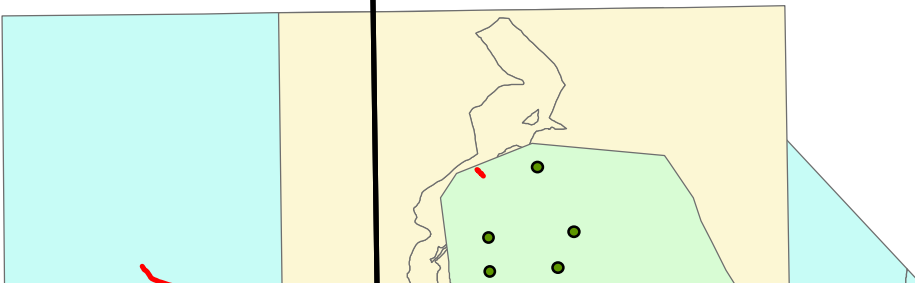
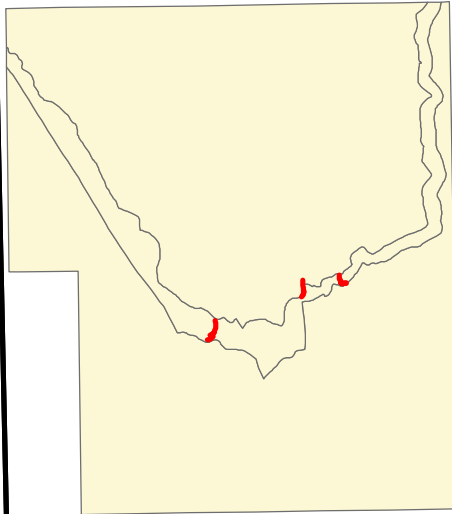


Obemeyer Mountain location



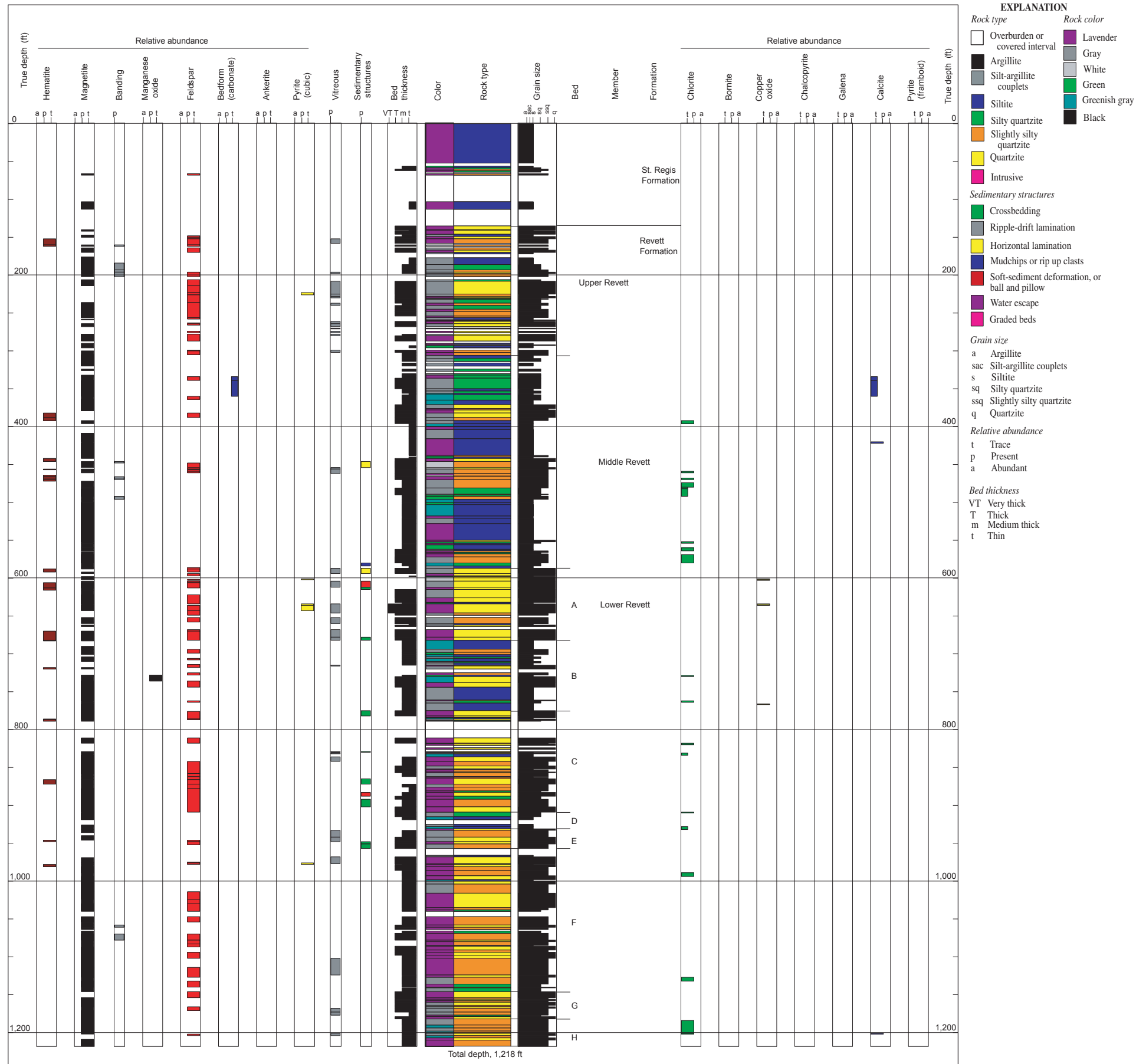


Figure A-2. Wee Lake 1, 2 measured section

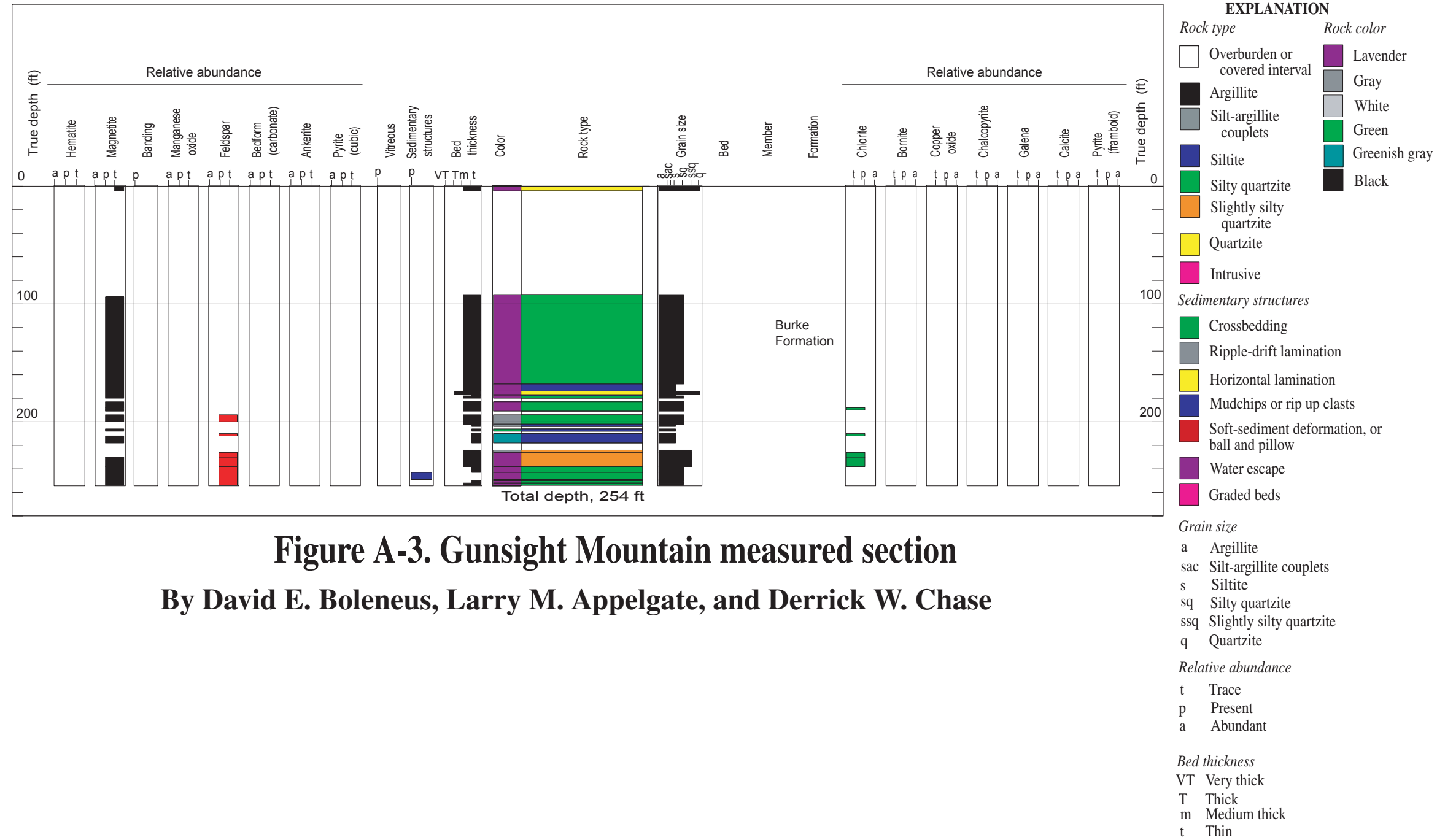
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



U.S. DEPARTMENT OF THE INTERIOR  
U.S. GEOLOGICAL SURVEY

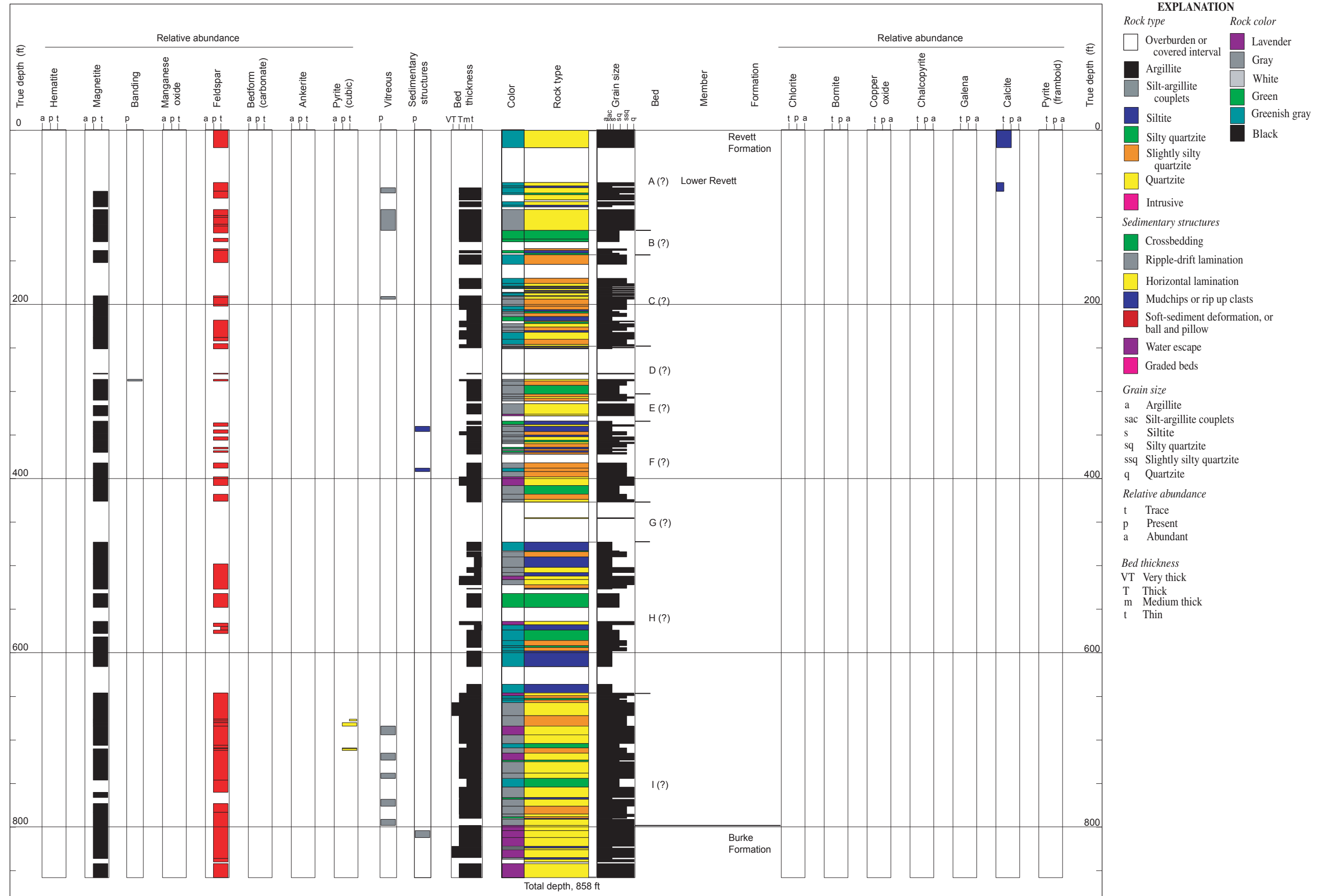
SCIENTIFIC INVESTIGATIONS REPORT 2005-5231

FIGURE A-3

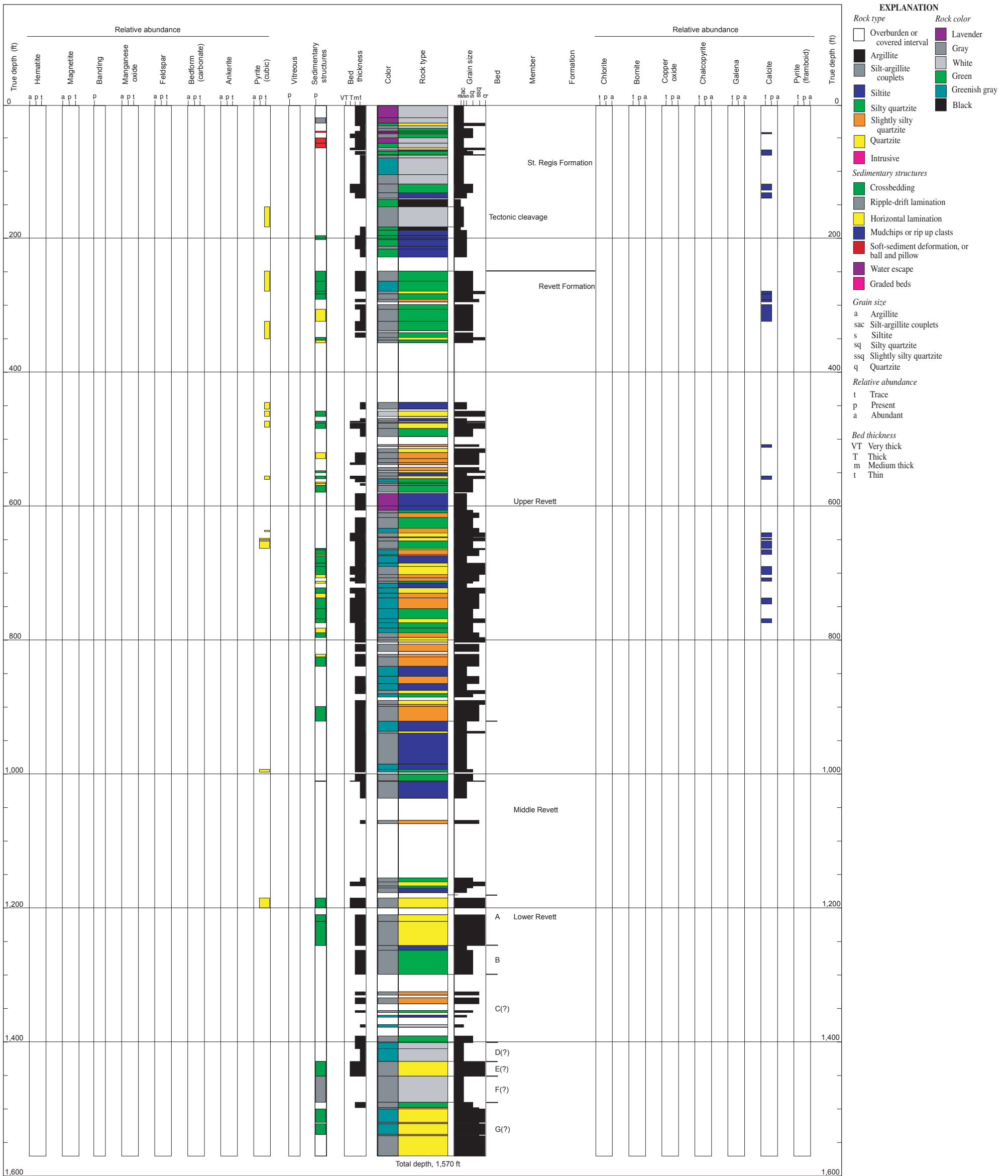


**Figure A-3. Gunsight Mountain measured section**

**By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase**



**Figure A-4. Kilbrennan Creek measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-5. Horseshoe Lake measured section**

By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

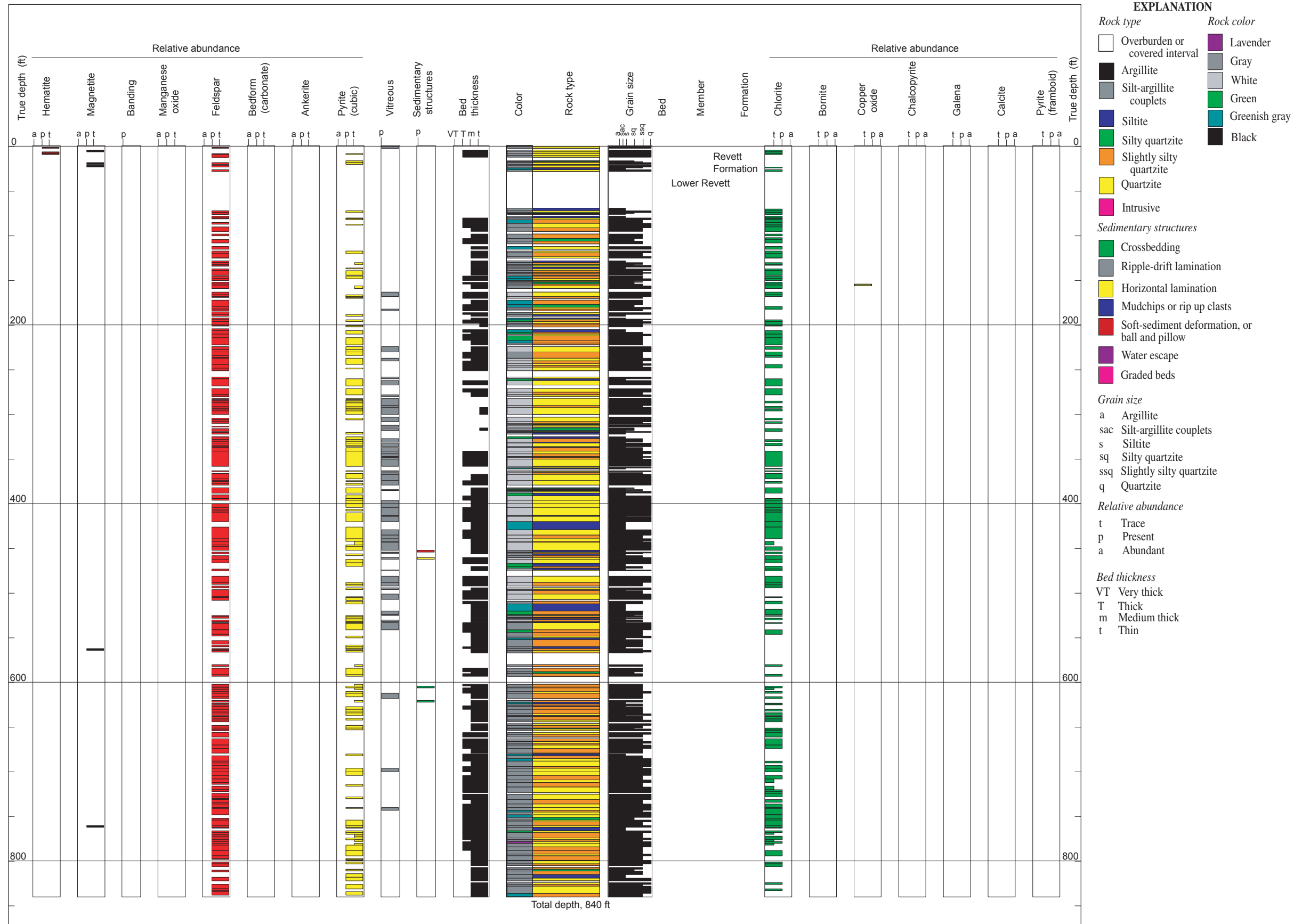


Figure A-6. Granite Creek measured section

By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

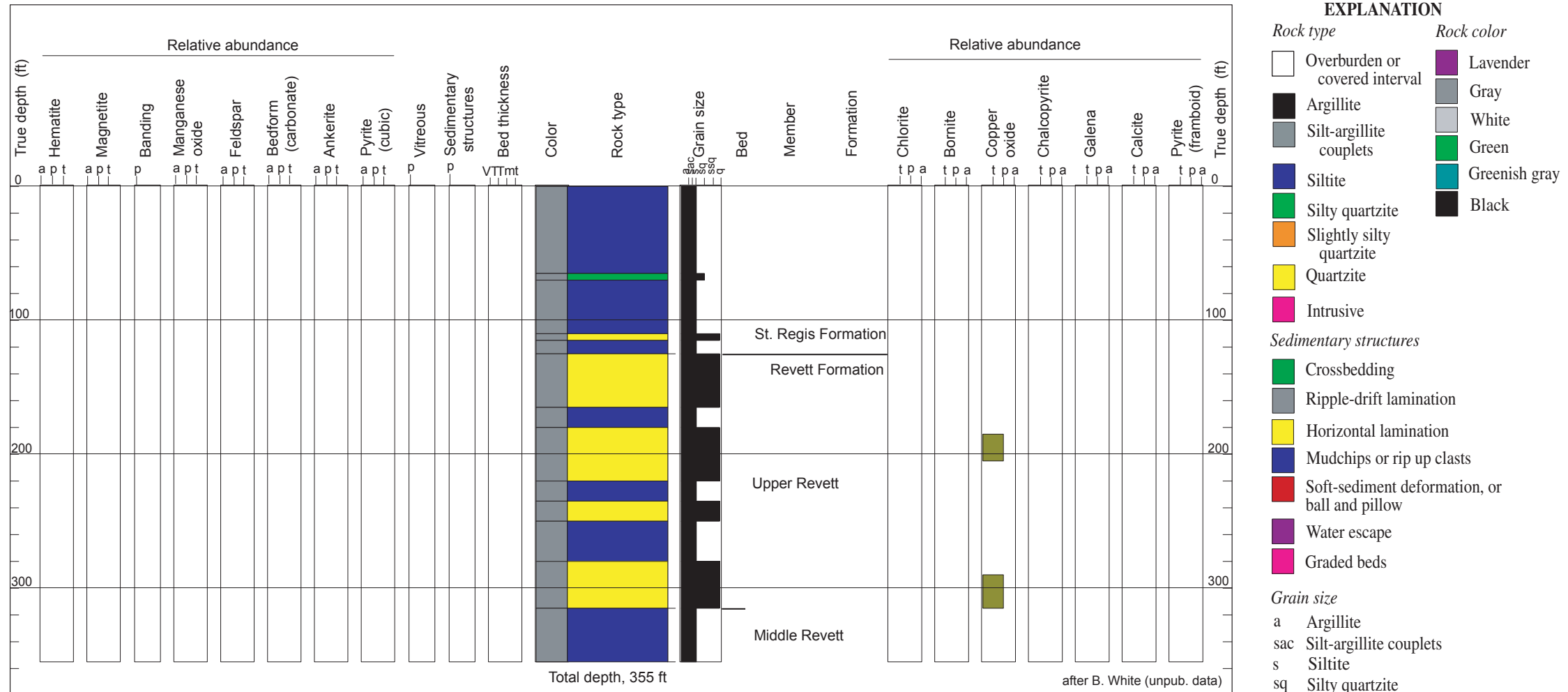


**Figure A-7. DDH FC-4 (Fairway Creek) diamond-drill-hole section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

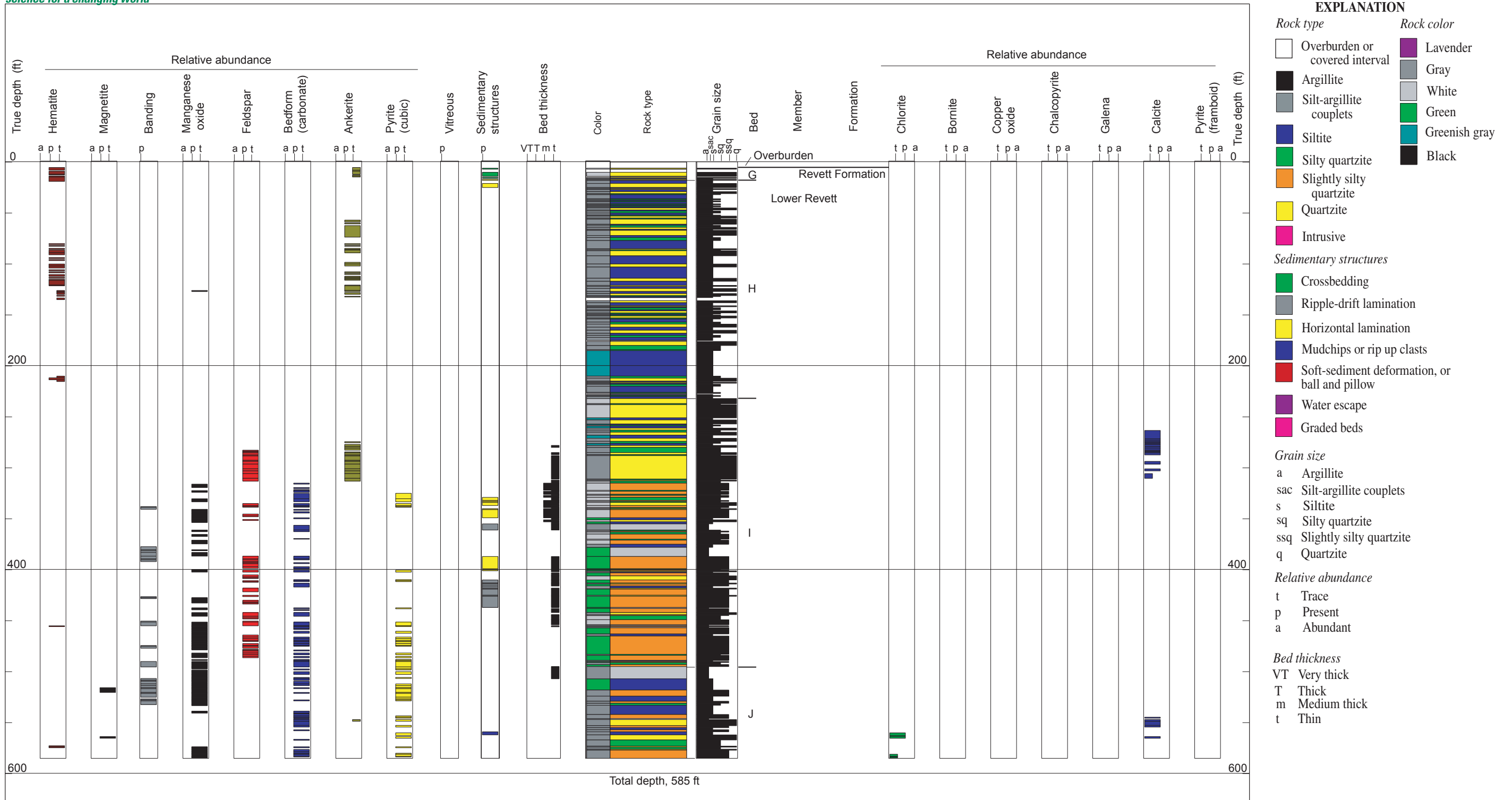


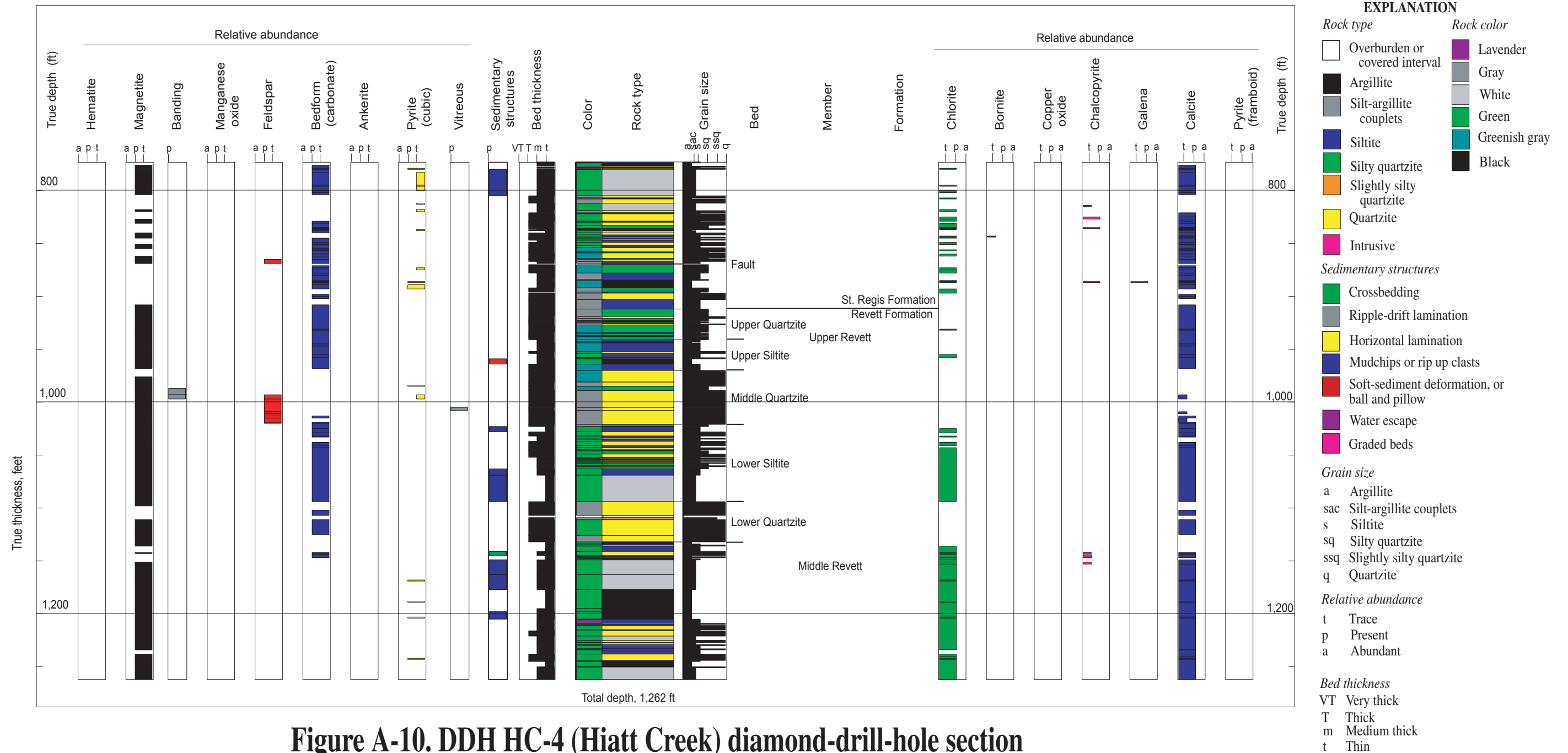


FIGURE A-8



**Figure A-8. Stanley Peak measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase





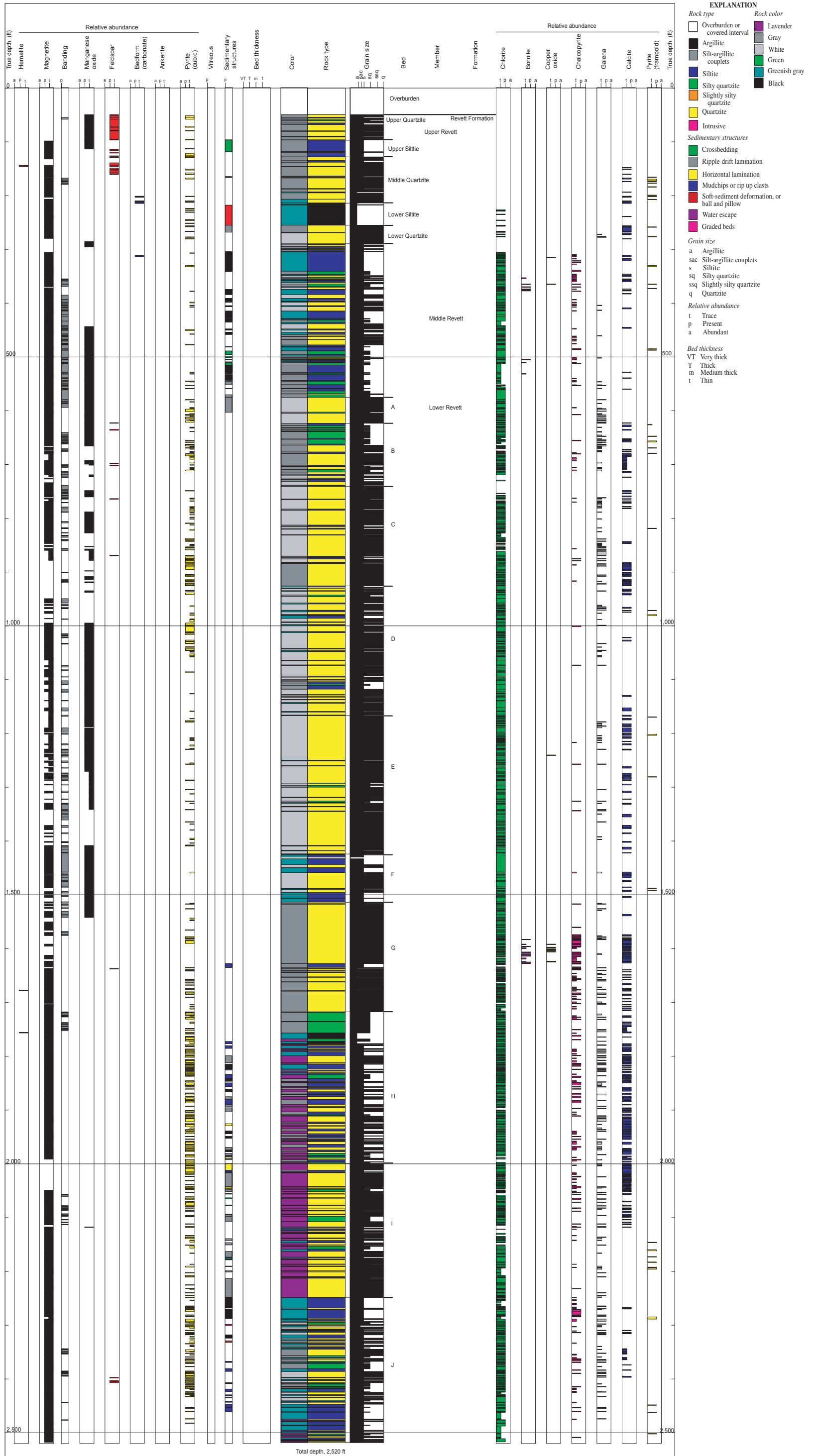
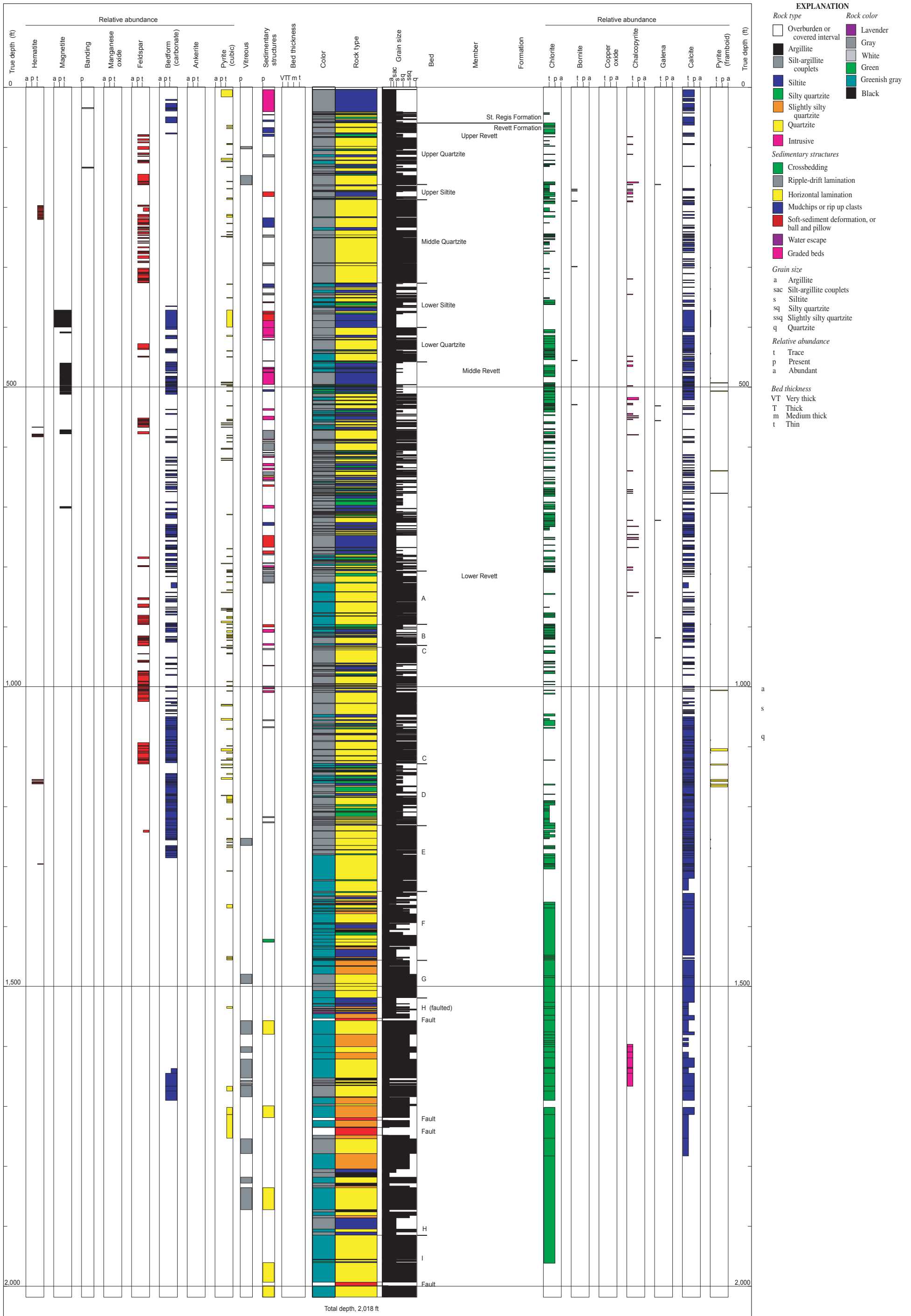
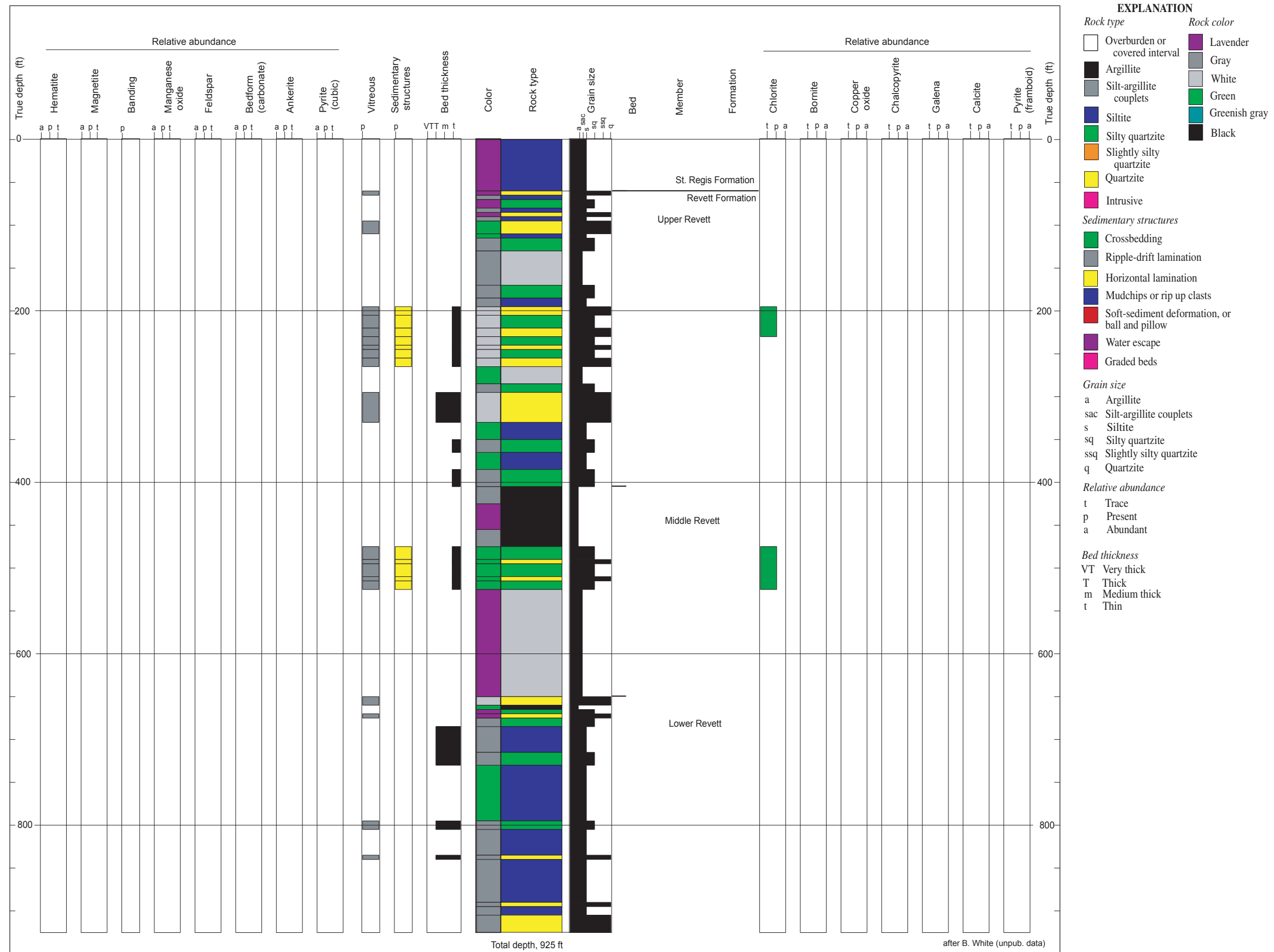


Figure A-11. DDH SL-136 (Spar Lake) diamond-drill-hole section  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-12. DDH CC-1 (Cub Creek) diamond-drill-hole section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

FIGURE A-13



**Figure A-13. Clark Fork measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

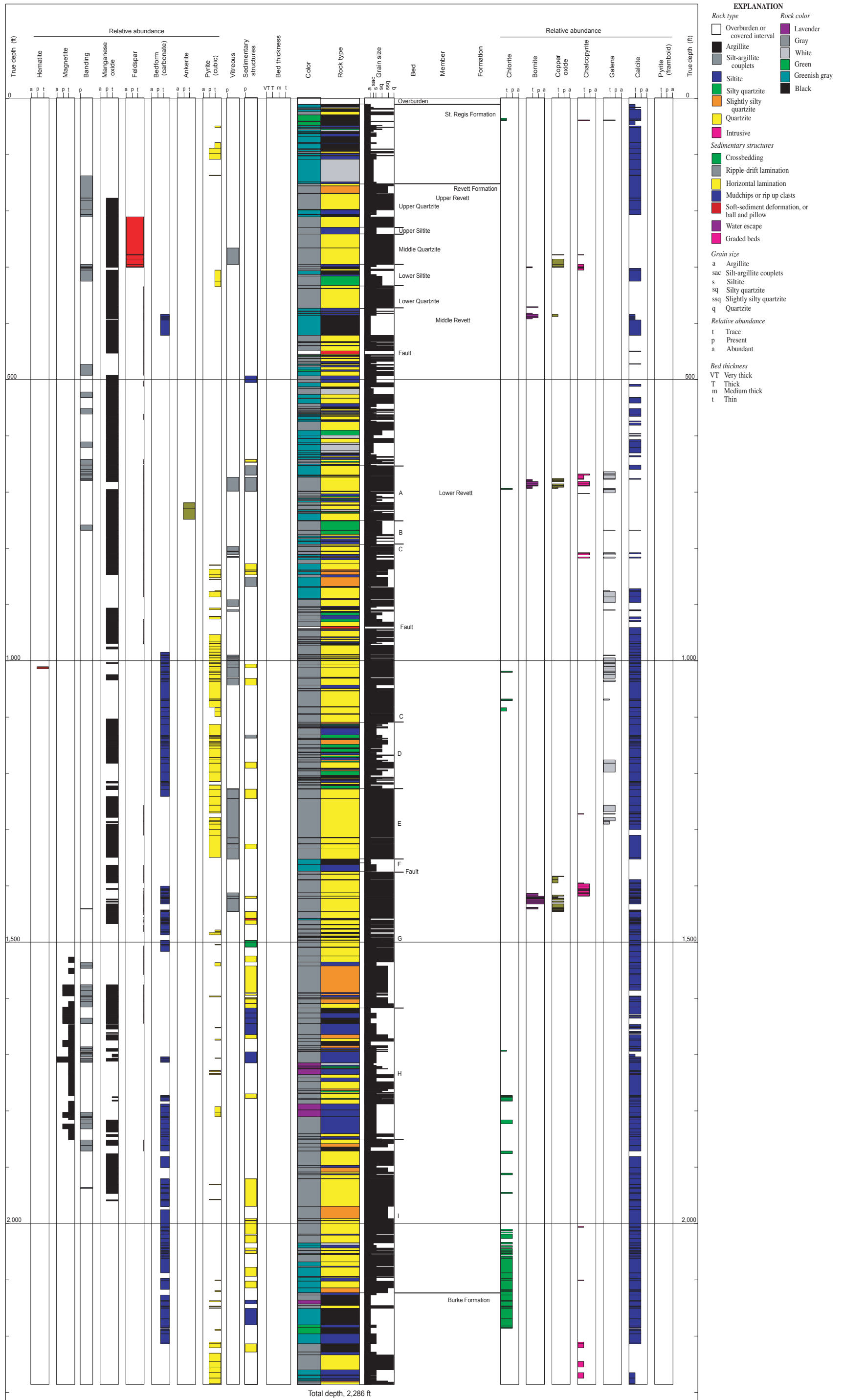
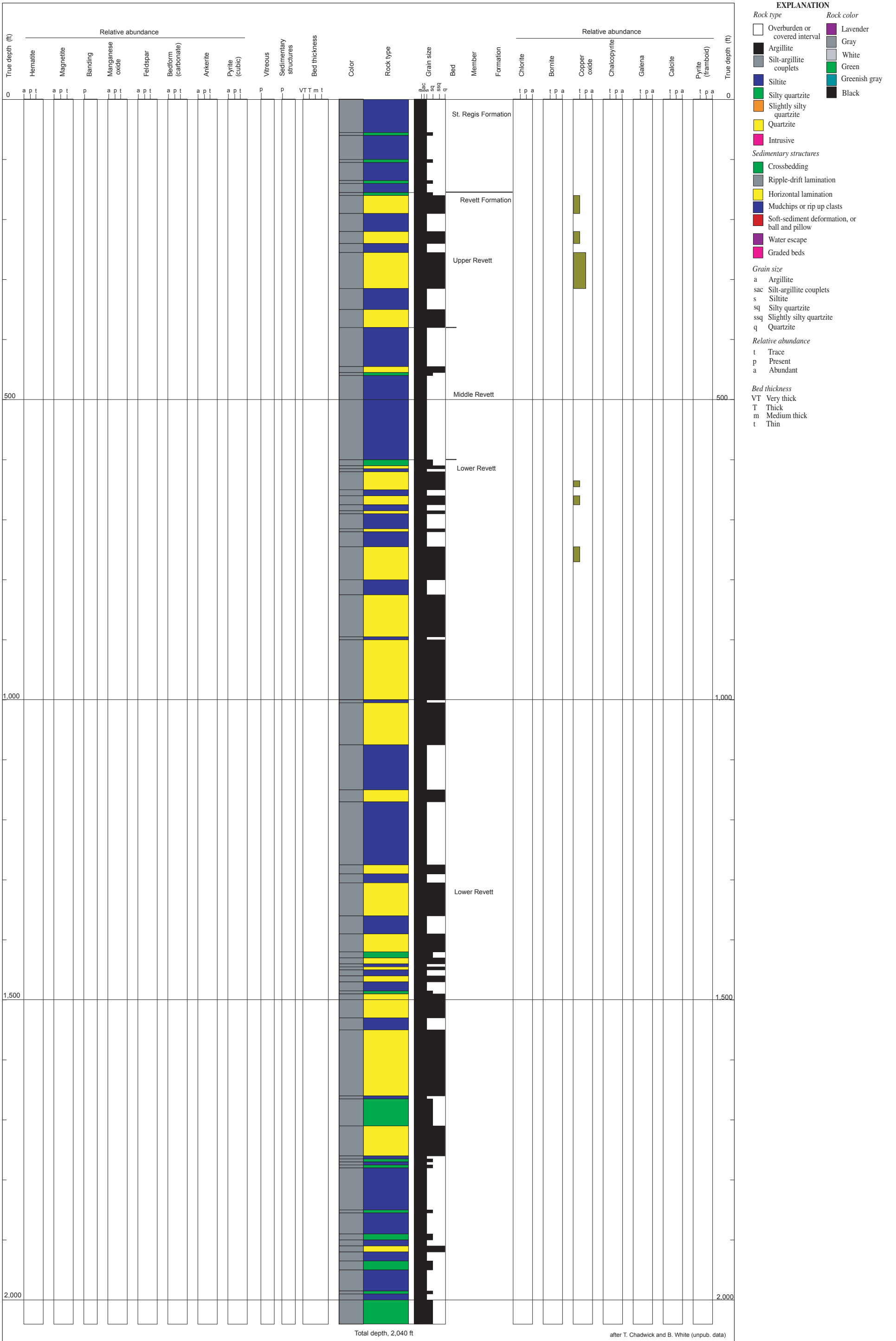
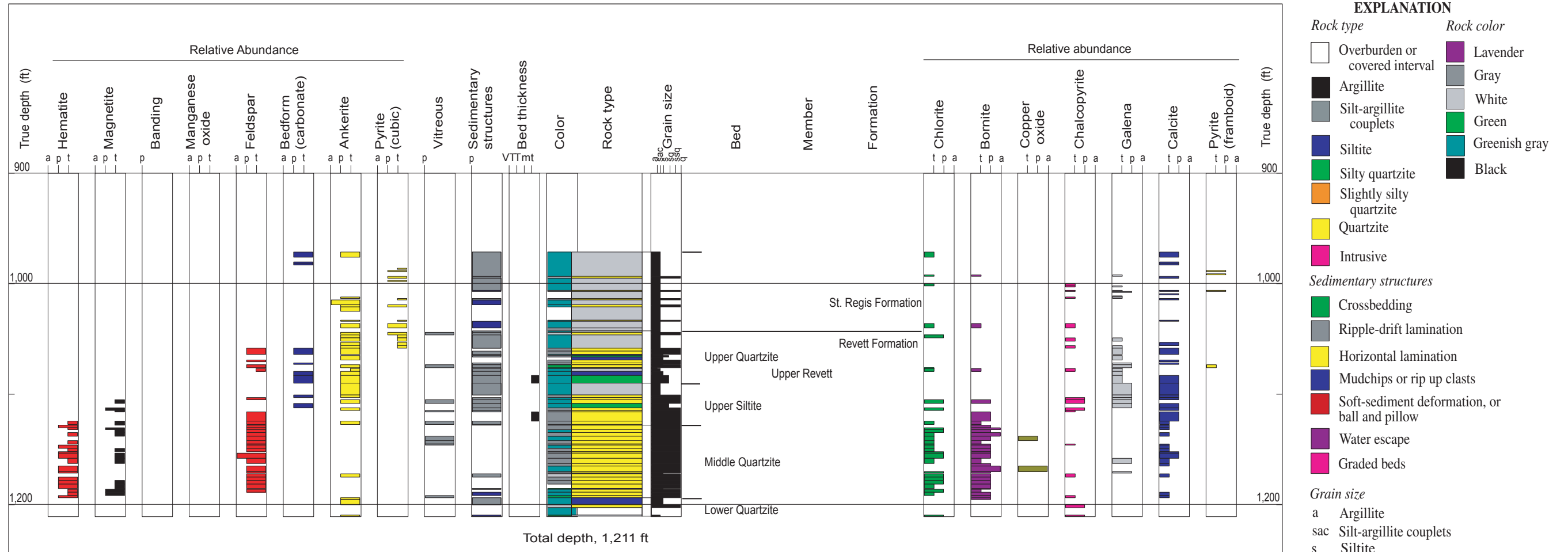


Figure A-14. DDH SL-122 (Spar Lake) diamond-drill-hole section  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-15. Mount Vernon measured section**  
By David E. Boloneus, Larry M. Appelgate, and Derrick W. Chase





**Figure A-16. DDH SL-60 (Spar Lake) diamond-drill-hole section**

**By David E. Boleneus, Larry M. Appelgate, Tracy L. Rehwald, and Craig F. Horlacher**

- EXPLANATION**
- Rock type*
- Overburden or covered interval
  - Argillite
  - Silt-argillite couplets
  - Siltite
  - Silty quartzite
  - Slightly silty quartzite
  - Quartzite
  - Intrusive
- Rock color*
- Lavender
  - Gray
  - White
  - Green
  - Greenish gray
  - Black
- Sedimentary structures*
- Crossbedding
  - Ripple-drift lamination
  - Horizontal lamination
  - Mudchips or rip up clasts
  - Soft-sediment deformation, or ball and pillow
  - Water escape
  - Graded beds
- Grain size*
- a Argillite
  - sac Silt-argillite couplets
  - s Siltite
  - sq Silty quartzite
  - ssq Slightly silty quartzite
  - q Quartzite
- Relative abundance*
- t Trace
  - p Present
  - a Abundant
- Bed thickness*
- VT Very thick
  - T Thick
  - m Medium thick
  - t Thin

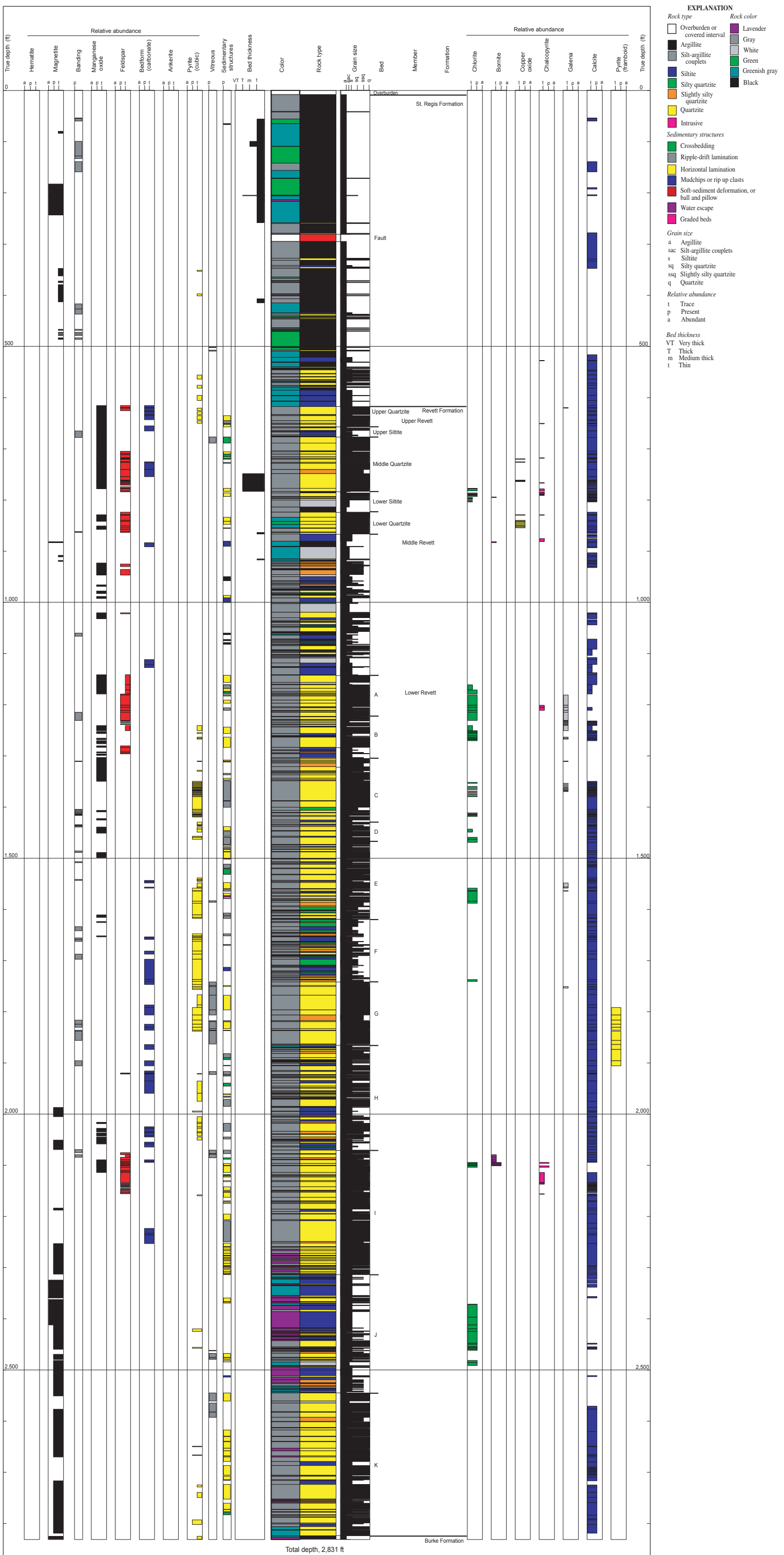


Figure A-17. DDH SL-123 (Spar Lake) diamond-drill-hole section  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

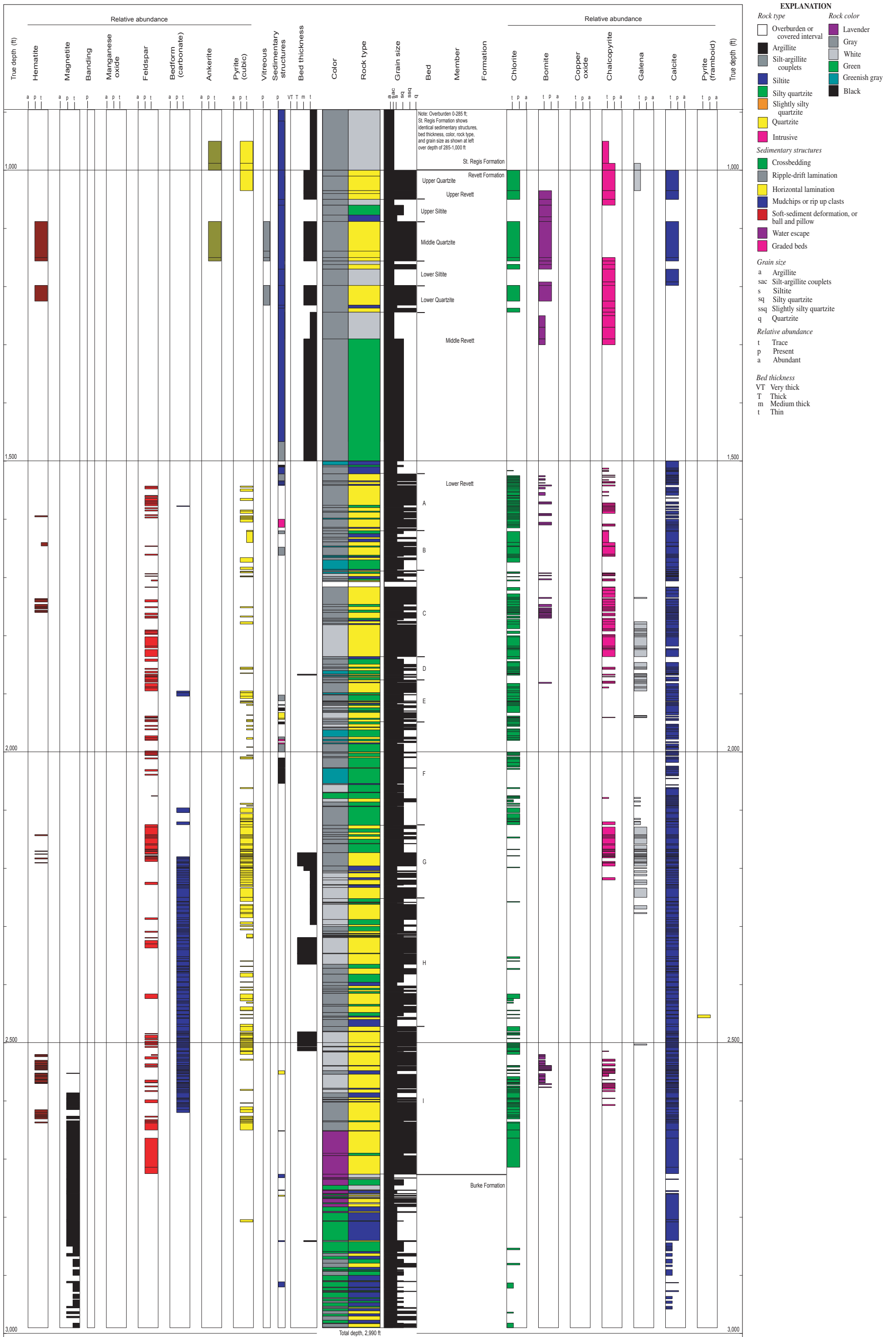
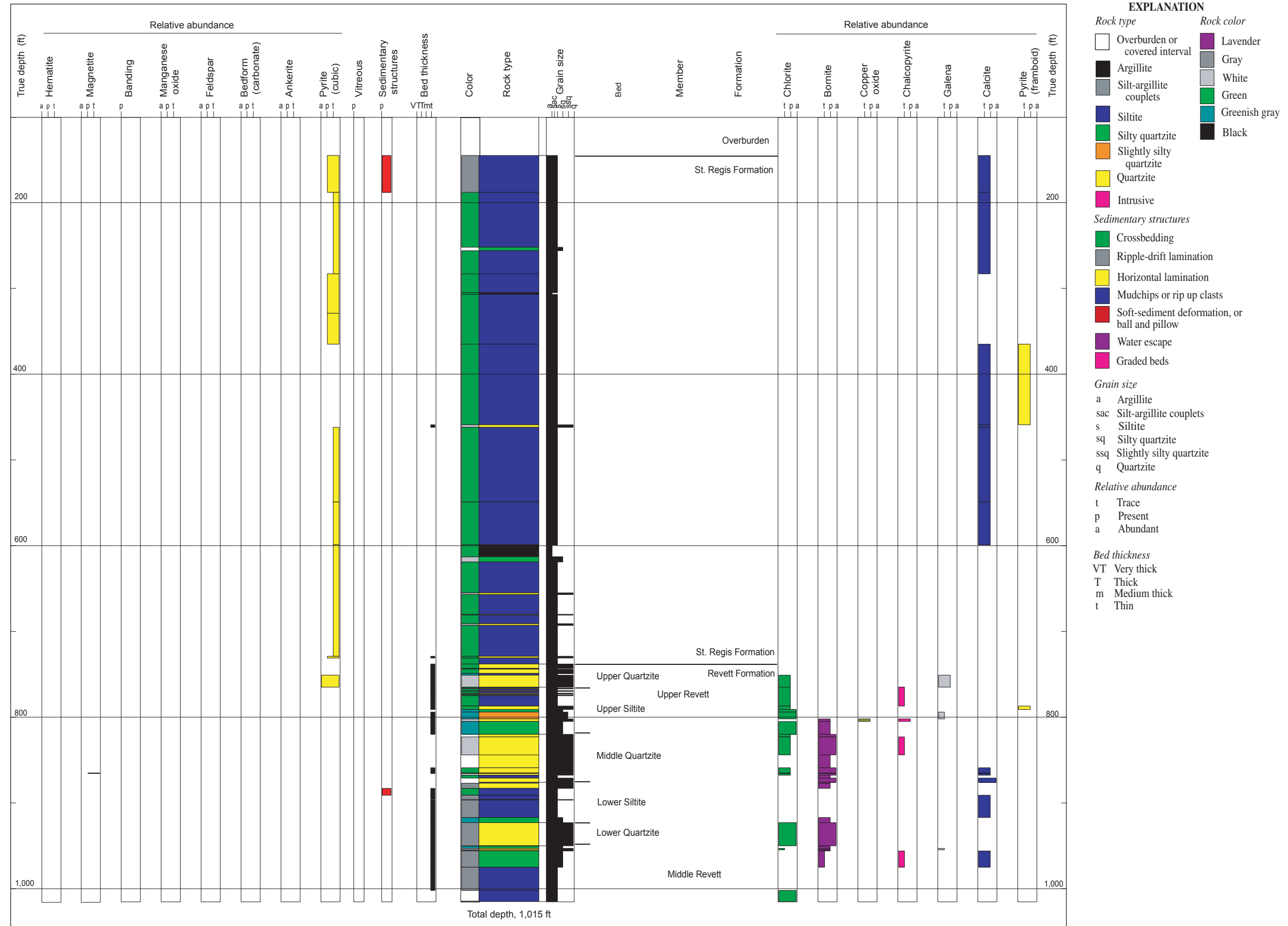
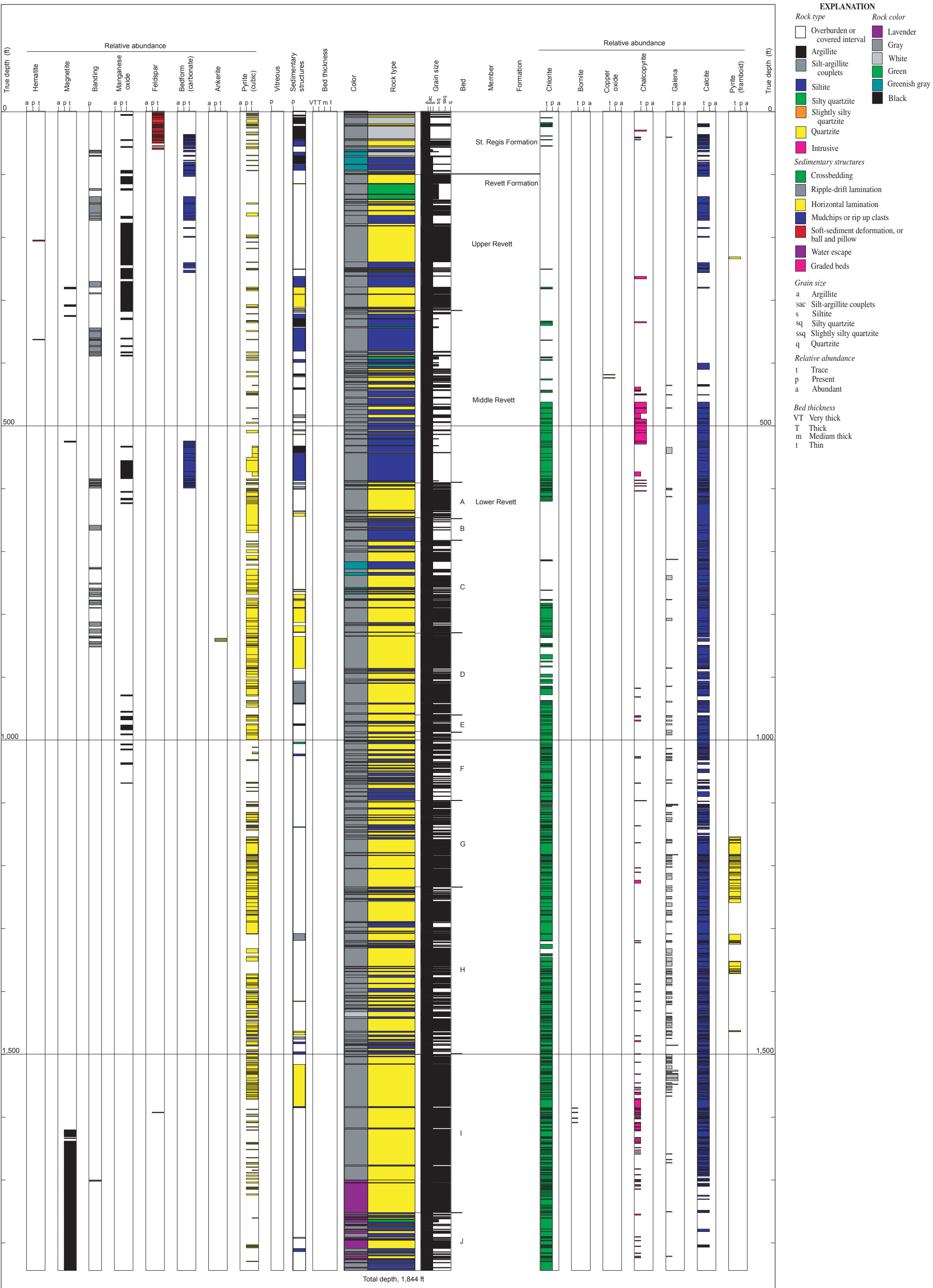


Figure A-18. DDH SL-93 (Spar Lake) diamond-drill-hole section  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase





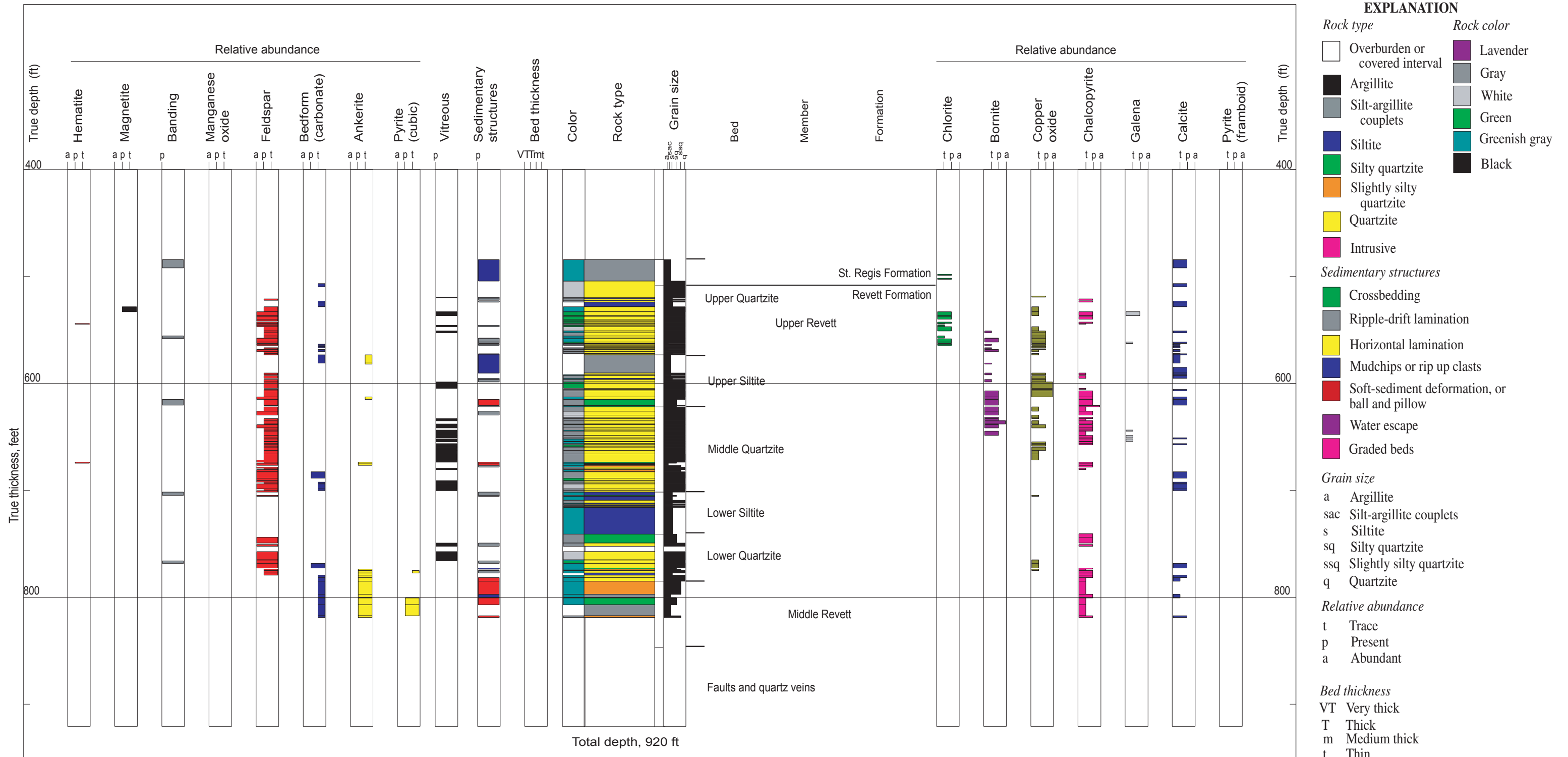
**Figure A-20. DDH SL-138 (Spar Lake) diamond-drill-hole section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

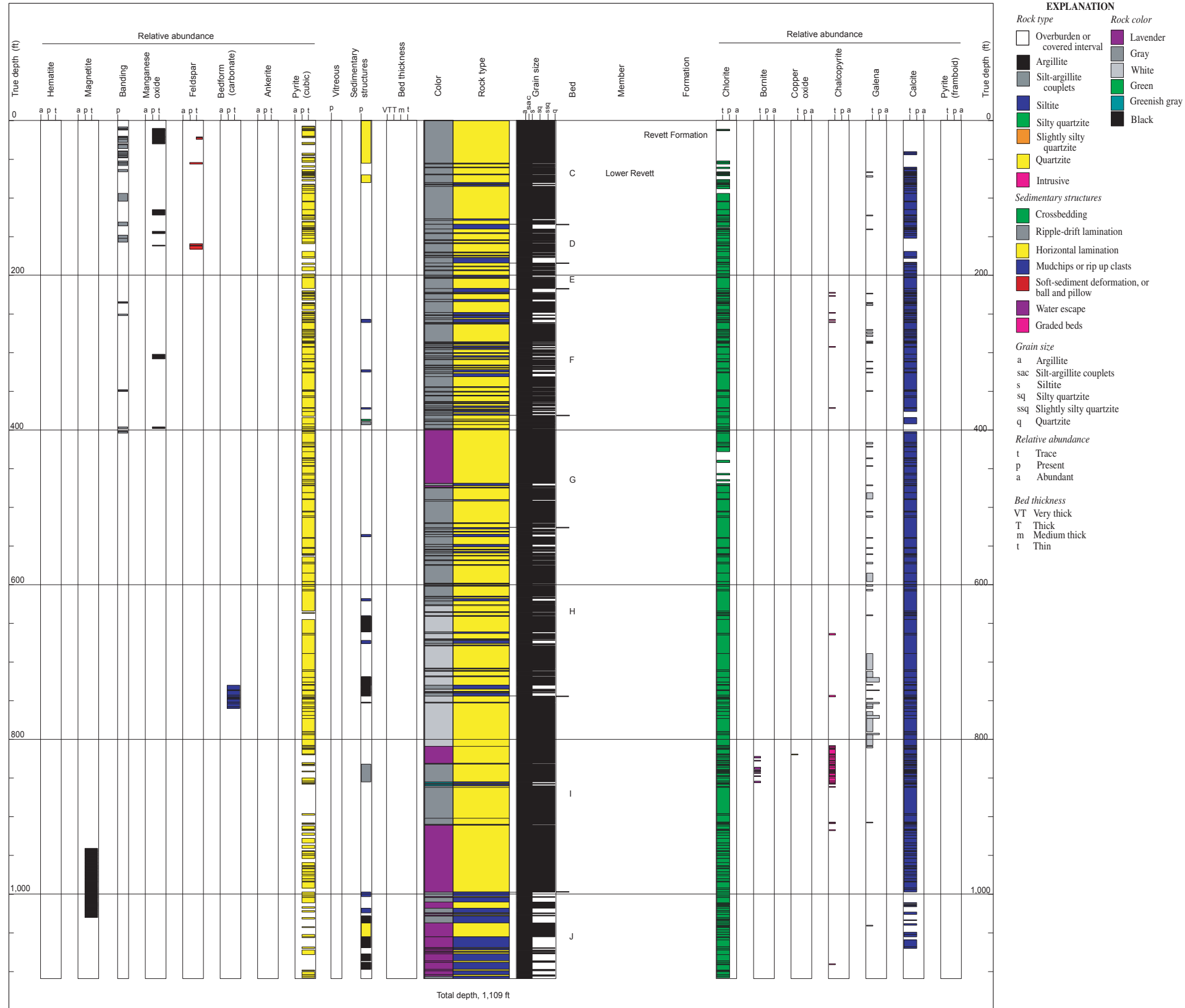


U.S. DEPARTMENT OF THE INTERIOR  
U.S. GEOLOGICAL SURVEY

SCIENTIFIC INVESTIGATIONS REPORT 2005-5231

FIGURE A-21





**Figure A-22. DDH SL-139 (Spar Lake) diamond-drill-hole section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

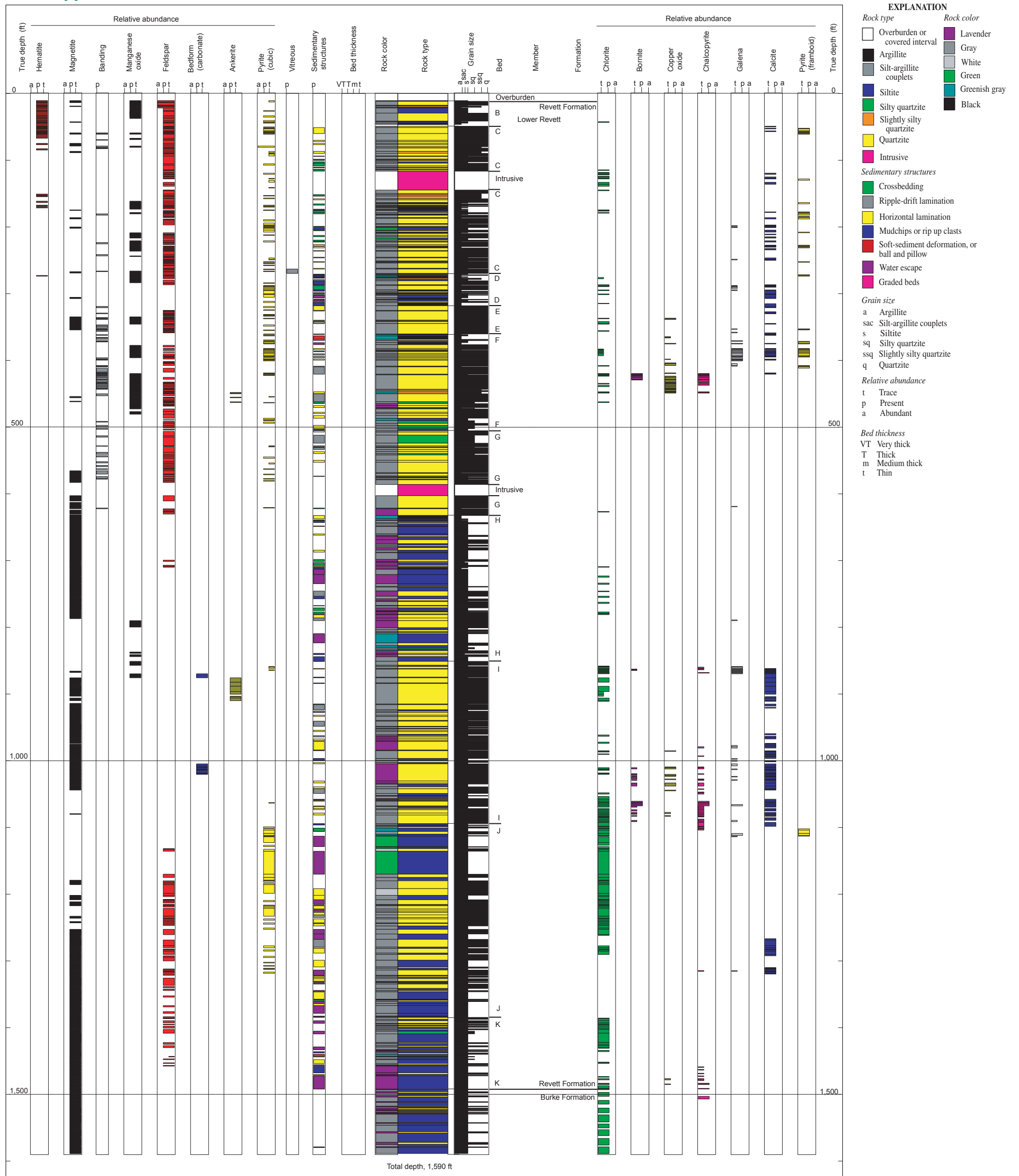


Figure A-23. DDH SL-132 (Spar Lake) diamond-drill-hole section

By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



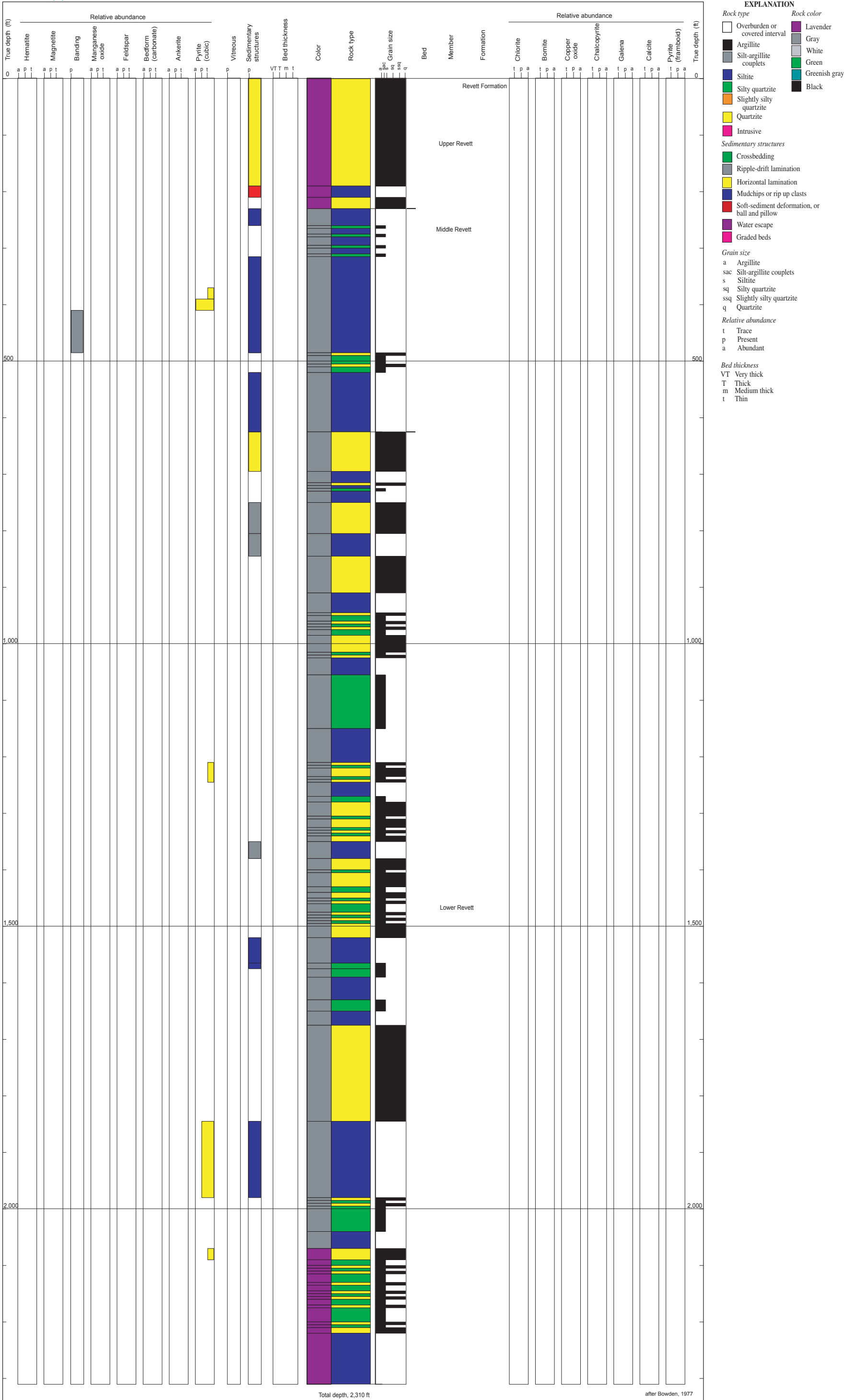
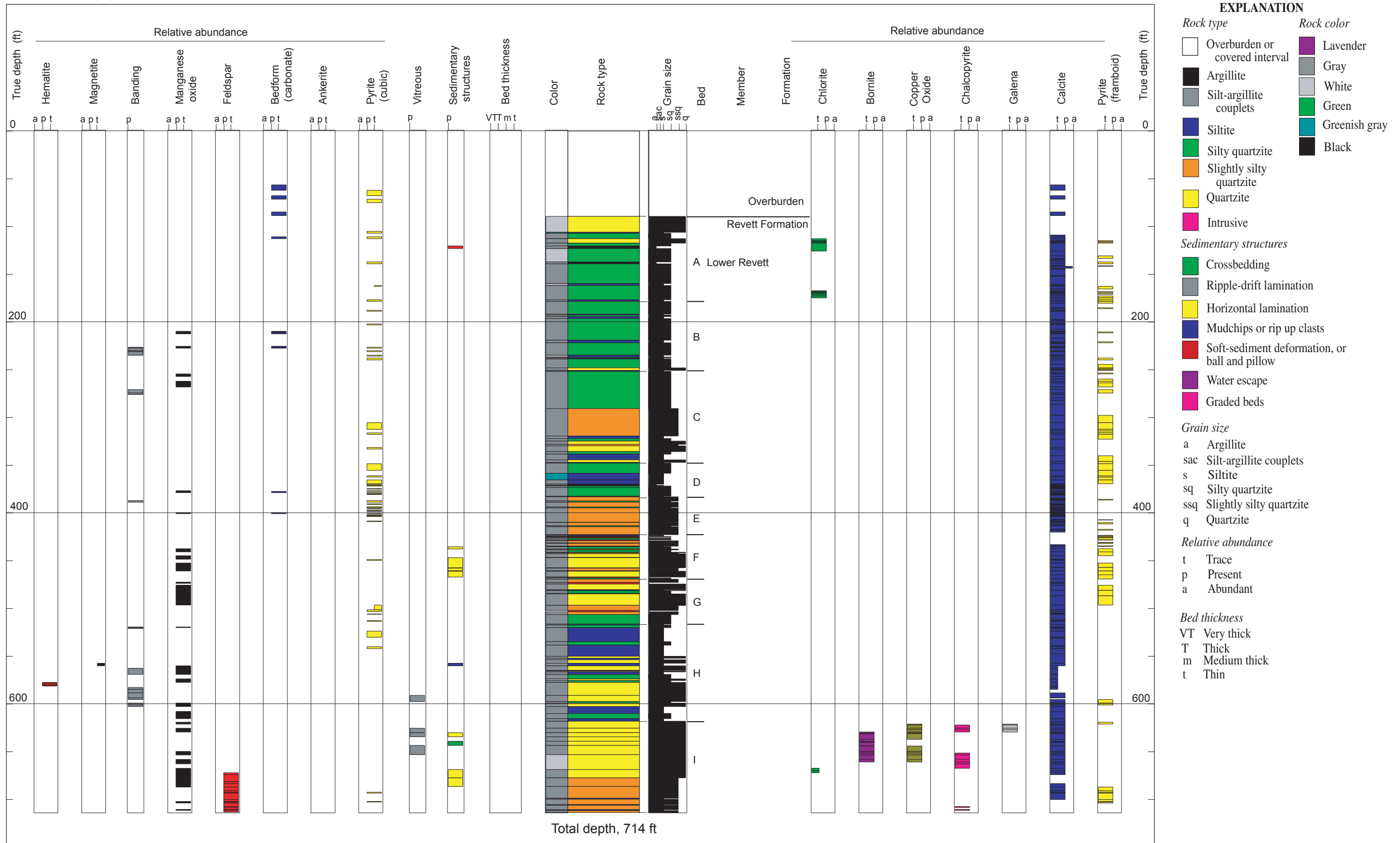
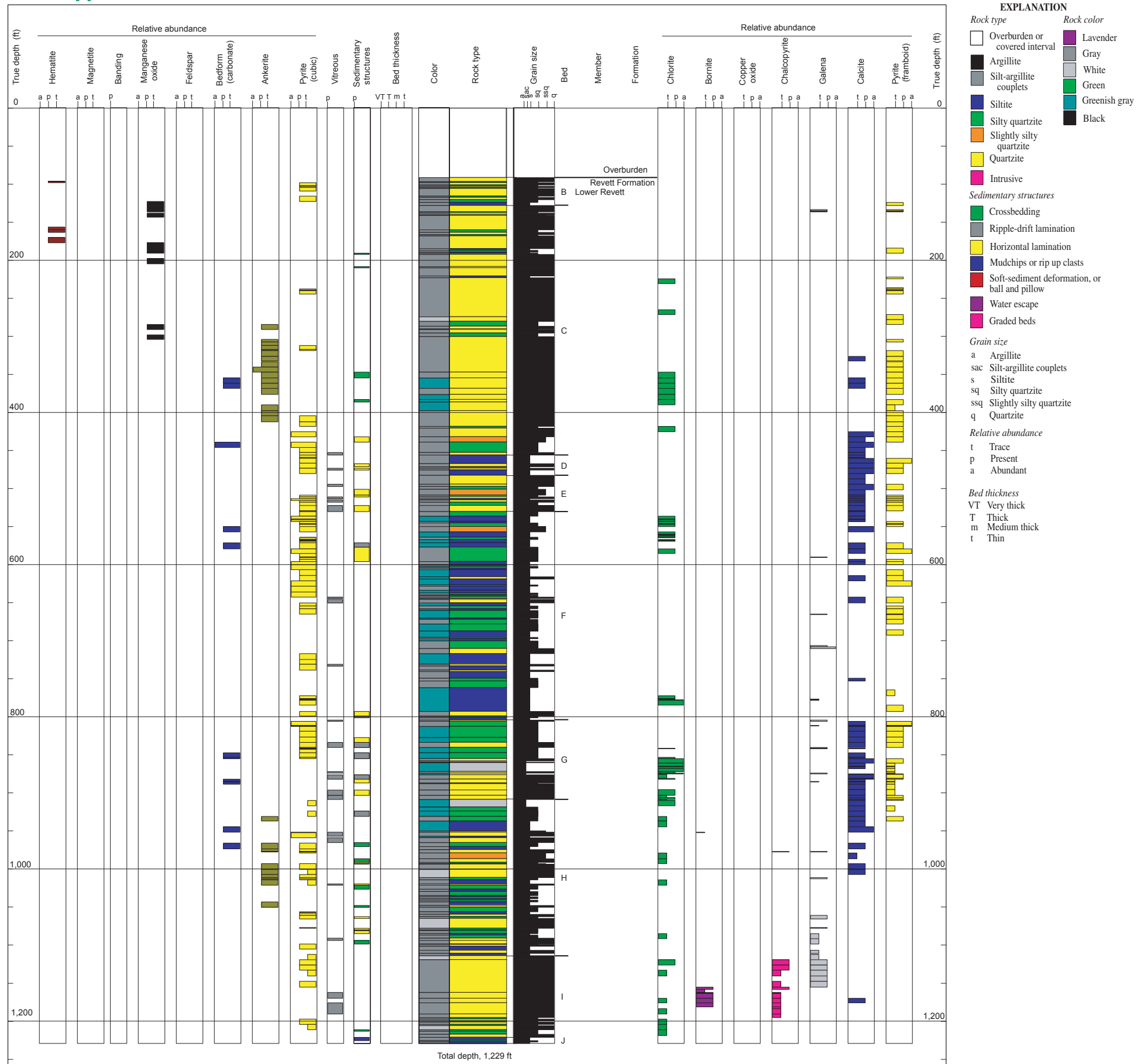


Figure A-24. Little Spar Lake measured section  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

FIGURE A-25





**Figure A-26. DDH JF-79-4 (J-F) diamond-drill-hole section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

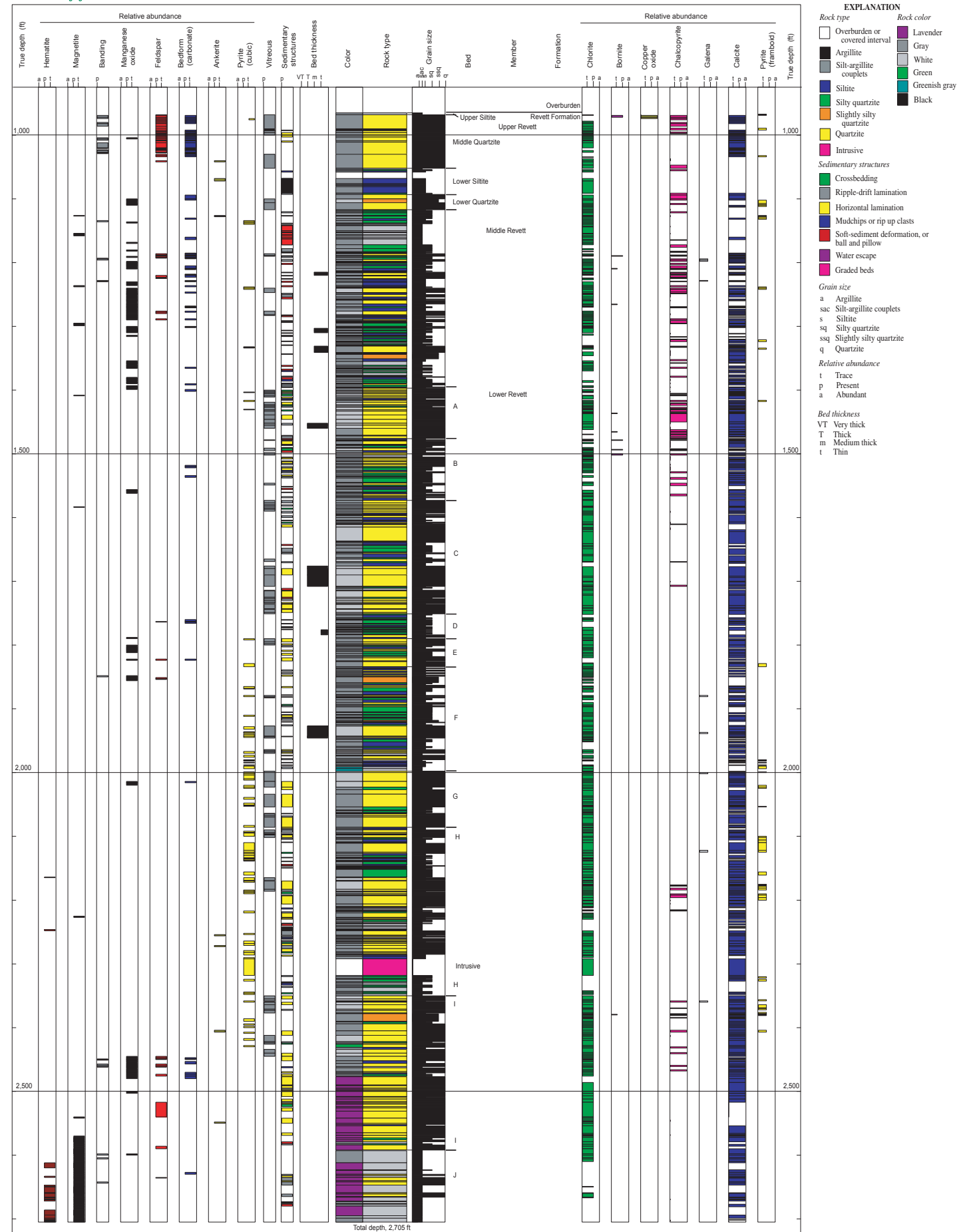
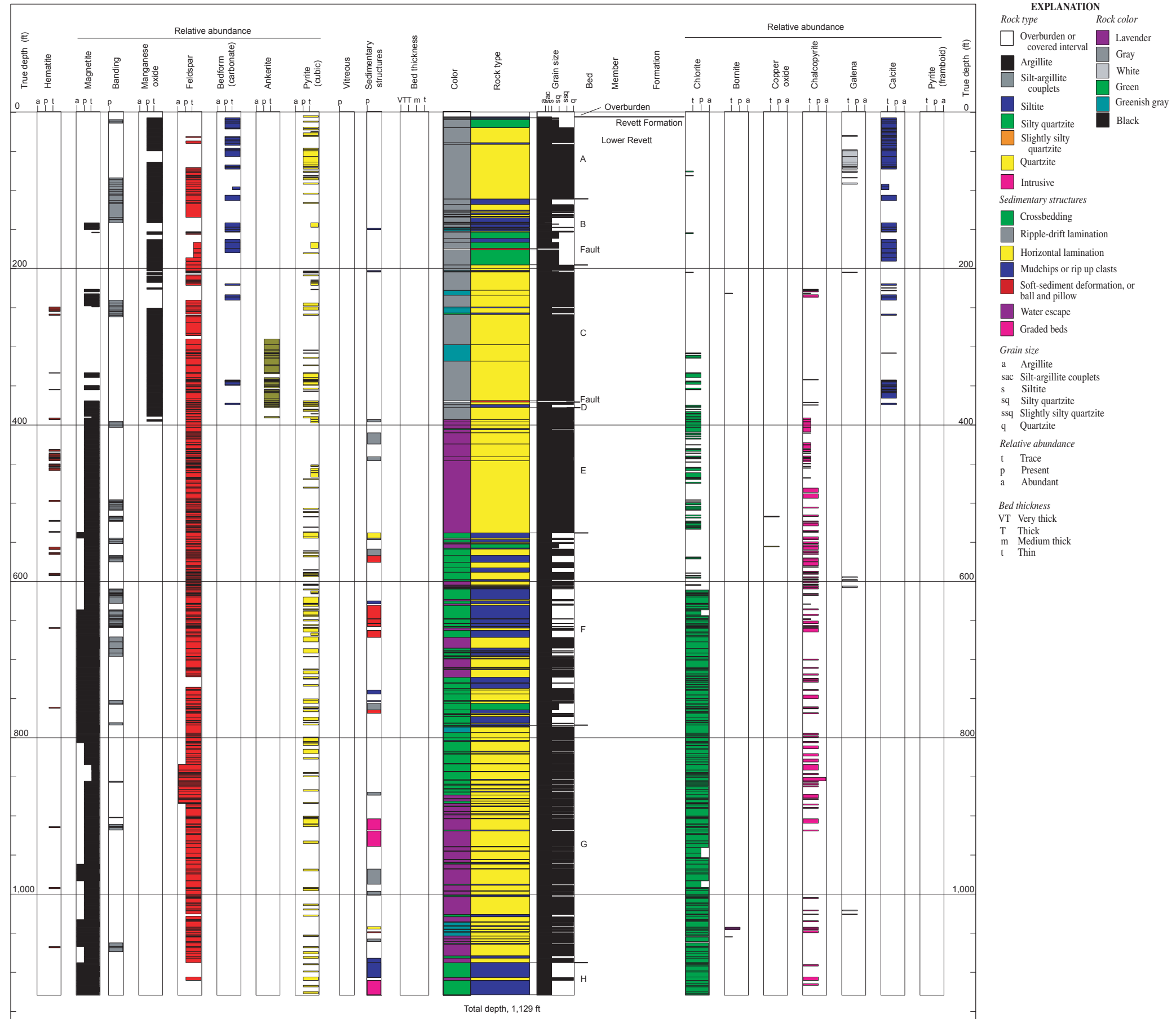
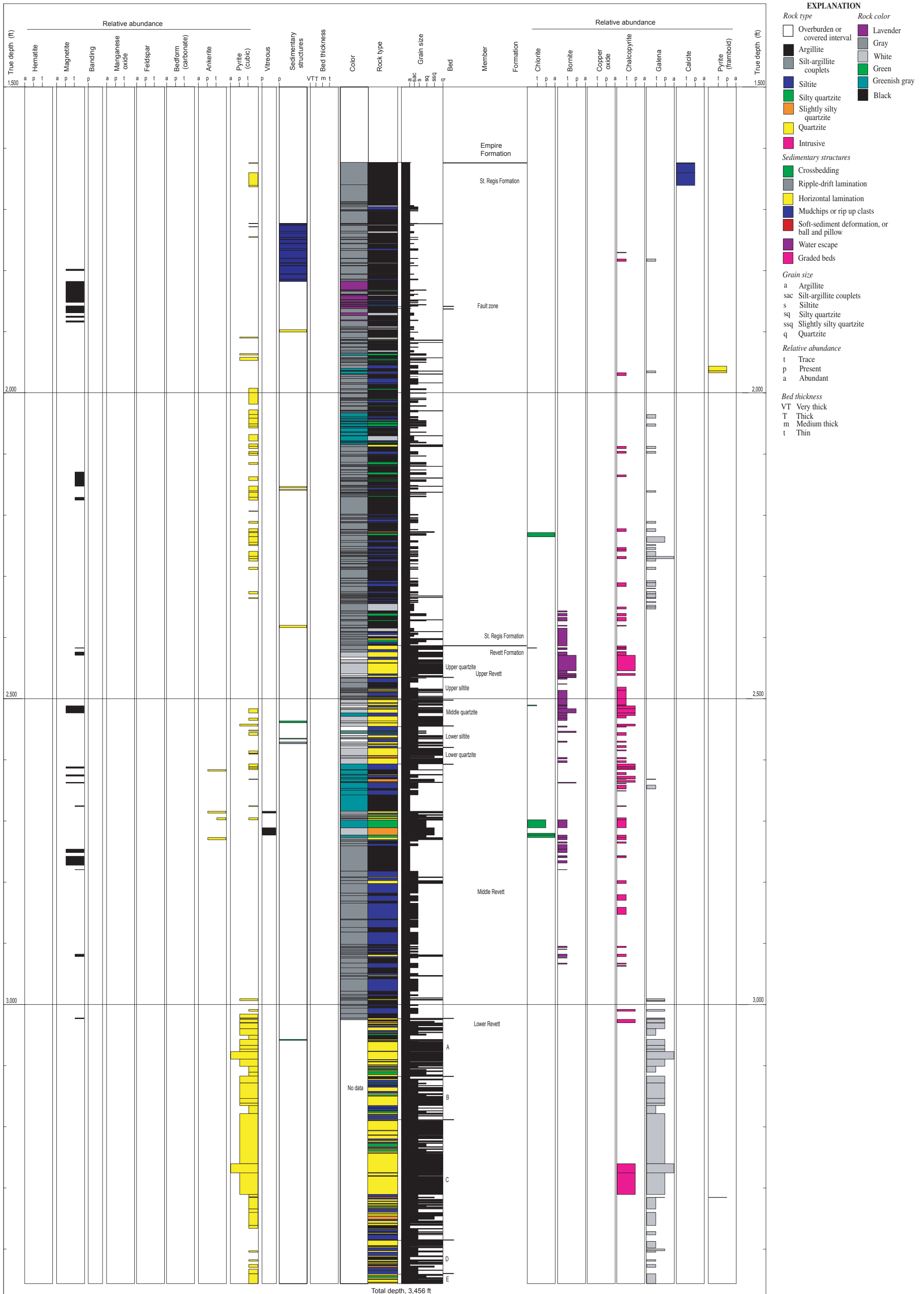


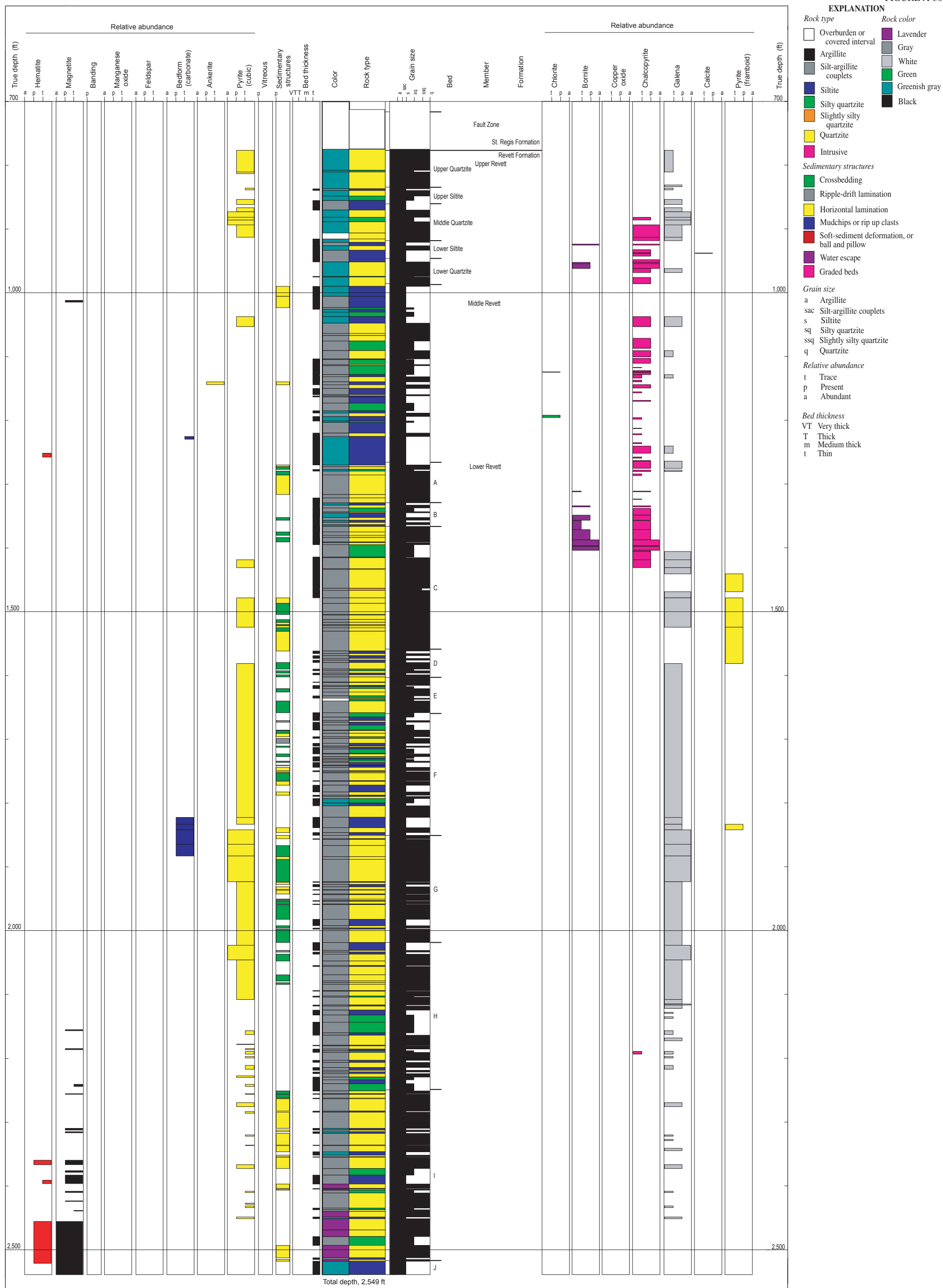
Figure A-27. DDH JFW-1 (J-F West) diamond-drill-hole section  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-28. DDH JF-12 (J-F) diamond-drill-hole section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

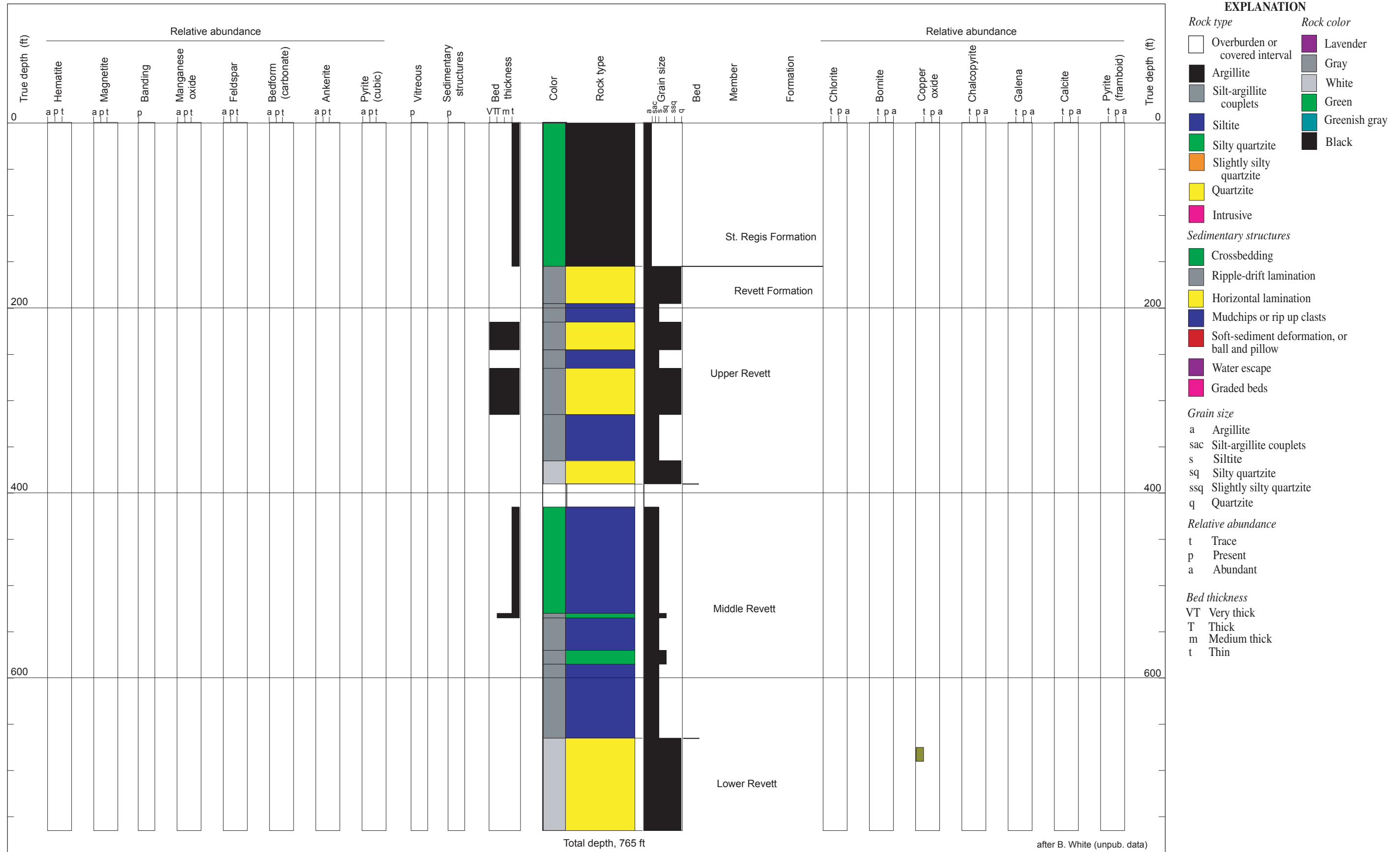


**Figure A-29. DDH DC-3 (Dry Creek) diamond-drill-hole section**  
By David E. Boleneus, Larry M. Appelgate, Tracy L. Rehwald, and Craig F. Horlacher



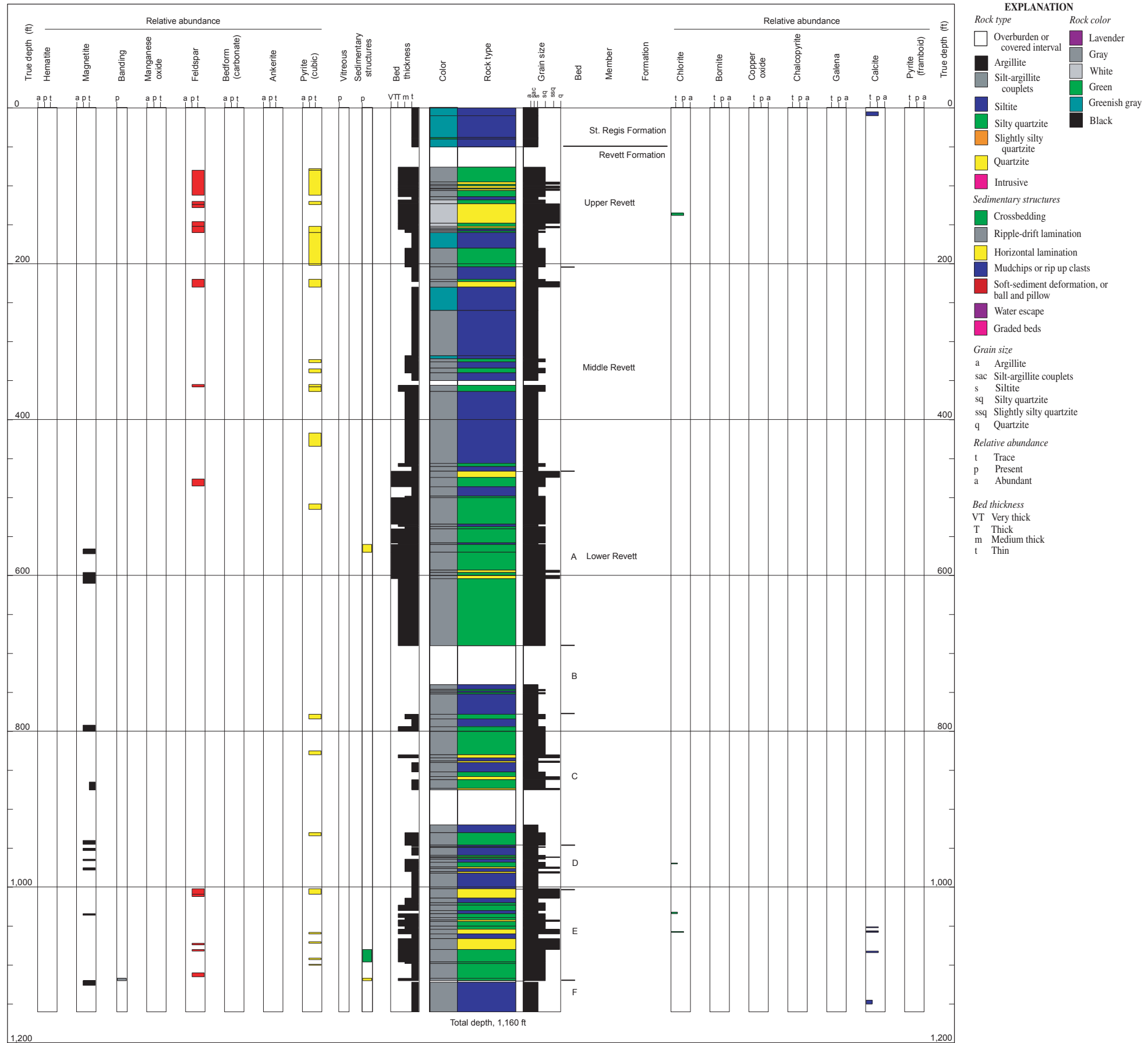
**Figure A-30. DDH DC-2 (Dry Creek) diamond-drill-hole section**  
By David E. Boleneus, Larry M. Appelgate, Tracy L. Rehwald, and Craig F. Horlacher

FIGURE A-31



**Figure A-31. Squaw Peak measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase





**Figure A-32. Goat Rocks measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

FIGURE A-33

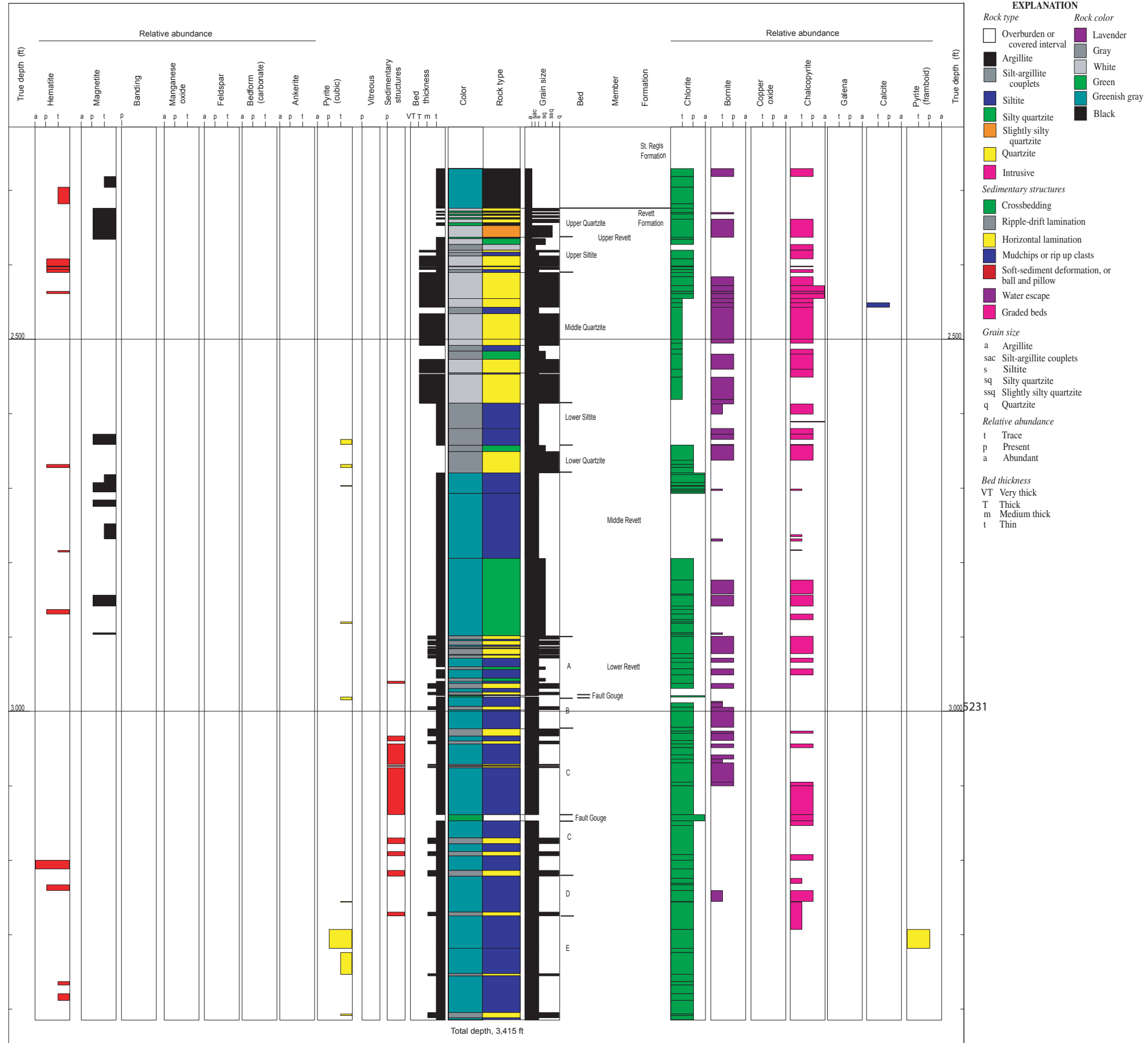
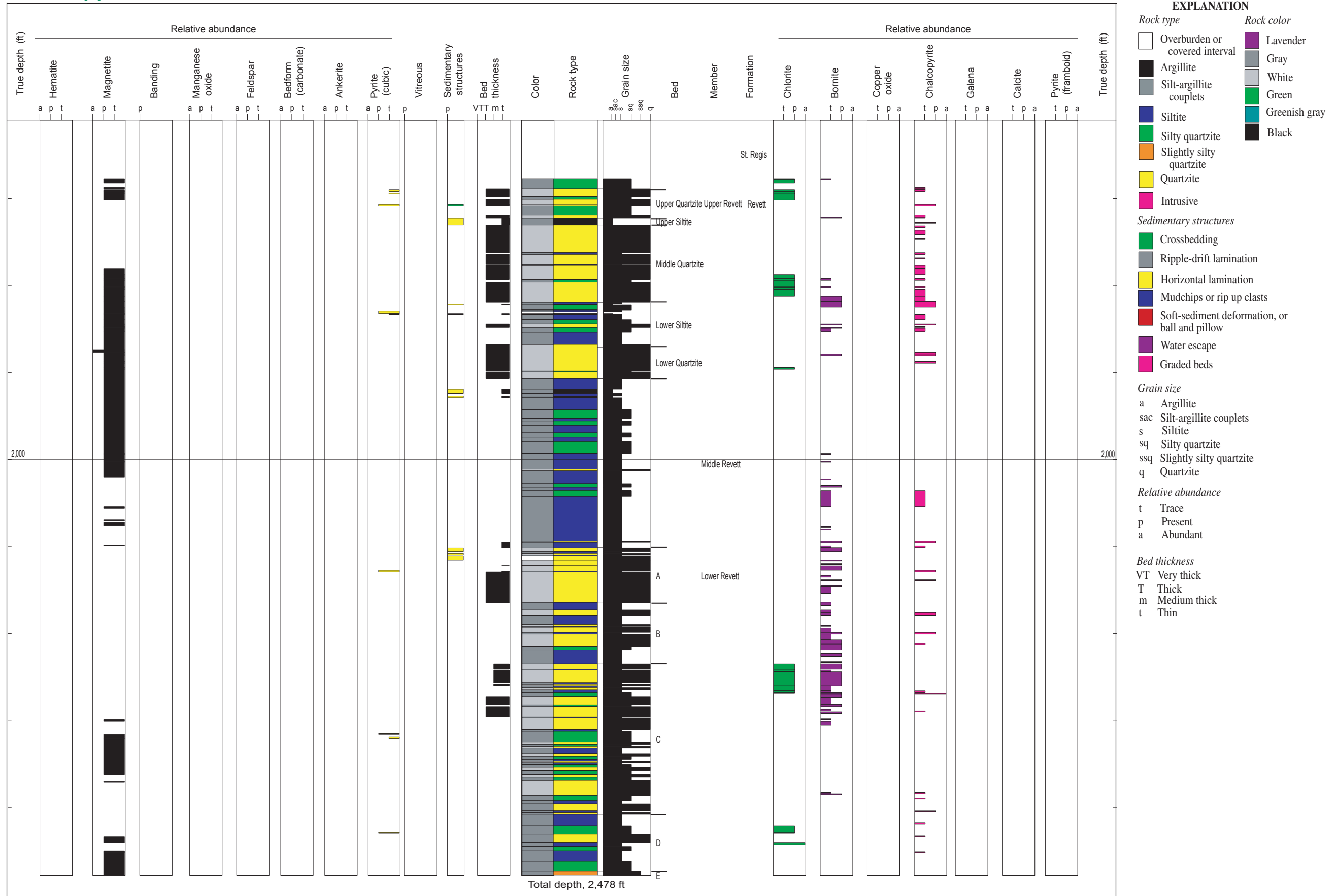


Figure A-33. DDH SN-2 (Snake Creek) diamond-drill-hole section

By David E. Boleneus, Larry M. Appelgate, Tracy L. Rehwald, and Craig F. Horlacher



**Figure A-34. DDH SN-5 (Snake Creek) diamond-drill-hole section**  
By David E. Boleneus, Larry M. Appelgate, Tracy L. Rehwald, and Craig F. Horlacher

FIGURE A-35

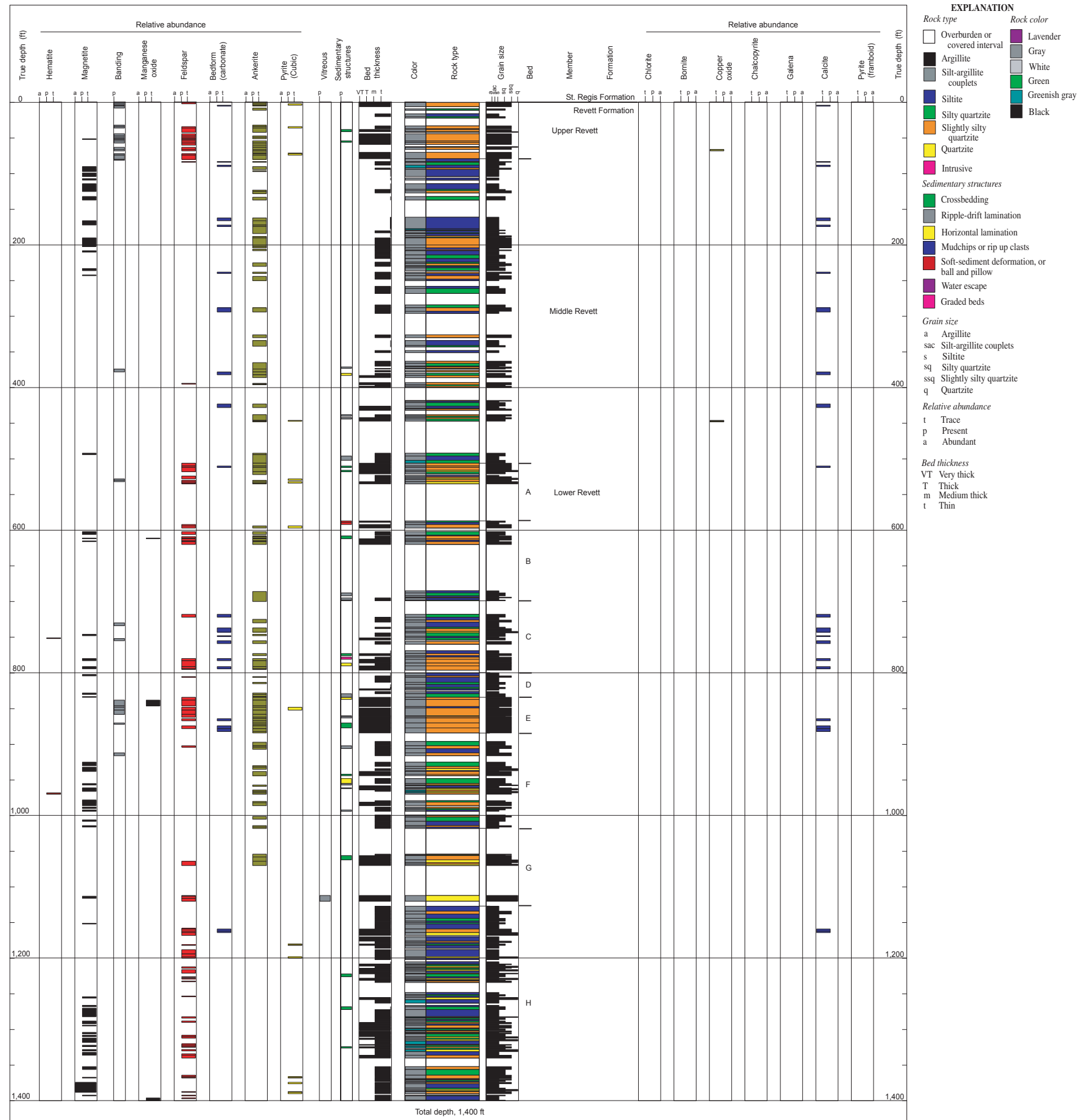


Figure A-35. East Fork of Bull River 1, 2, 3 measured section  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

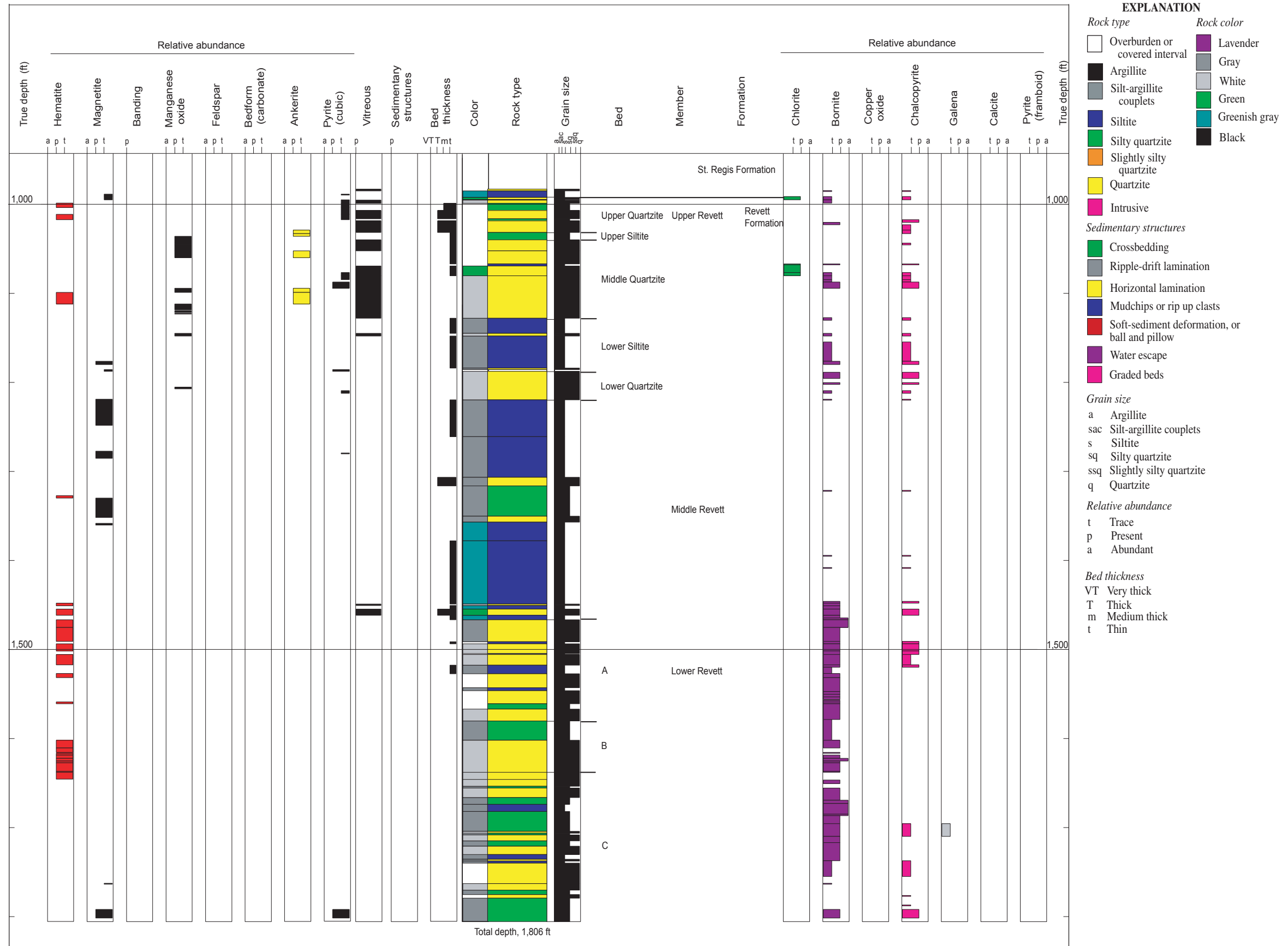
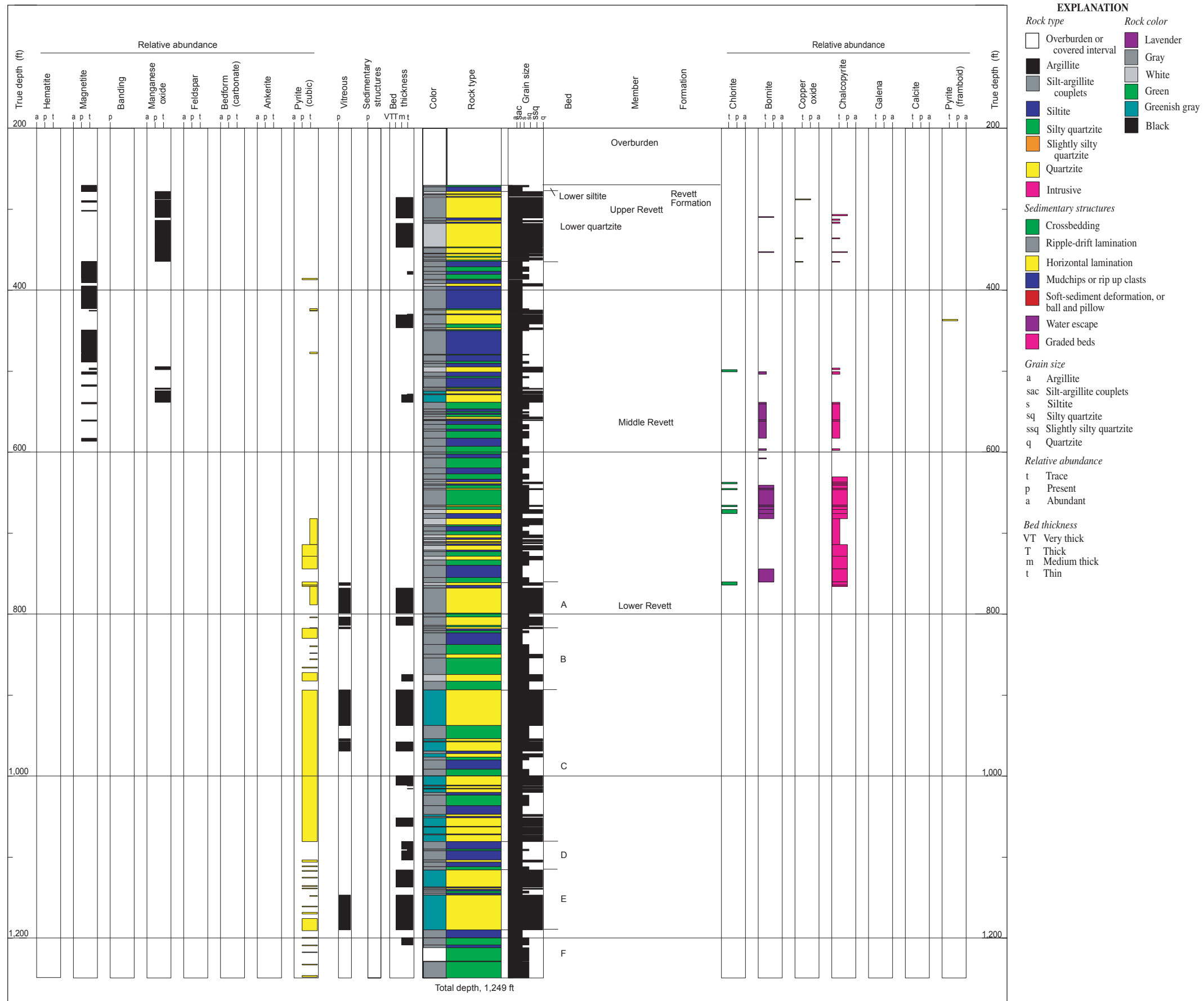


Figure A-36. DDH SN-1 (Snake Creek) diamond-drill-hole section

By David E. Boleneus, Larry M. Appelgate, Tracy L. Rehwald, and Craig F. Horlacher

FIGURE A-37



**Figure A-37. DDH SN-4 (Snake Creek) diamond-drill-hole section**  
By David E. Boleneus, Larry M. Appelgate, Tracy L. Rehwald, and Craig F. Horlacher

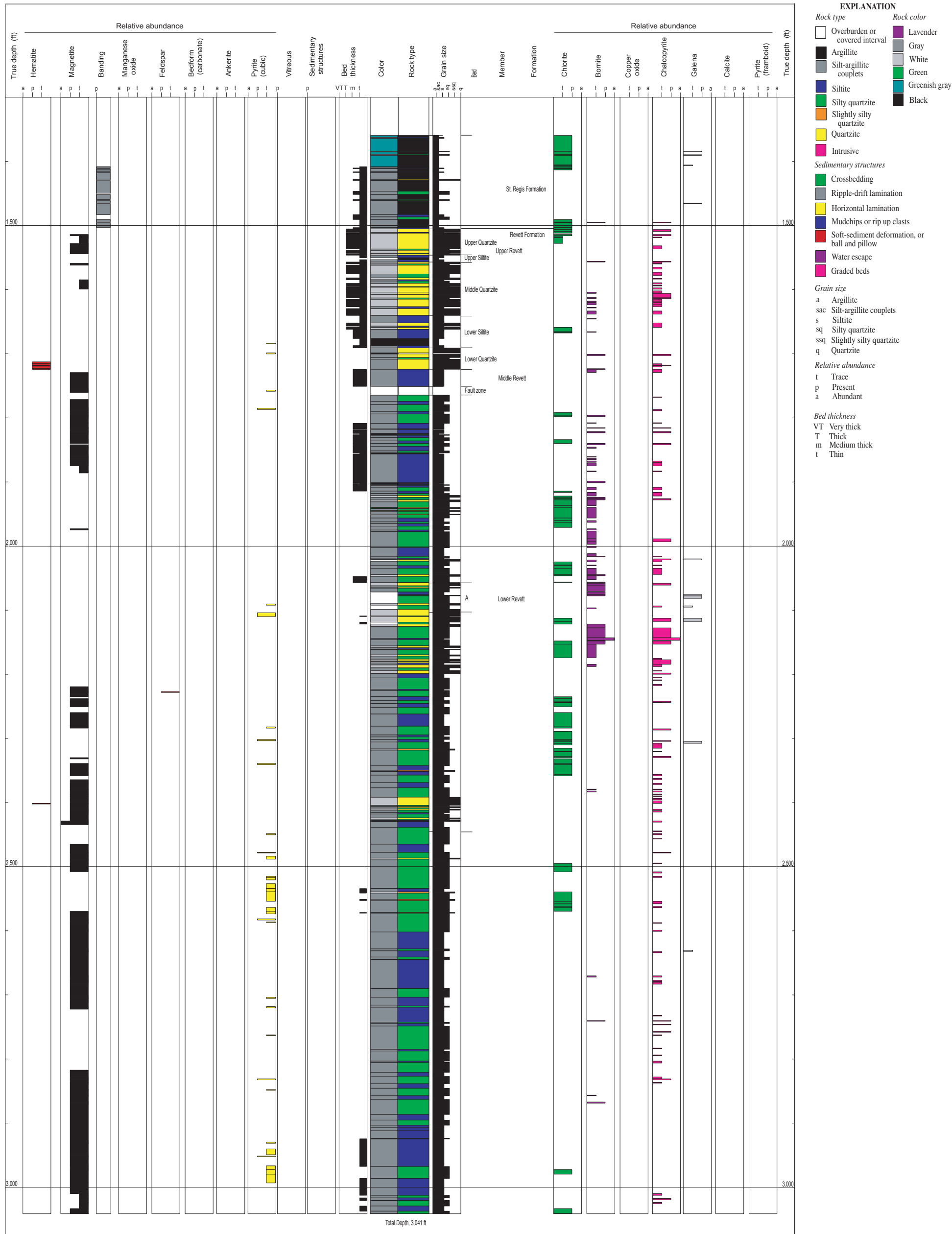


Figure A-38. DDH SN-3 (Snake Creek) diamond-drill-hole section

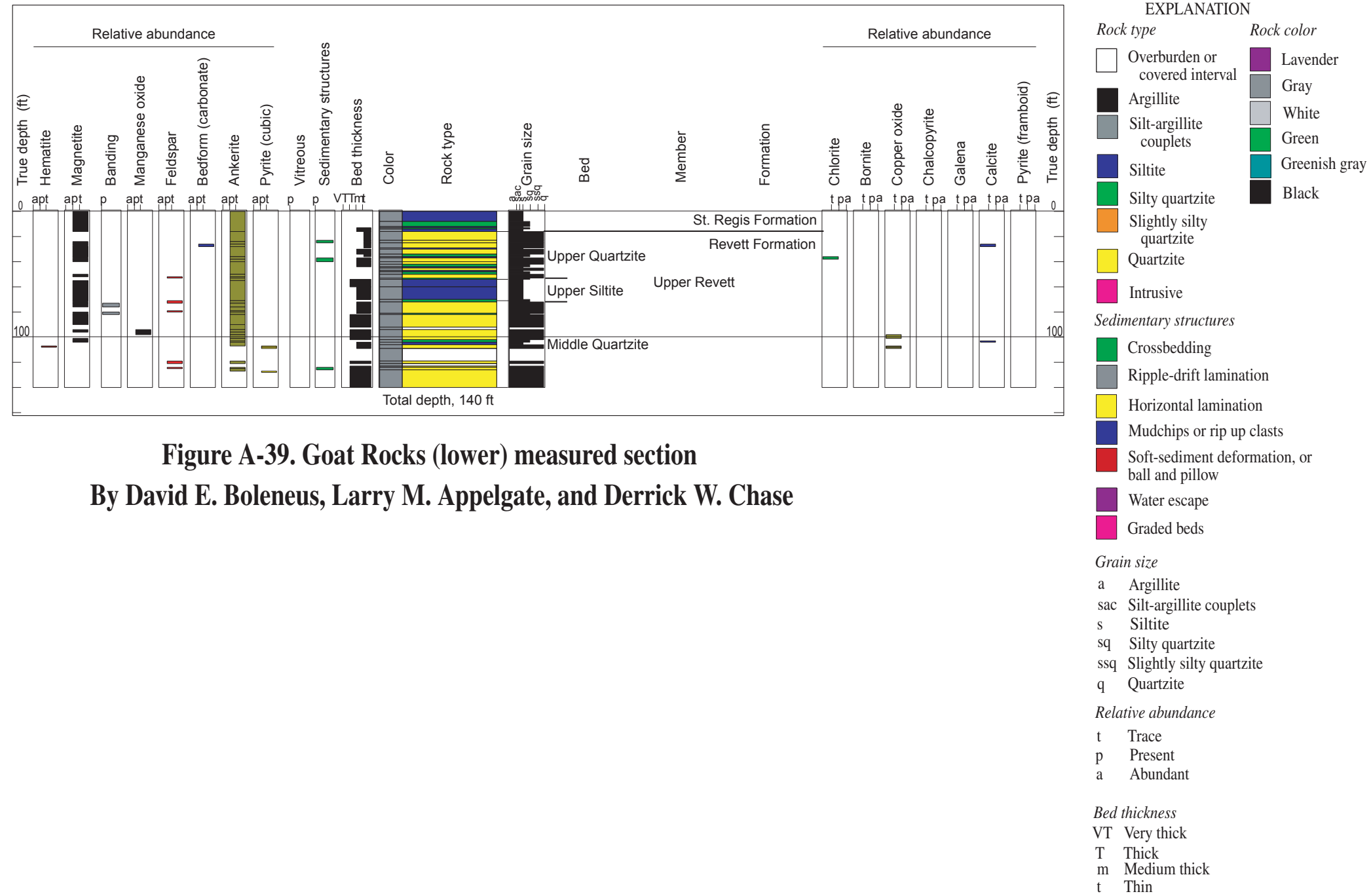
By David E. Boleneus, Larry M. Appelgate, Tracy L. Rehwal, and Craig F. Horlacher



U.S. DEPARTMENT OF THE INTERIOR  
U.S. GEOLOGICAL SURVEY

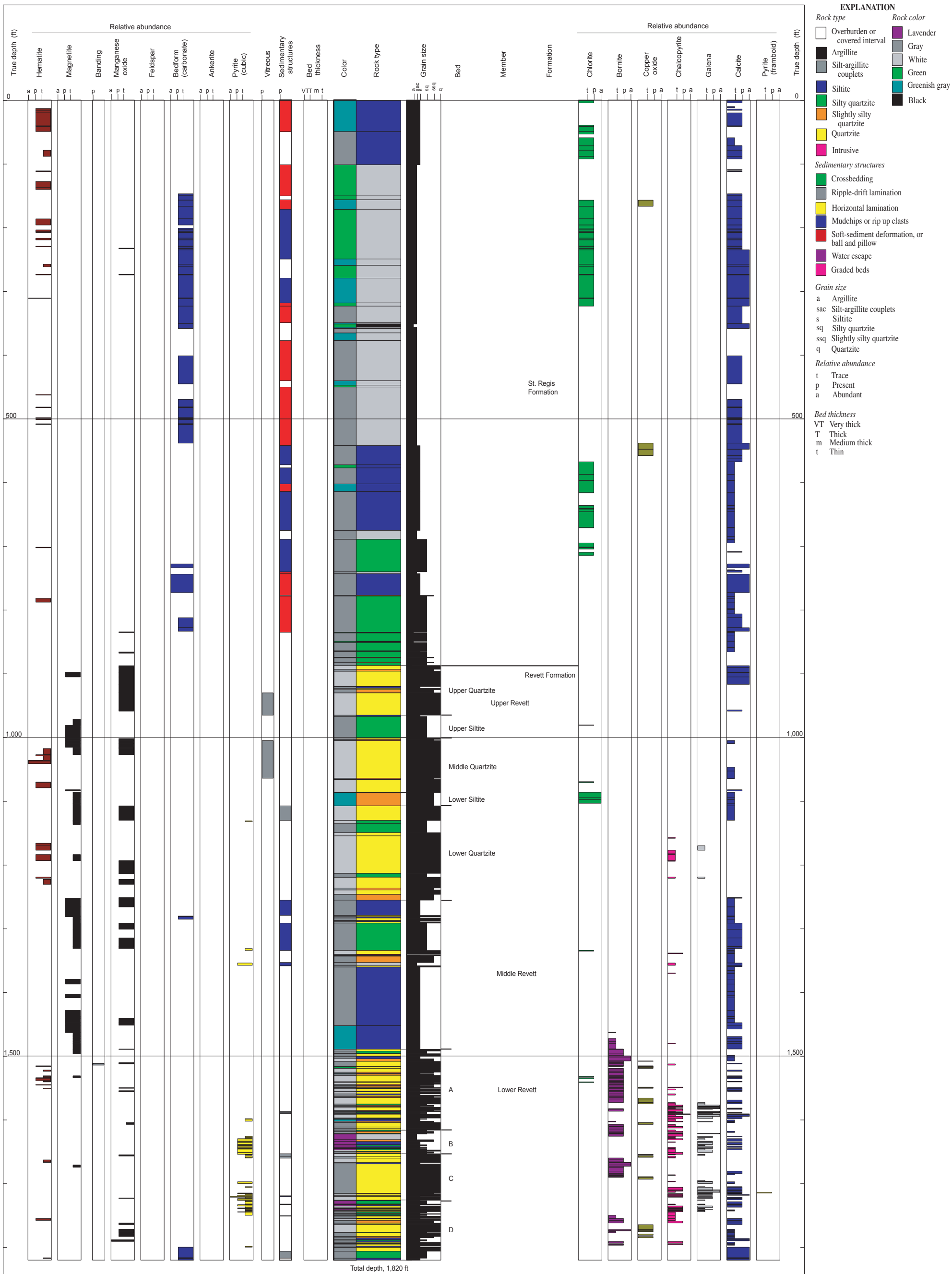
SCIENTIFIC INVESTIGATIONS REPORT 2005-5231

FIGURE A-39



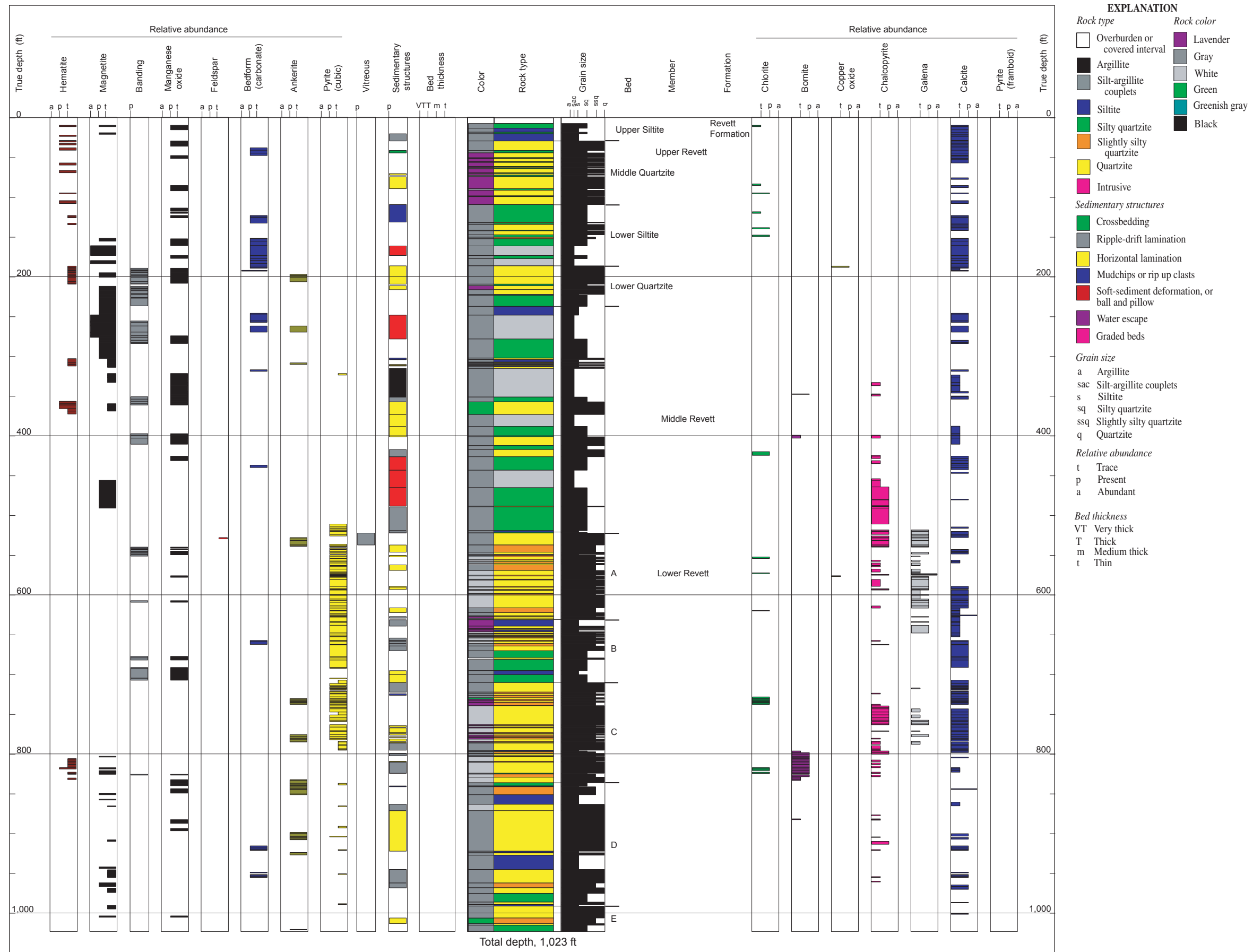
**Figure A-39. Goat Rocks (lower) measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase





**Figure A-40. DDH RC-58 (Rock Creek) diamond-drill-hole section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

FIGURE A-41



**Figure A-41. DDH RC-49 (Rock Creek) diamond-drill-hole section**

By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

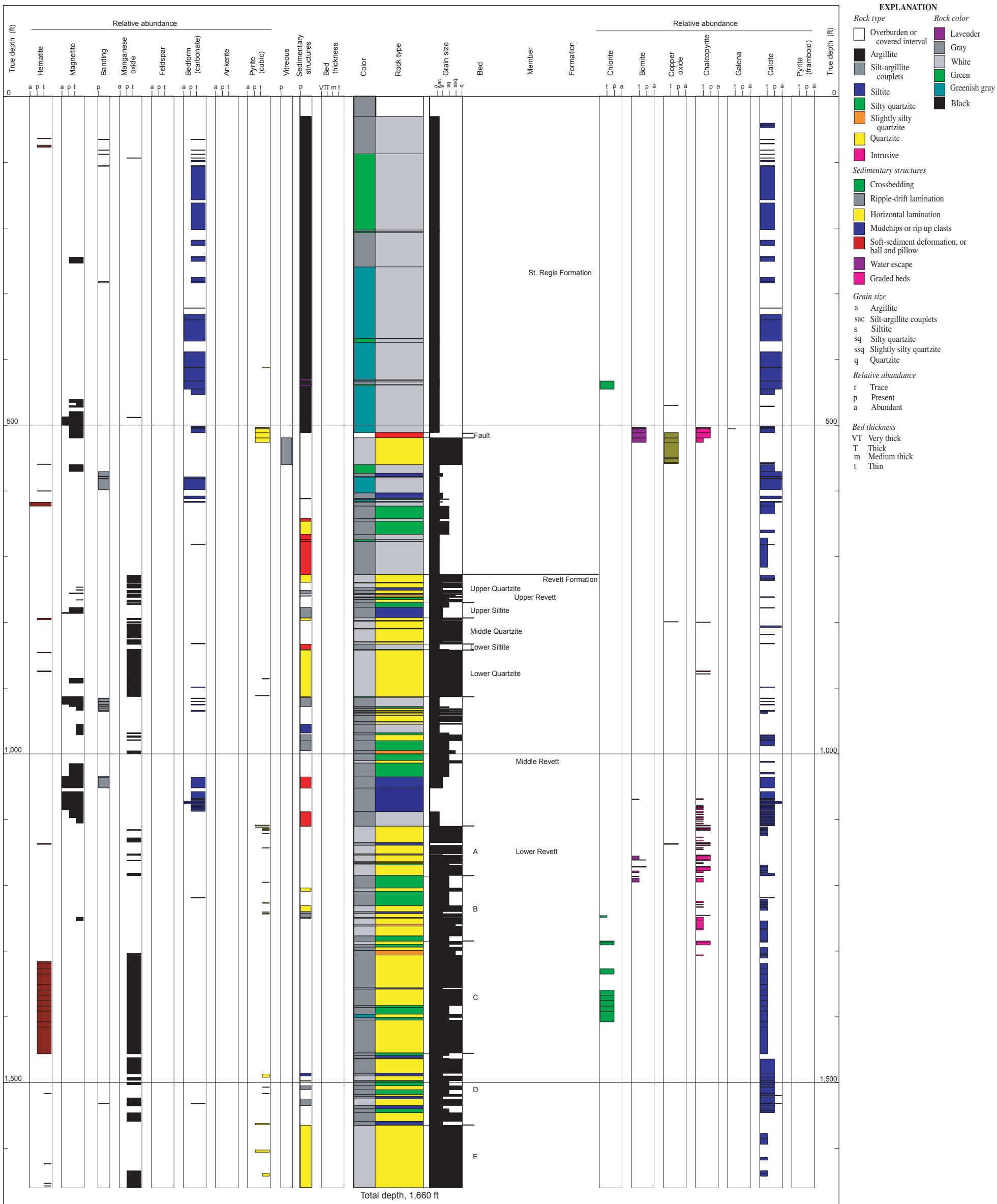
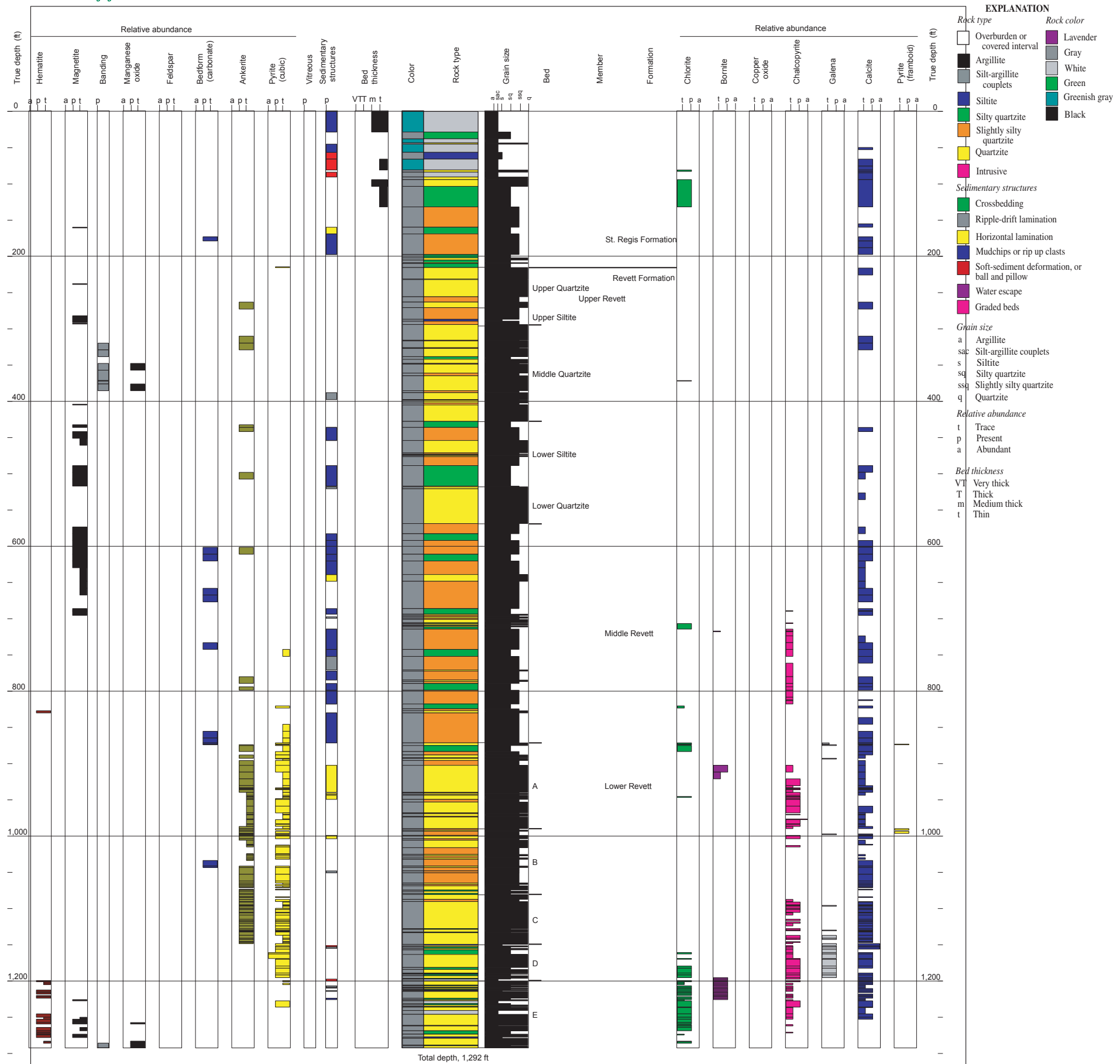


Figure A-42. DDH RC-47 (Rock Creek) diamond-drill-hole section

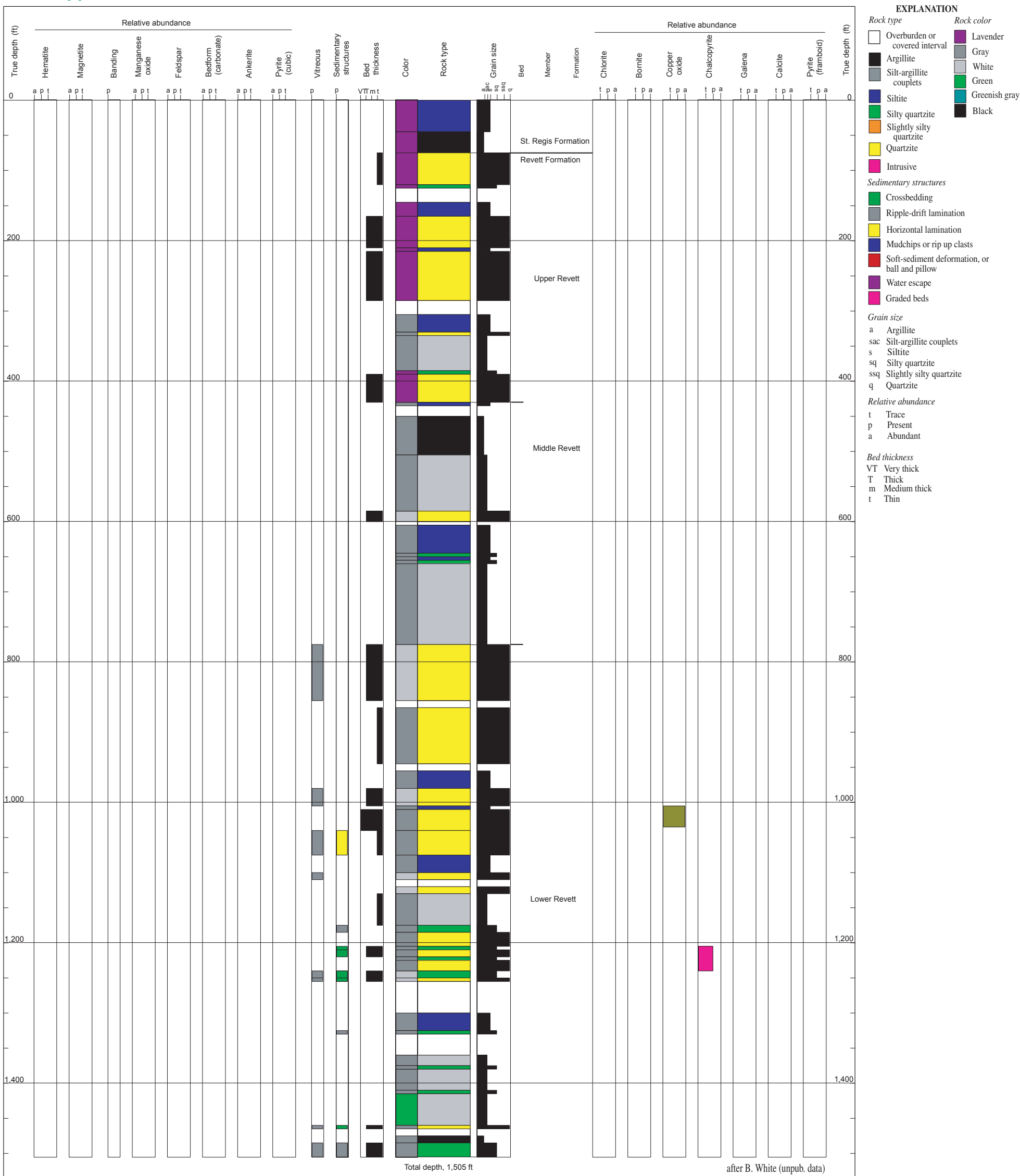
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

FIGURE A-43

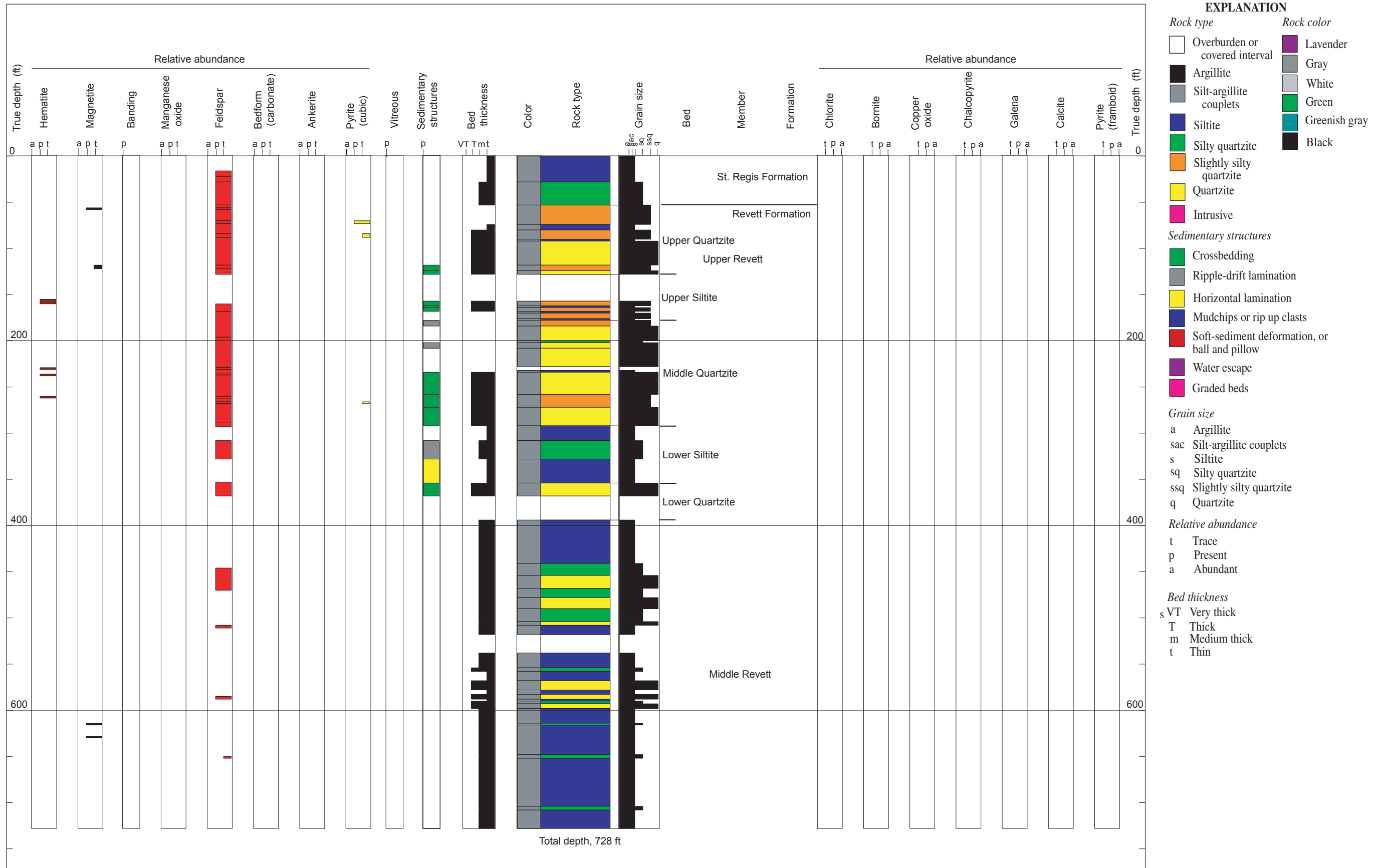


**Figure A-43. DDH RC-43 (Rock Creek) diamond-drill-hole section**

By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-44. Chicago Peak (White) measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-45. Rock Creek (East Fork) measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

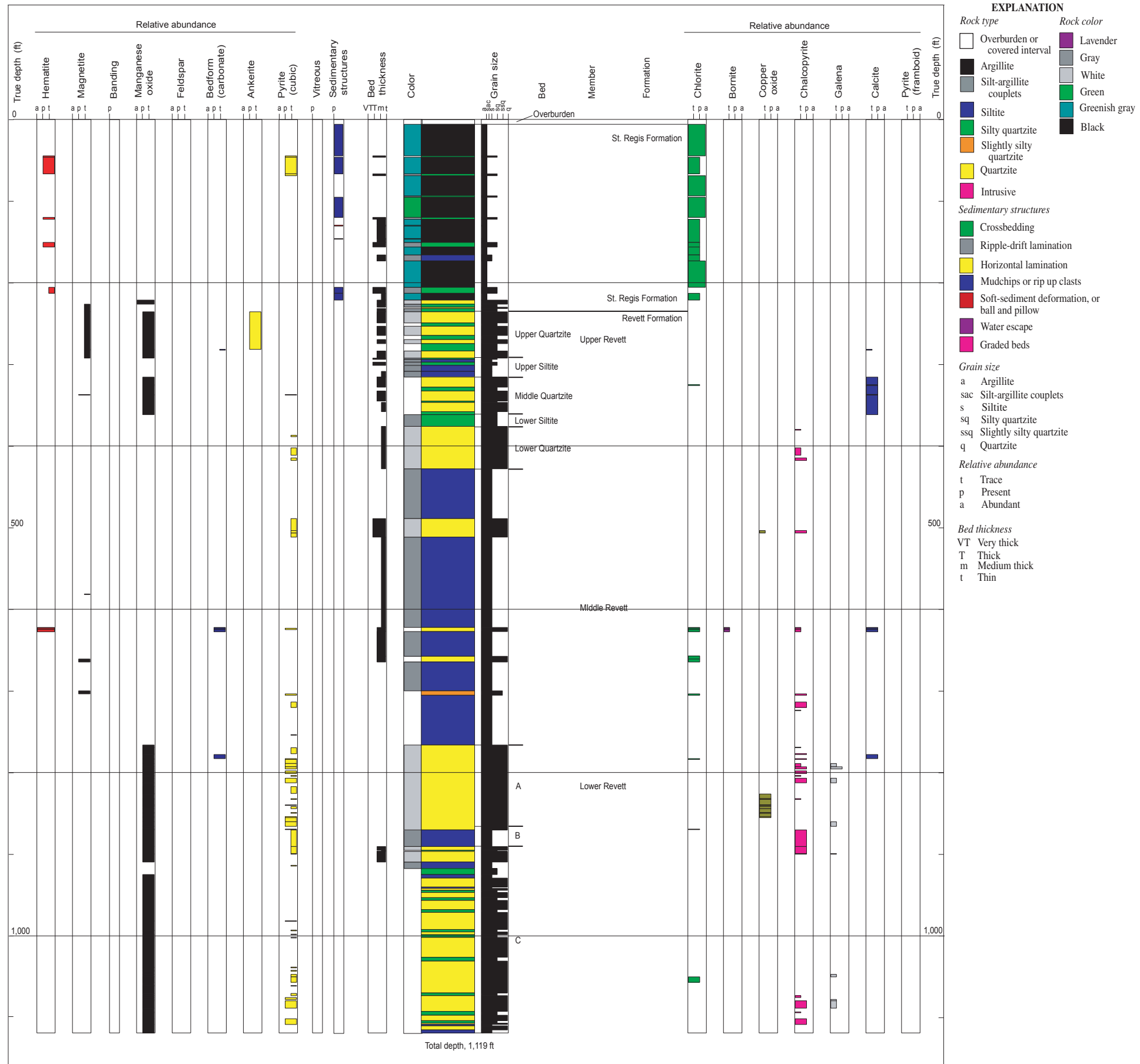
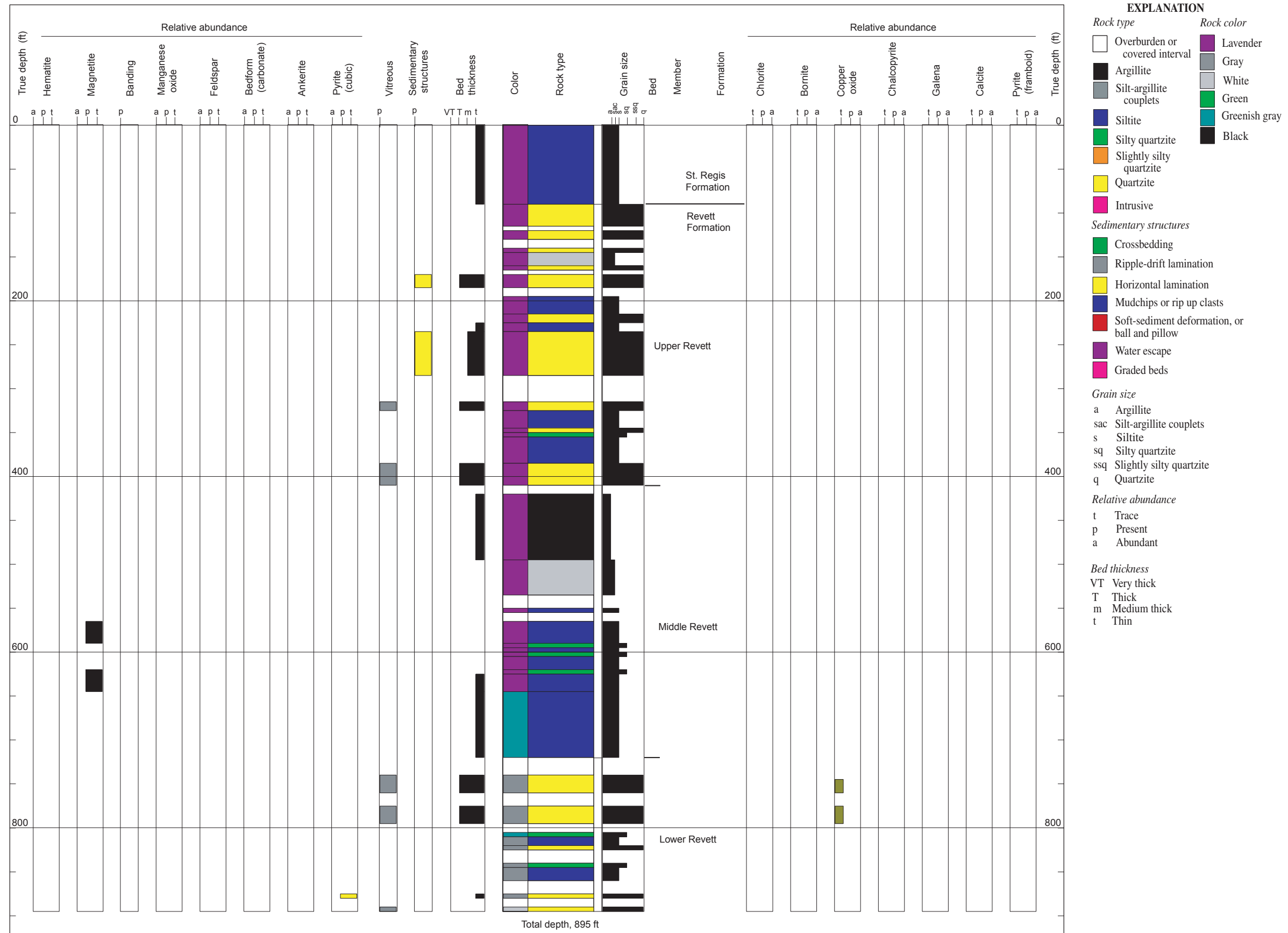


Figure A-46. DDH HF-1 (Hereford) diamond-drill-hole section

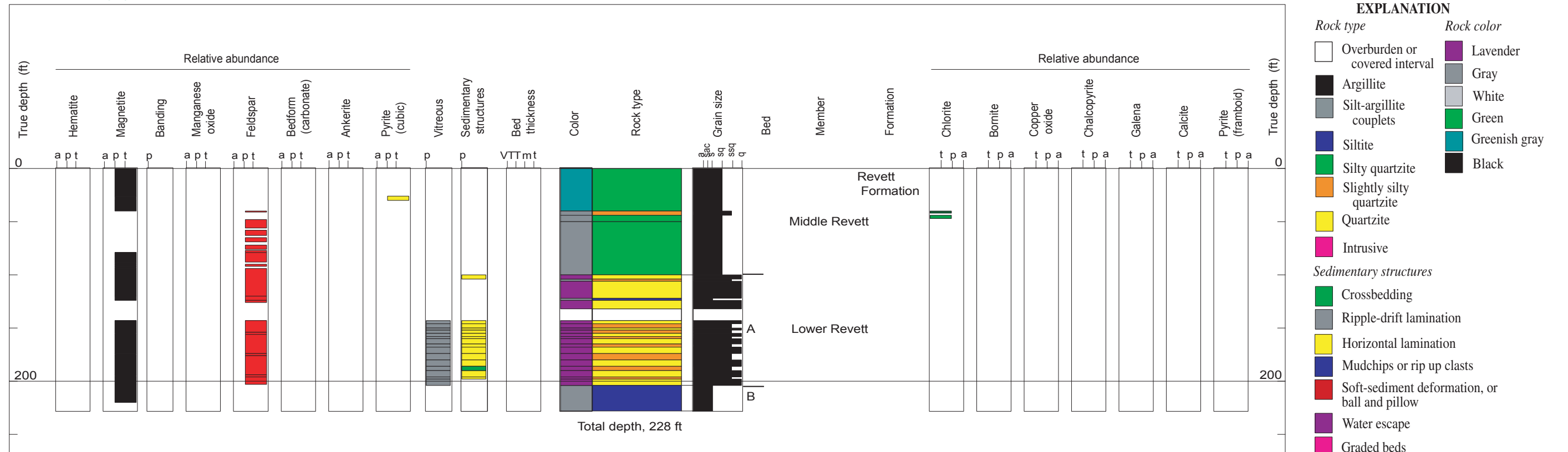
By David E. Boleneus, Larry M. Appelgate, Tracy L. Rehwald, and Craig F. Horlacher

FIGURE A-47



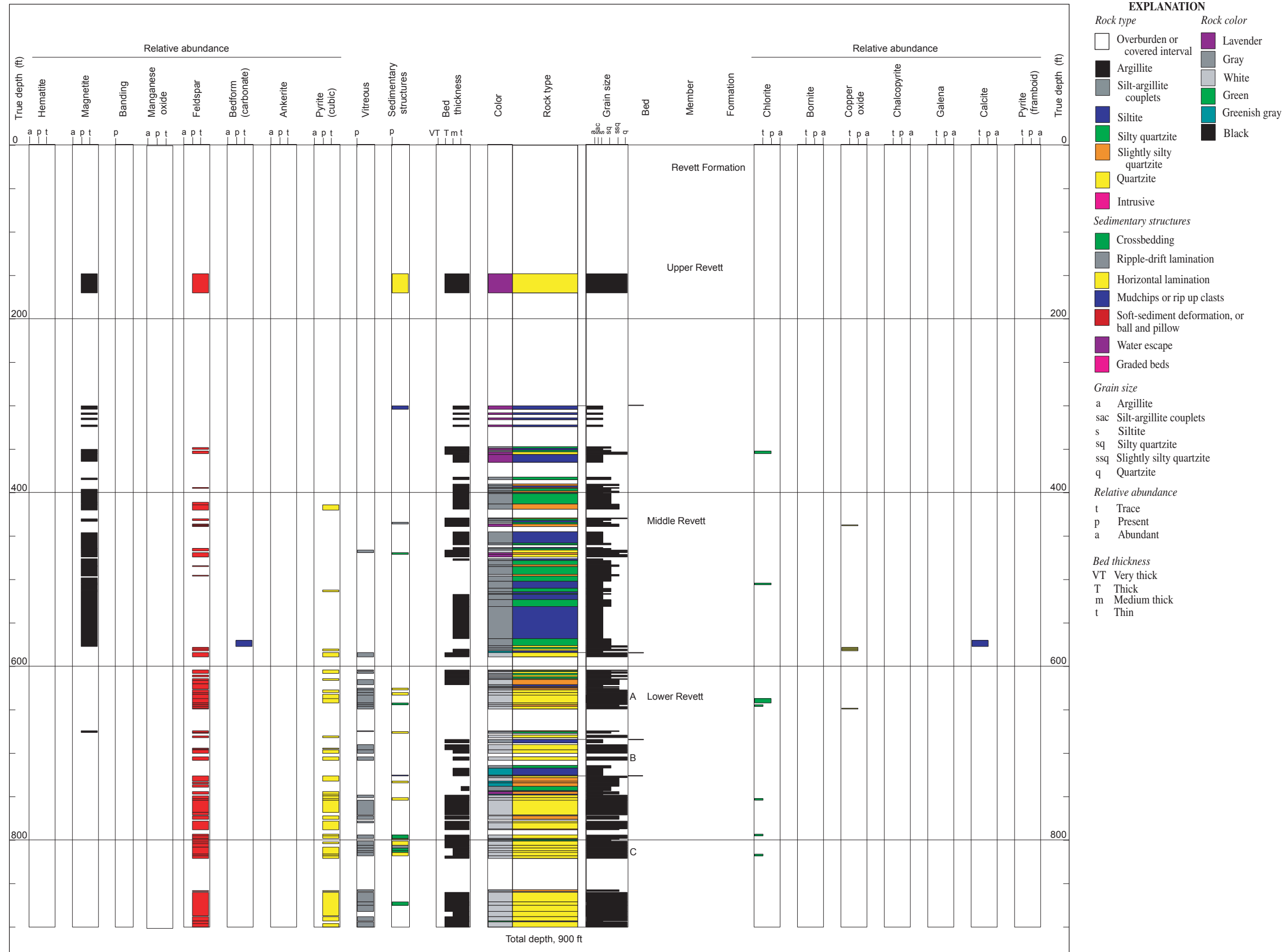
**Figure A-47. McKay Creek (White) measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



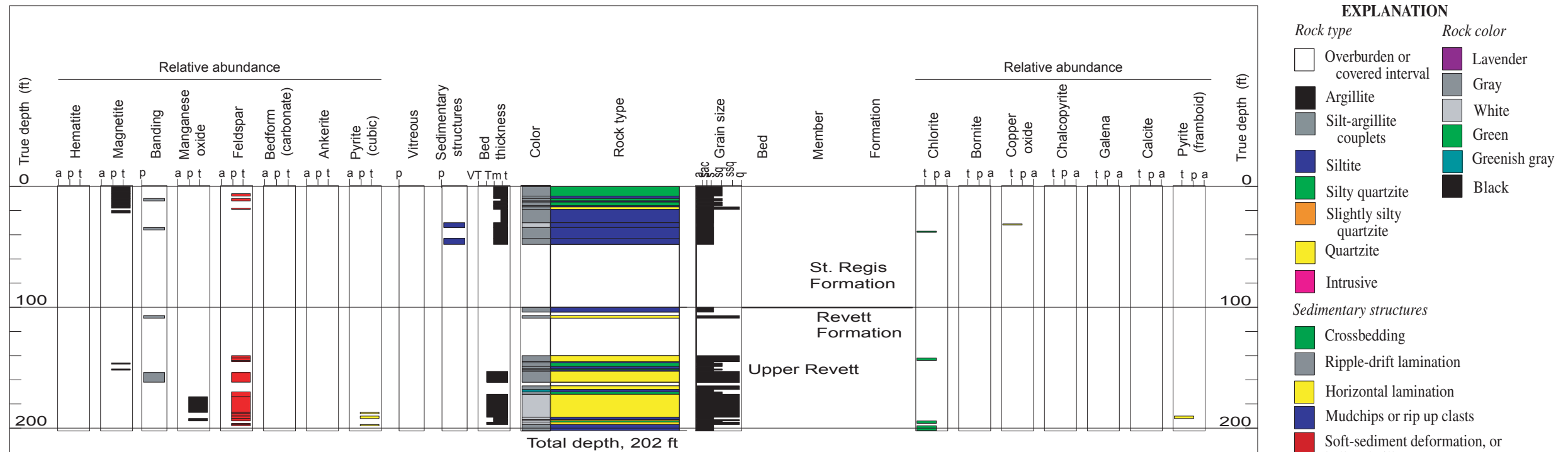


**Figure A-48. McKay Creek North measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

FIGURE A-49

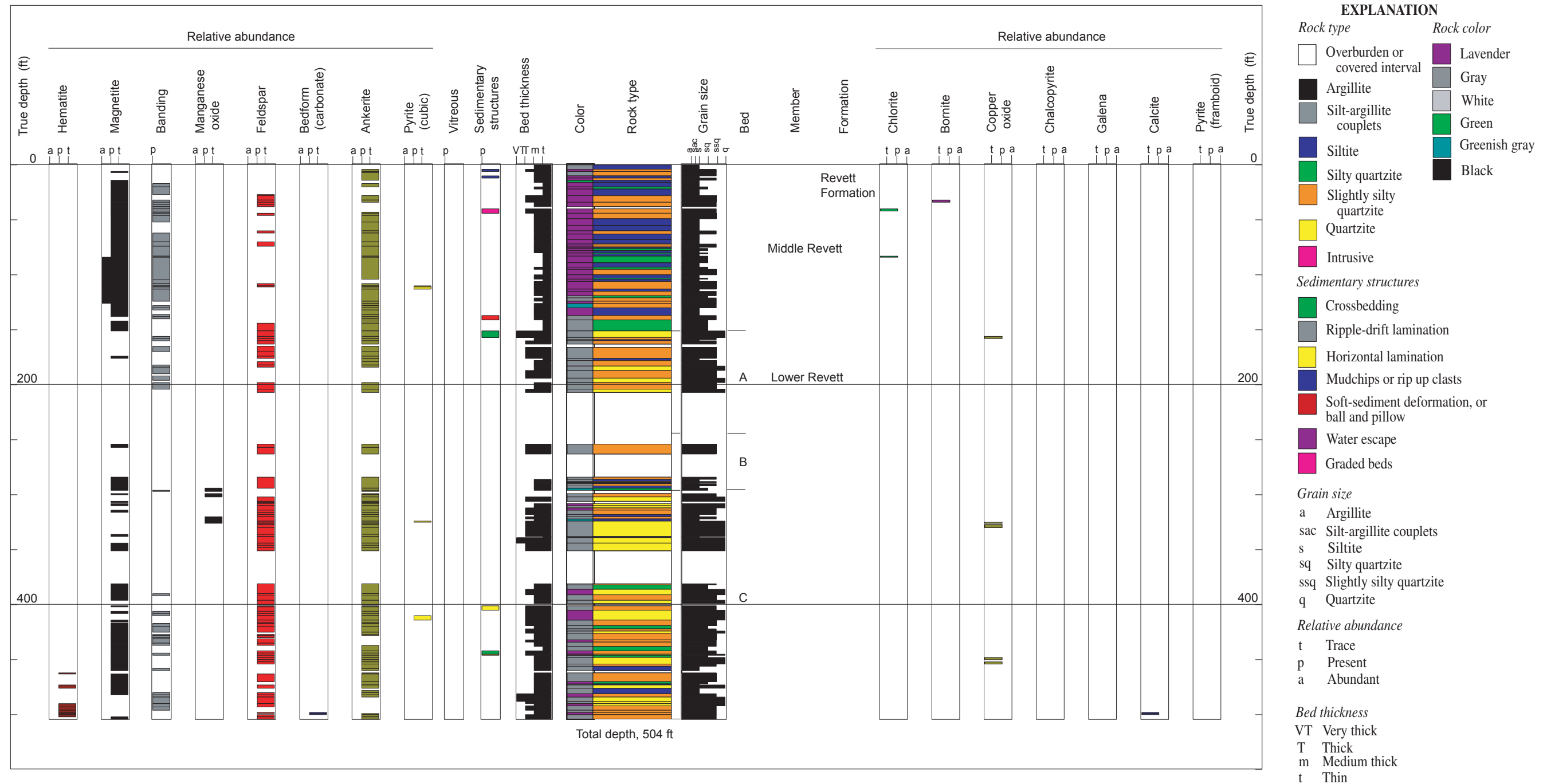


**Figure A-49. McKay Creek South measured section**  
 By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-50. Green Mountain measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

FIGURE A-51



**Figure A-51. Waloven Creek (lower) measured section**

**By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase**

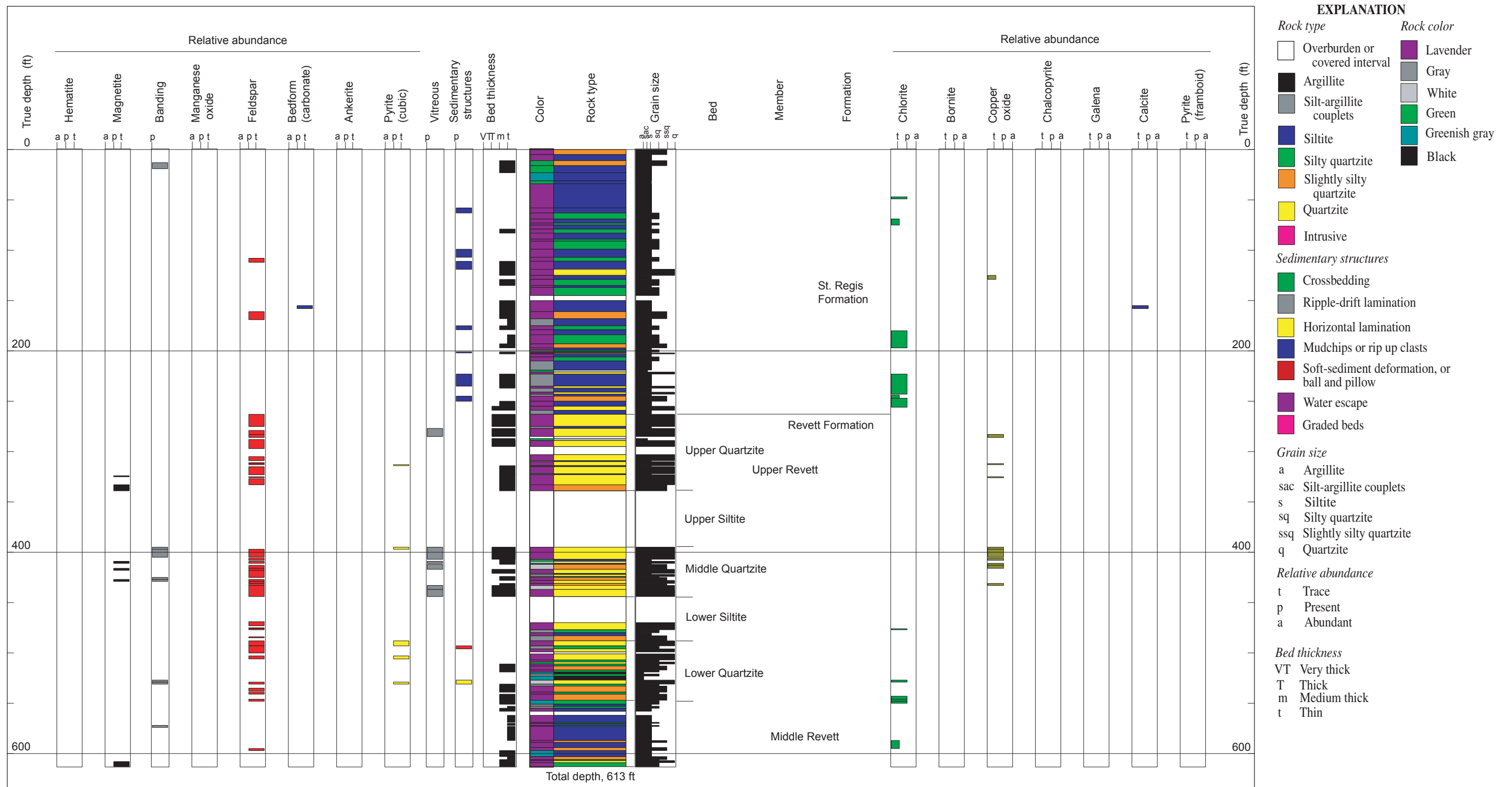


Figure A-52. Waloven Creek (upper) measured section

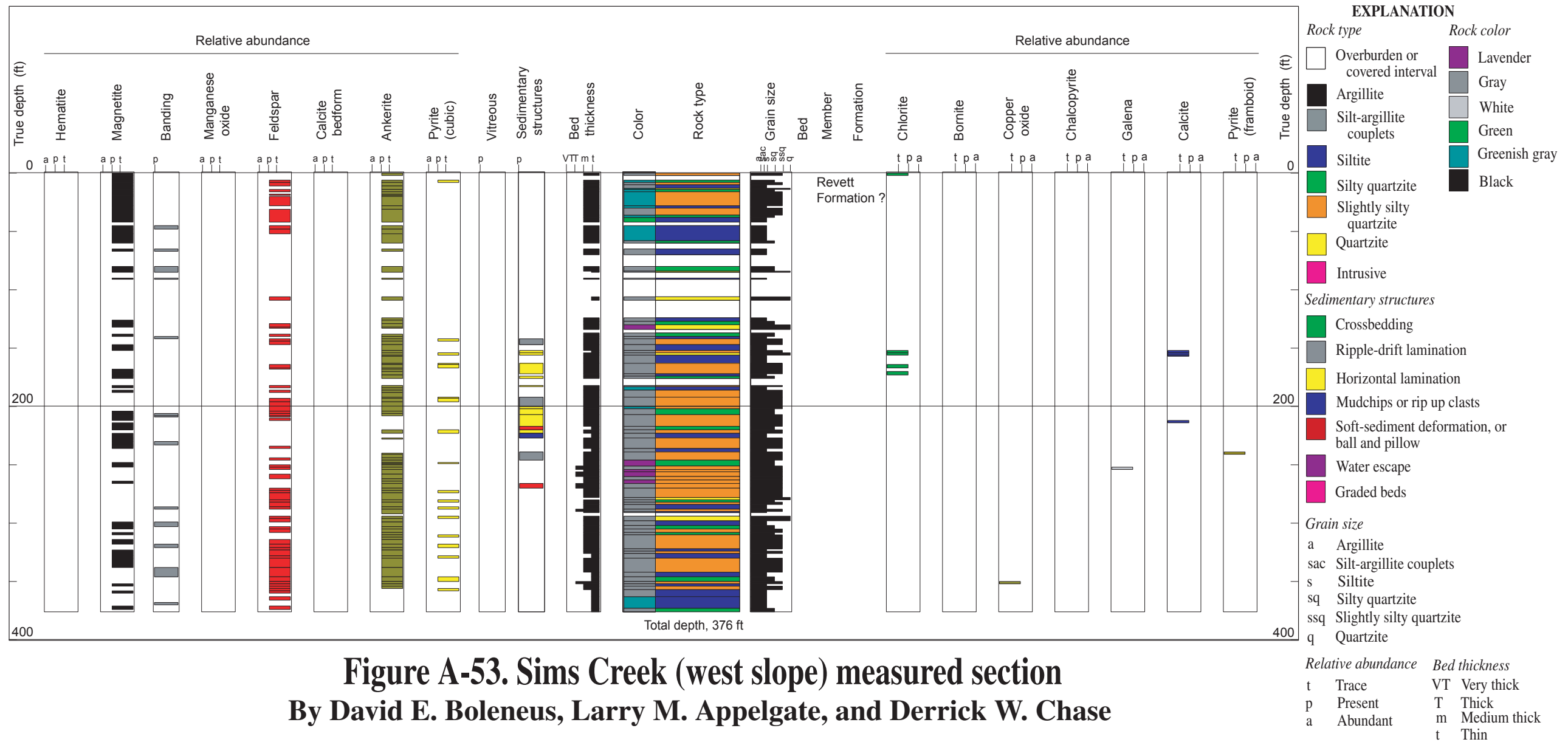
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



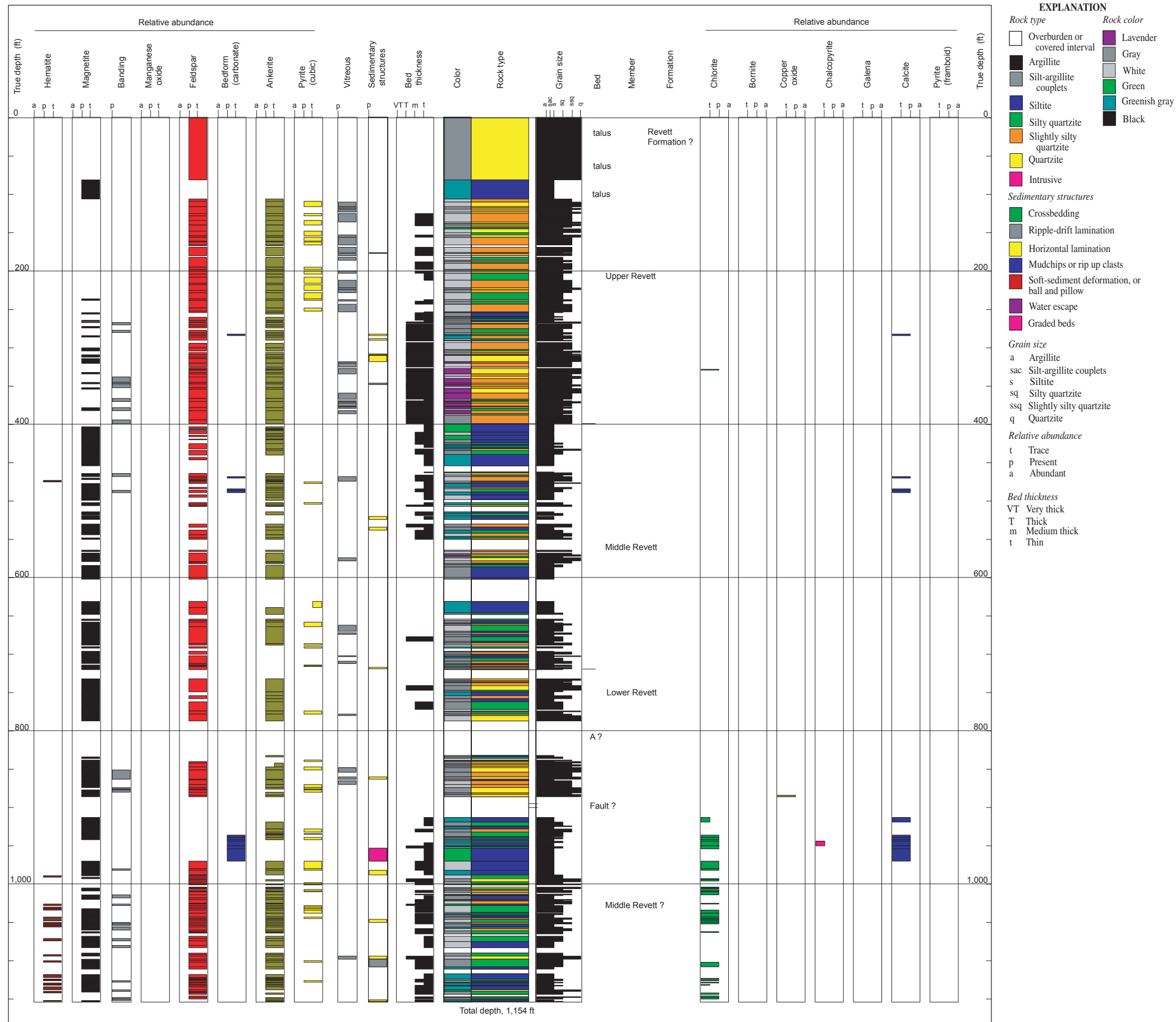
U.S. DEPARTMENT OF THE INTERIOR  
U.S. GEOLOGICAL SURVEY

SCIENTIFIC INVESTIGATIONS REPORT 2005-5231

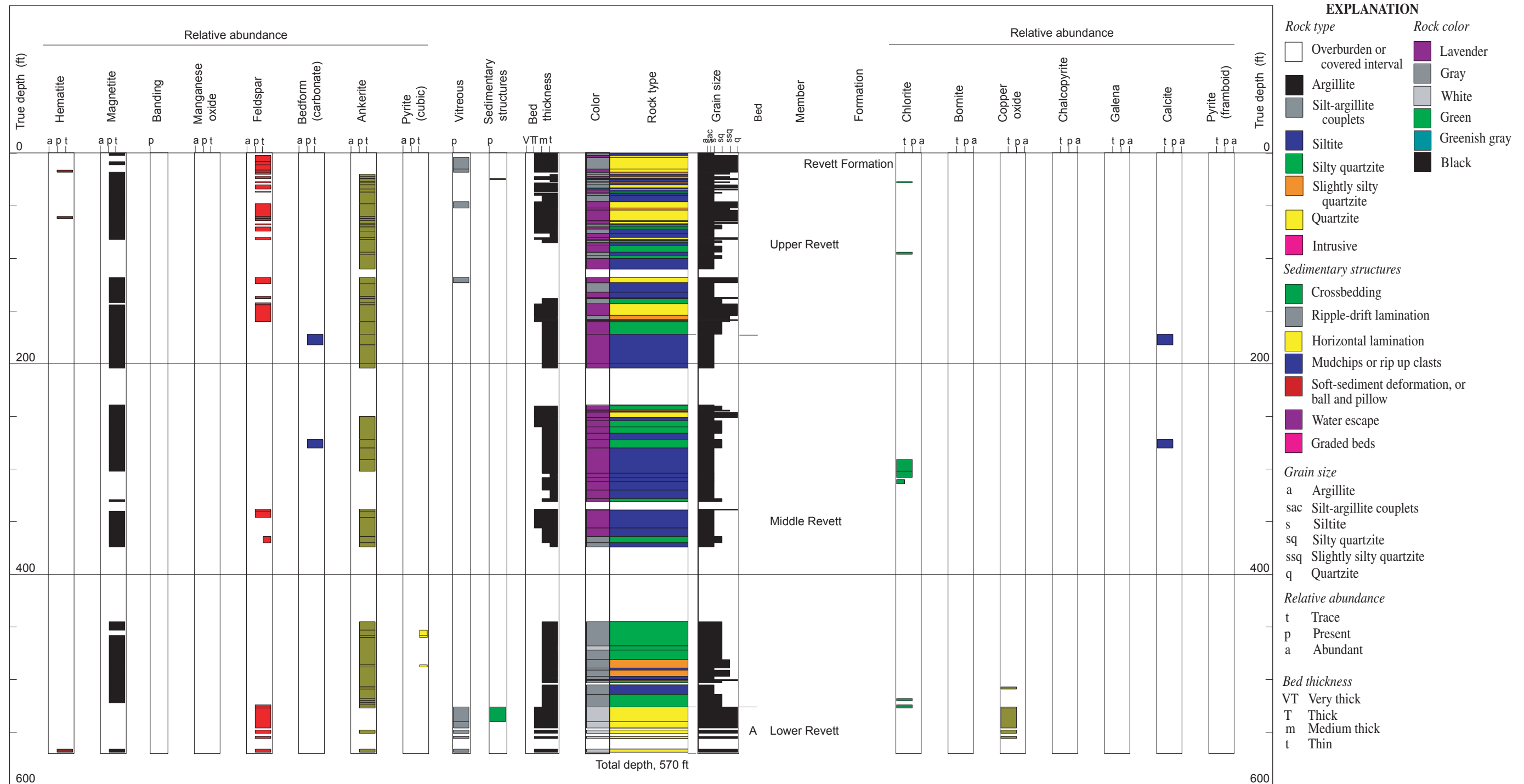
FIGURE A-53



**Figure A-53. Sims Creek (west slope) measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



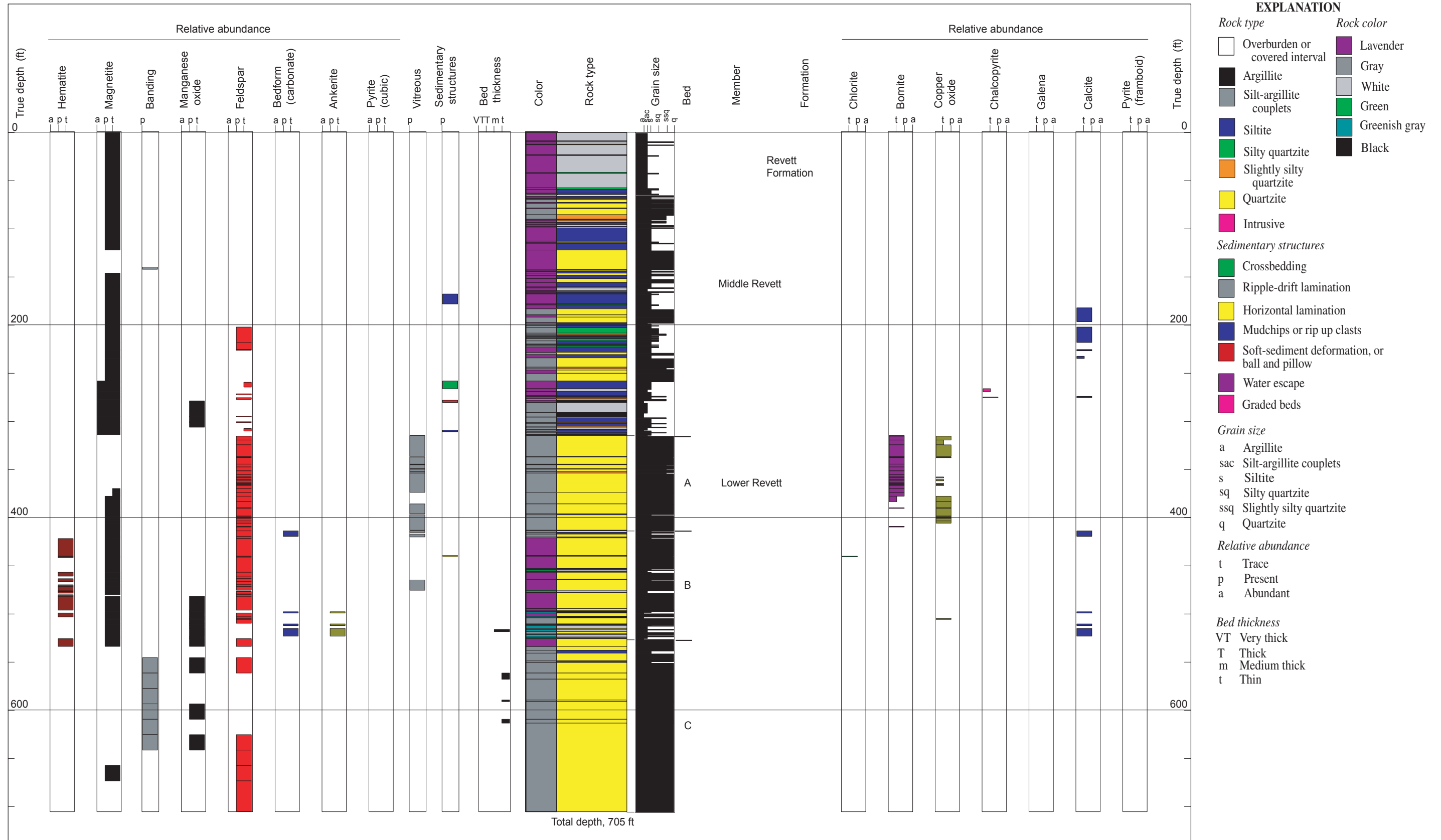
**Figure A-54. Sims Creek 1, 2 (east slope) measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-55. Miners Gulch (Vermilion River) measured section**

**By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase**

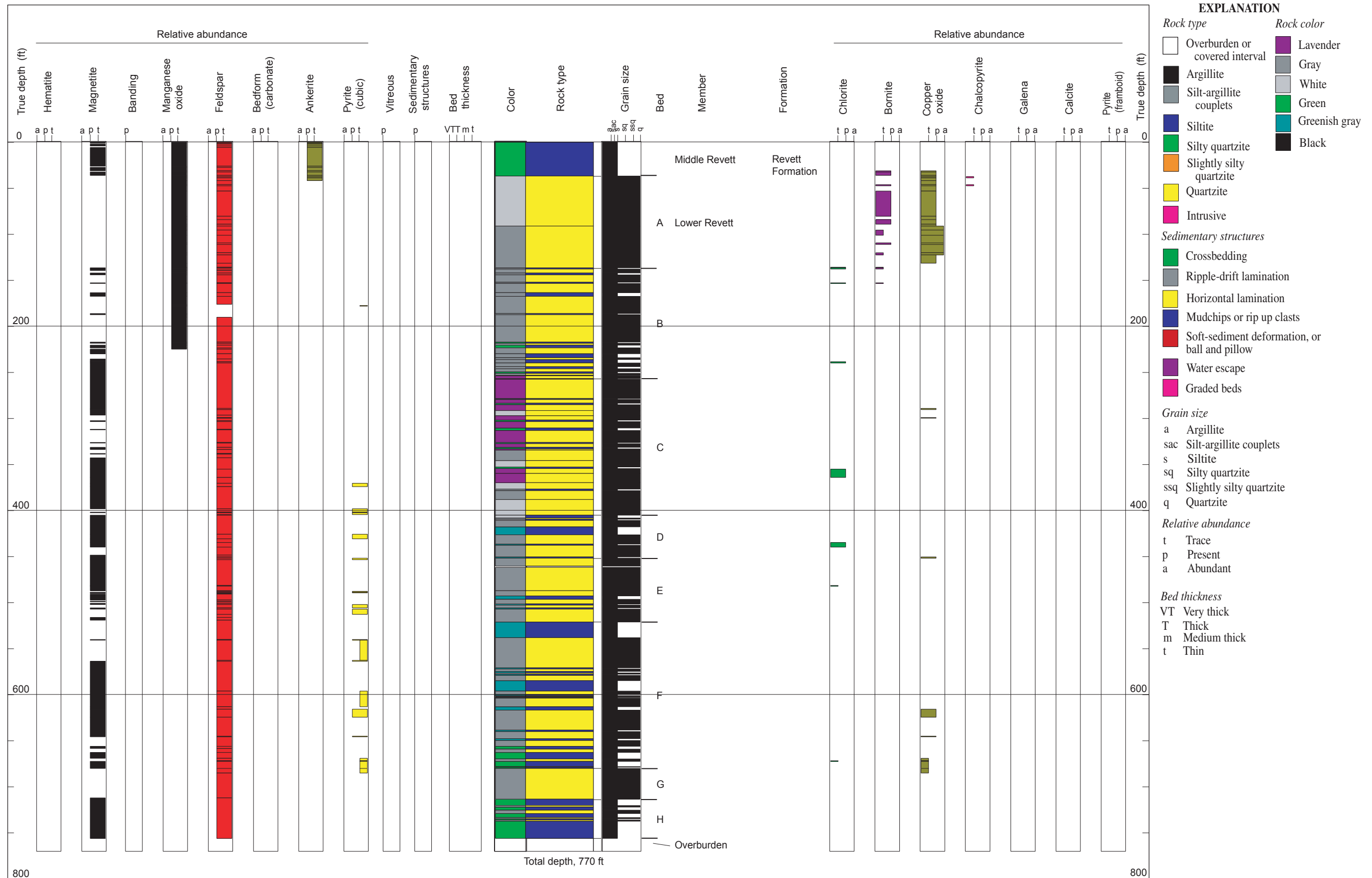




**Figure A-56. DDH VR-11 (Vermilion River) diamond-drill-hole section**

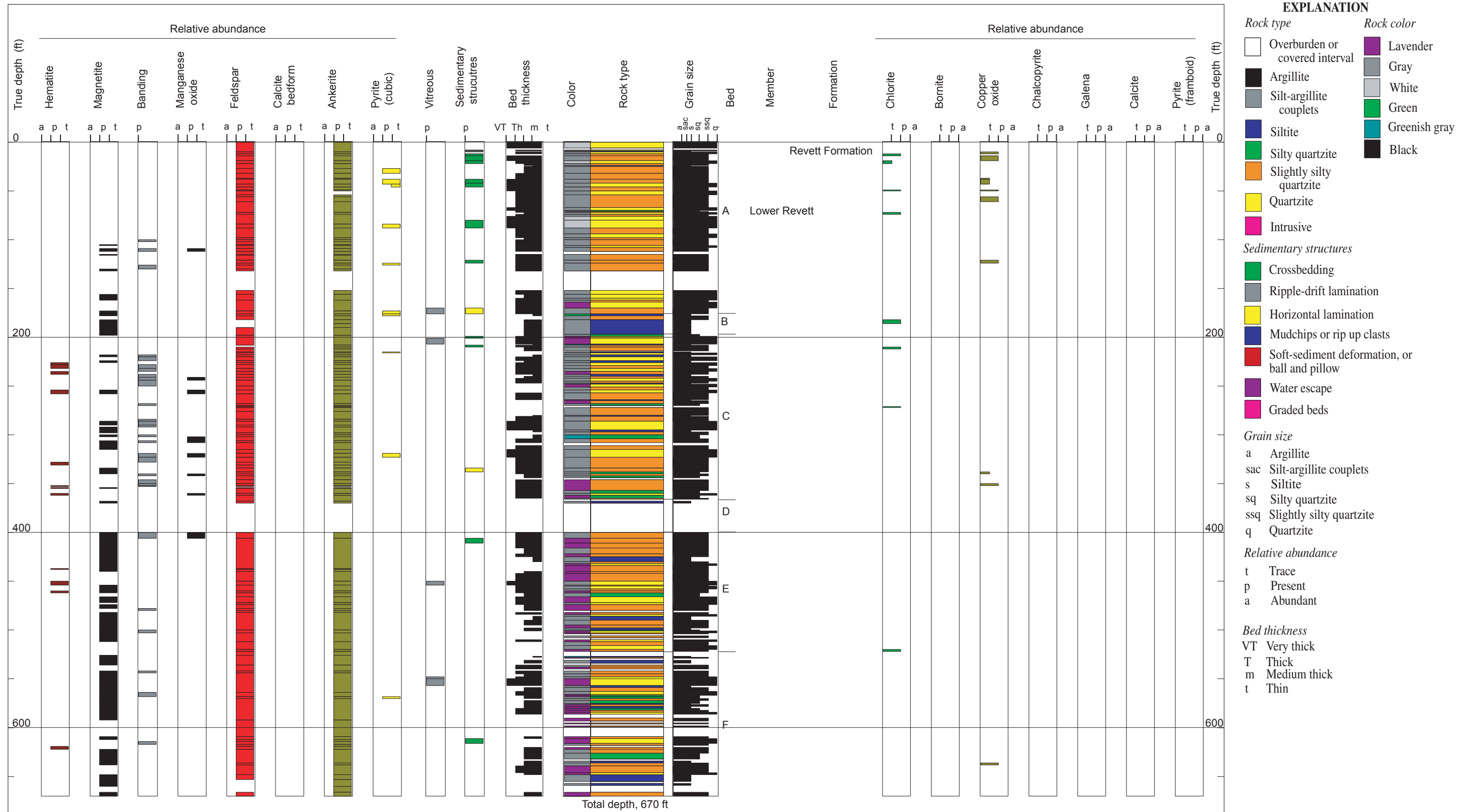
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

FIGURE A-57



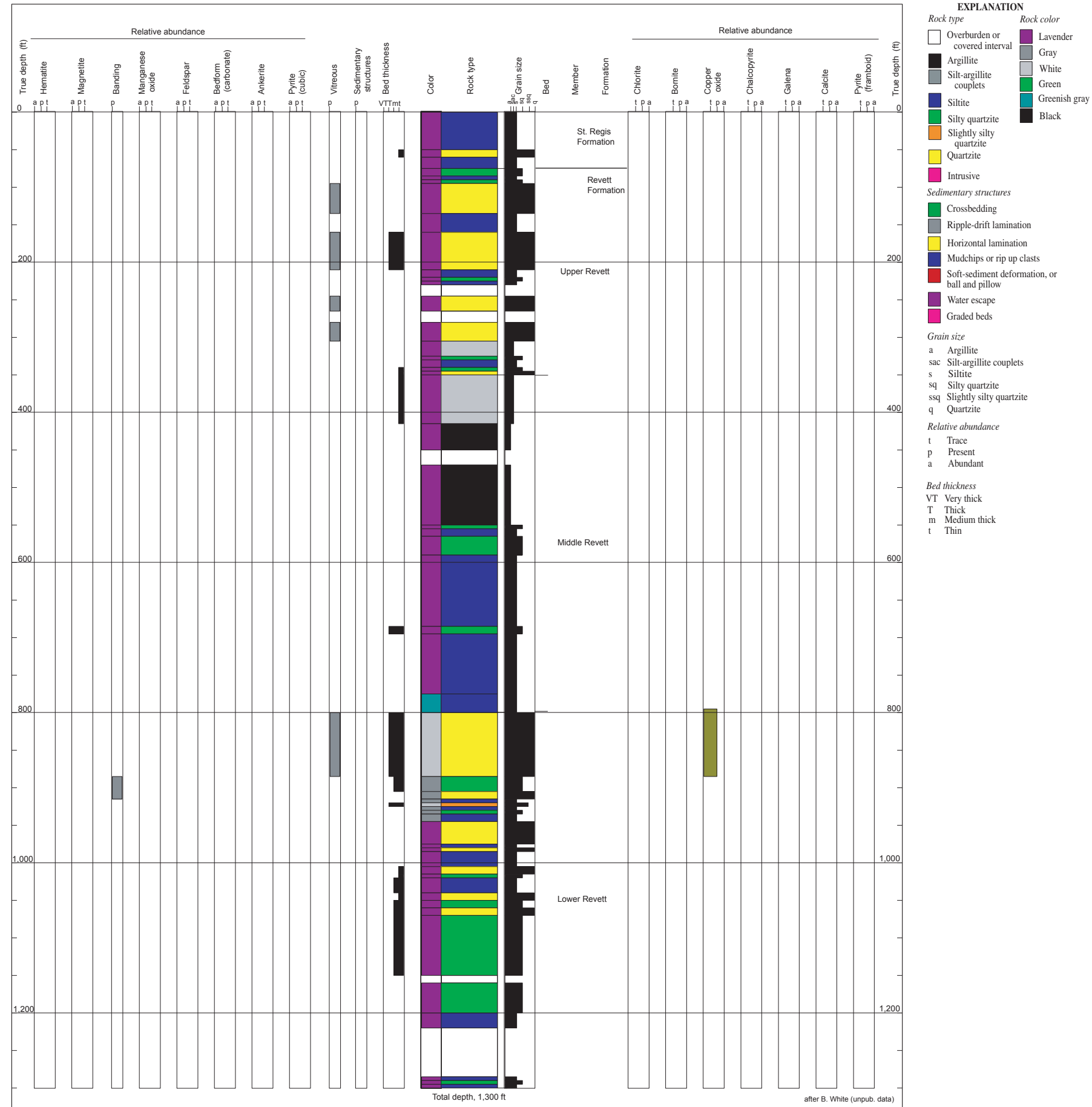
**Figure A-57. DDH VR-4 (Vermilion River) diamond-drill-hole section**

By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

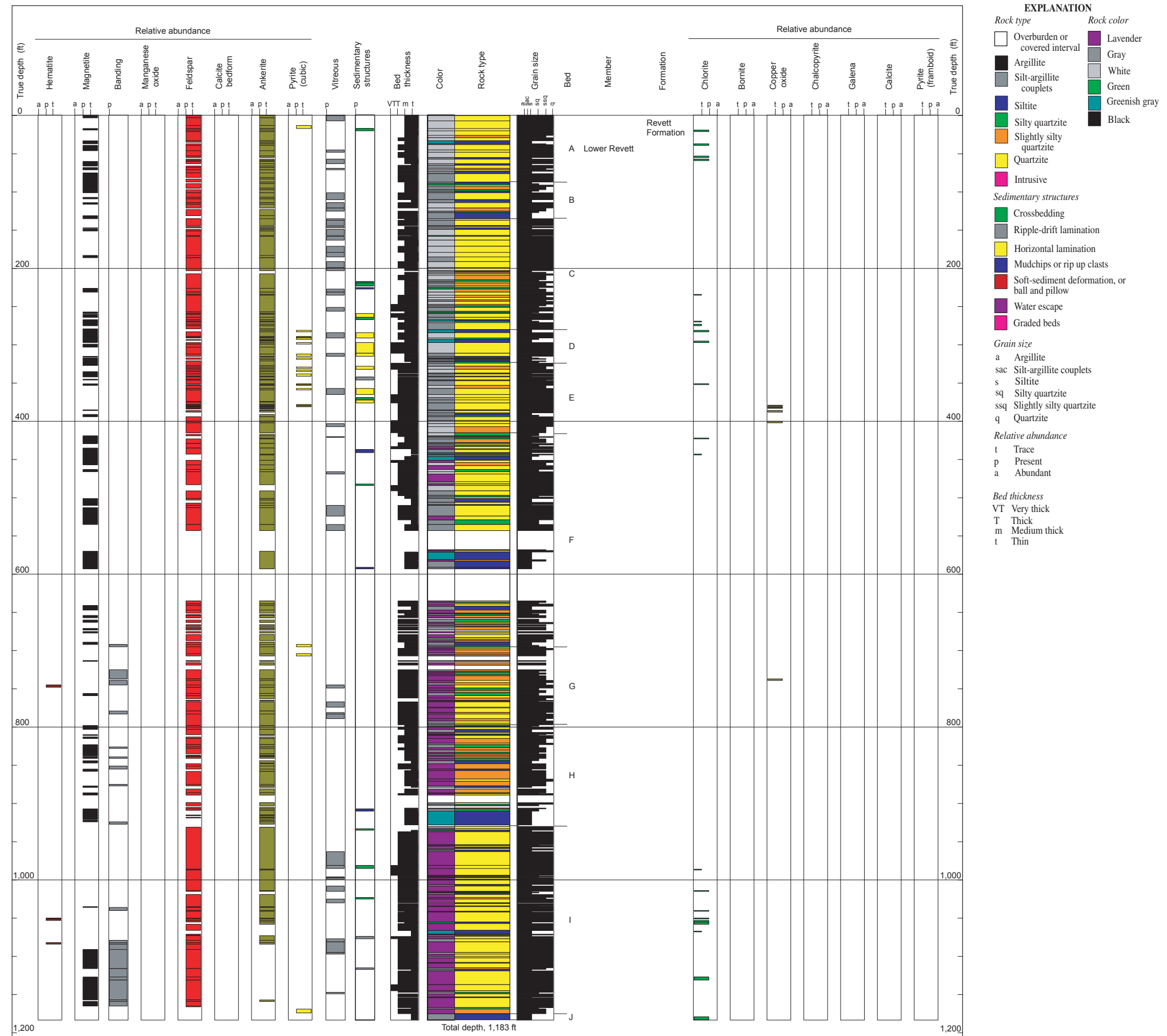


**Figure A-58. Rush Lake measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

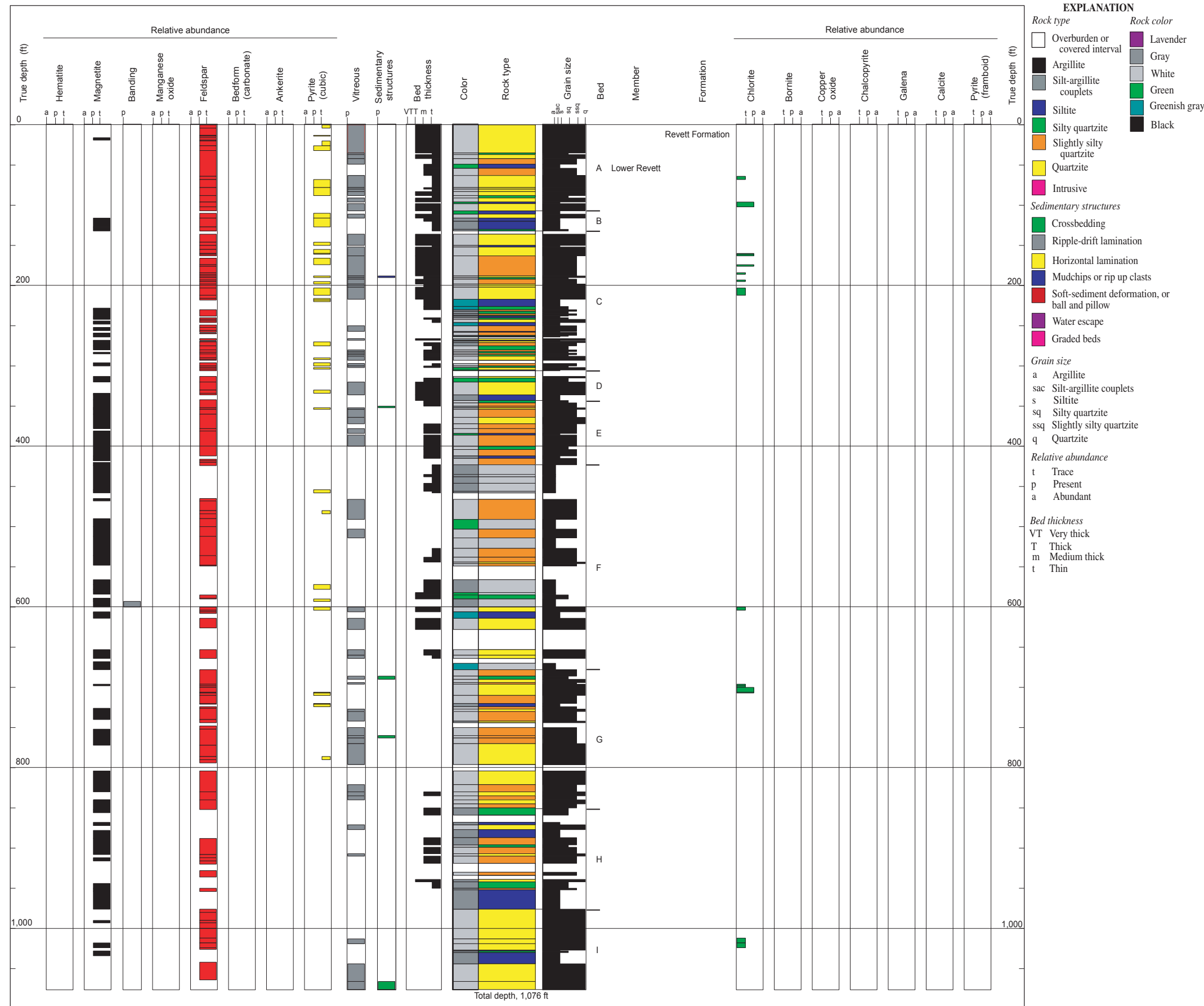
FIGURE A-59



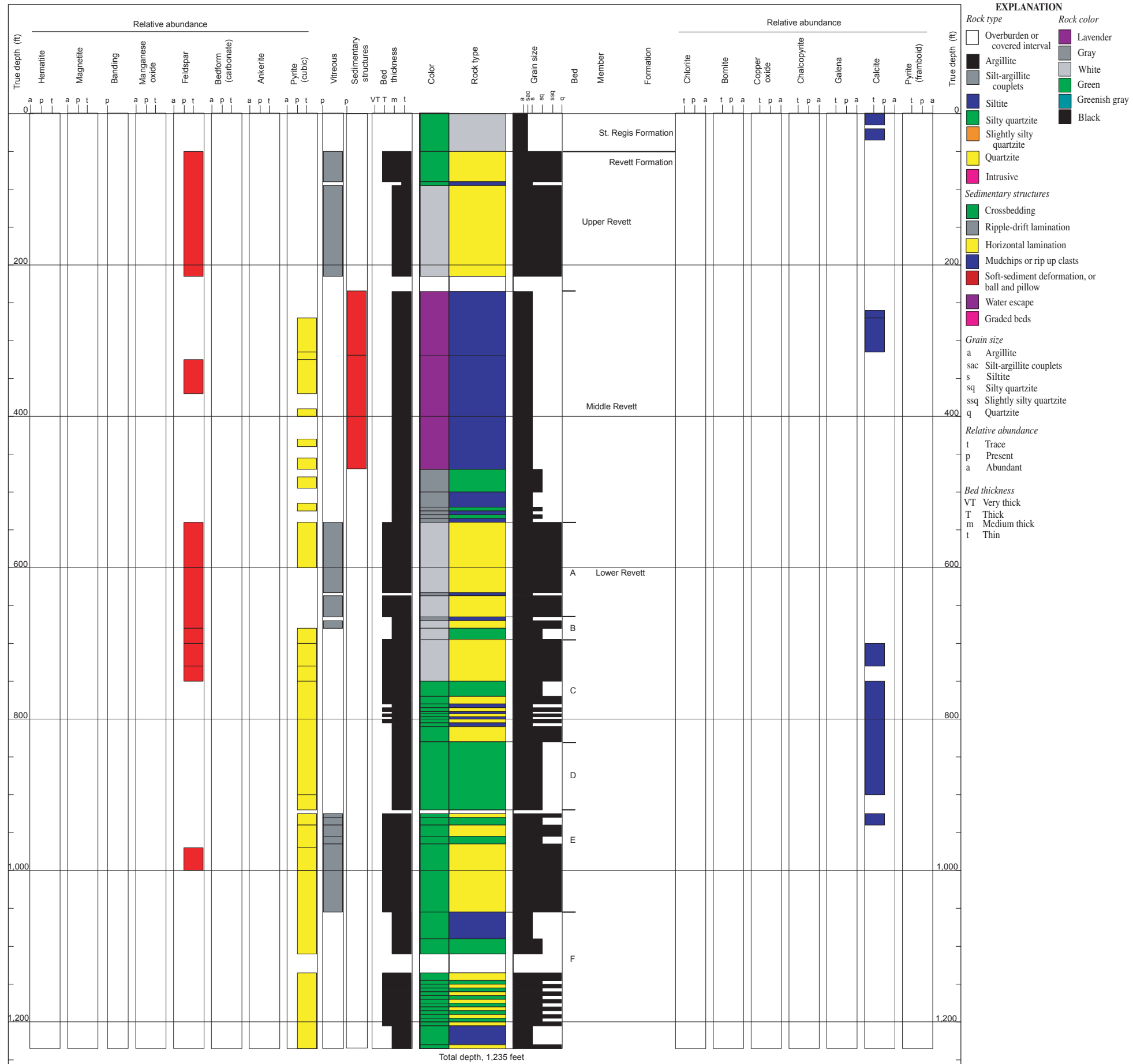
**Figure A-59. Vermilion River (White) measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



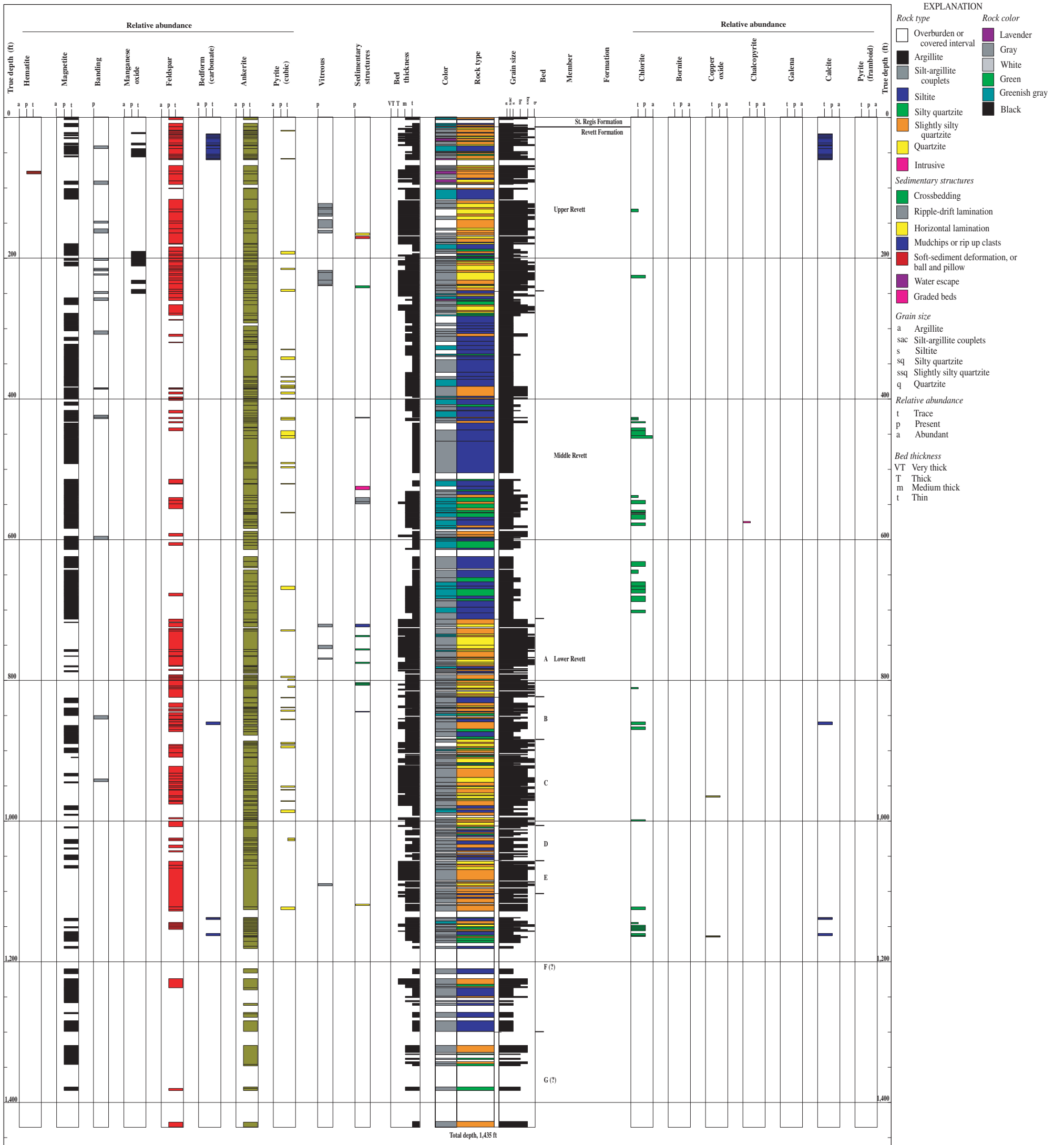
**Figure A-60. Slide Rock Mountain measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-61. Deep Creek measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

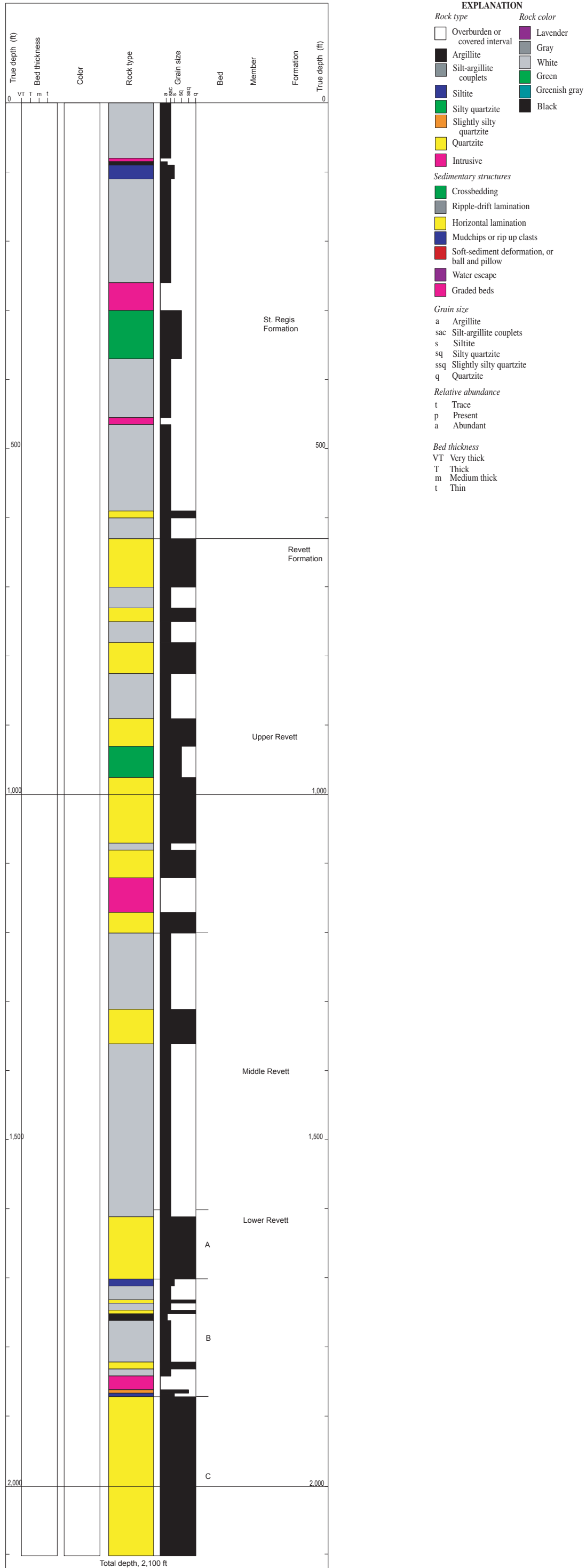


**Figure A-62. Graves Peak measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

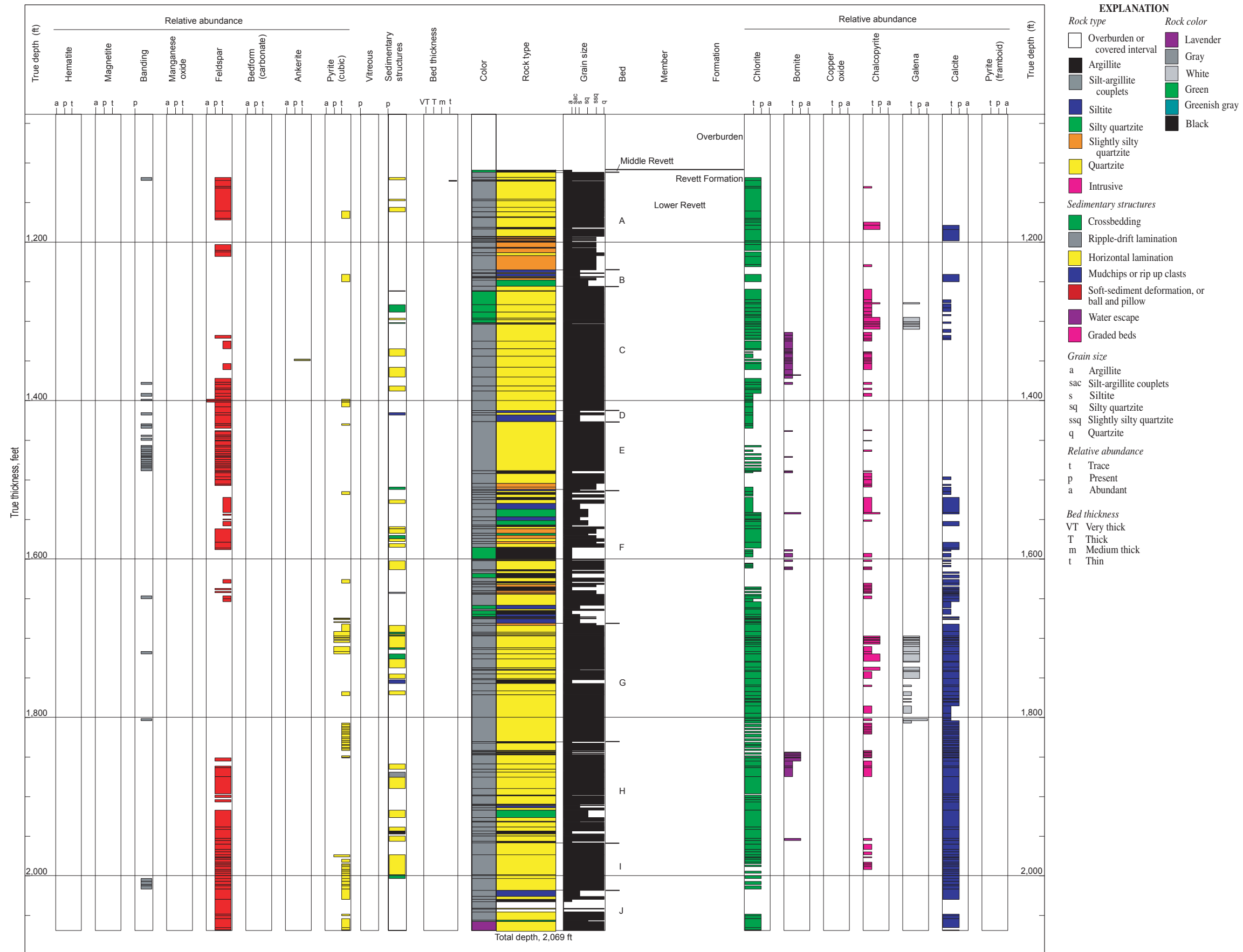


**Figure A-63. Graves Creek Falls measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase





**Figure A-64. Thompson River measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



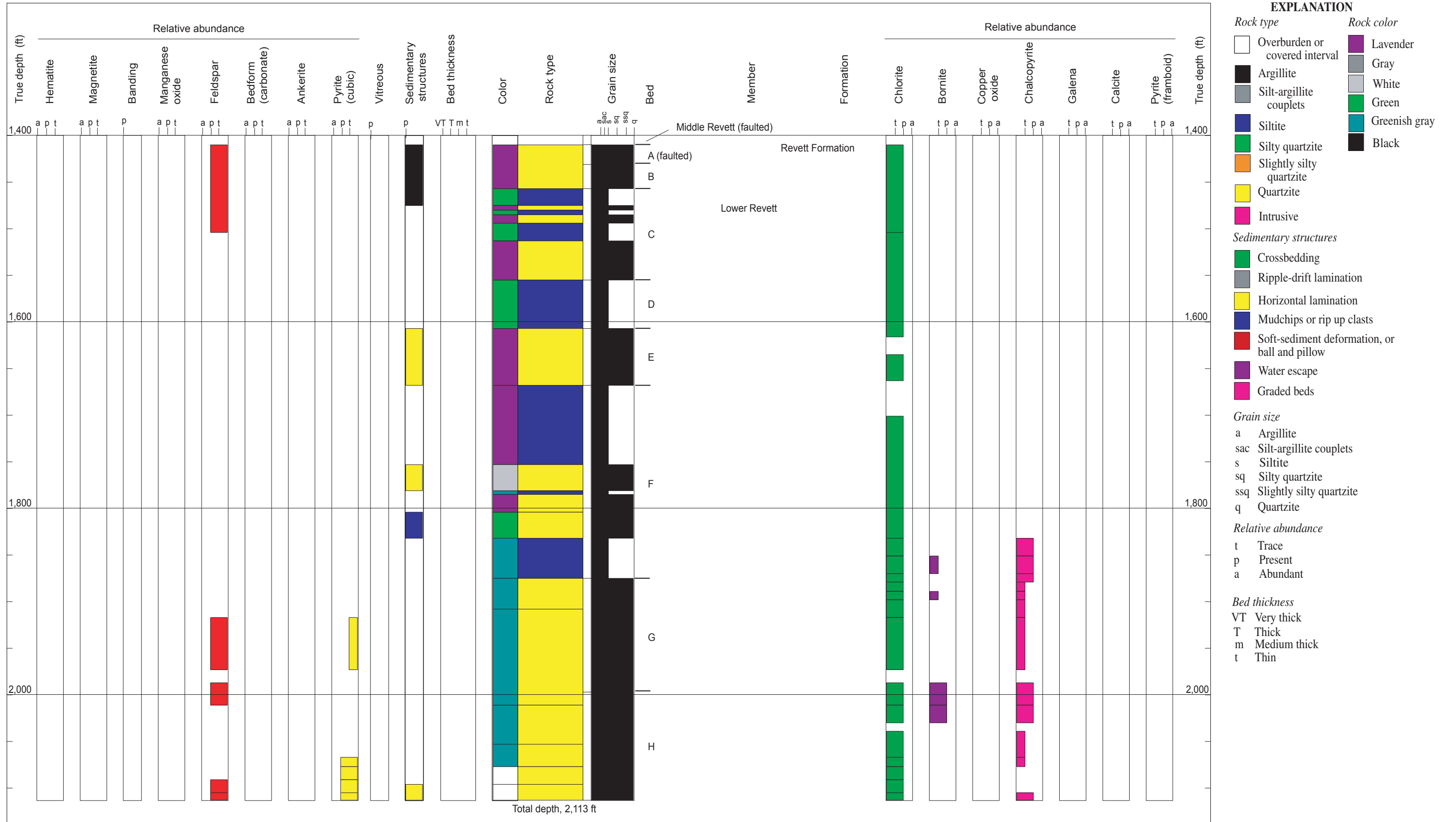
**Figure A-65. DDH TC-9 (Trout Creek) diamond-drill-hole section**

By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

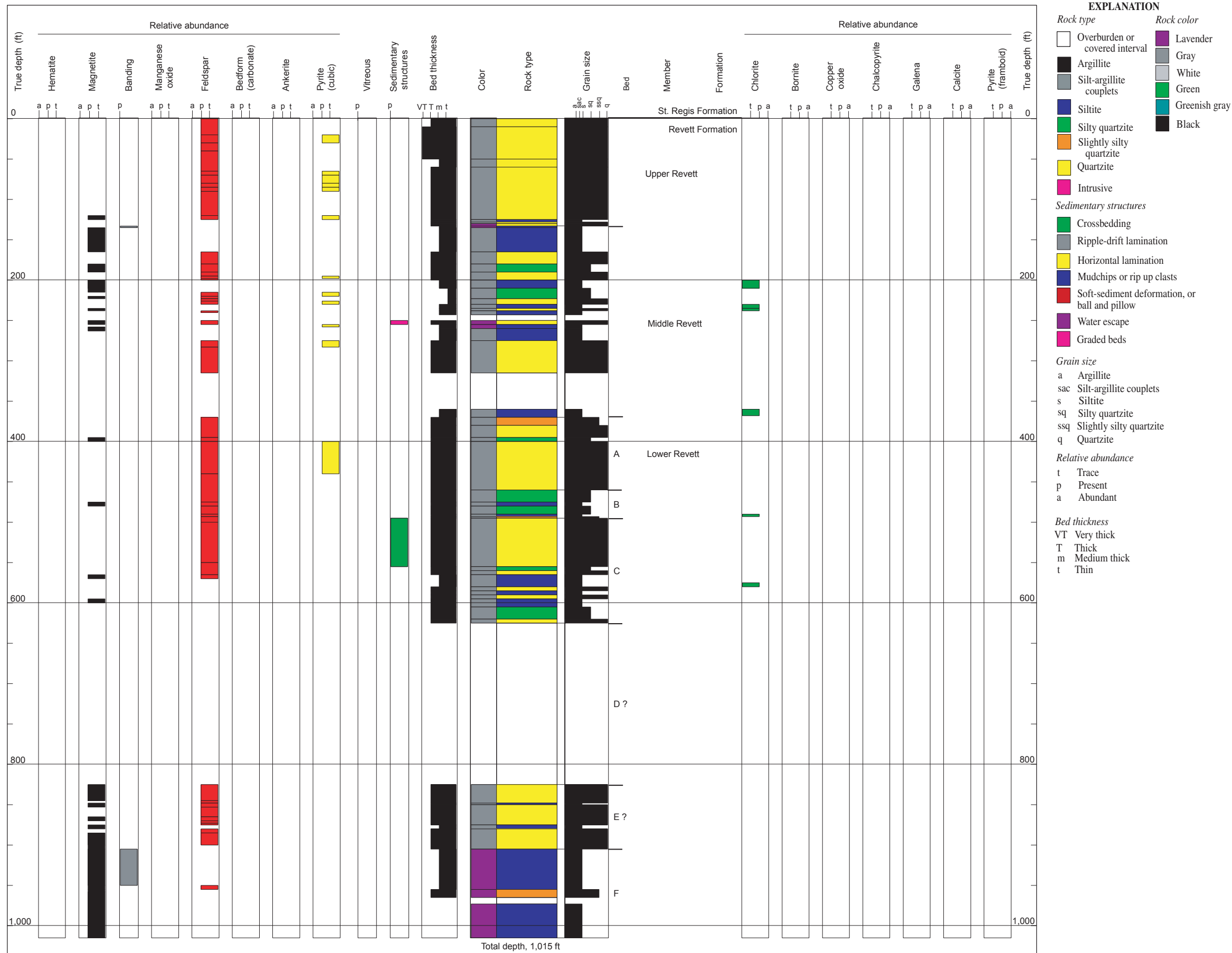


**Figure A-66. DDH TC-8 (Trout Creek) diamond-drill-hole section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

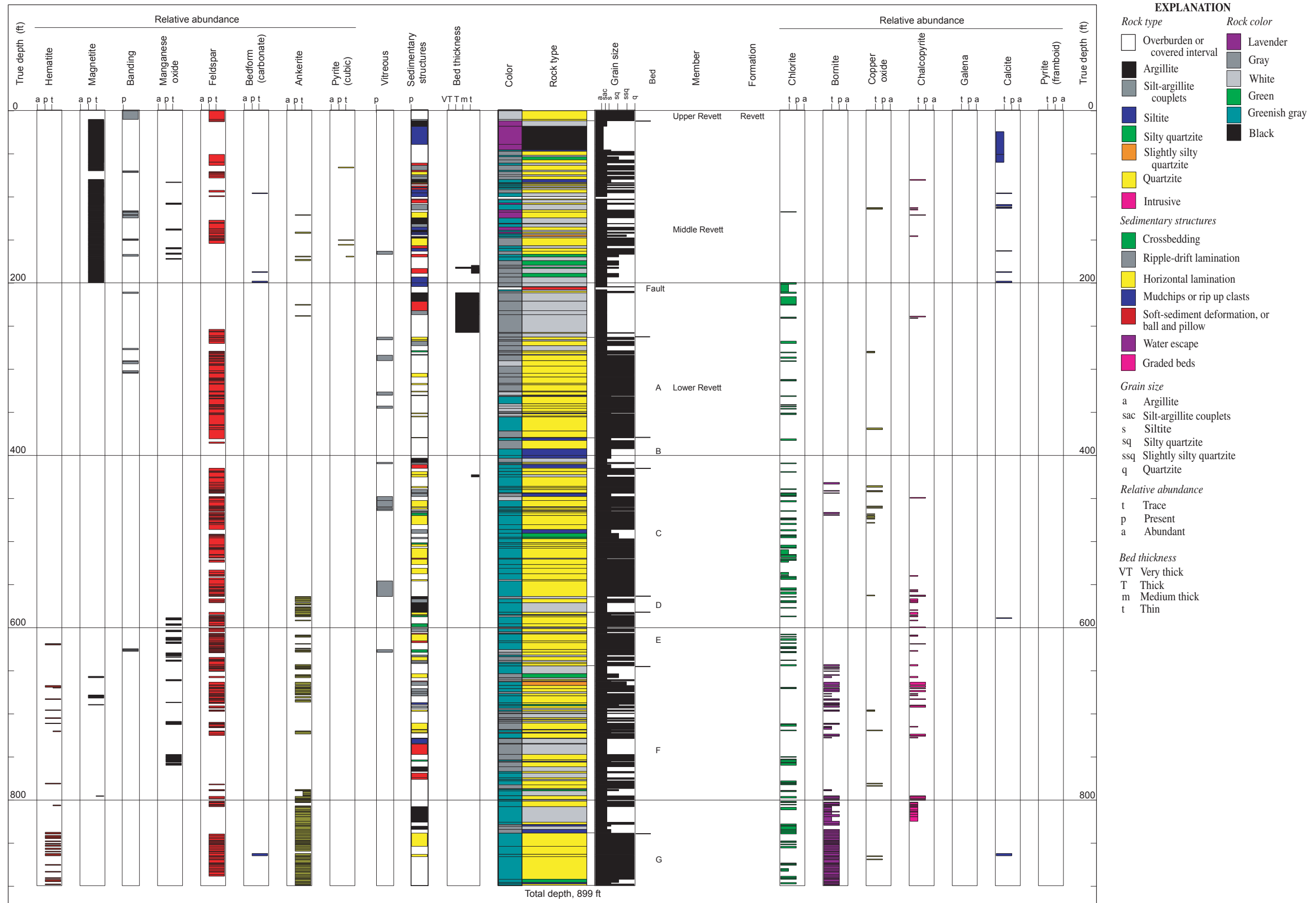
FIGURE A-67



**Figure A-67. DDH TC-10 (Trout Creek) diamond-drill-hole section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-68. Trout Creek 1, 2 measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



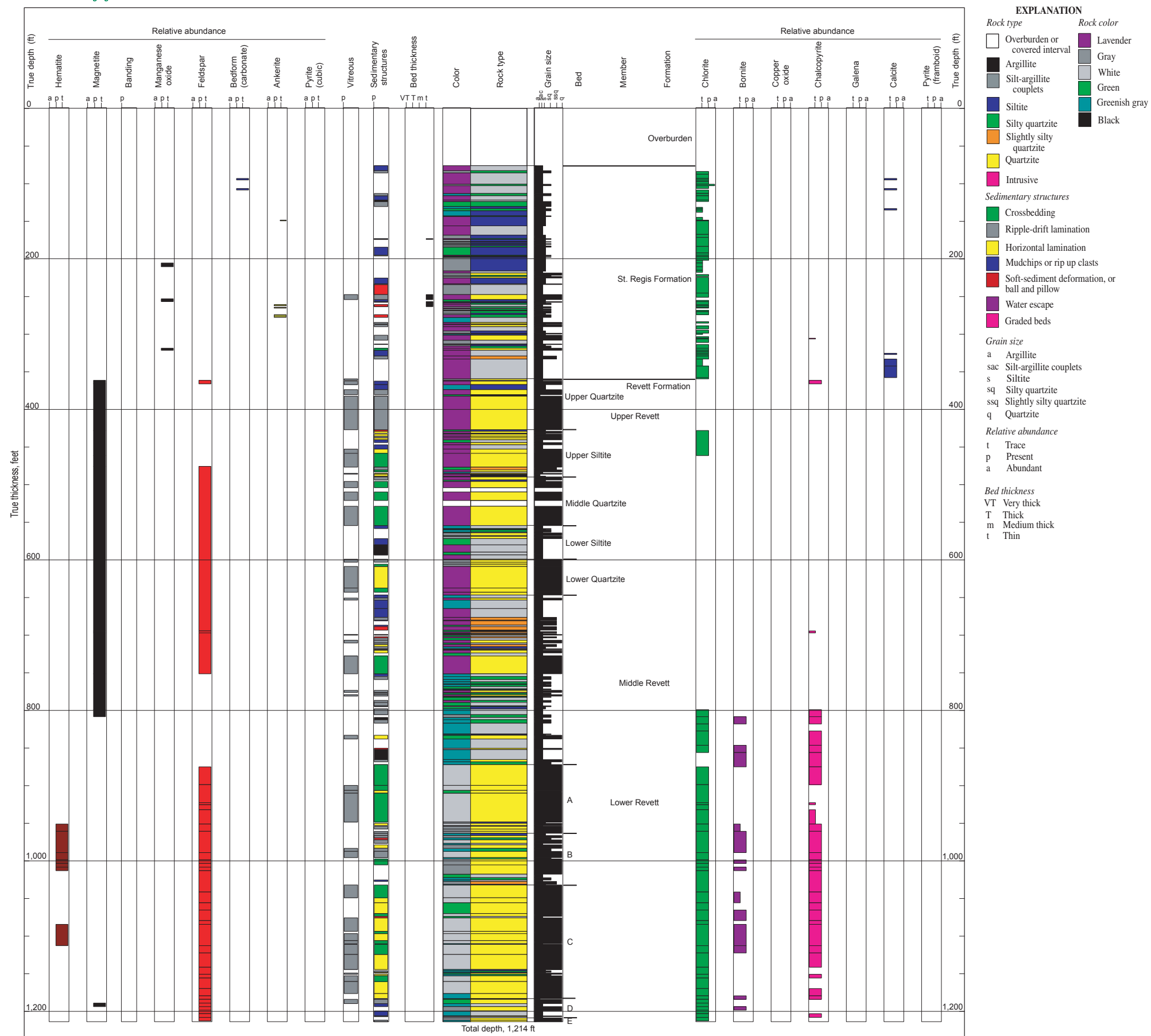
**Figure A-69. DDH TC-7A (Trout Creek) diamond-drill-hole section**

By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-70. Trout Creek (White) measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

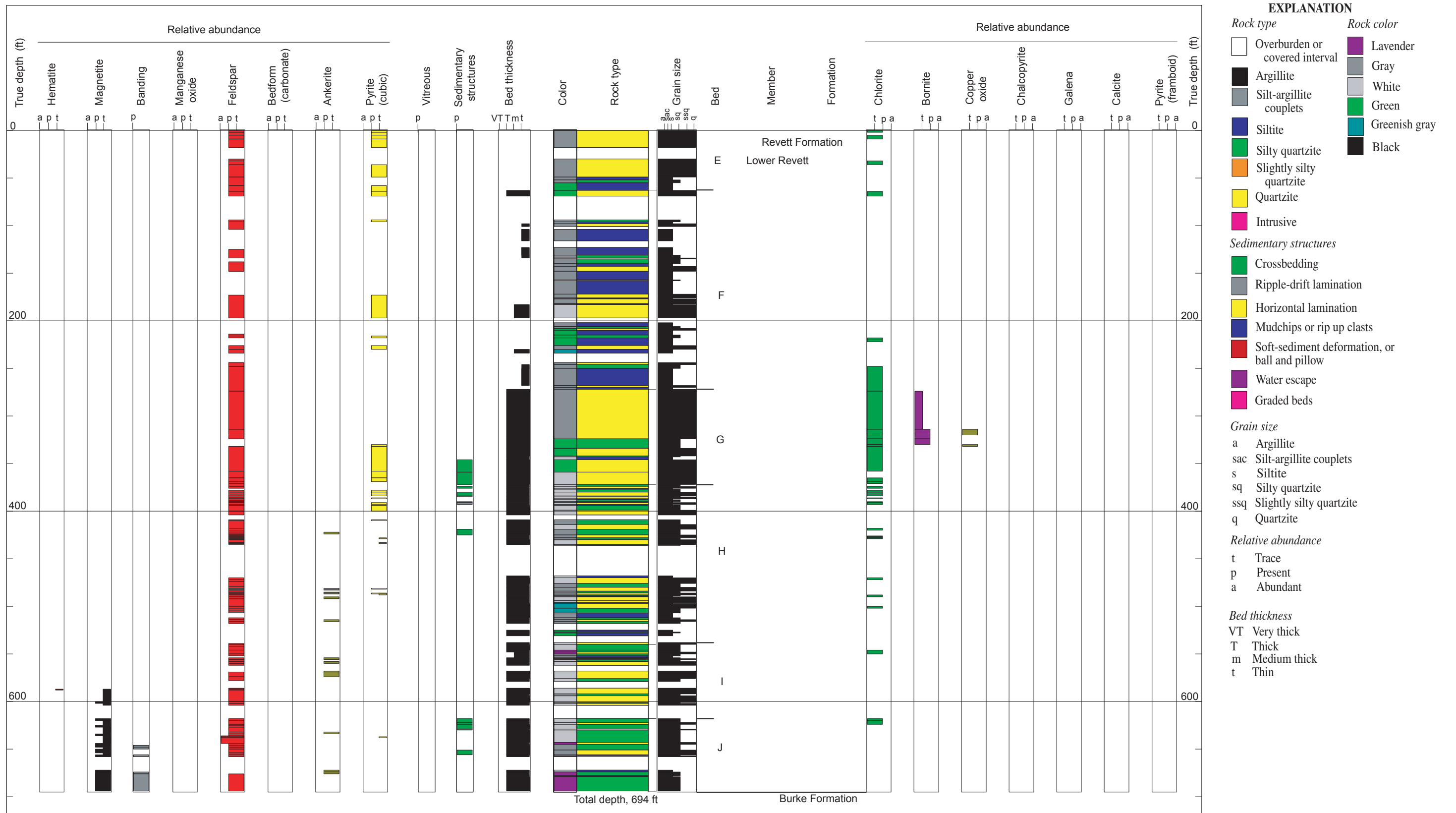
FIGURE A-71



**Figure A-71. DDH TC-5A (Trout Creek) diamond-drill-hole section**

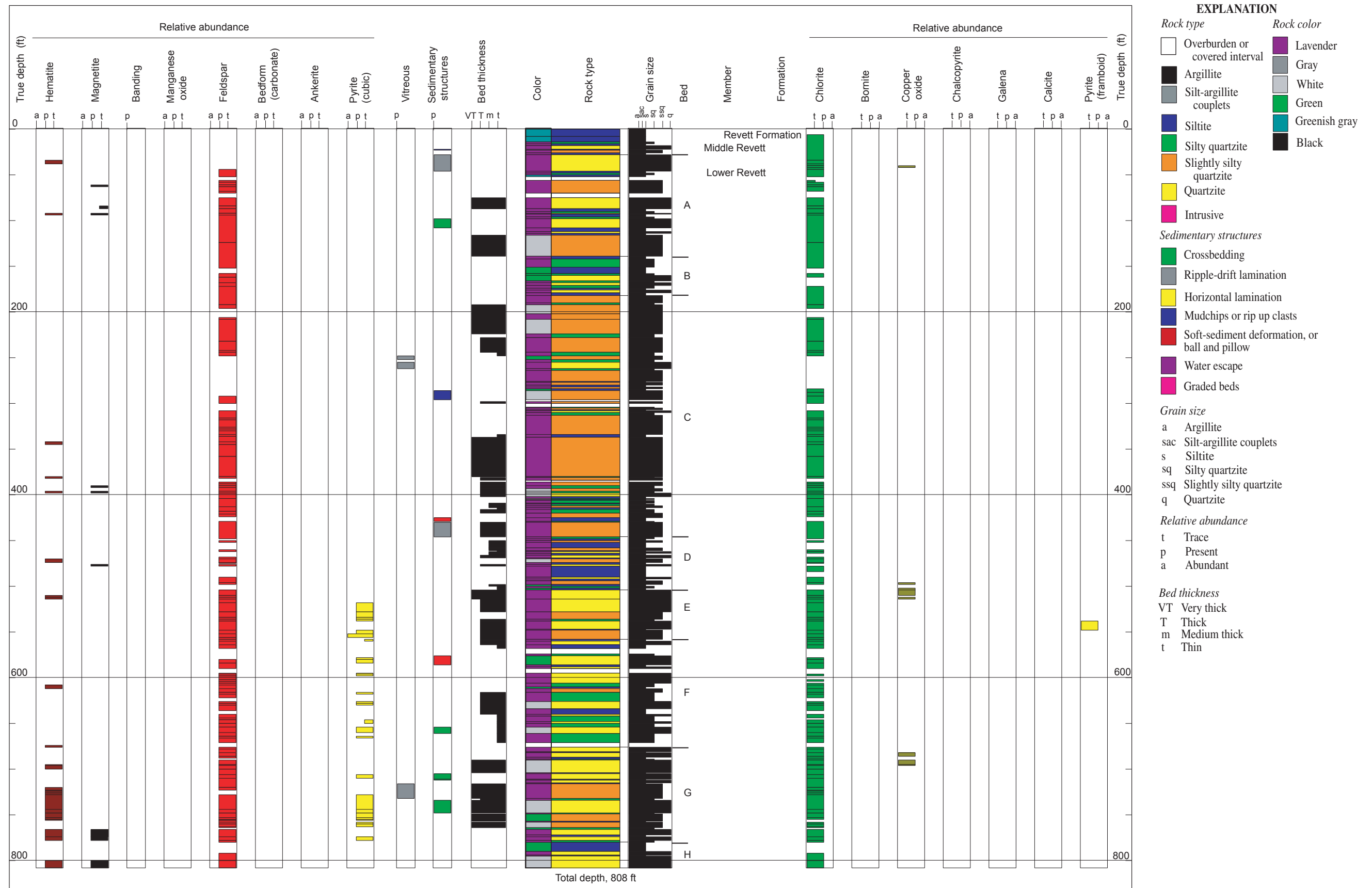
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



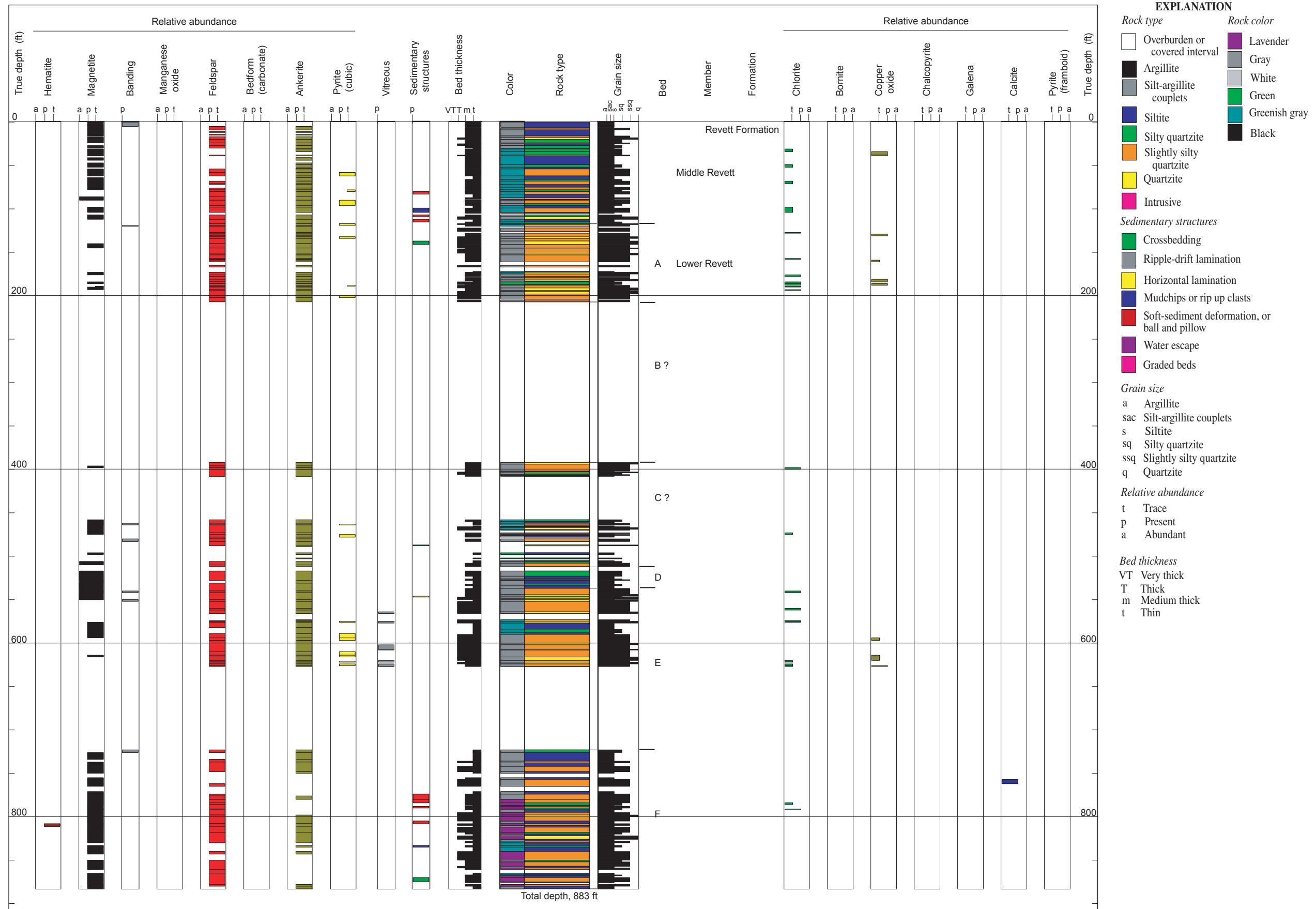


**Figure A-72. West Fork of Trout Creek 1 measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

FIGURE A-73

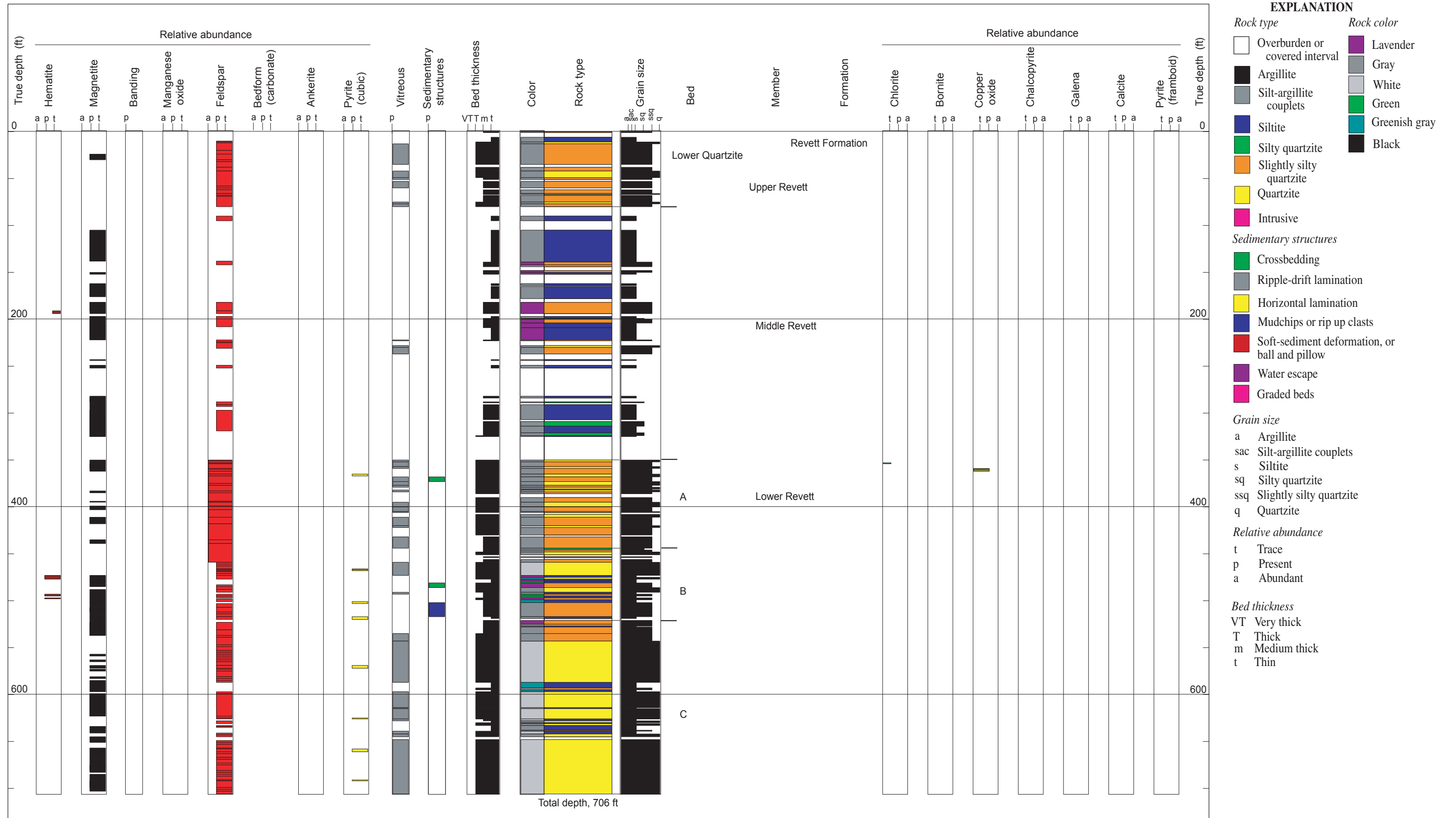


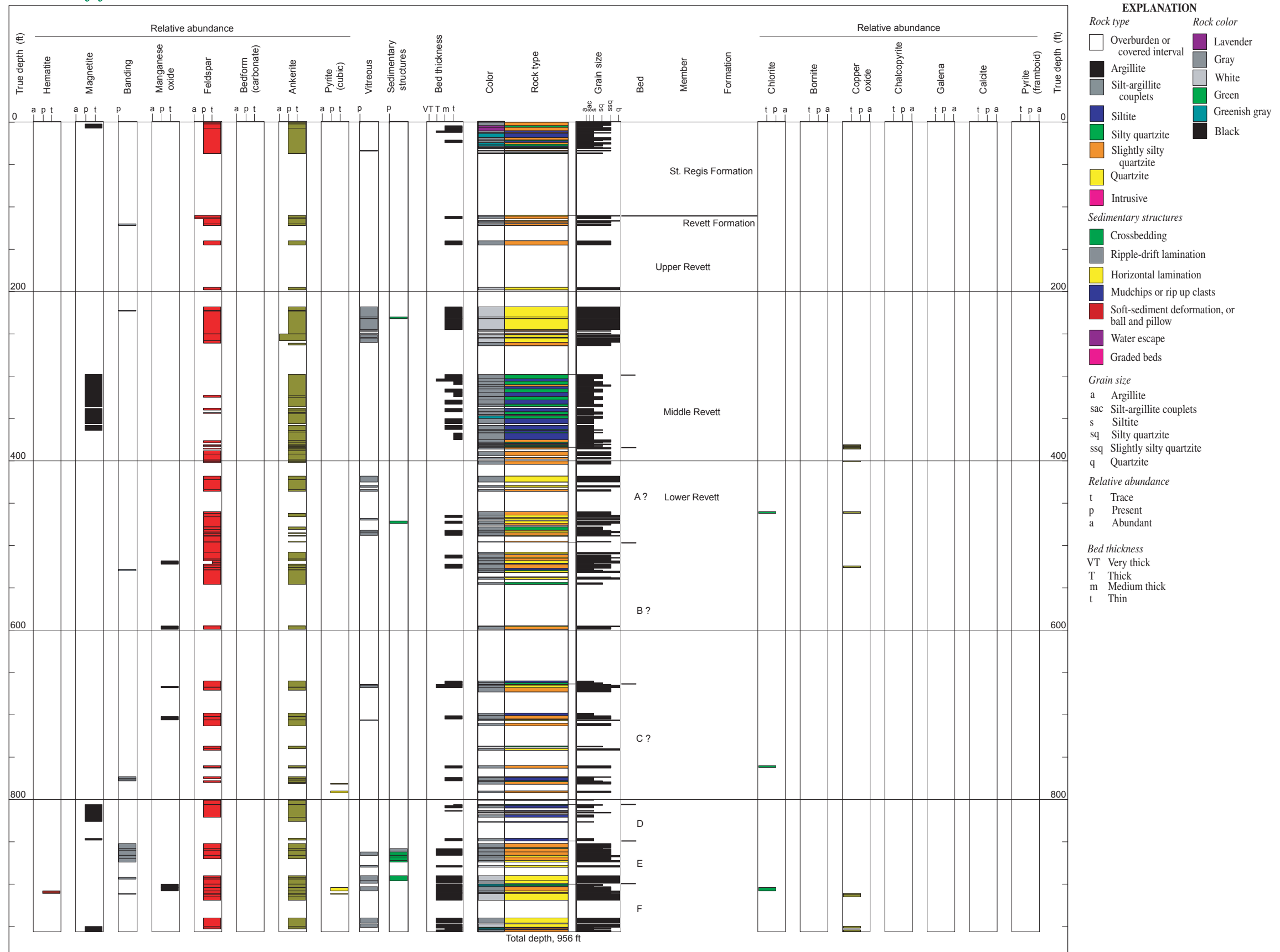
**Figure A-73. West Fork of Trout Creek 2 measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-74. Windfall Peak measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

FIGURE A-75





**Figure A-76. Ripper Creek measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-77. Miller Gulch (Sex Peak) measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

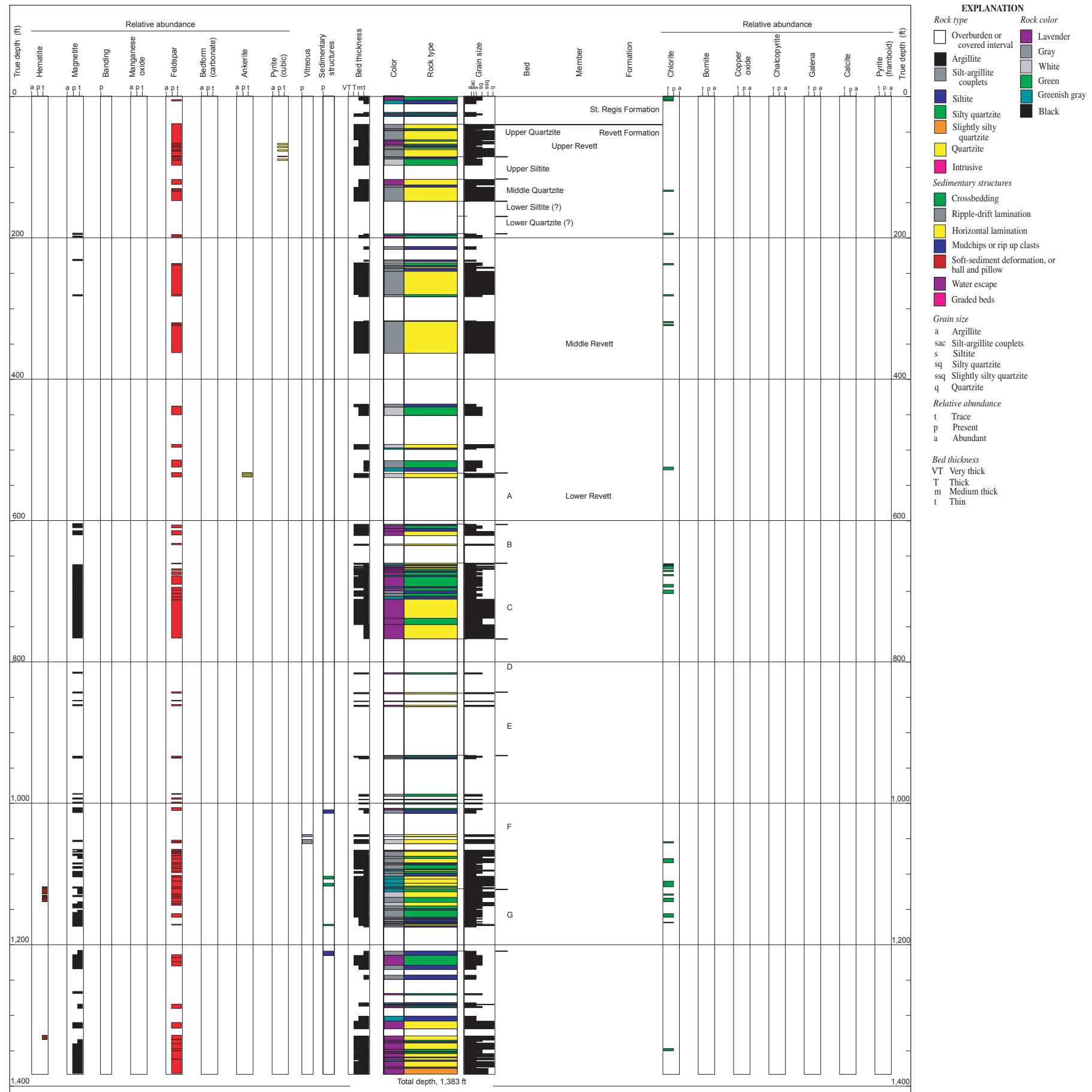
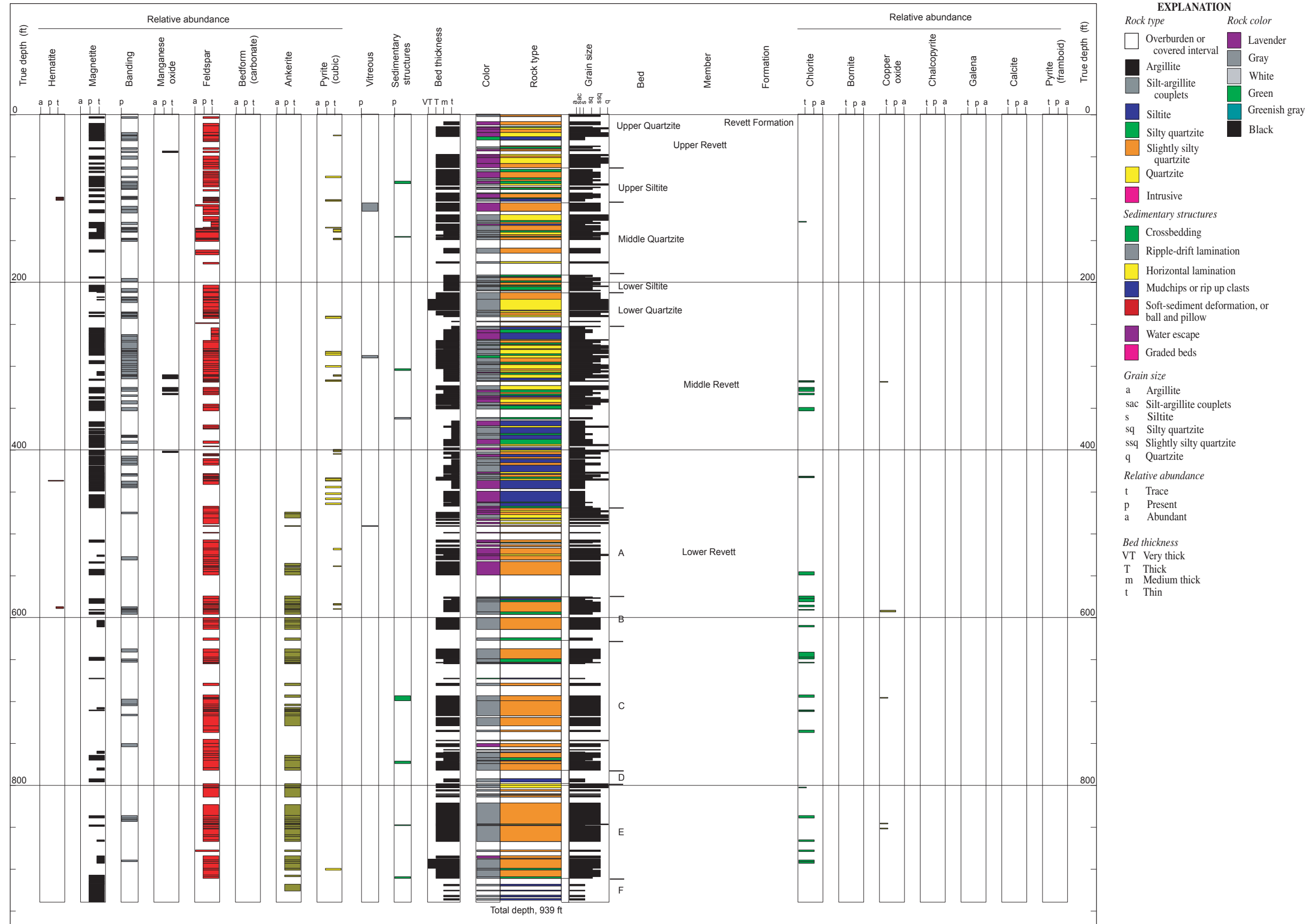
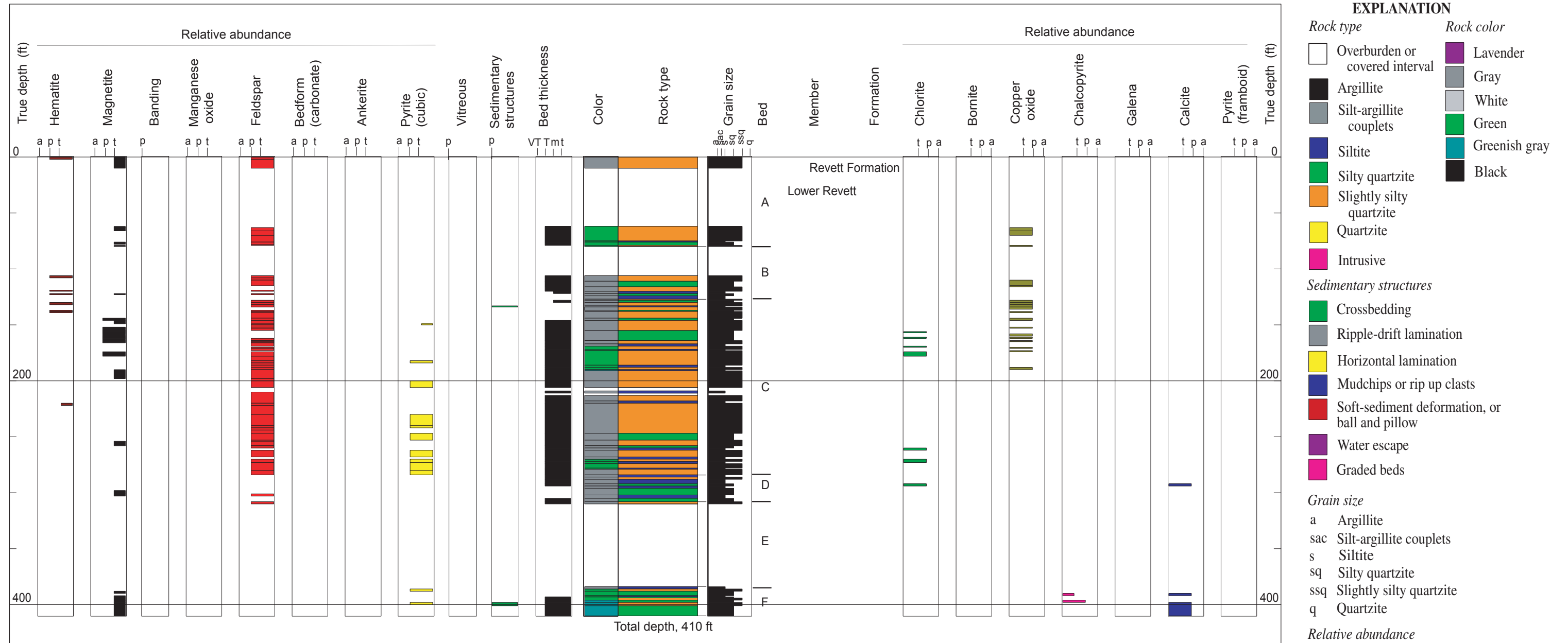


Figure A-78. Beaver Creek Road measured section  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



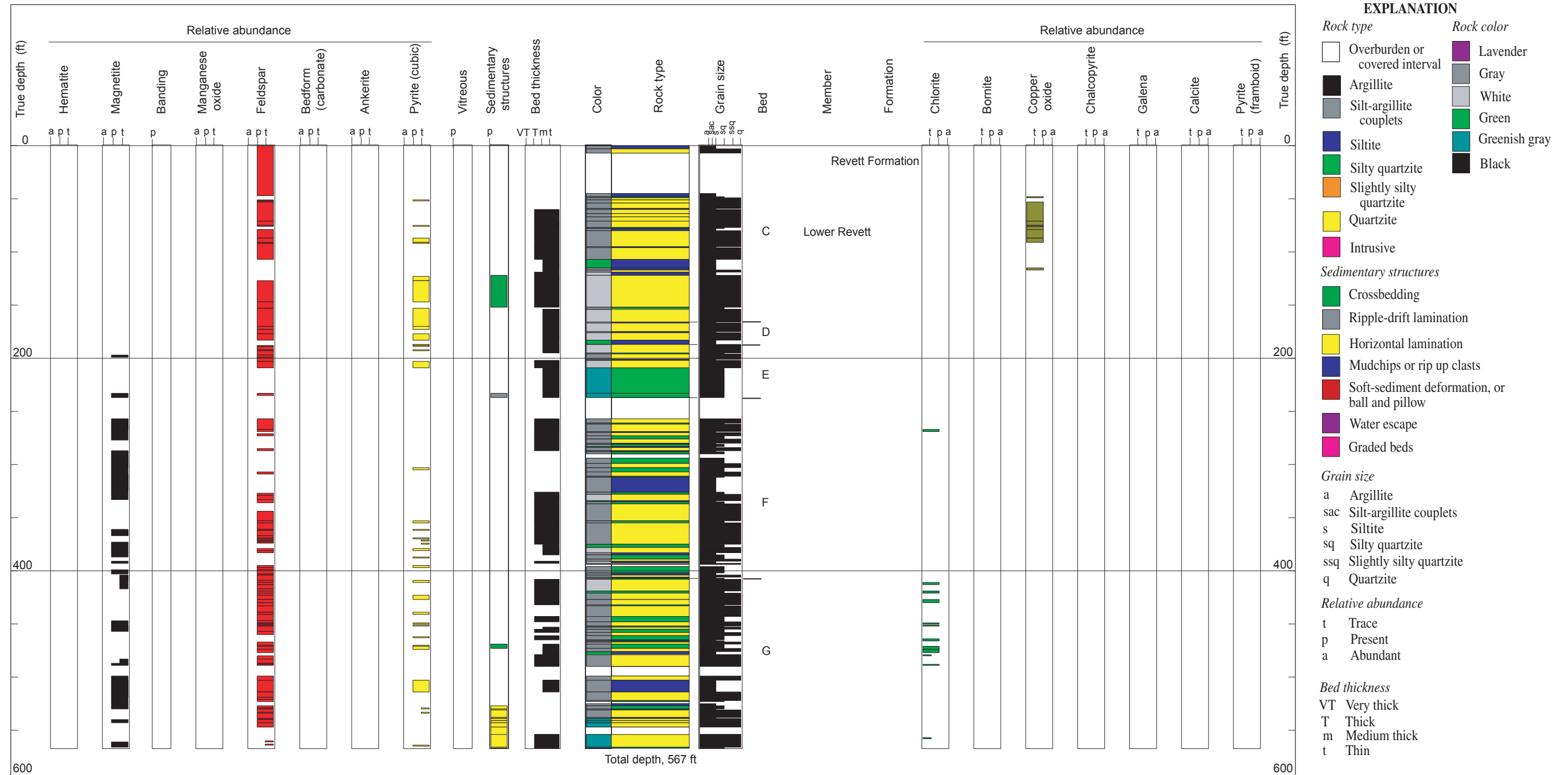
**Figure A-79. Little Beaver Creek measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

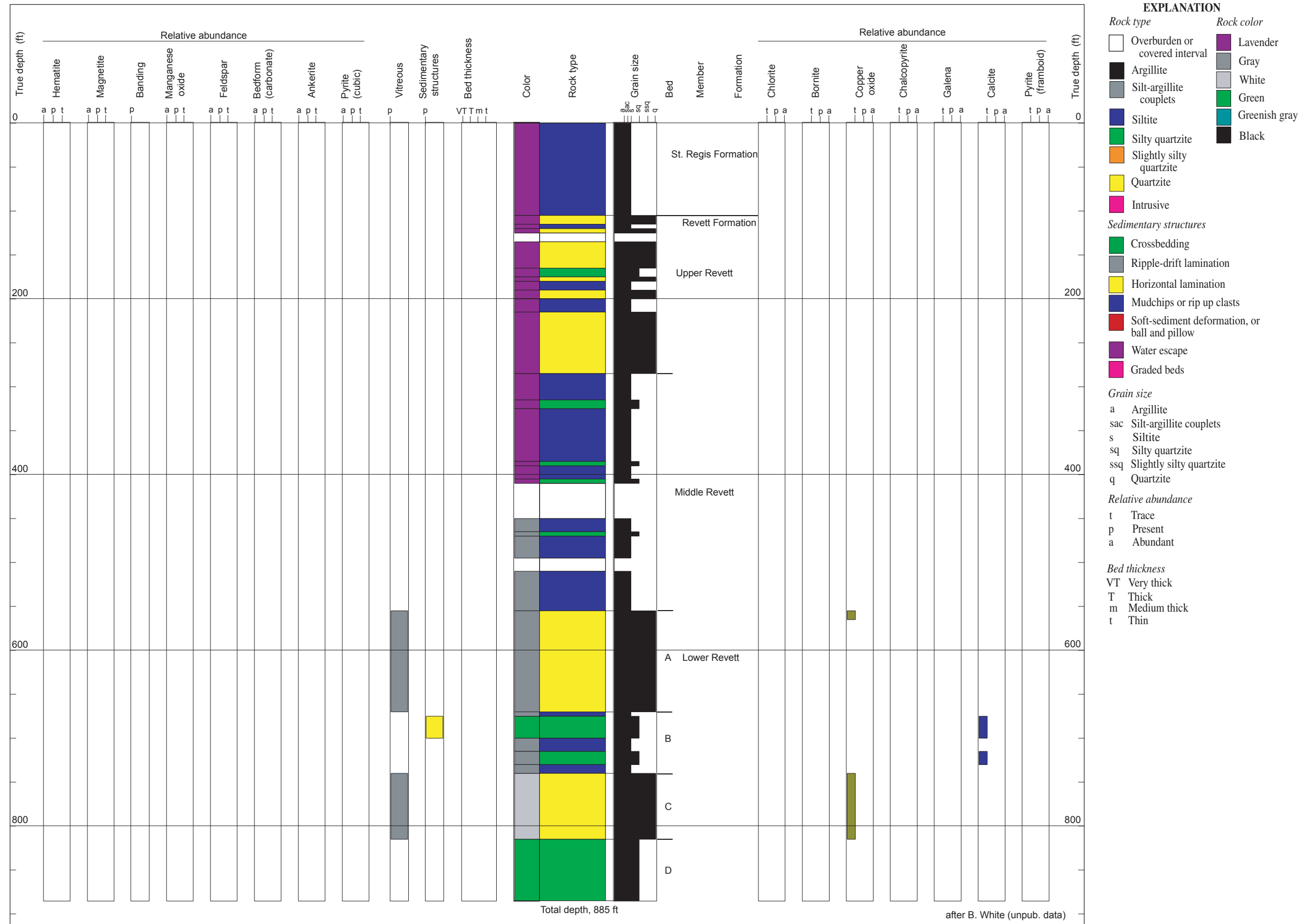




**Figure A-80. Clear Peak (Asarco) measured section**

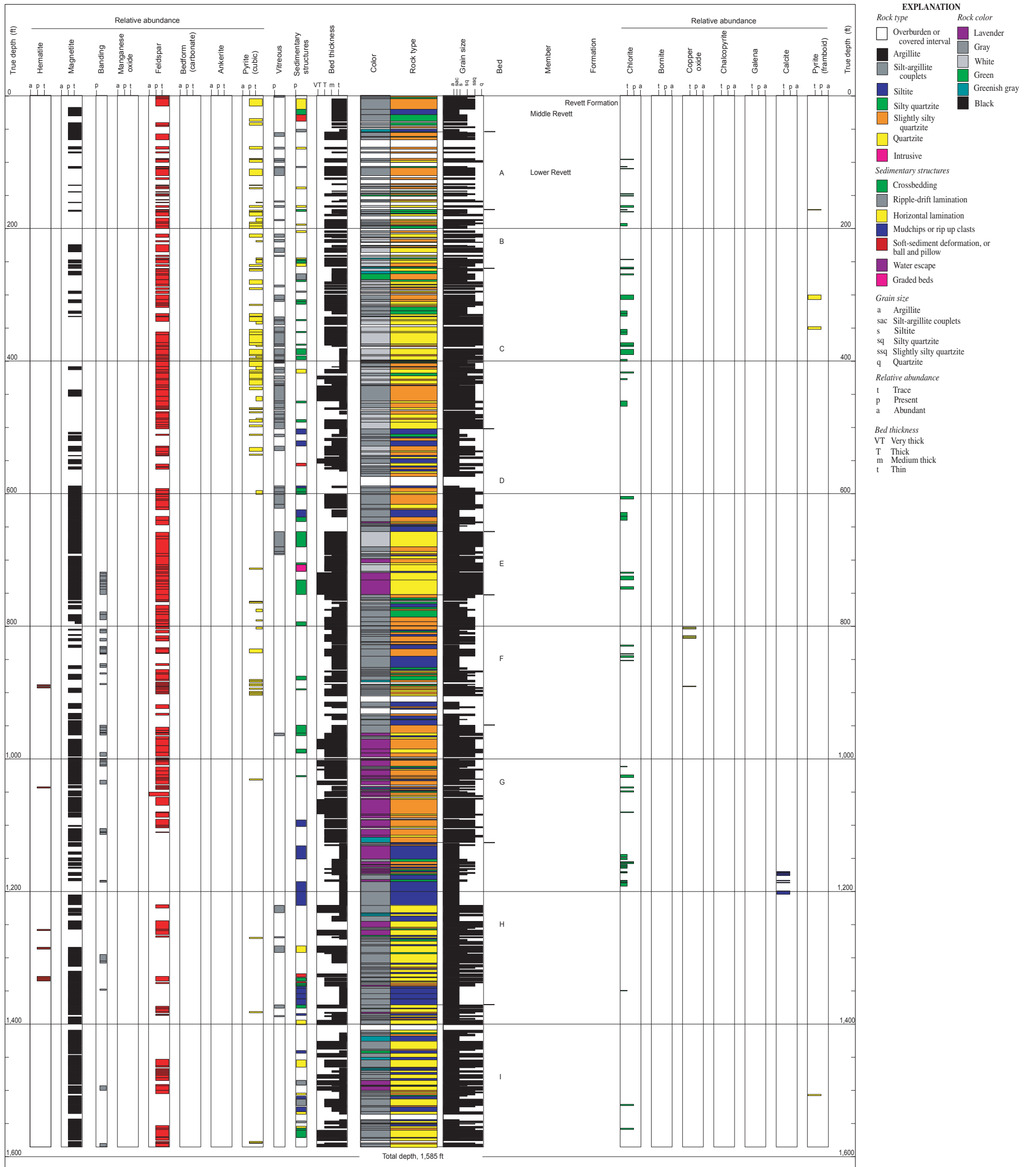
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



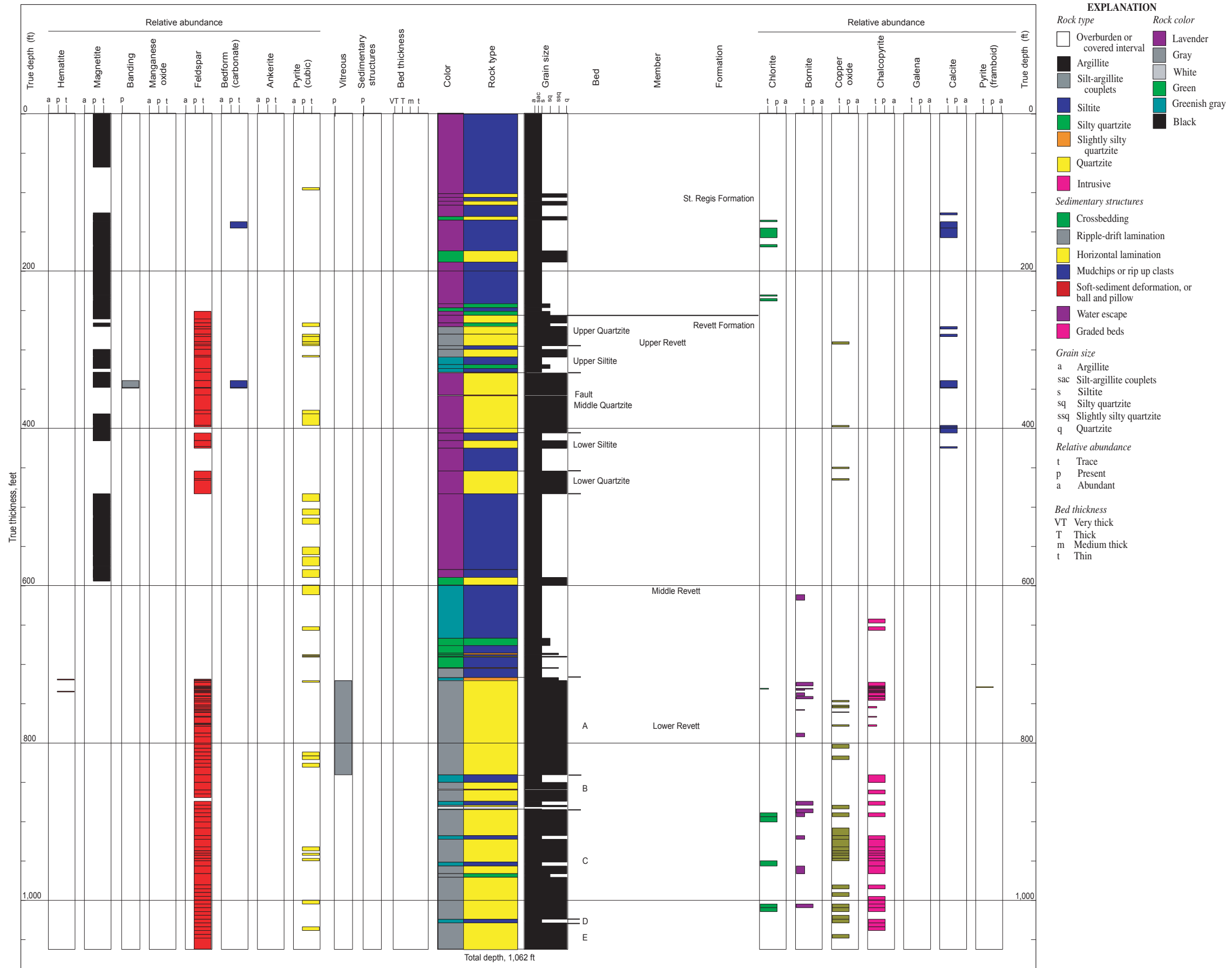


**Figure A-82. Clear Peak (White) measured section**

By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

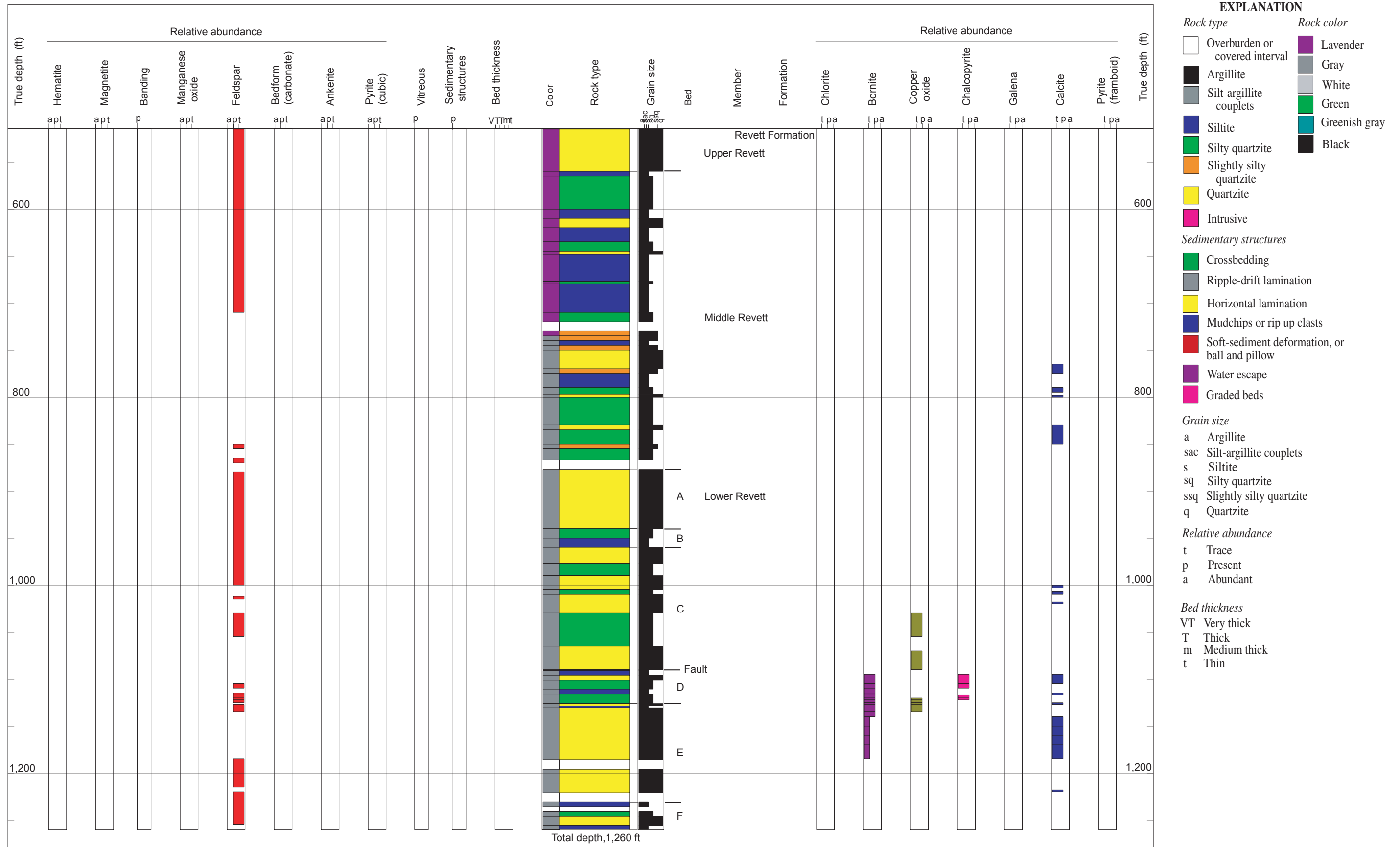


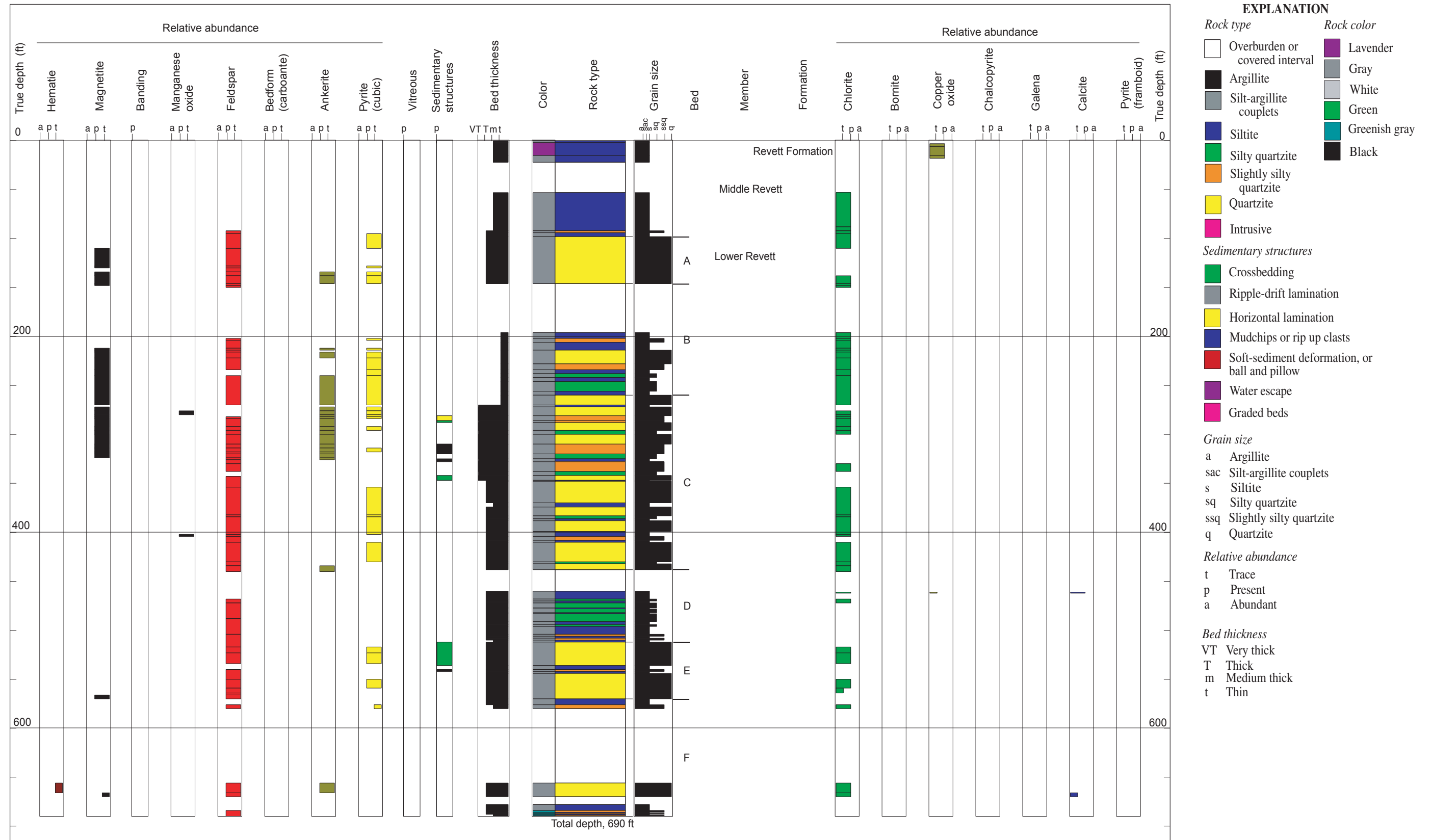
**Figure A-83. Beaver Lake 1, 2 measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-84. DDH CP-5 (Clear Peak) diamond-drill-hole section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

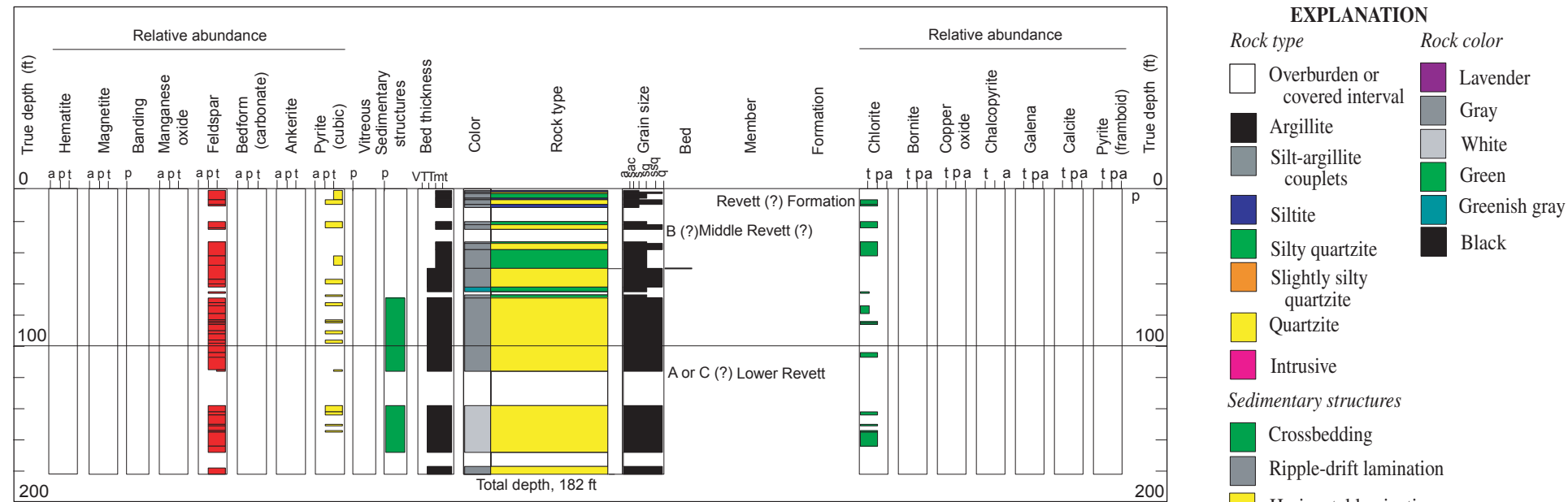
FIGURE A-85





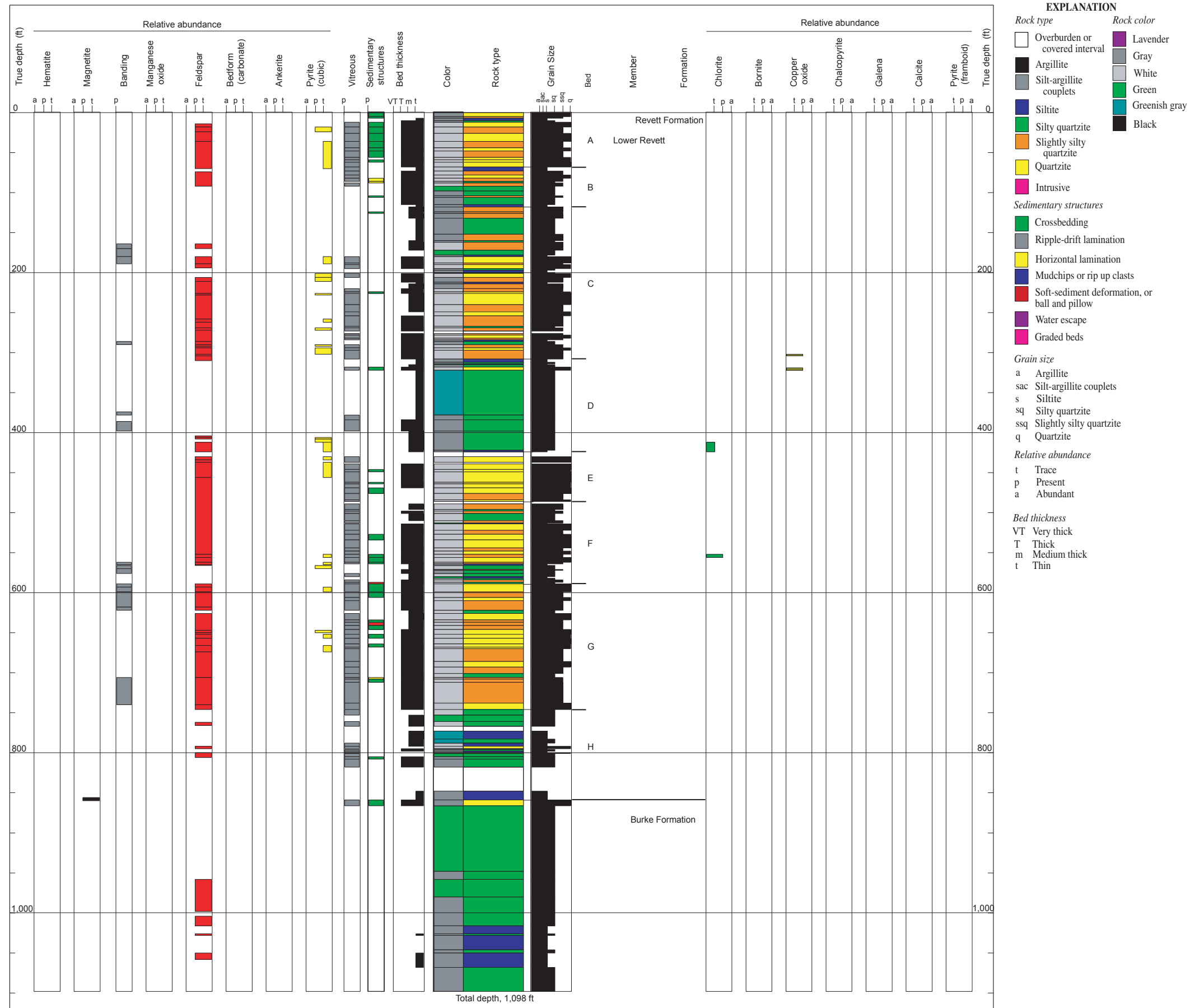
**Figure A-86. Twentyfour Mile Creek (Clear Peak 1) measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

FIGURE A-87



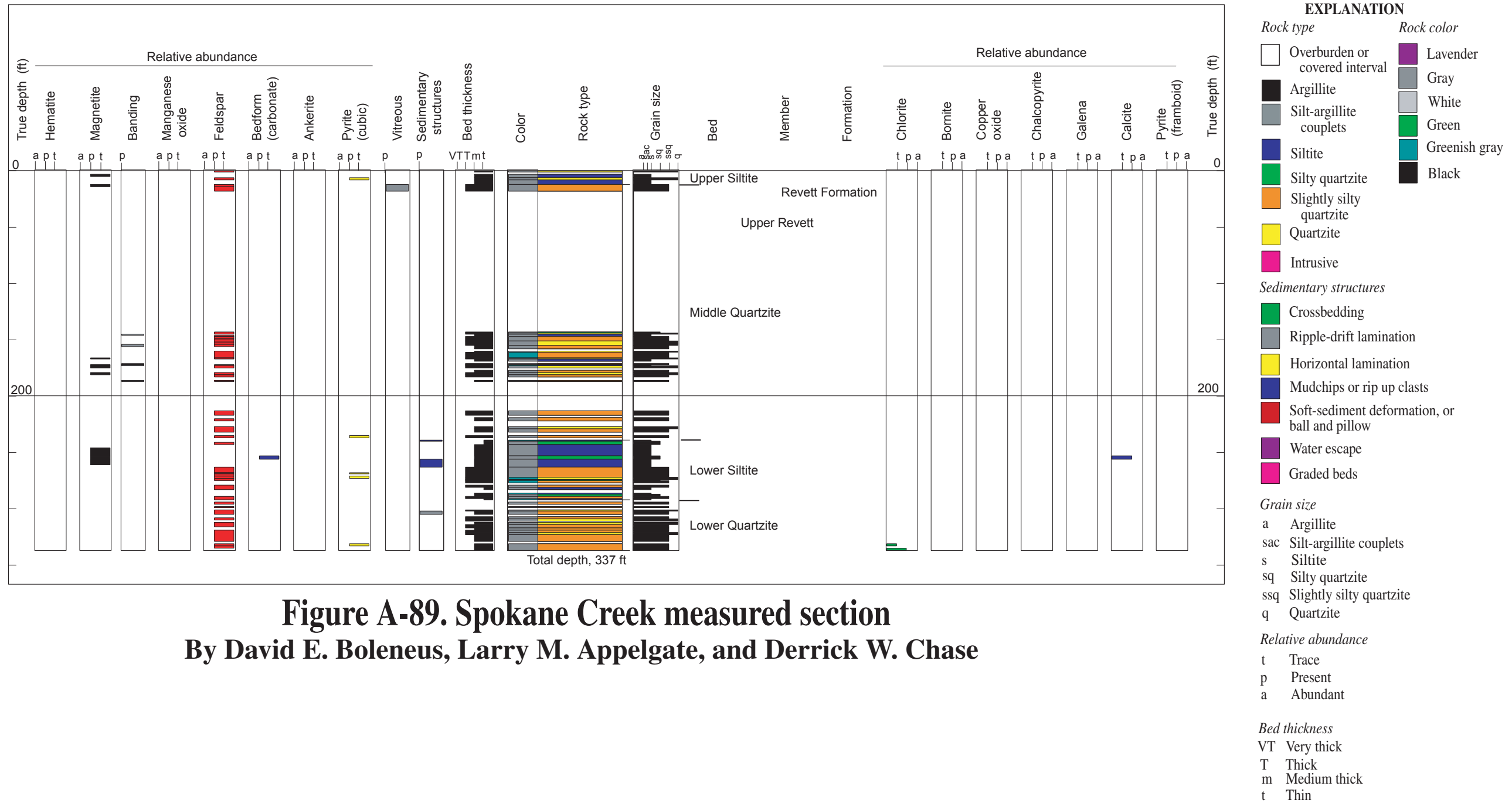
**Figure A-87. Janstan measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



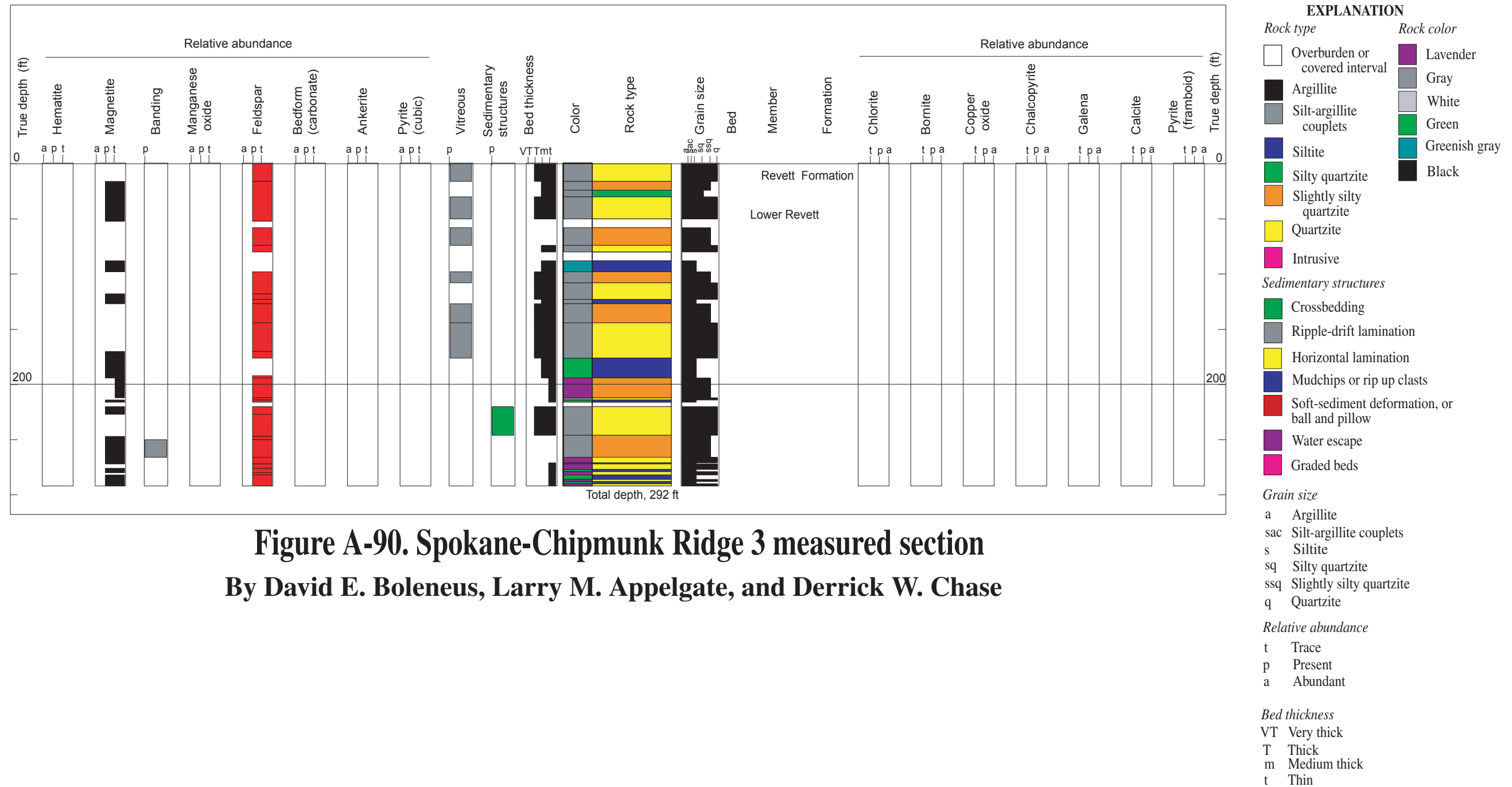


**Figure A-88. West Fork of Crow Creek measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

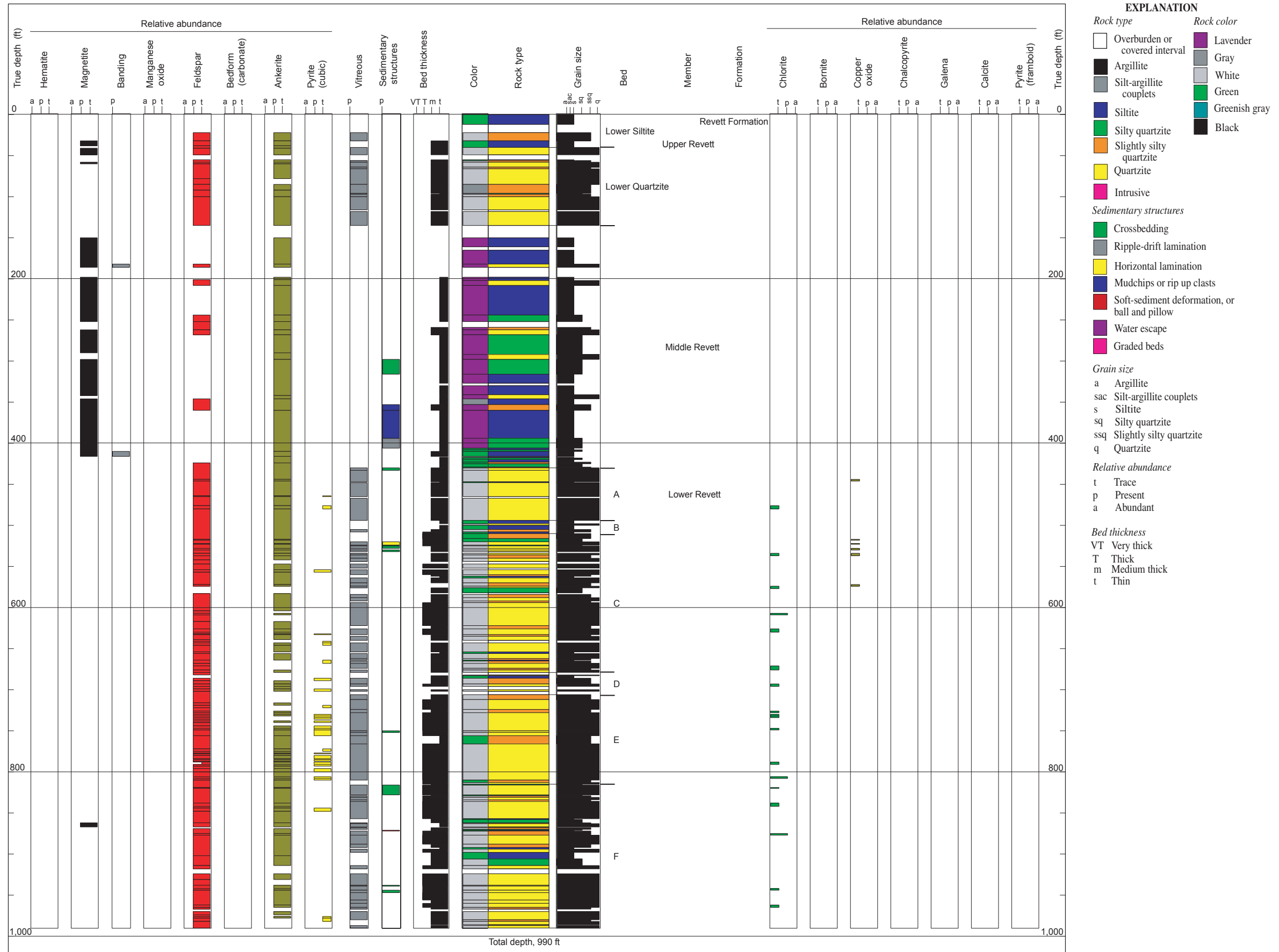
FIGURE A-89



**Figure A-89. Spokane Creek measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

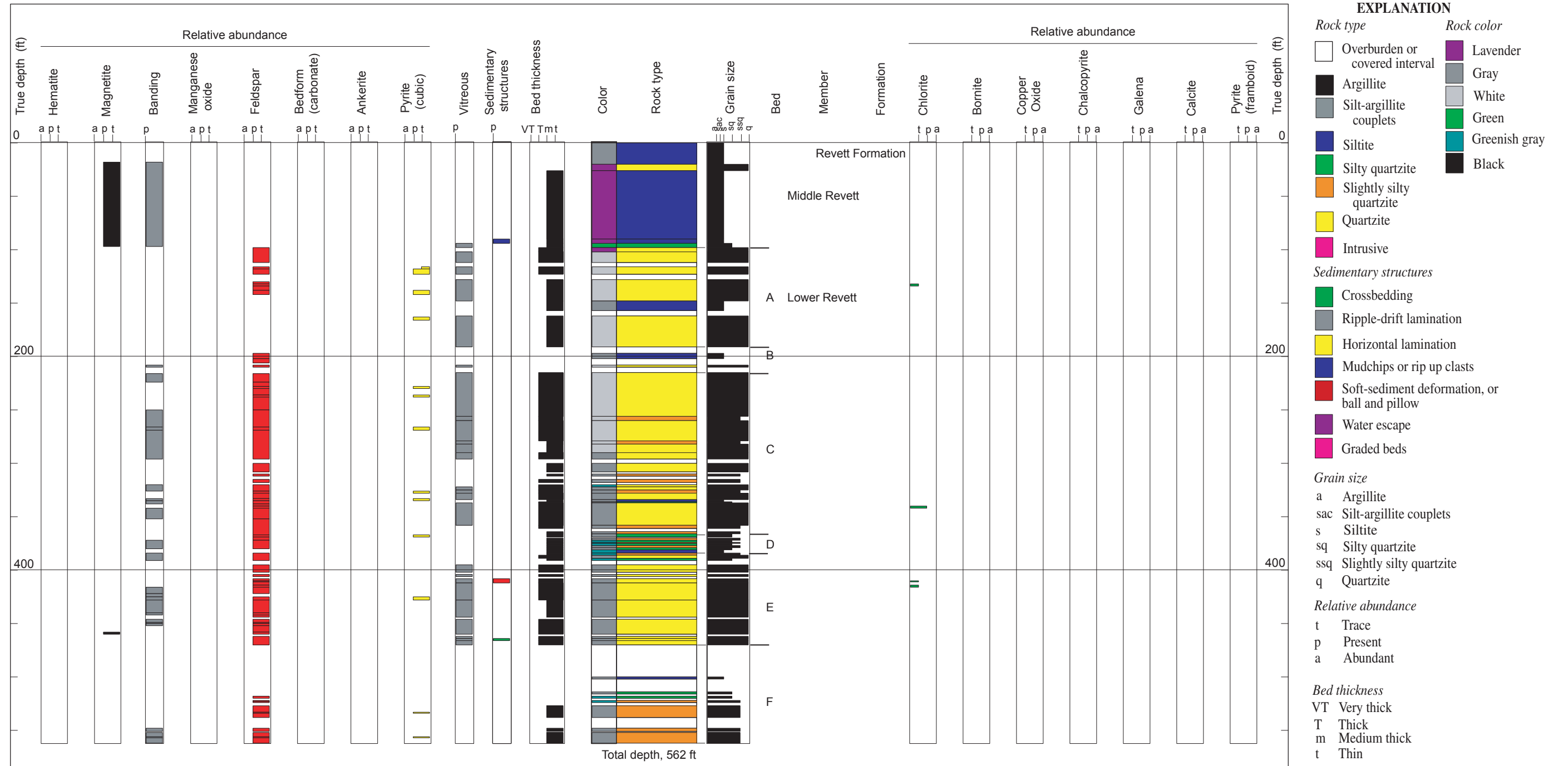


**Figure A-90. Spokane-Chipmunk Ridge 3 measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



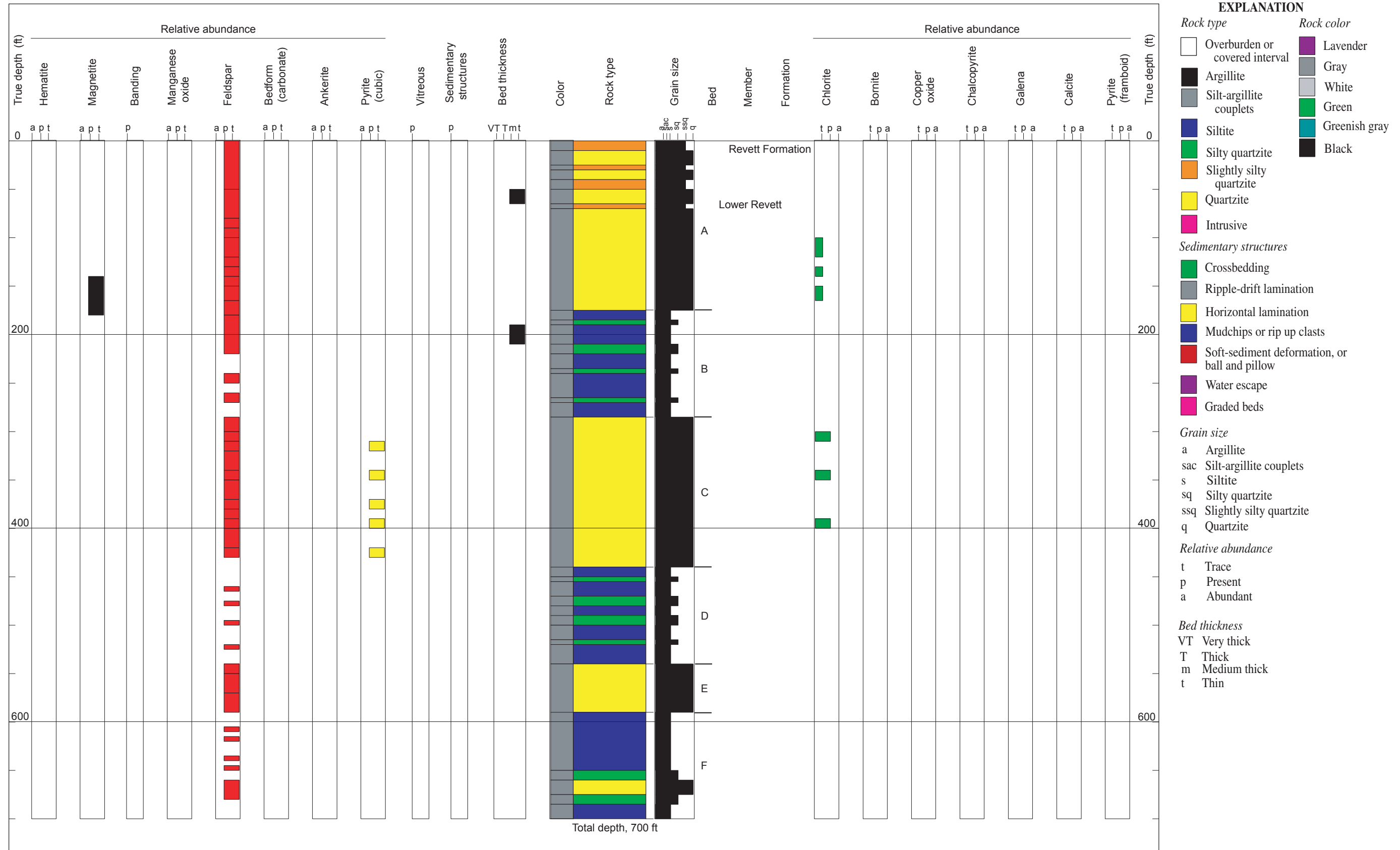
**Figure A-91. Chipmunk 1 measured section**

By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

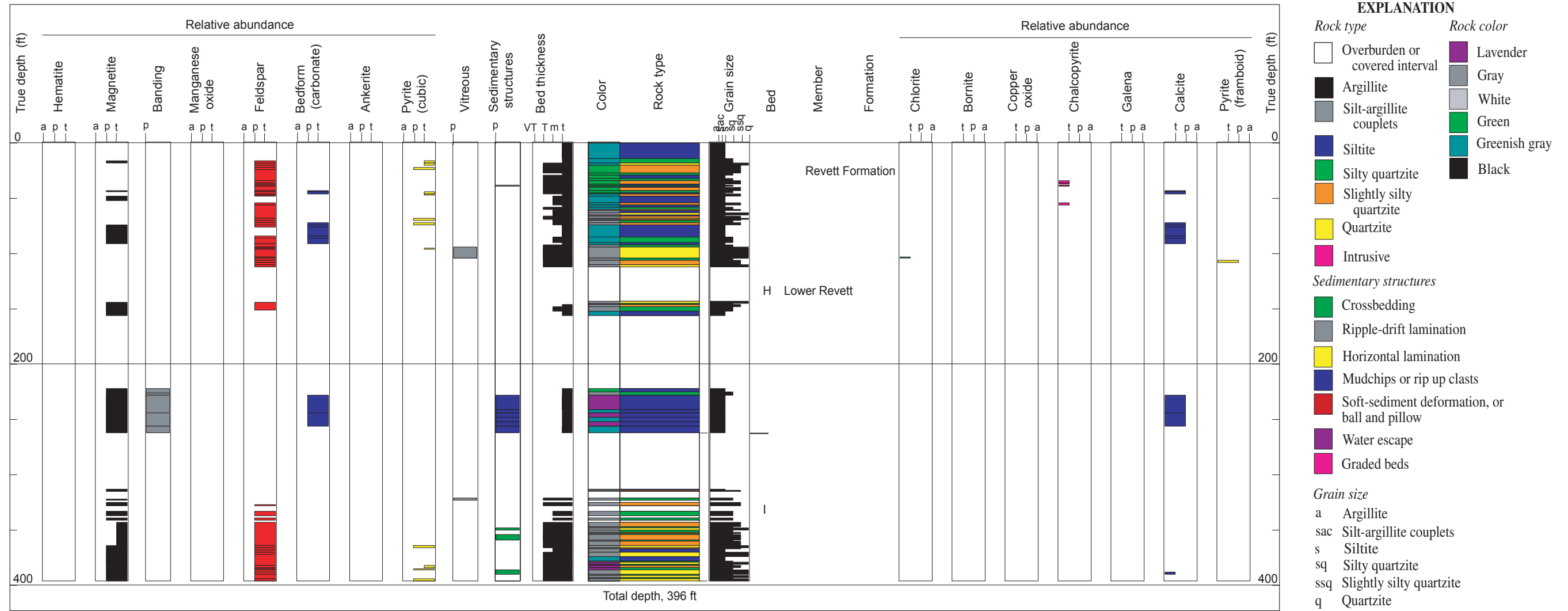


**Figure A-92. Chipmunk 2 measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

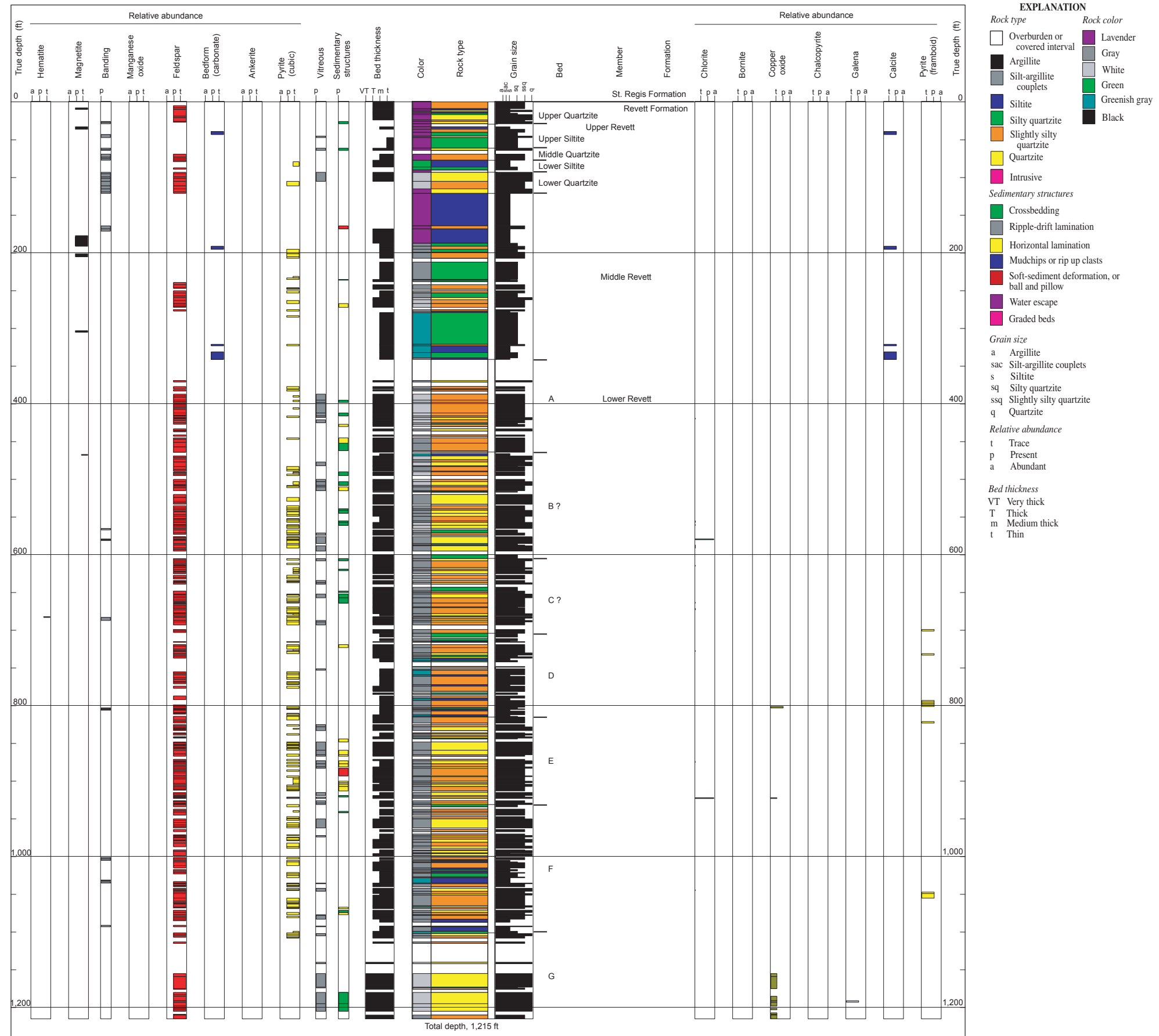
FIGURE A-93



**Figure A-93. Bloom Peak measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



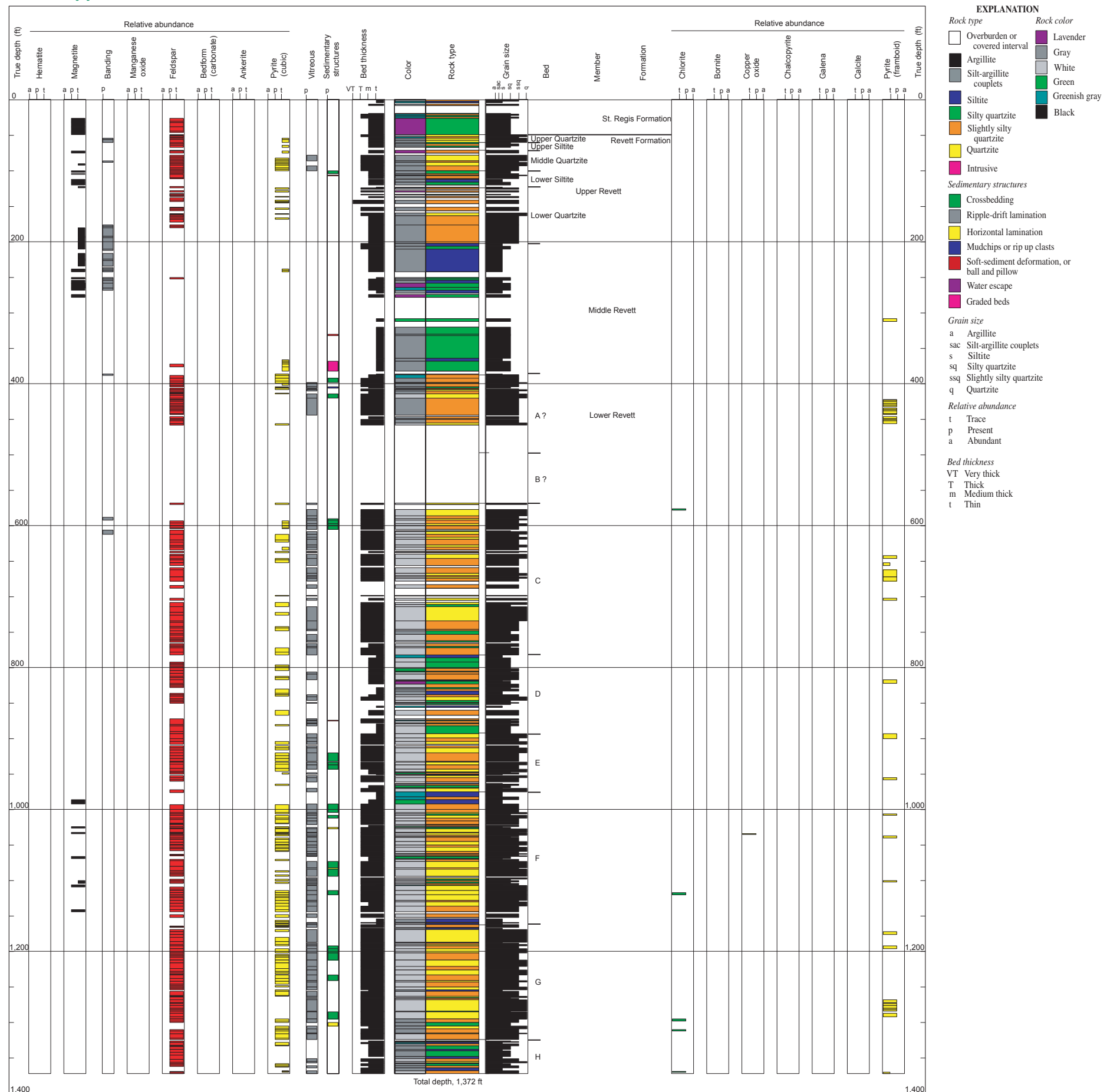
**Figure A-94. East Lake measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



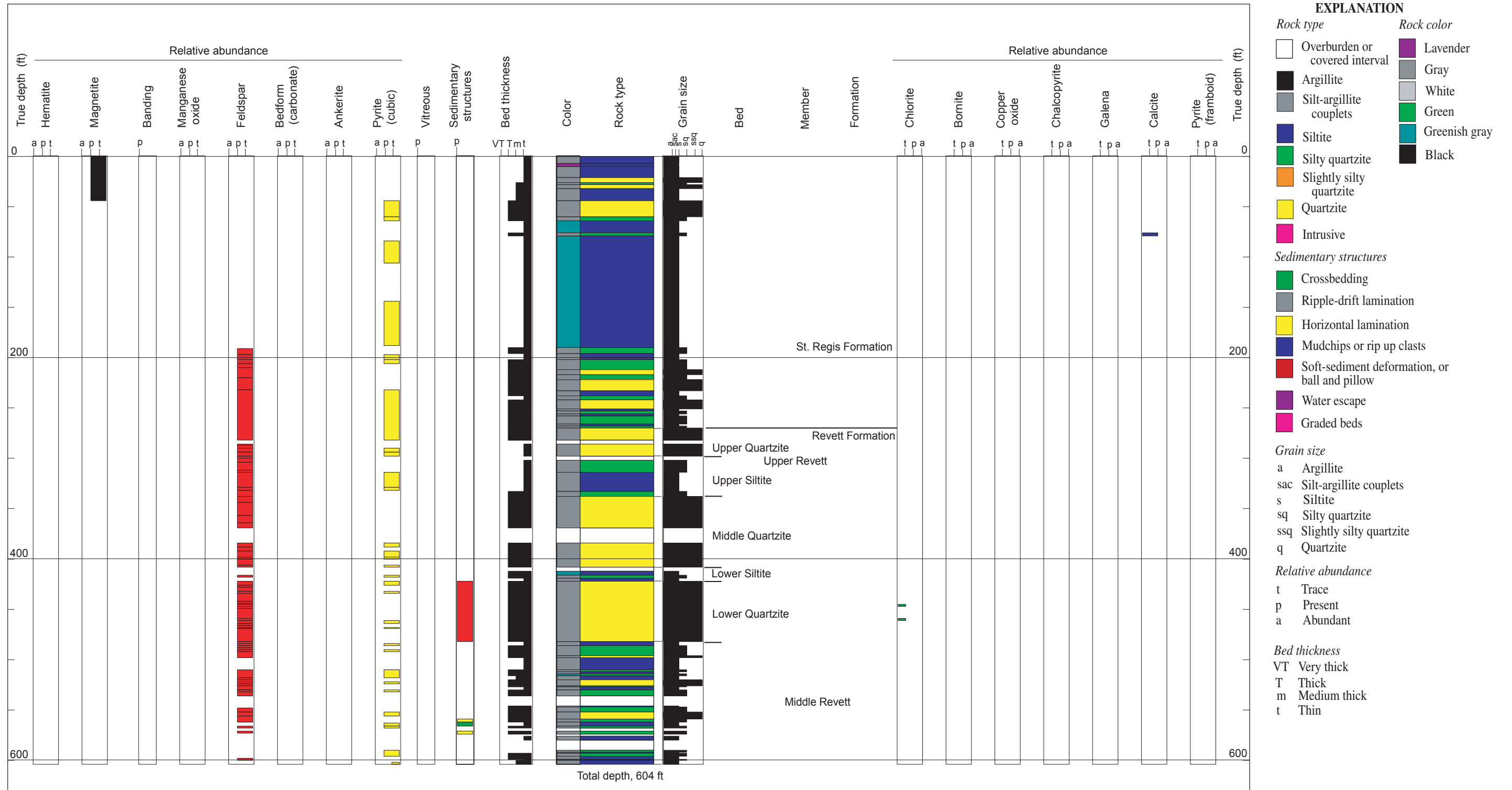




**Figure A-96. West Fork of Eagle Creek 1, 2 measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

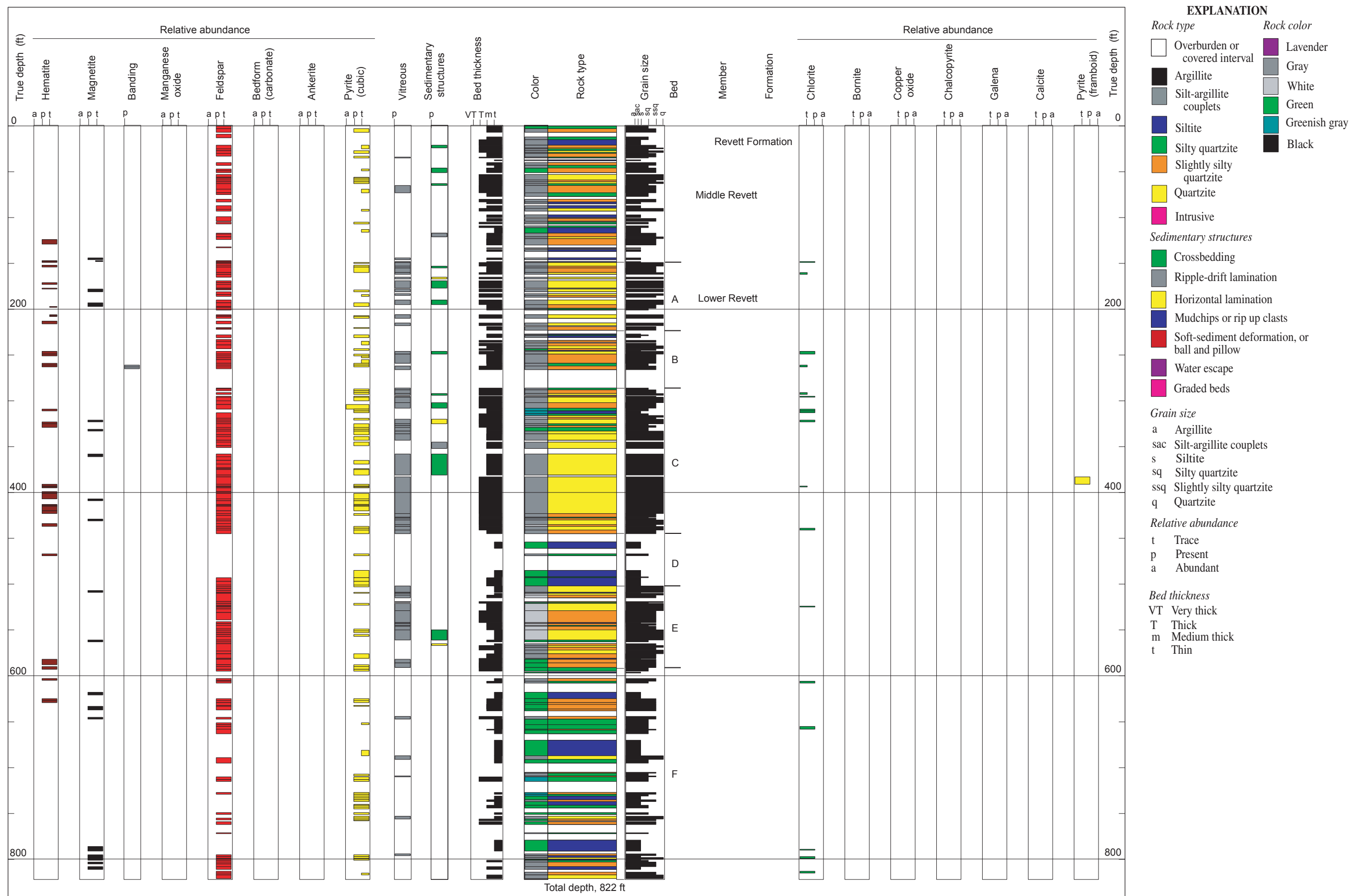


**Figure A-97. West Fork of Eagle Creek 5 measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-98. Cottonwood measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

FIGURE A-99



**Figure A-99. Bobtail Creek measured section**

By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

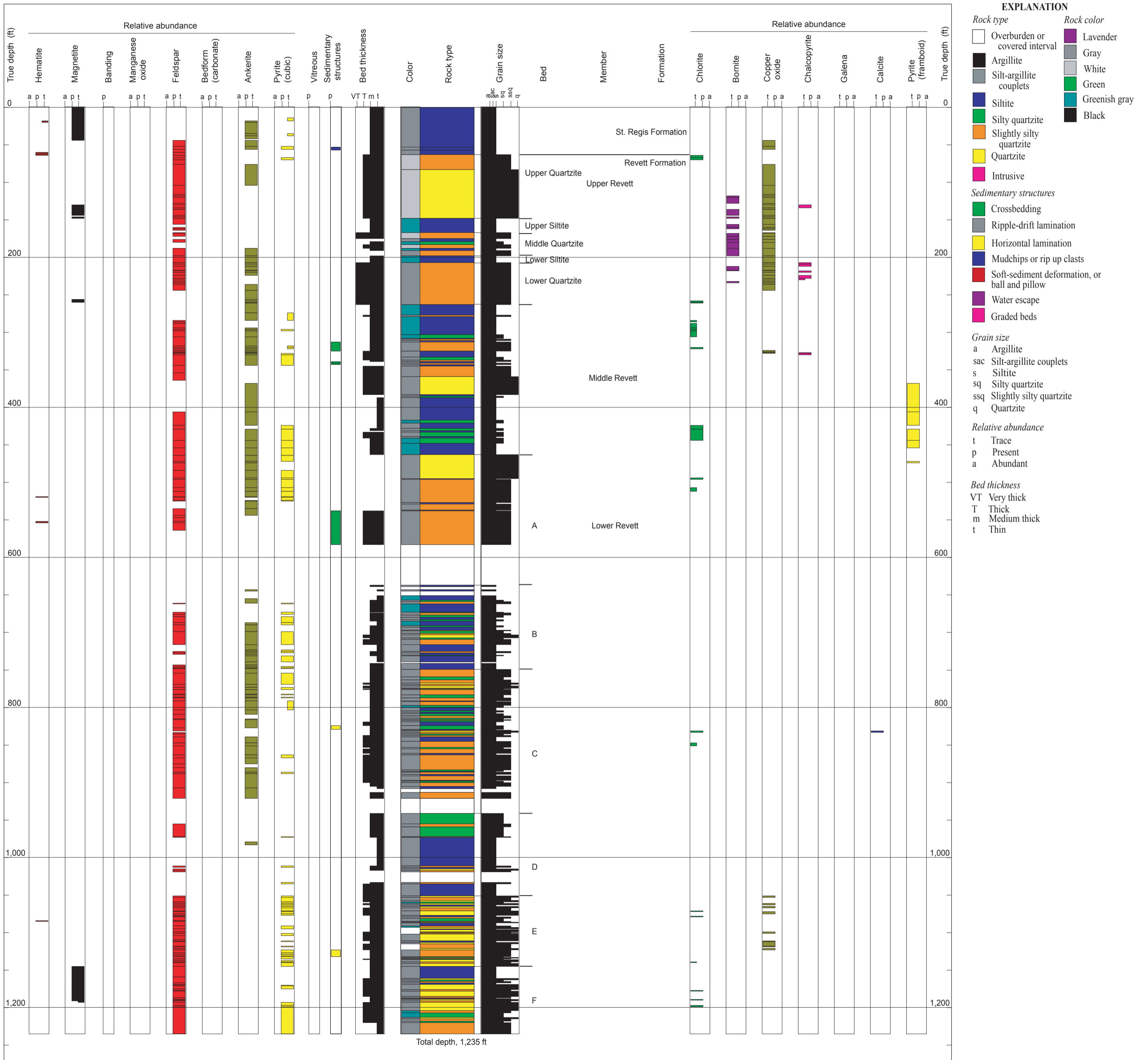
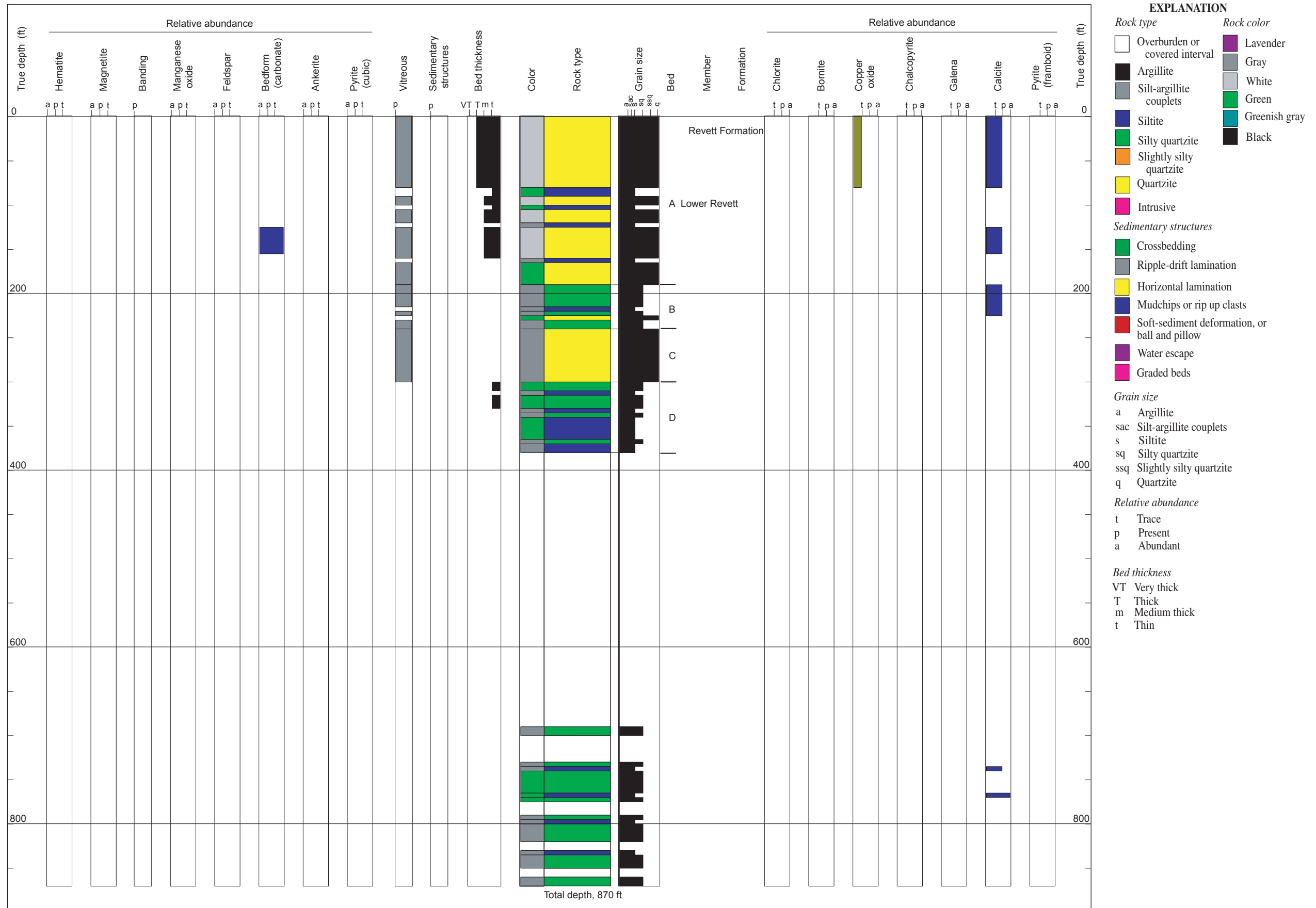


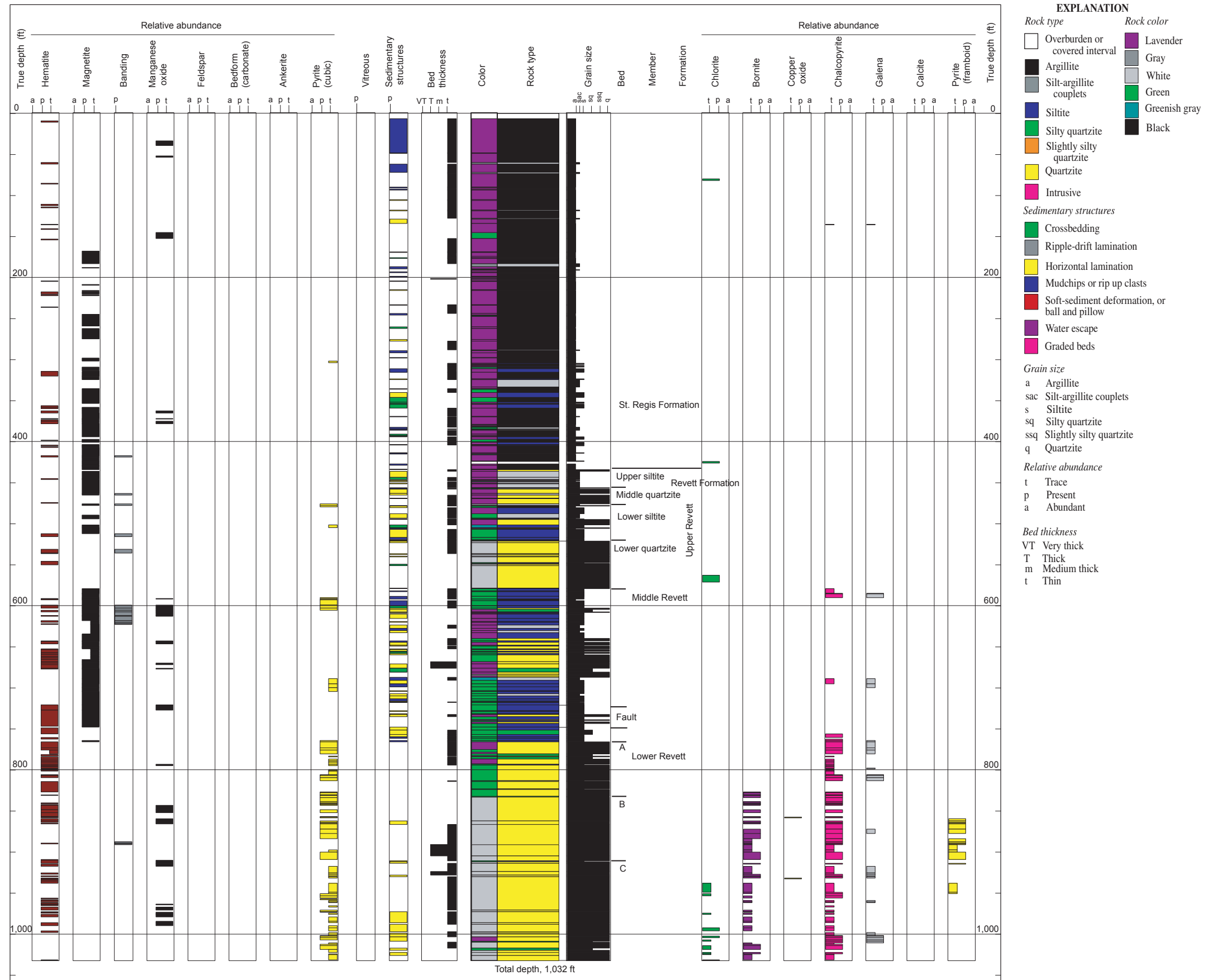
Figure A-100. Niagara measured section

By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

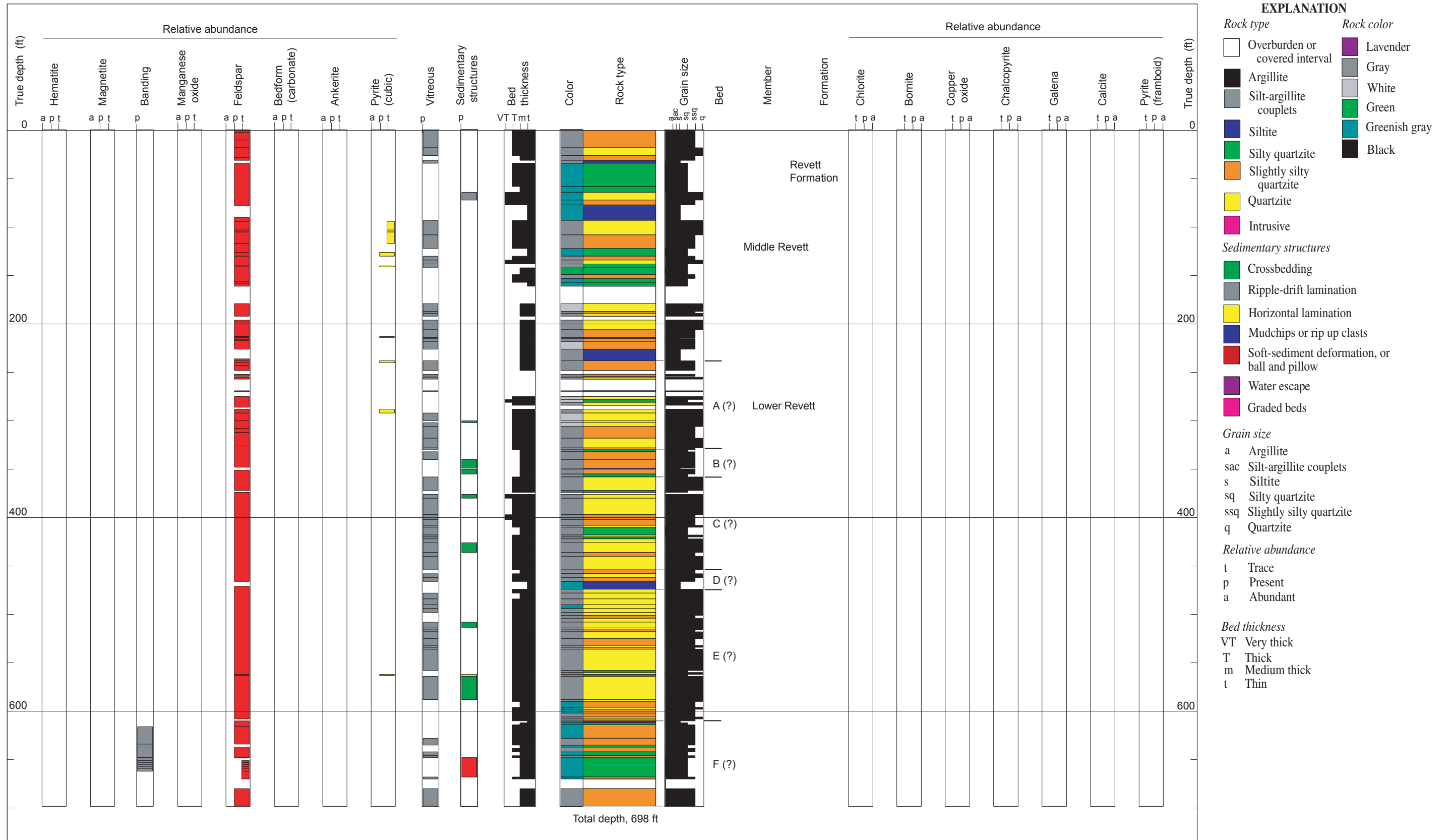
FIGURE A-101



**Figure A-101. Revett Lake measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



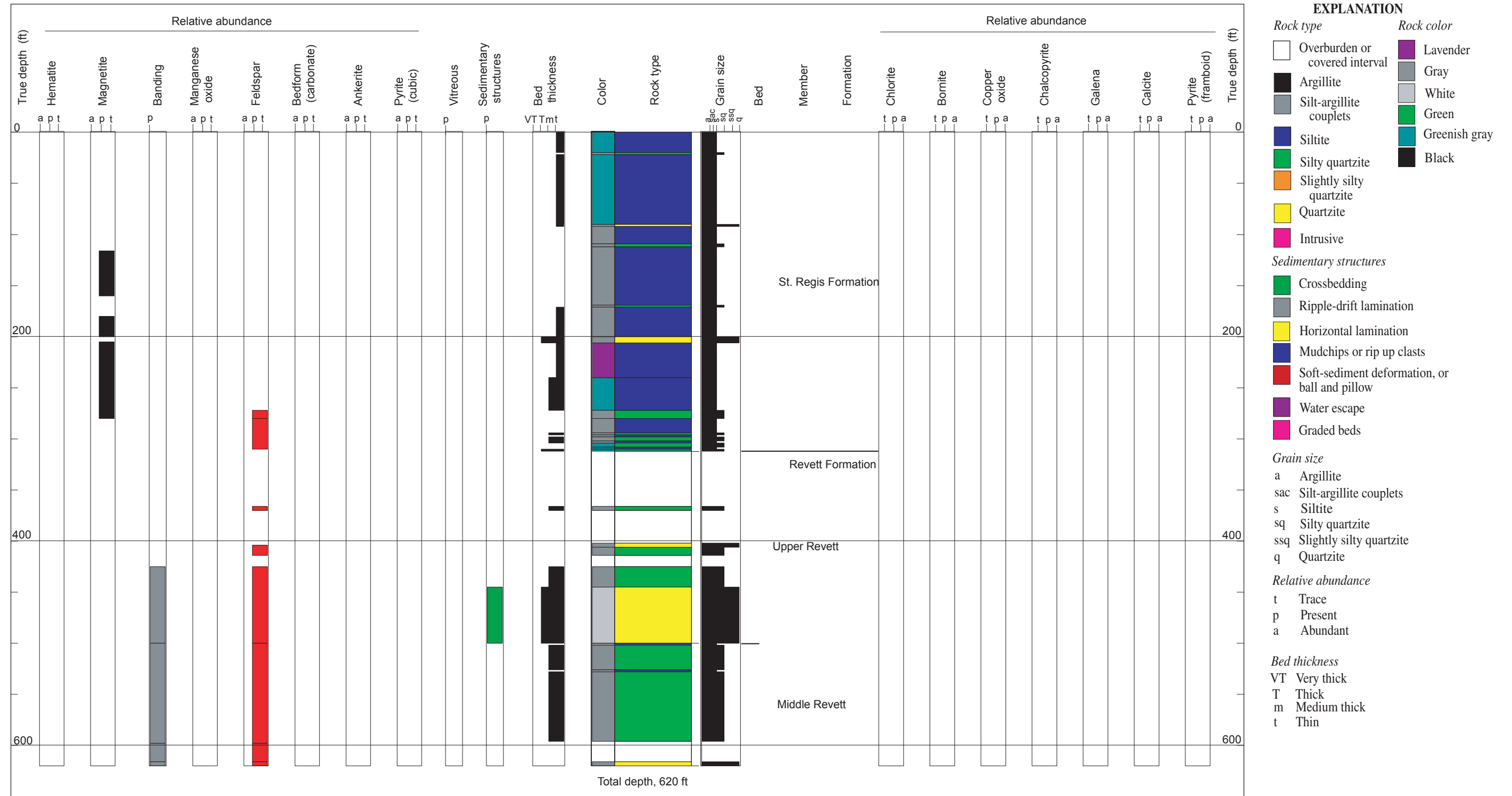
**Figure A-102. DDH MG-6 (Military Gulch) diamond-drill-hole section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-103. Prichard Creek measured section**

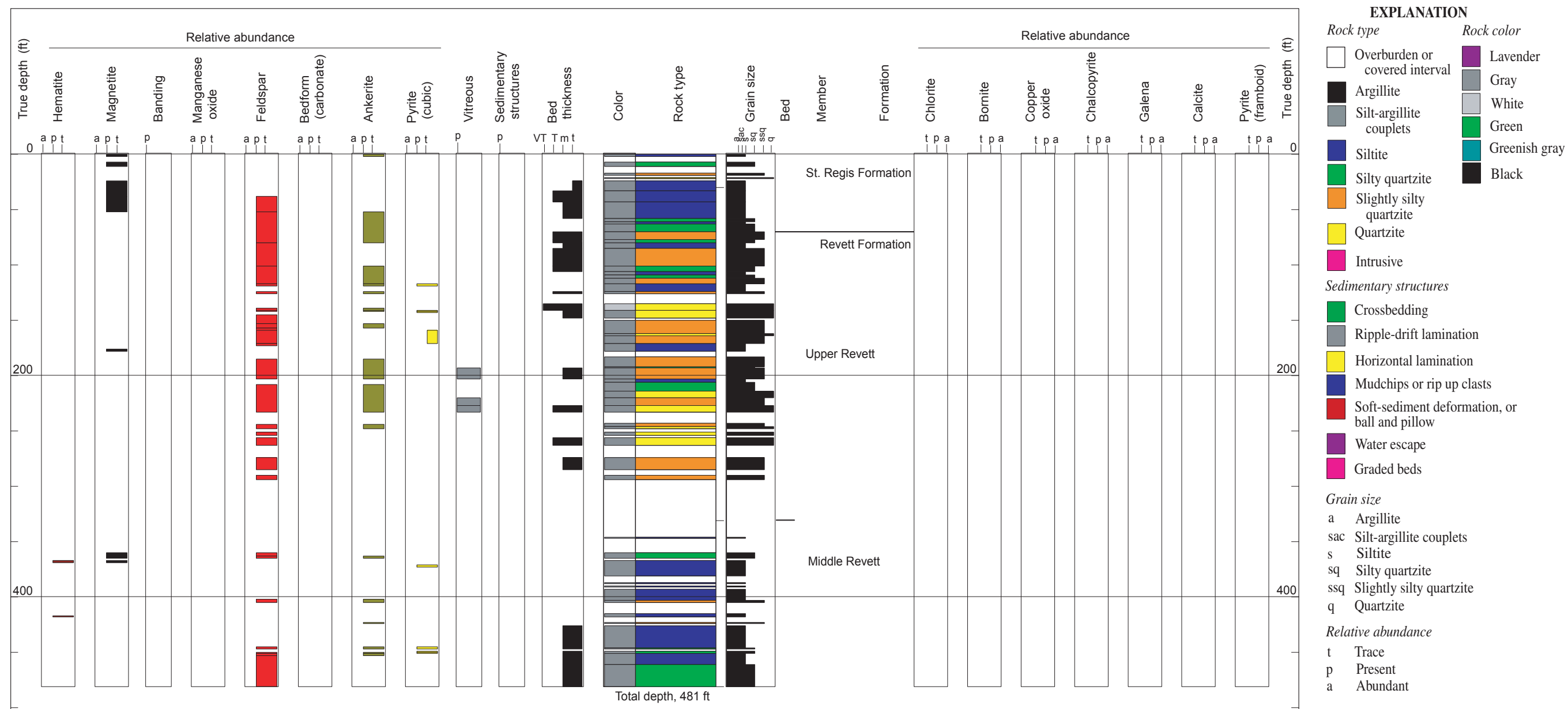
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



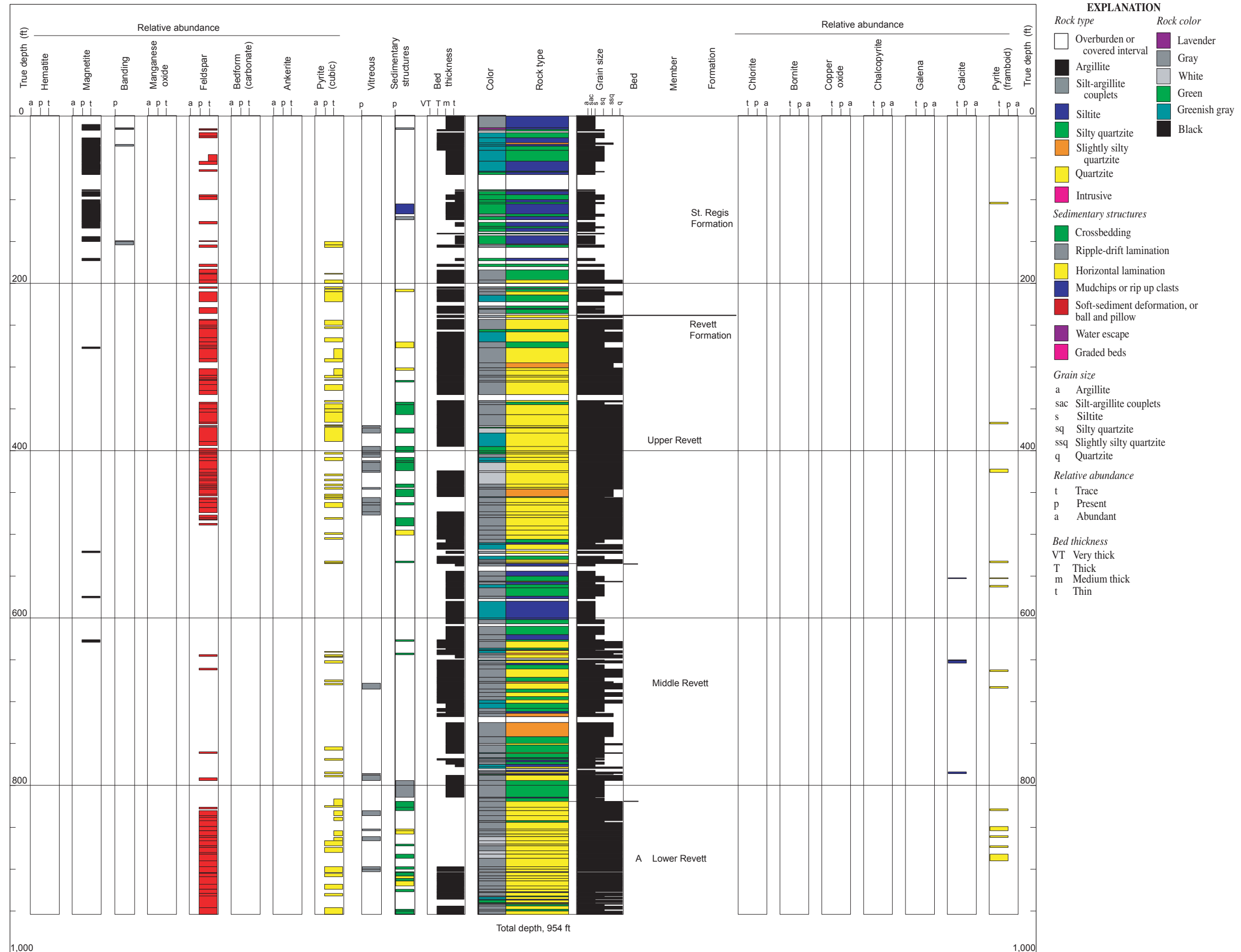


**Figure A-104. Coeur d'Alene River 3 measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

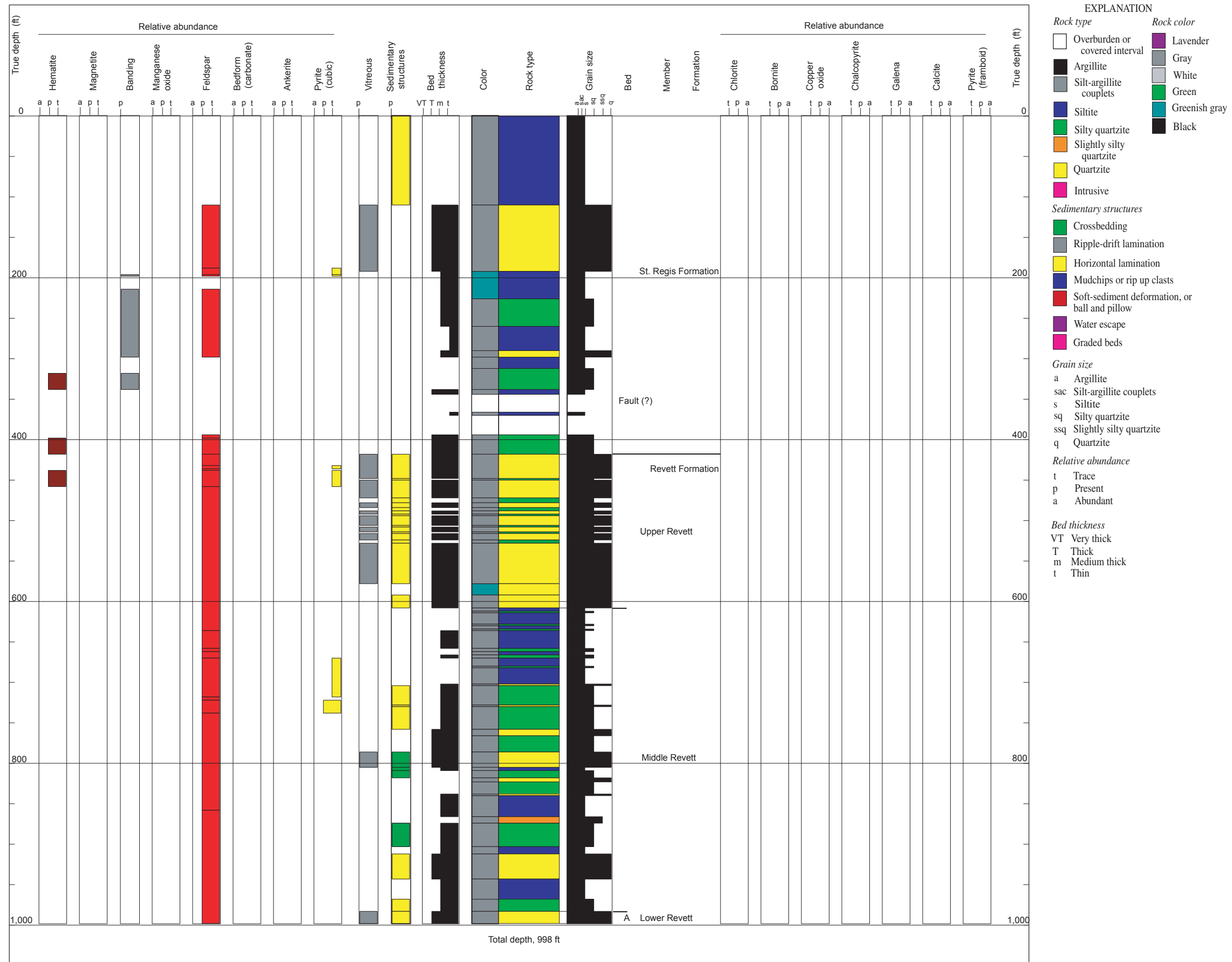
FIGURE A-105



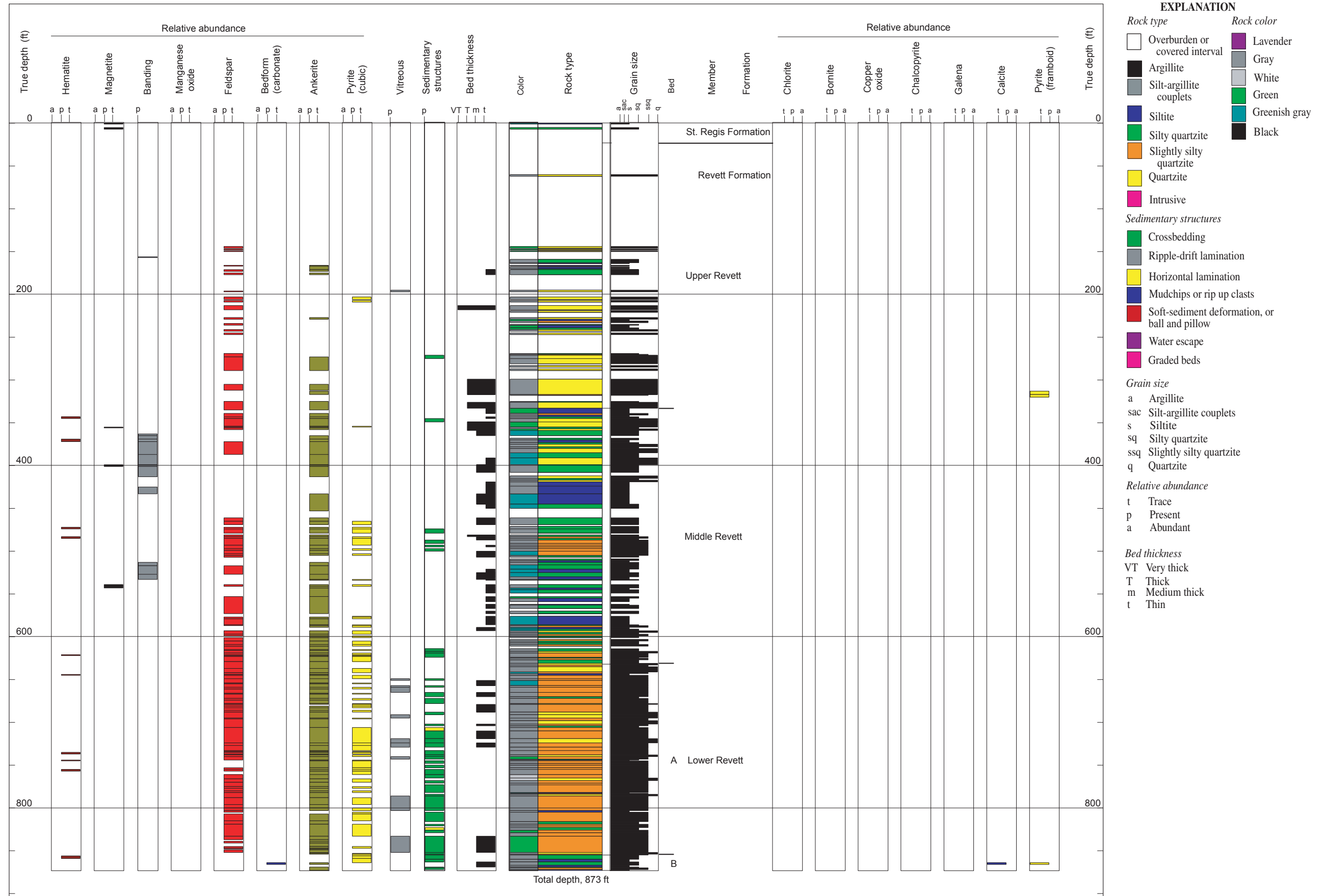
**Figure A-105. Cedar Creek measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



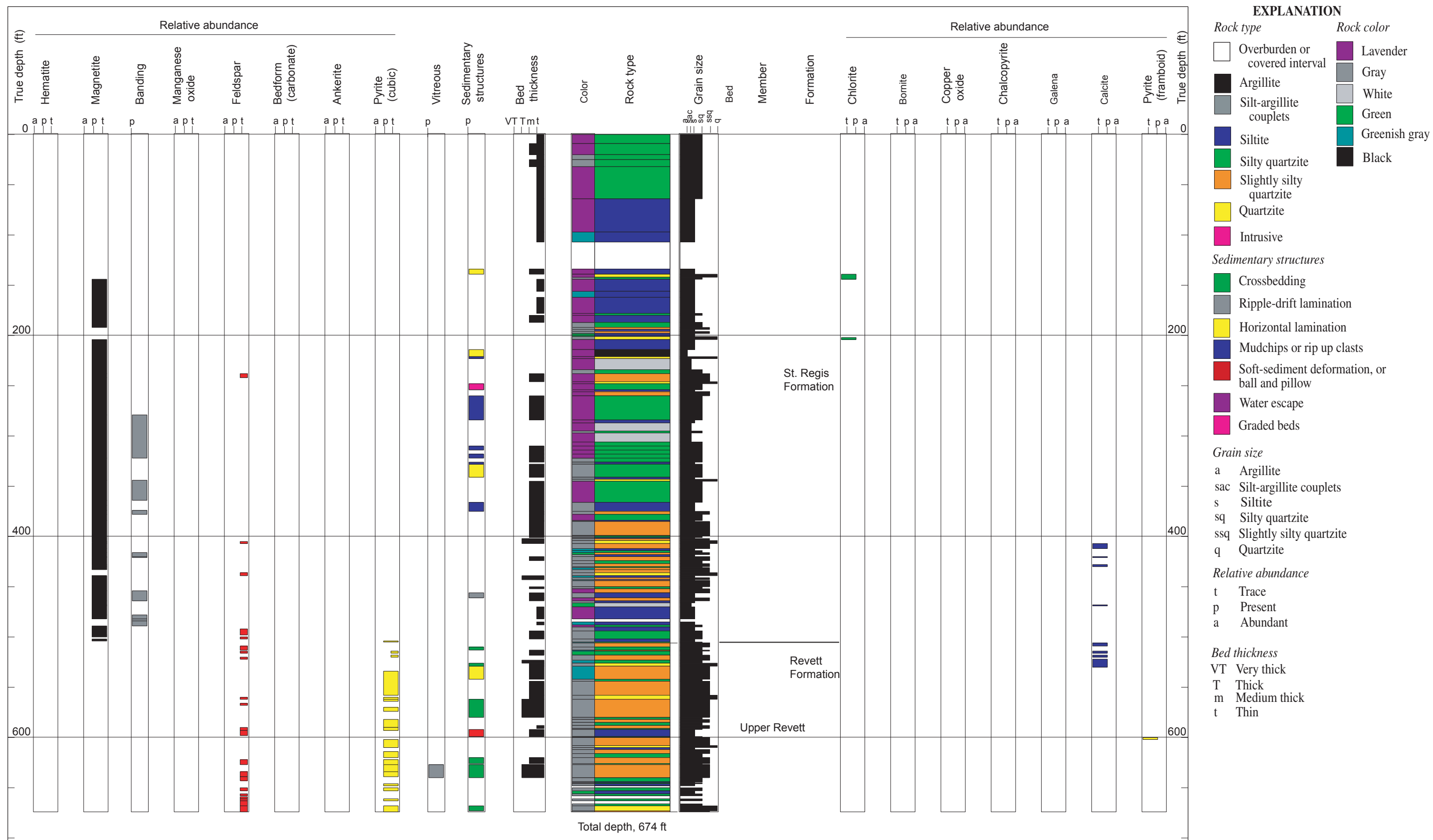
**Figure A-106. Little Grizzly Creek measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

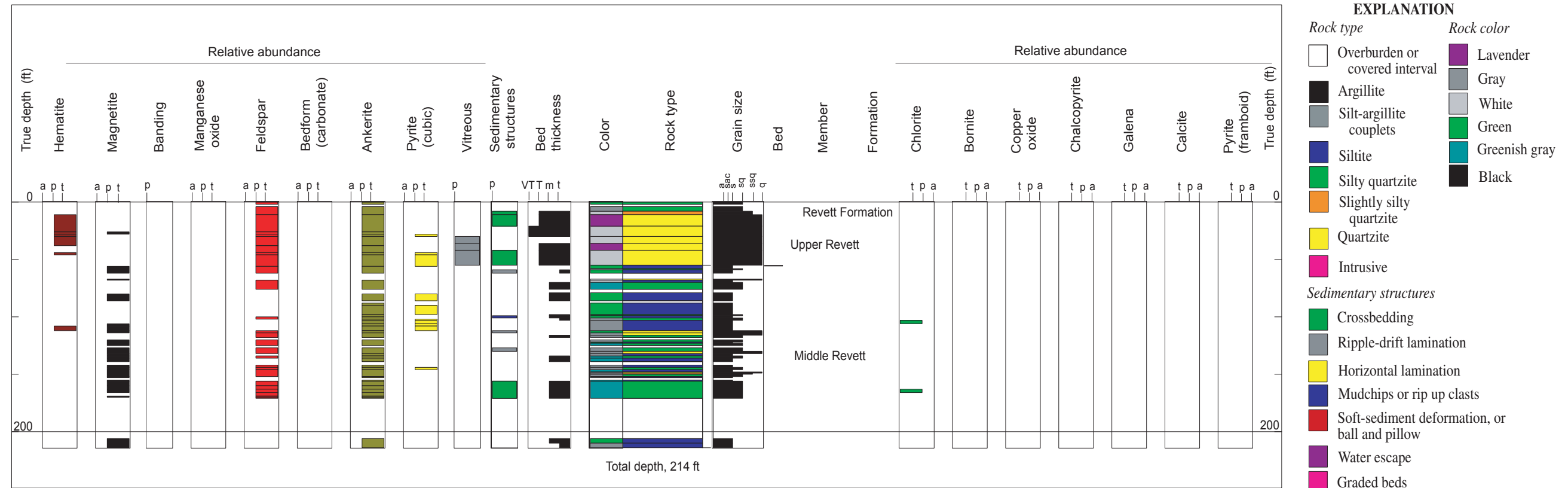


**Figure A-107. Grizzly Creek measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-108. Timmies Section measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

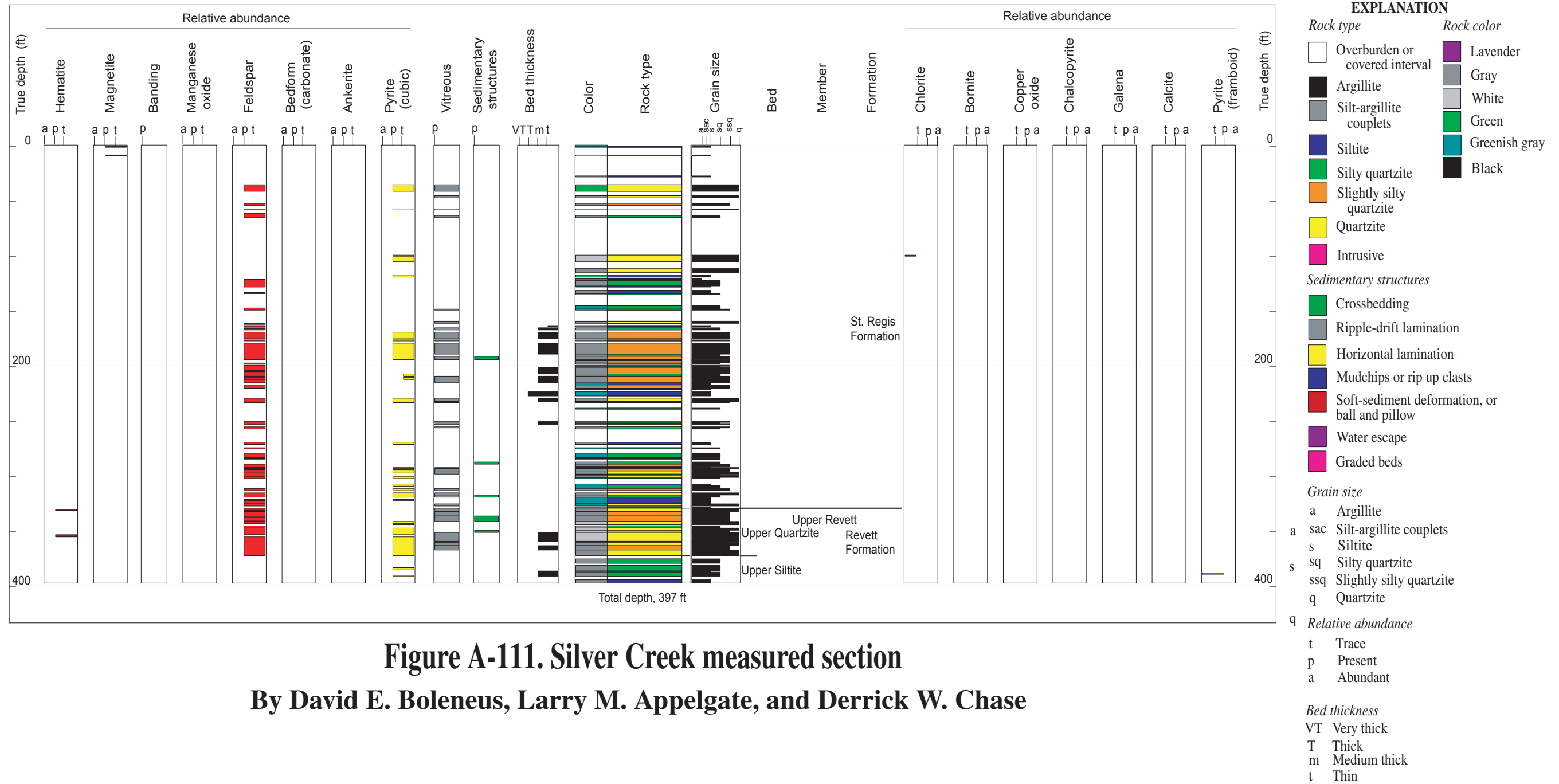




**Figure A-110. Graham Creek measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

- EXPLANATION**
- Rock type*
- Overburden or covered interval
  - Argillite
  - Silt-argillite couplets
  - Siltite
  - Silty quartzite
  - Slightly silty quartzite
  - Quartzite
  - Intrusive
- Sedimentary structures*
- Crossbedding
  - Ripple-drift lamination
  - Horizontal lamination
  - Mudchips or rip up clasts
  - Soft-sediment deformation, or ball and pillow
  - Water escape
  - Graded beds
- Grain size*
- a Argillite
  - sac Silt-argillite couplets
  - s Siltite
  - sq Silty quartzite
  - ssq Slightly silty quartzite
  - q Quartzite
- Relative abundance*
- t Trace
  - p Present
  - a Abundant
- Bed thickness*
- VT Very thick
  - T Thick
  - m Medium thick
  - t Thin
- Rock color*
- Lavender
  - Gray
  - White
  - Green
  - Greenish gray
  - Black

FIGURE A-111





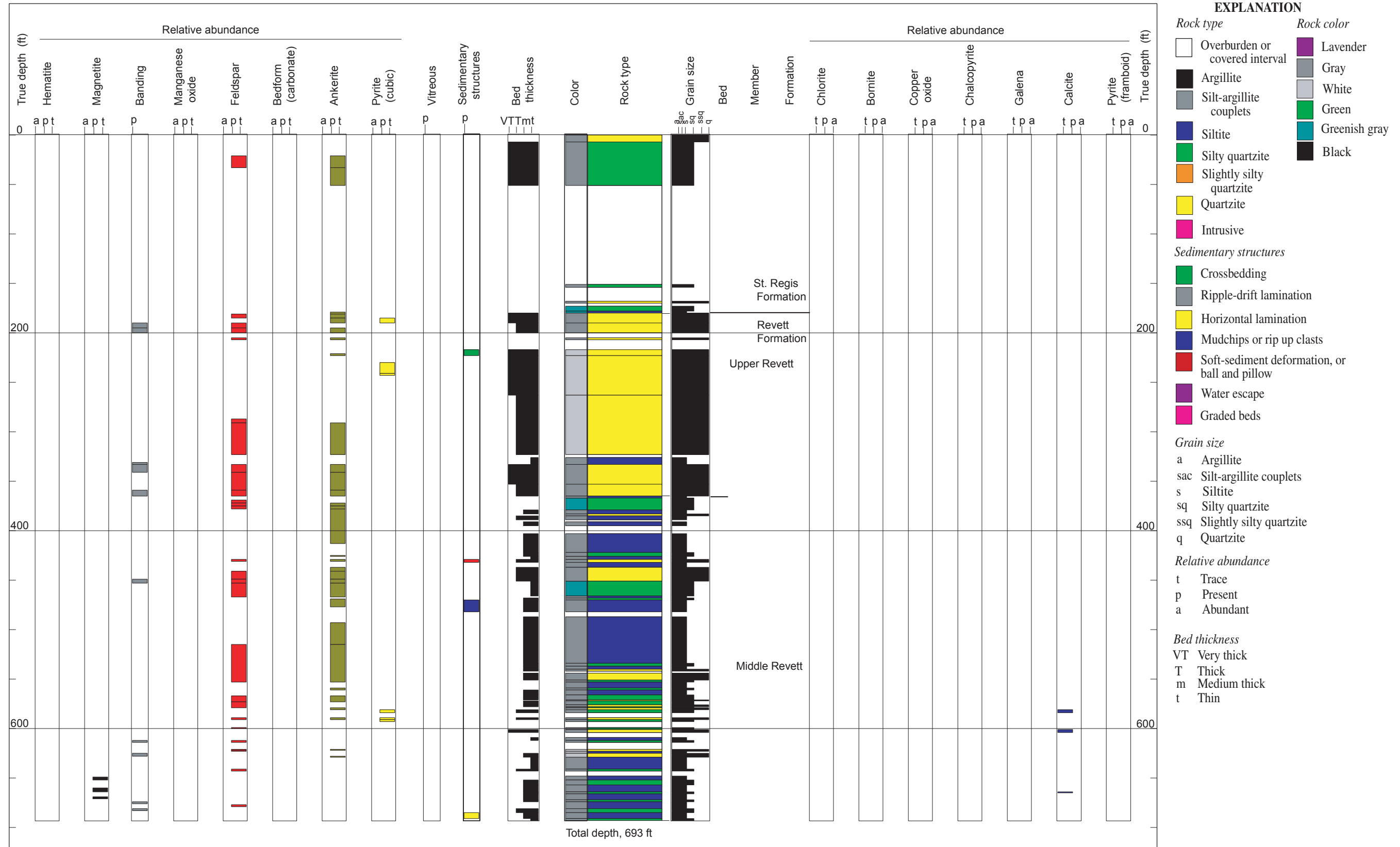
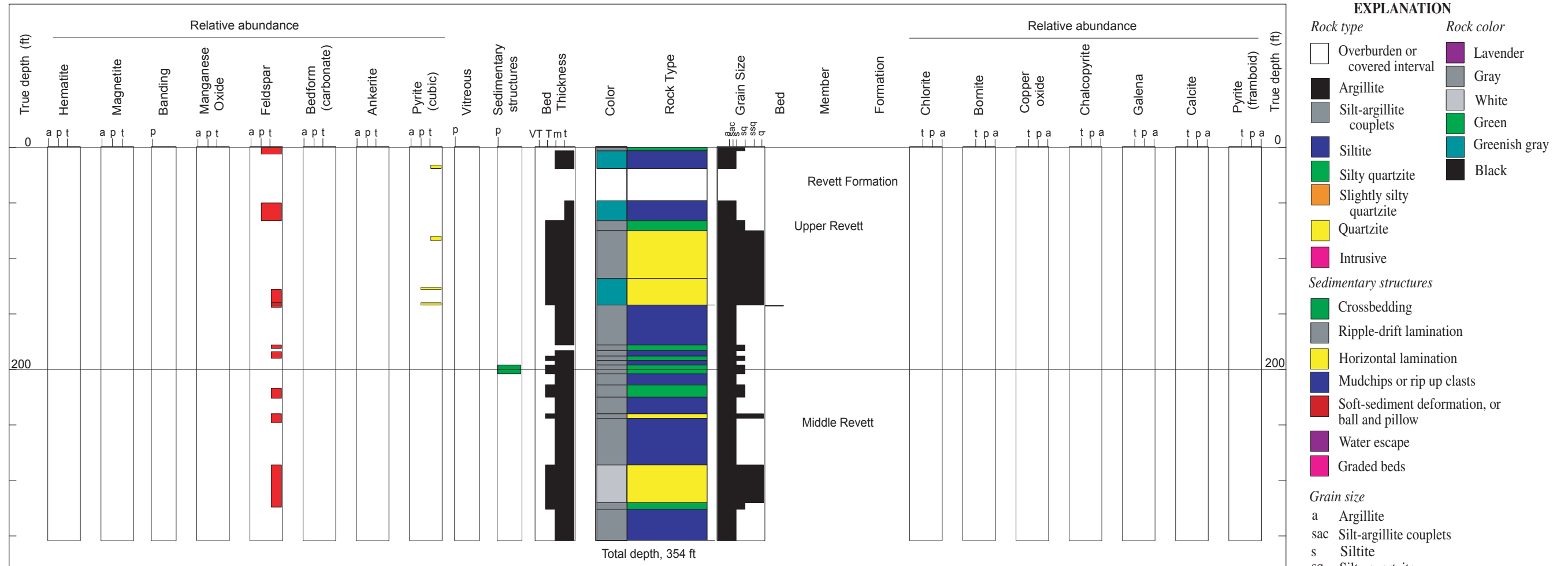
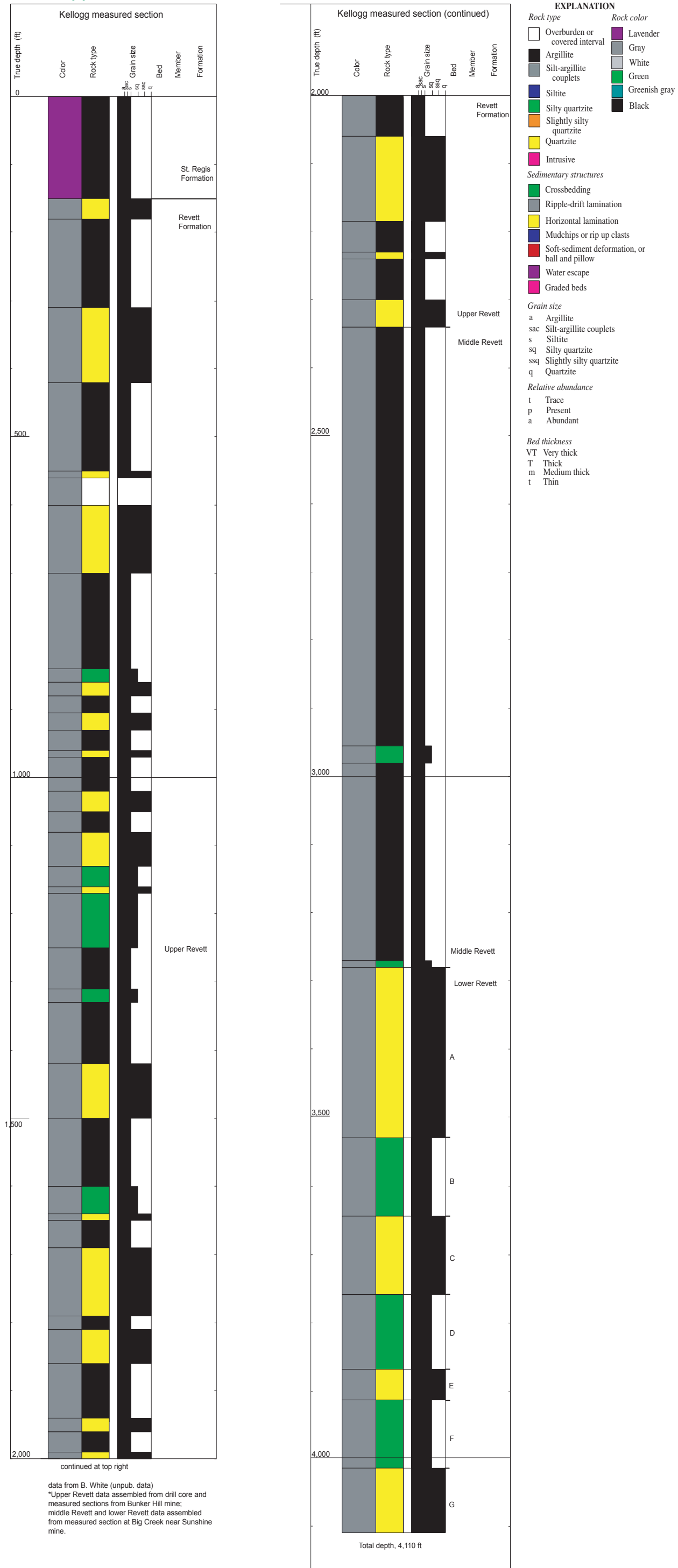


FIGURE A-113

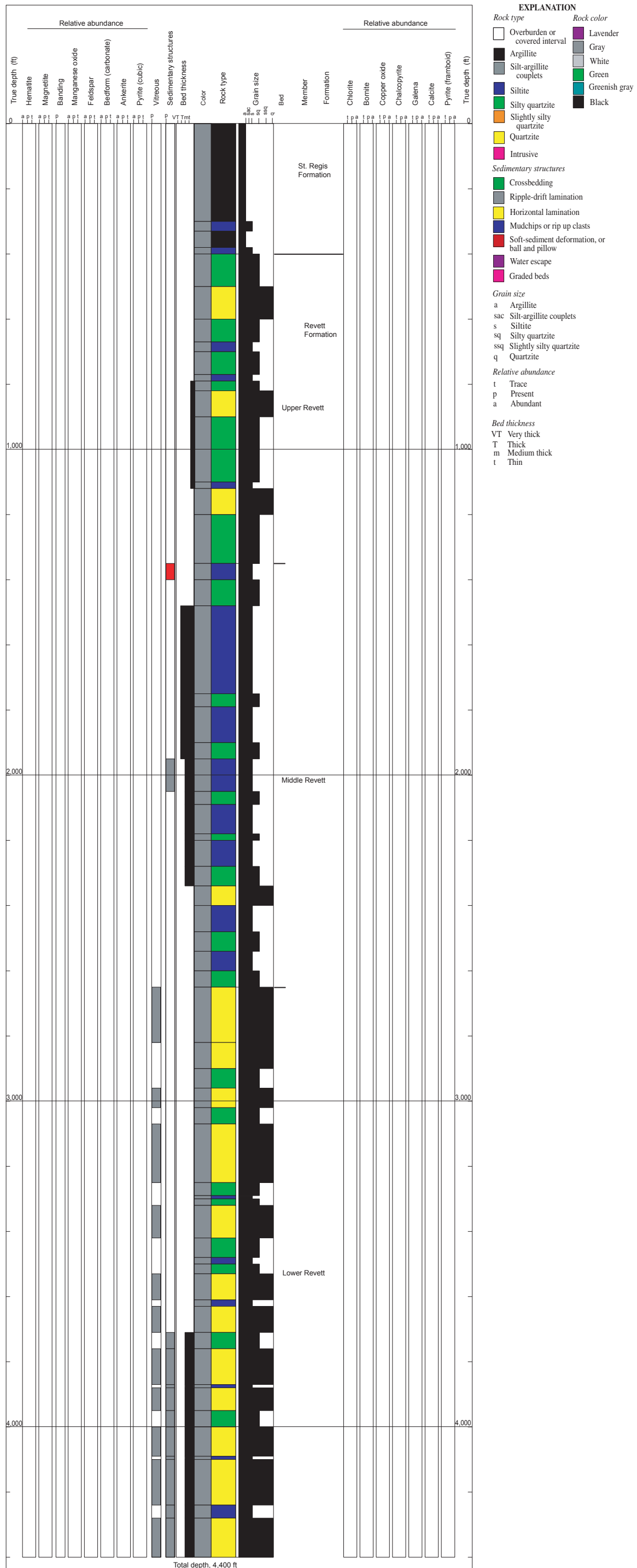


**Figure A-113. Coal Creek measured section**

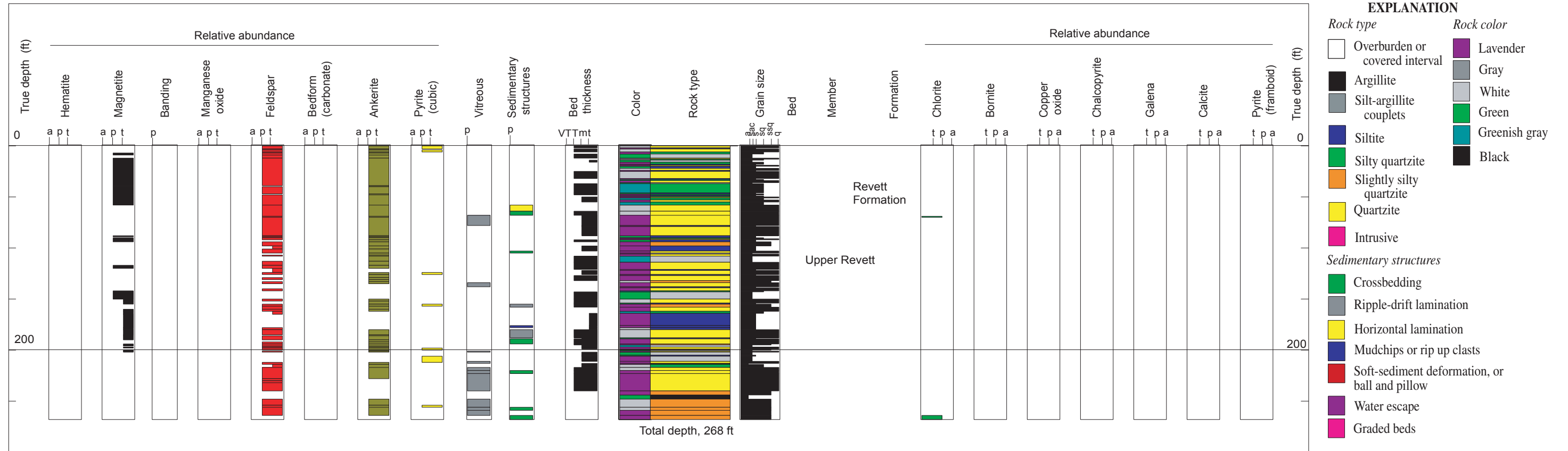
**By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase**



**Figure A-114. Kellogg measured section\***  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-115. Latour Peak-Boise Peak measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-116. North of Prado Creek measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

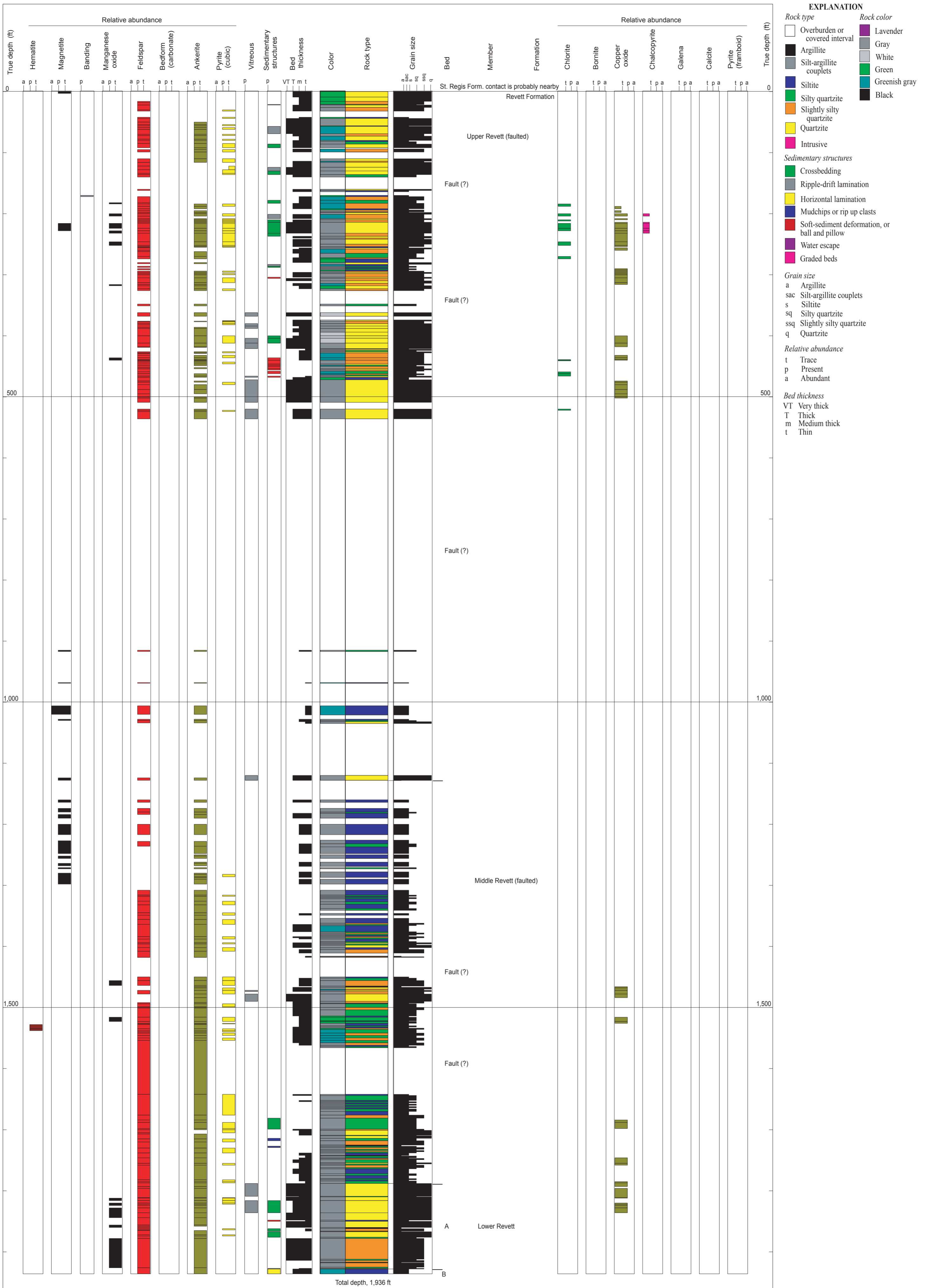
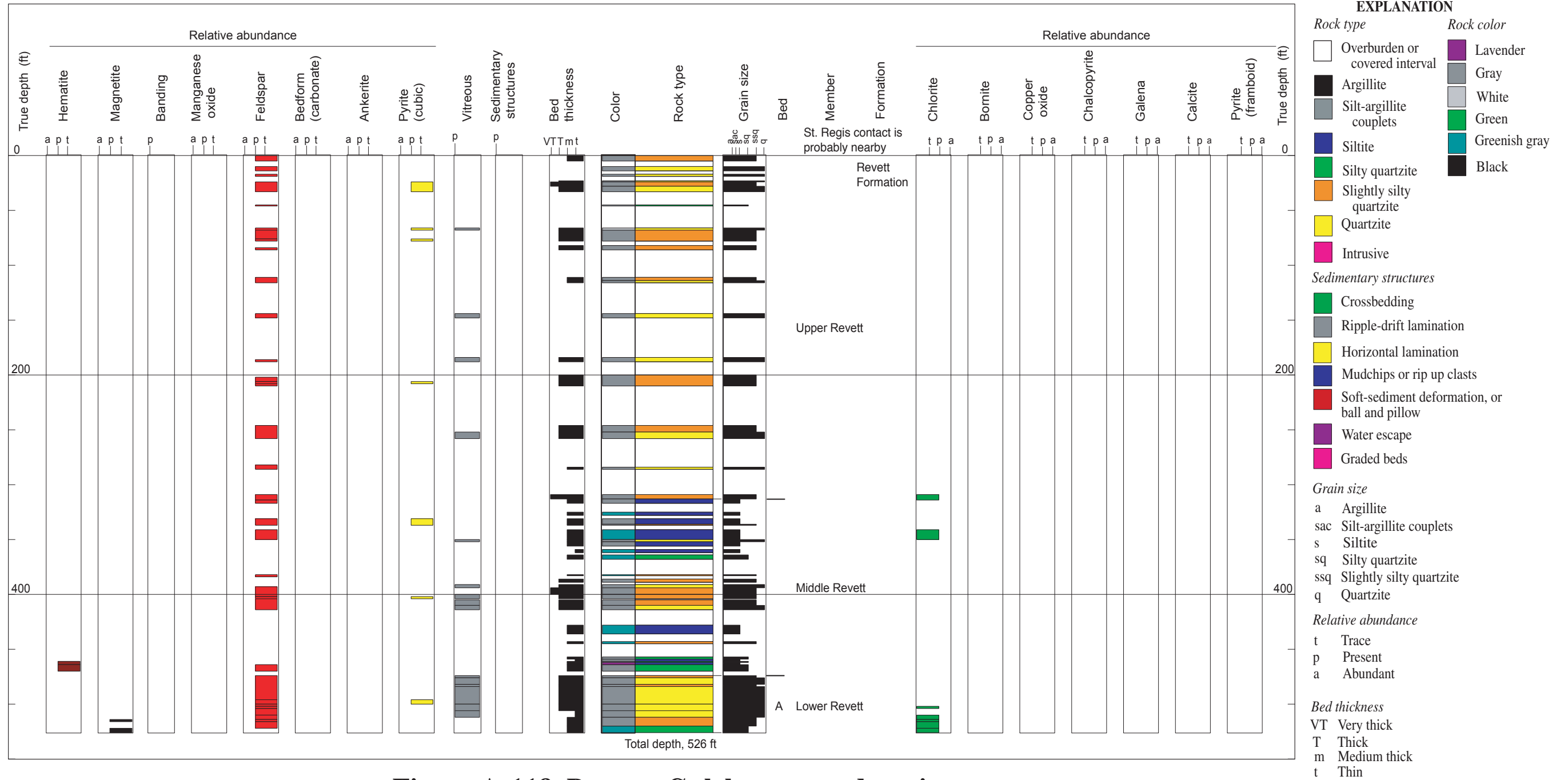


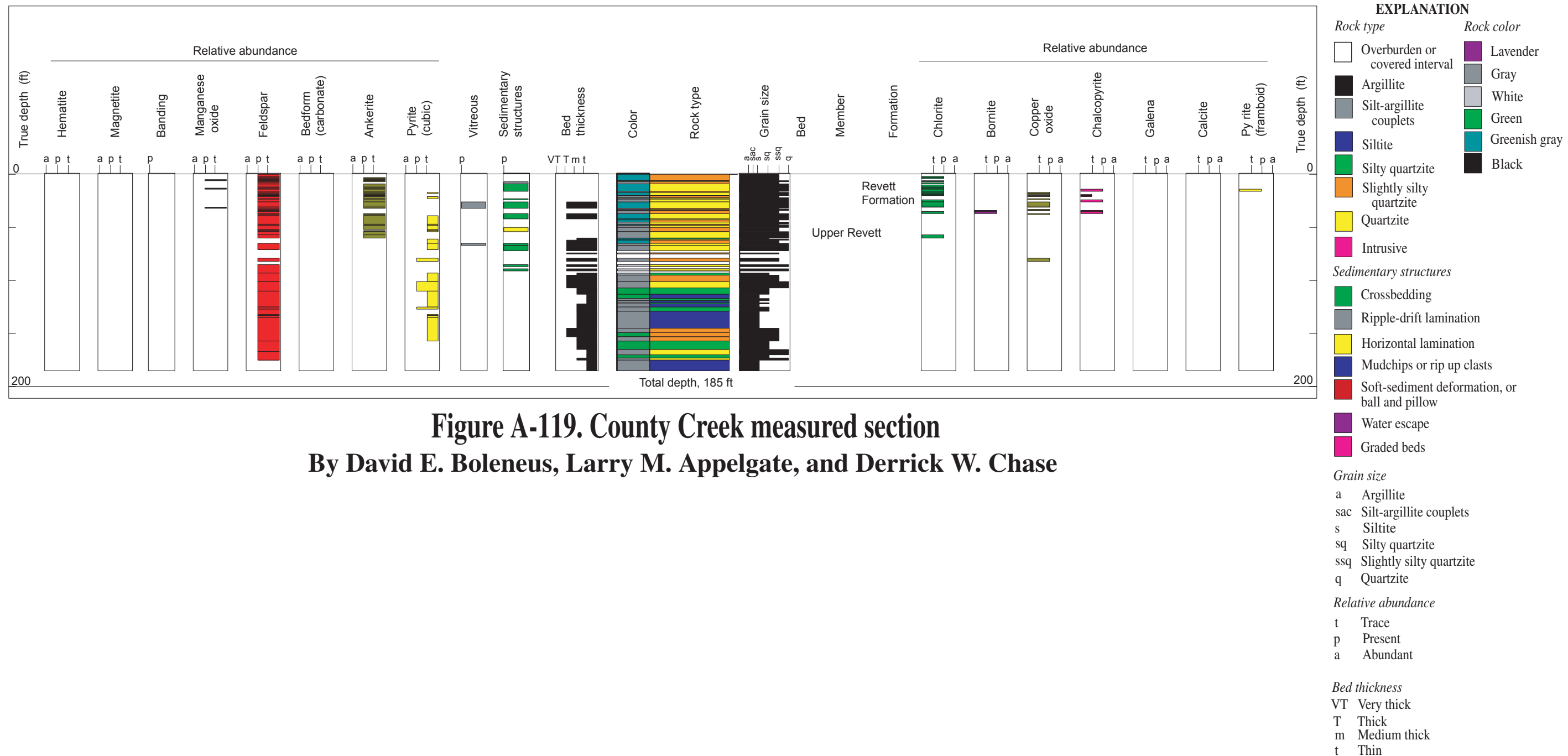
Figure A-117. Bumblebee Road measured section

By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



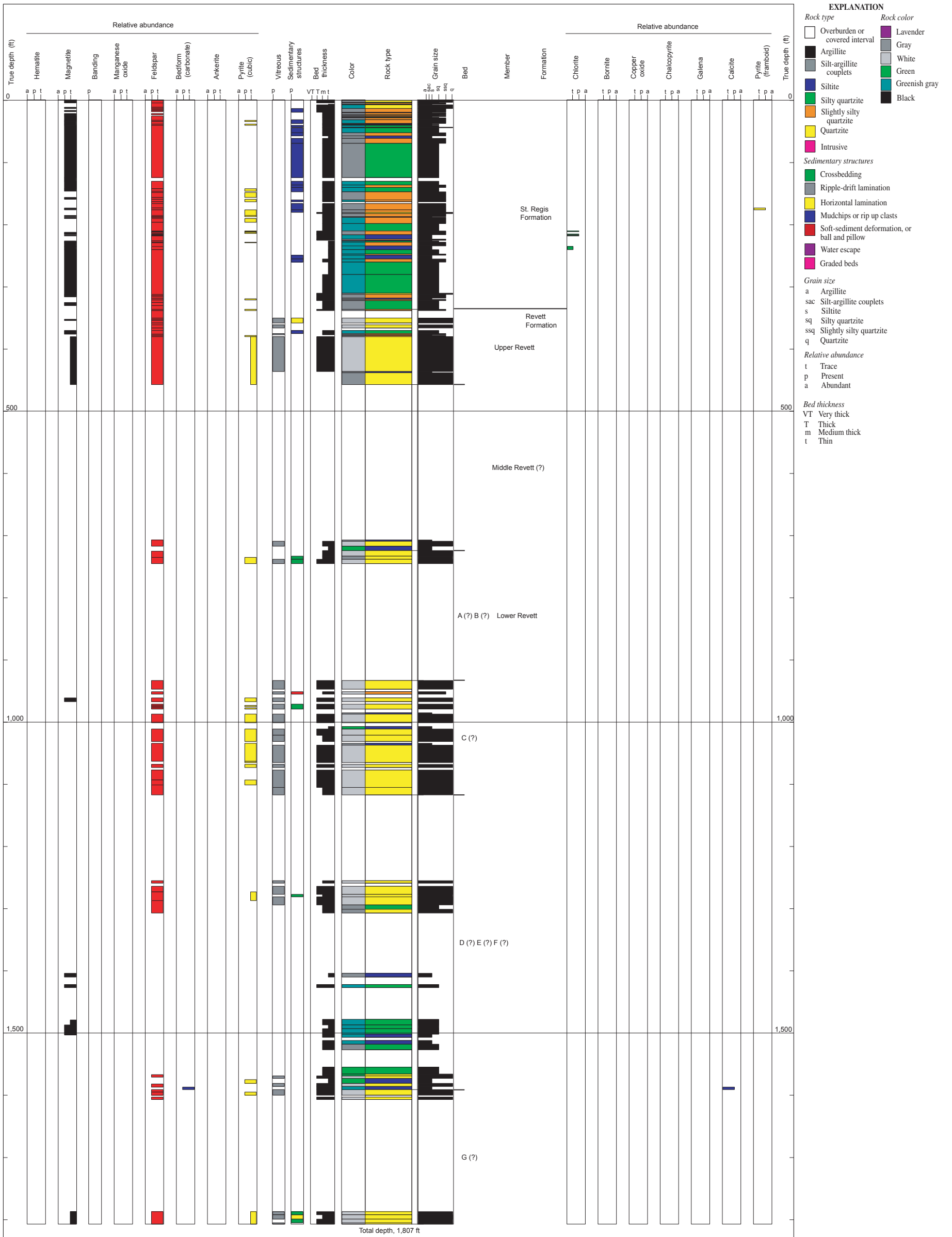
**Figure A-118. Browns Gulch measured section**

**By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase**

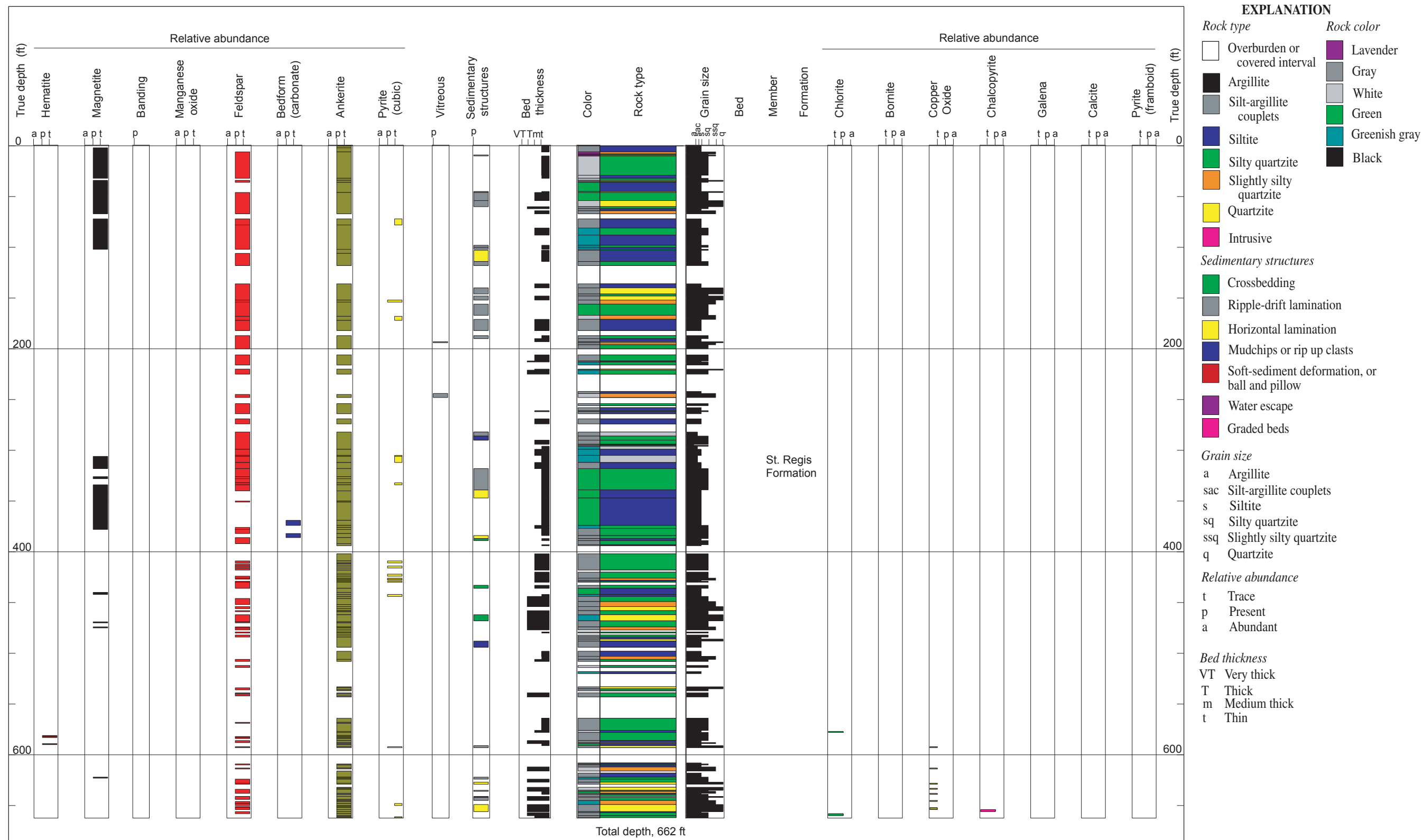


**Figure A-119. County Creek measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

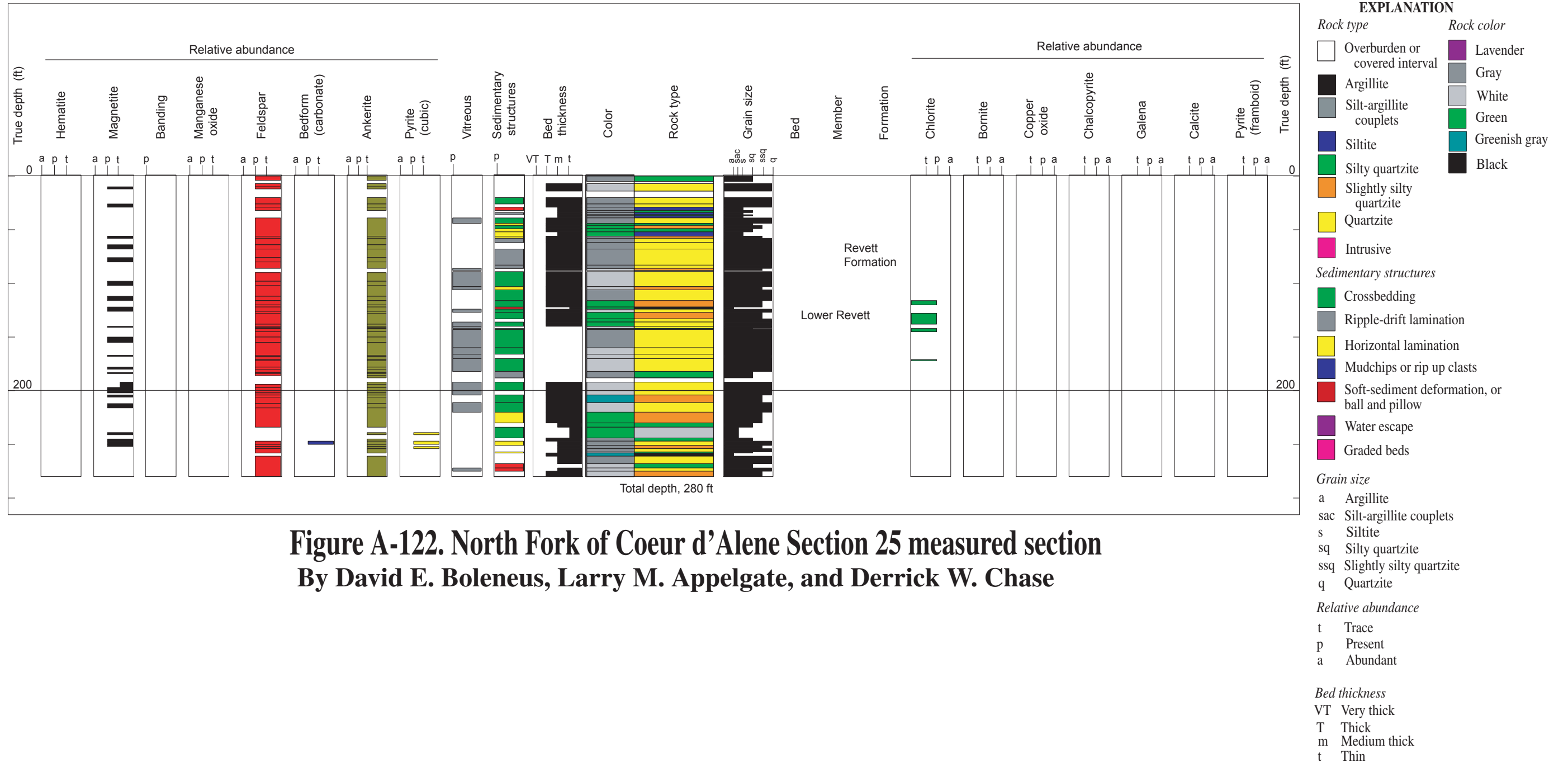




**Figure A-120. Little Tepee Creek 1, 2 measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-121. North Fork of Coeur d'Alene Section 20 measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase



**Figure A-122. North Fork of Coeur d'Alene Section 25 measured section**  
By David E. Boleneus, Larry M. Appelgate, and Derrick W. Chase

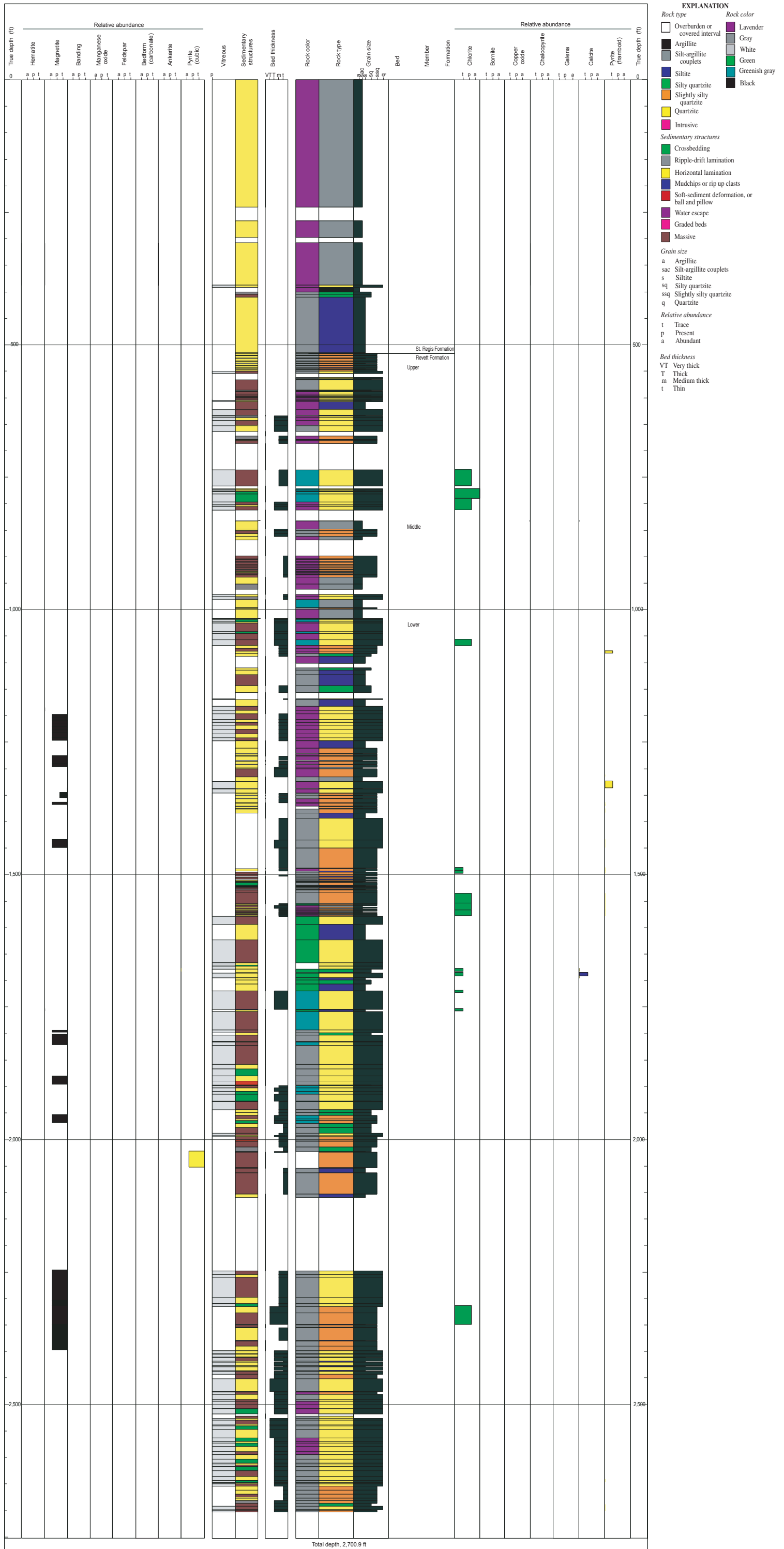
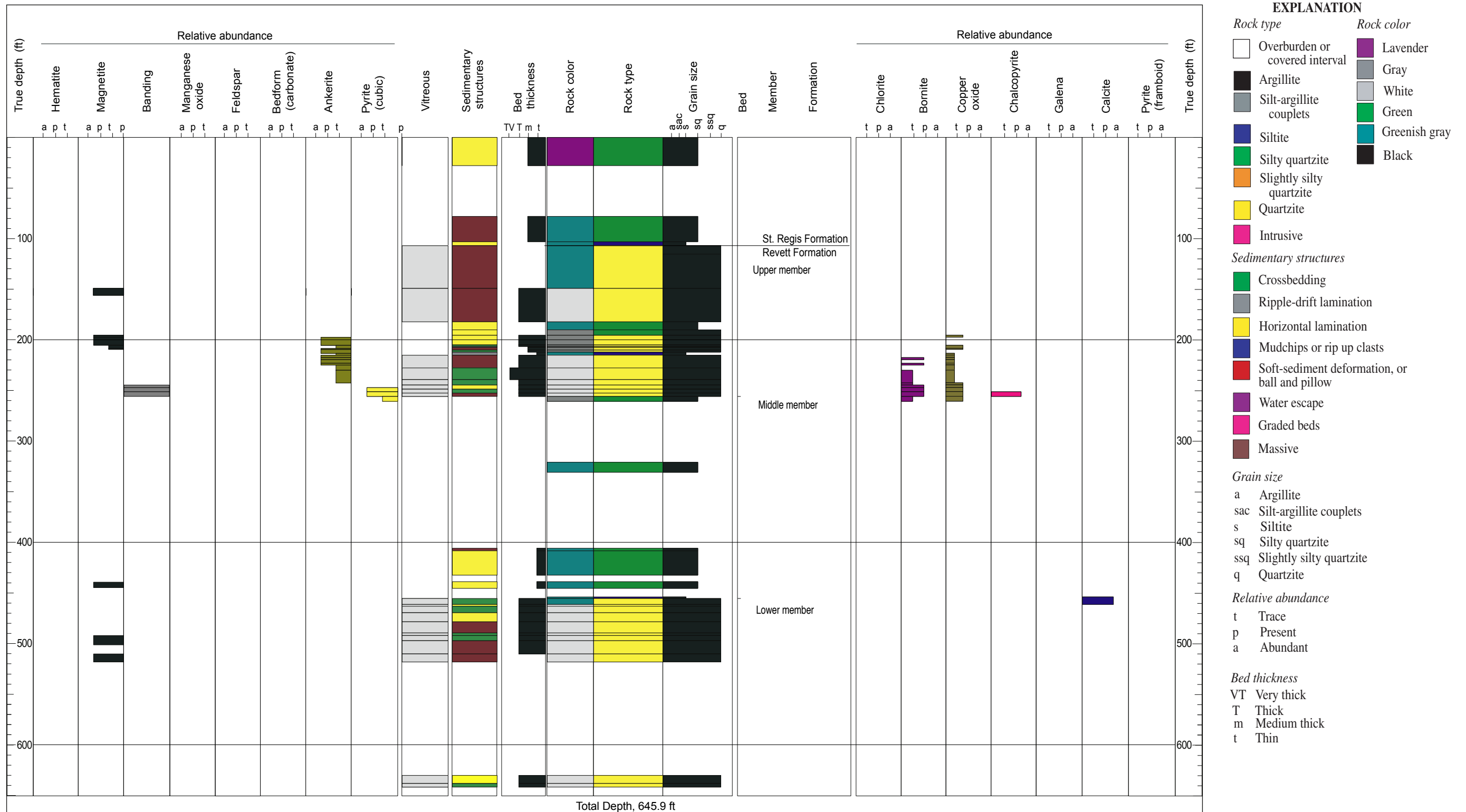
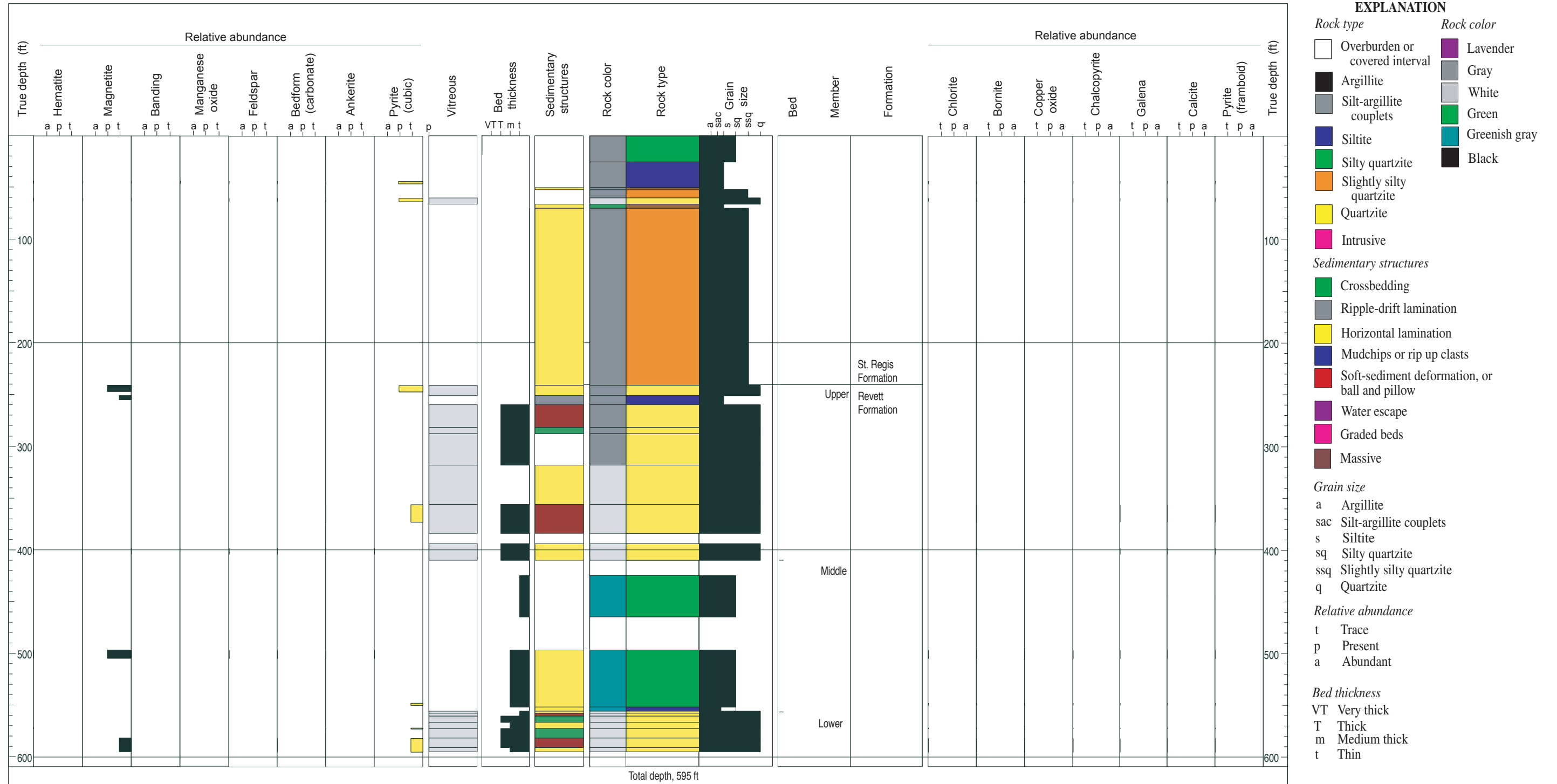


Figure A-123. Hope (David Thompson Game Preserve) measured section  
By David E. Boleneus, Jeremy C. Larsen, and Kenneth C. Assmus

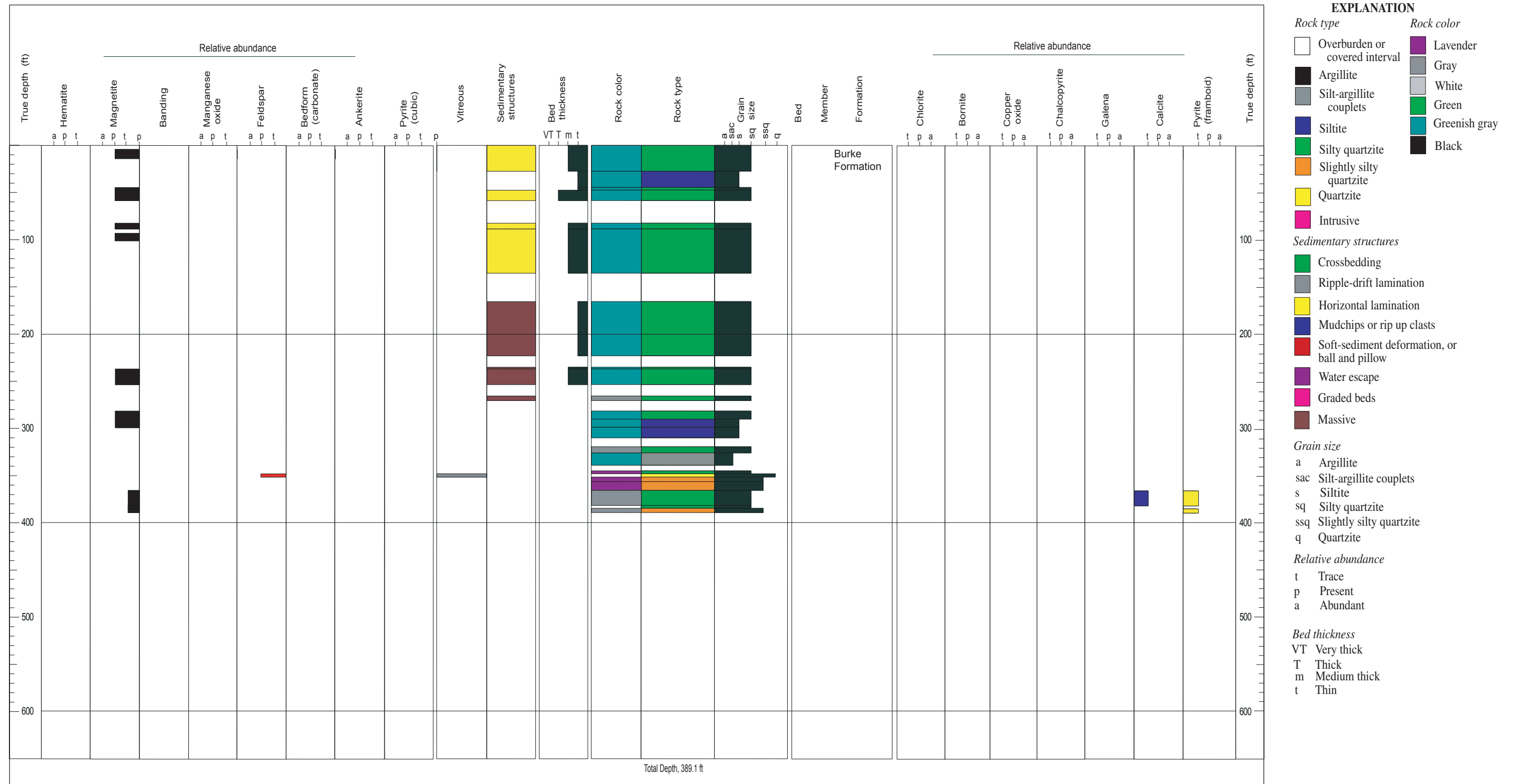


**Figure A-124. Military Gulch (upper) measured section**  
By David E. Boleneus, Jeremy C. Larsen and Kenneth C. Assmus

FIGURE A-125



**Figure A-125. Military Gulch (lower) measured section**  
By David E. Boleneus, Jeremy C. Larsen and Kenneth C. Assmus



**Figure A-126. Lower Glidden Lake measured section**  
By David E. Boleneus, Jeremy C. Larsen and Kenneth C. Assmus