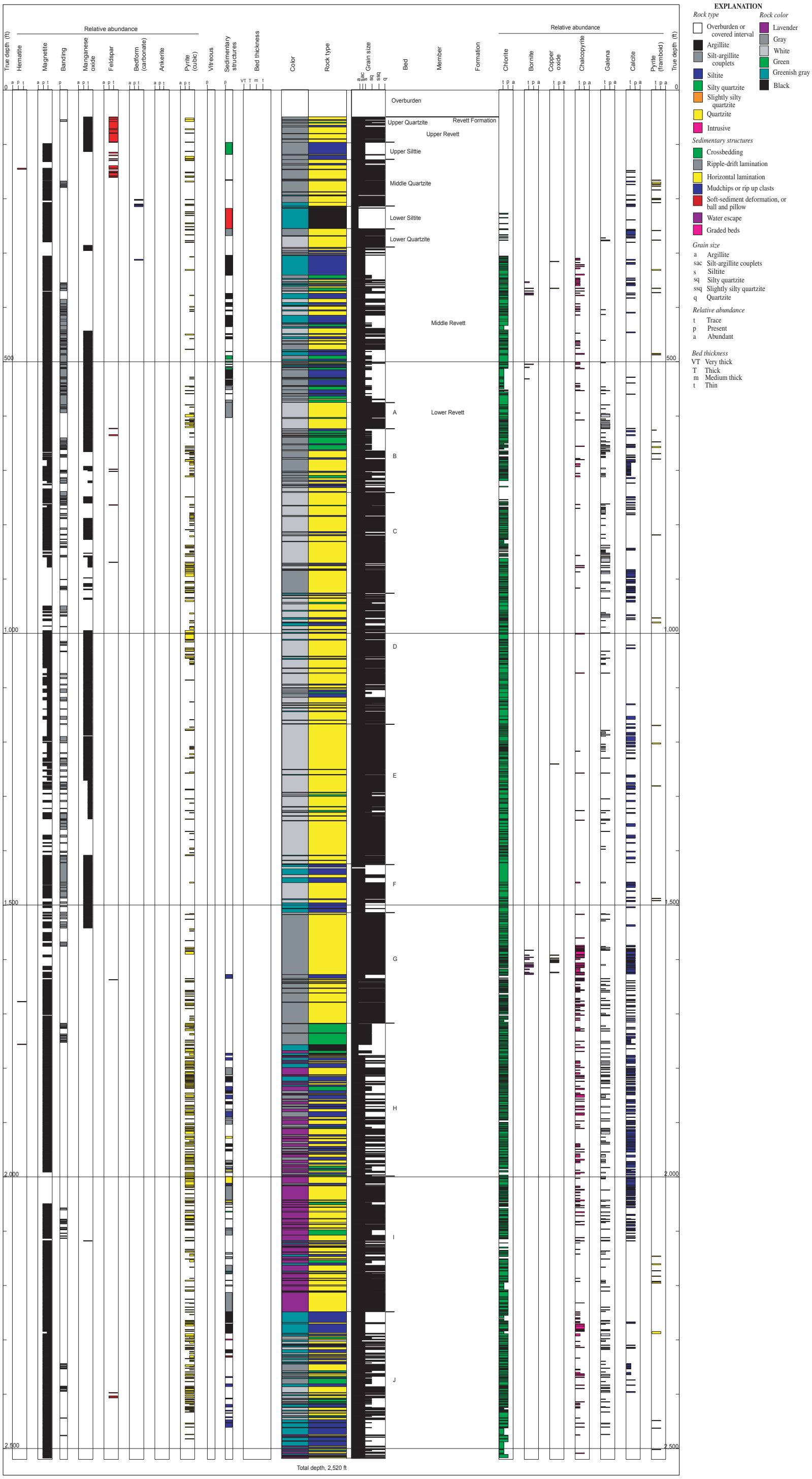

Figure A-11. DDH SL-136 (Spar Lake) diamond-drill-hole section

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

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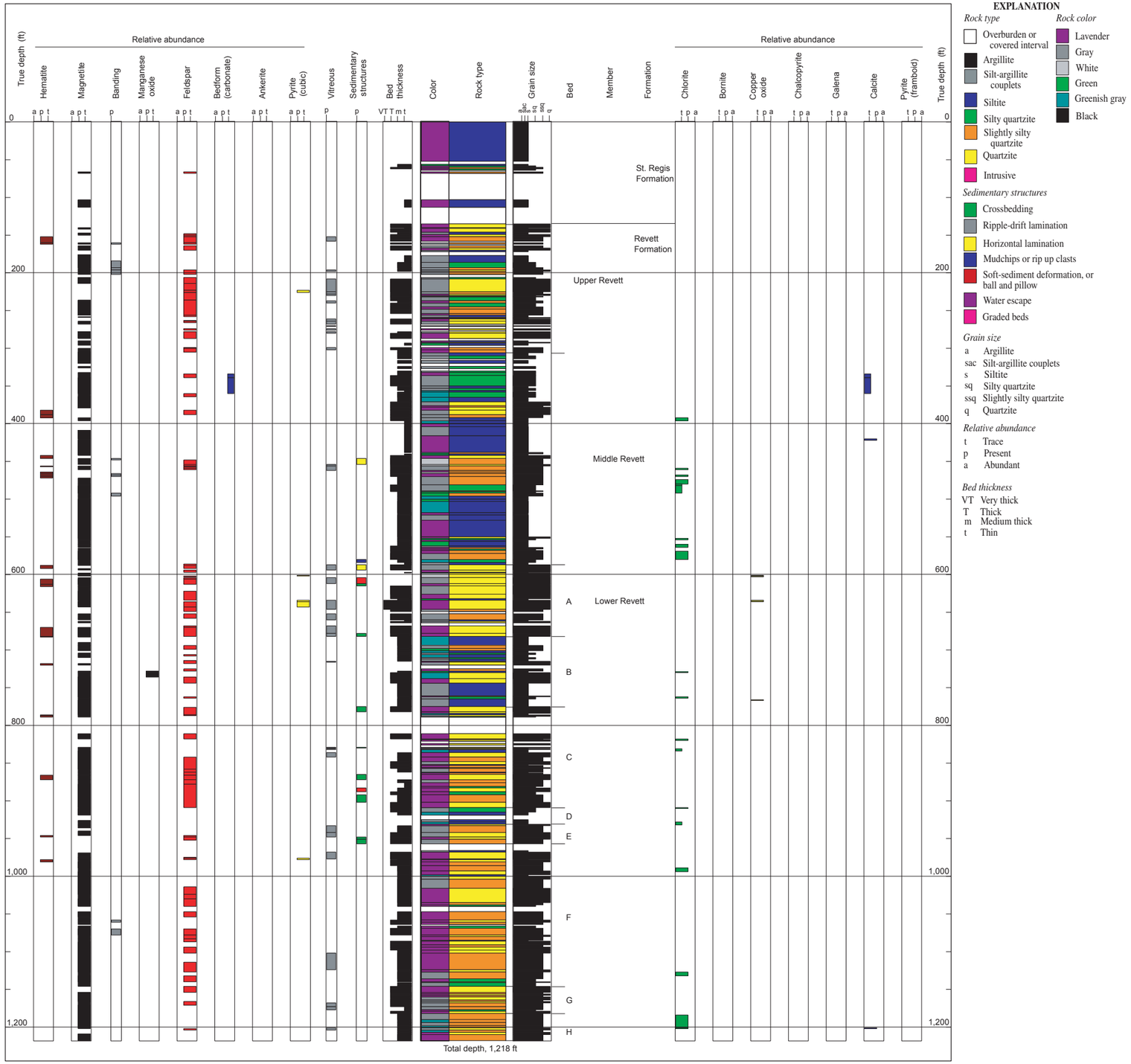
FIGURE A-2



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-2. Wee Lake 1, 2 measured section

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

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FIGURE A-3

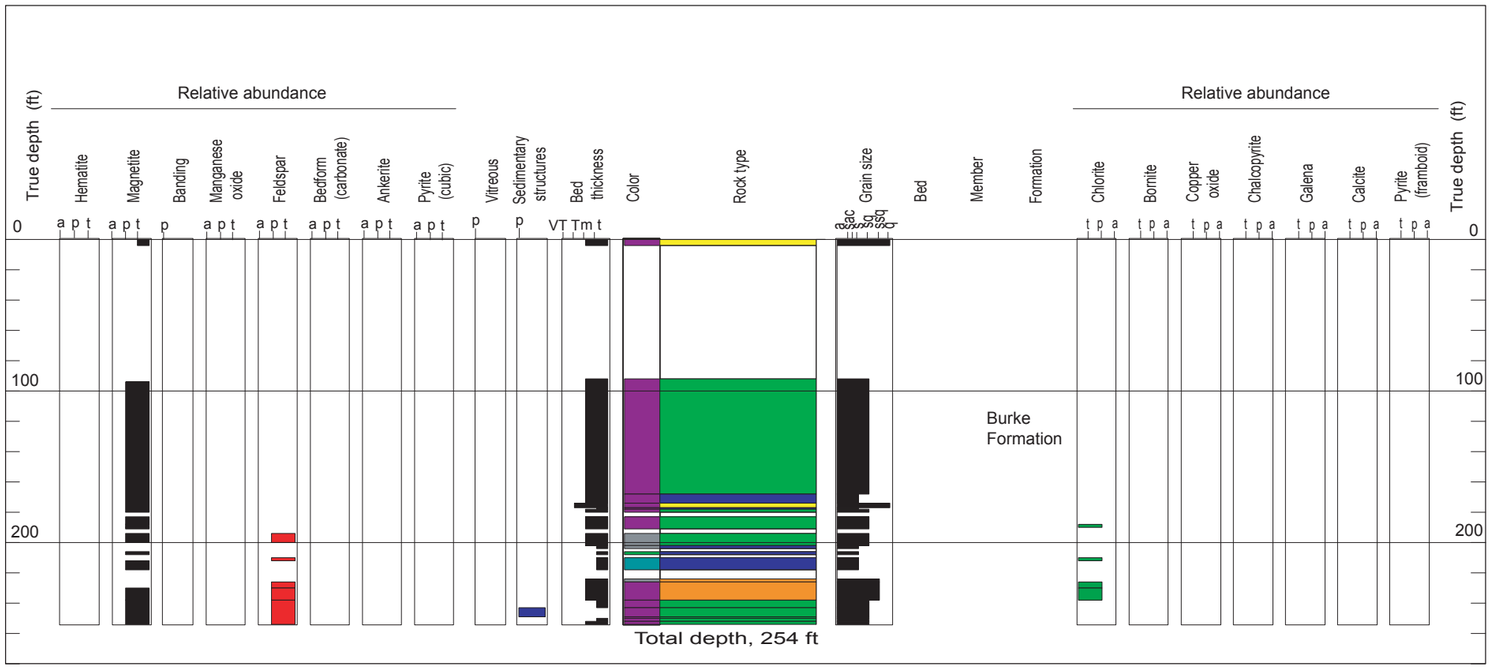

Figure A-3. Gunsight Mountain measured section

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

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

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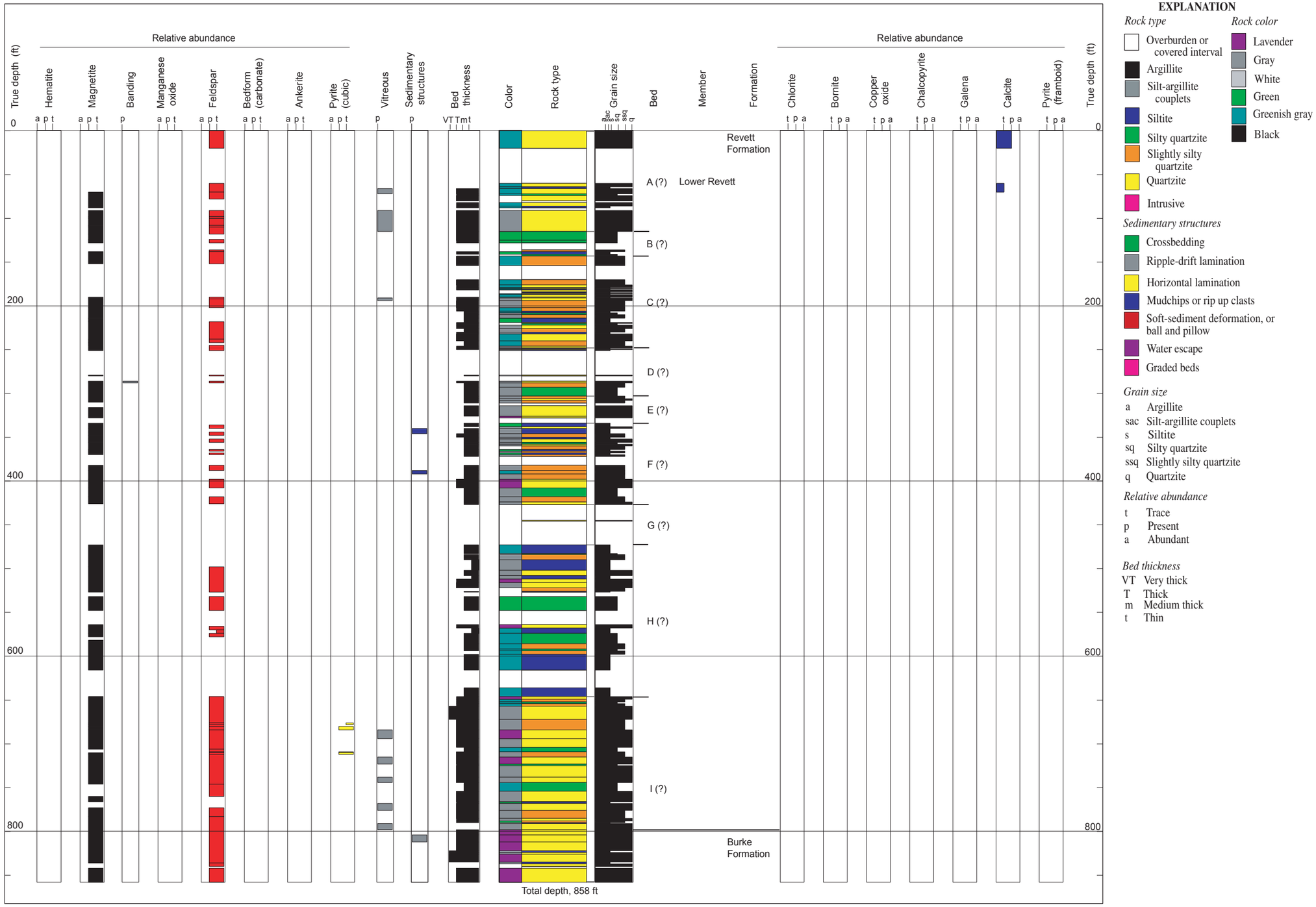
FIGURE A-4



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-4. Kilbrennan Creek measured section

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

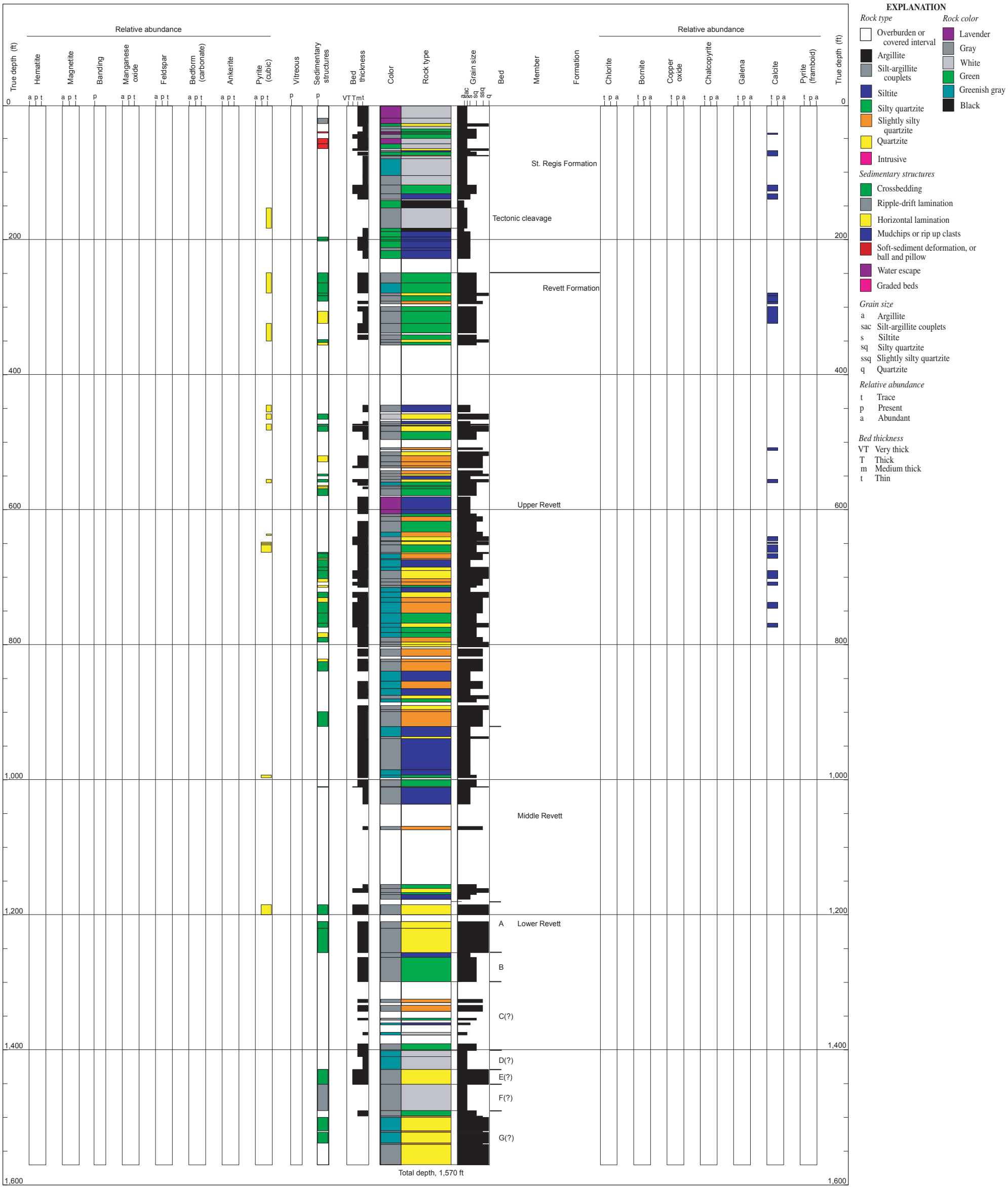


Figure A-5. Horseshoe Lake measured section

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

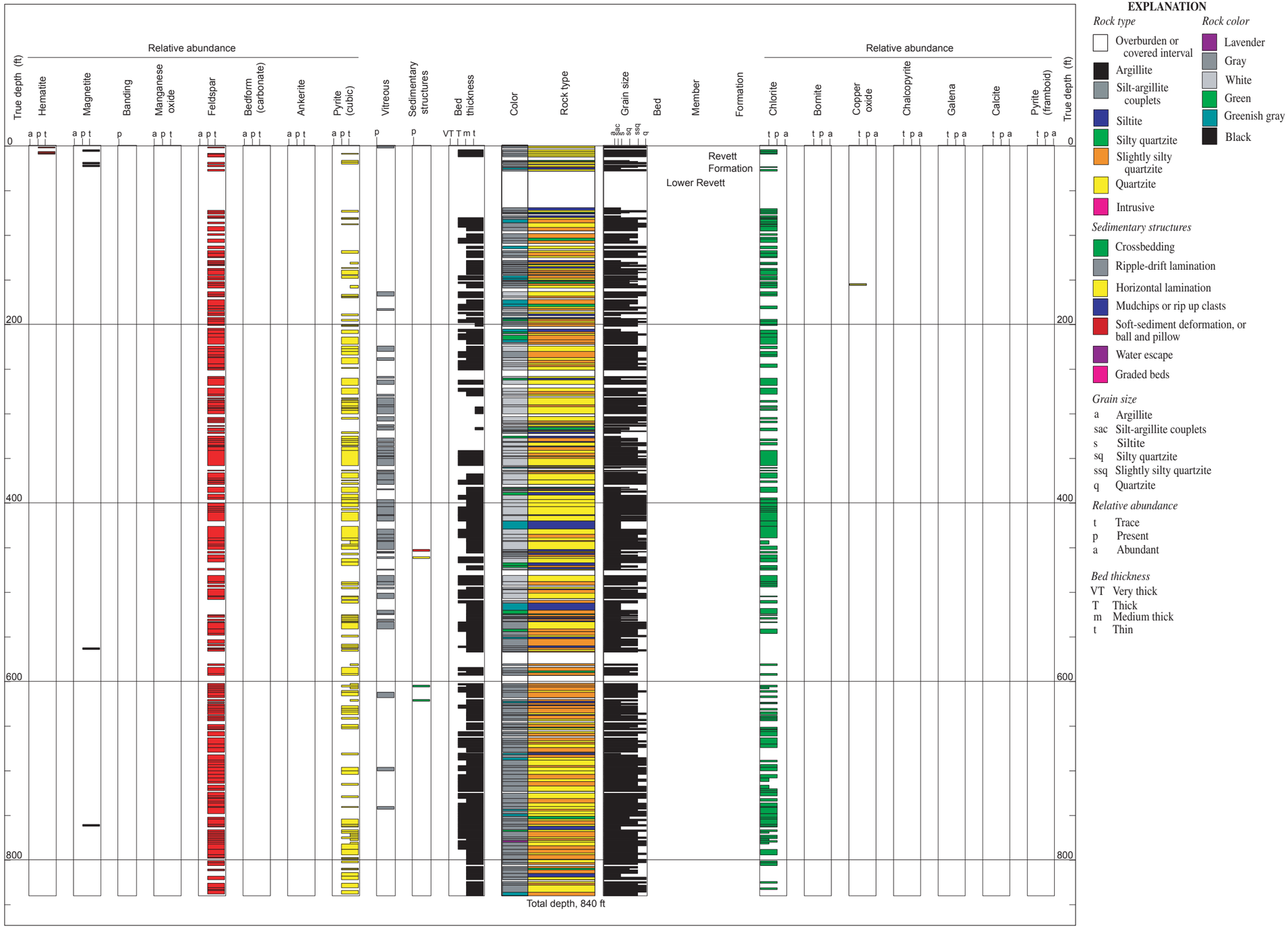


Figure A-6. Granite Creek measured section

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

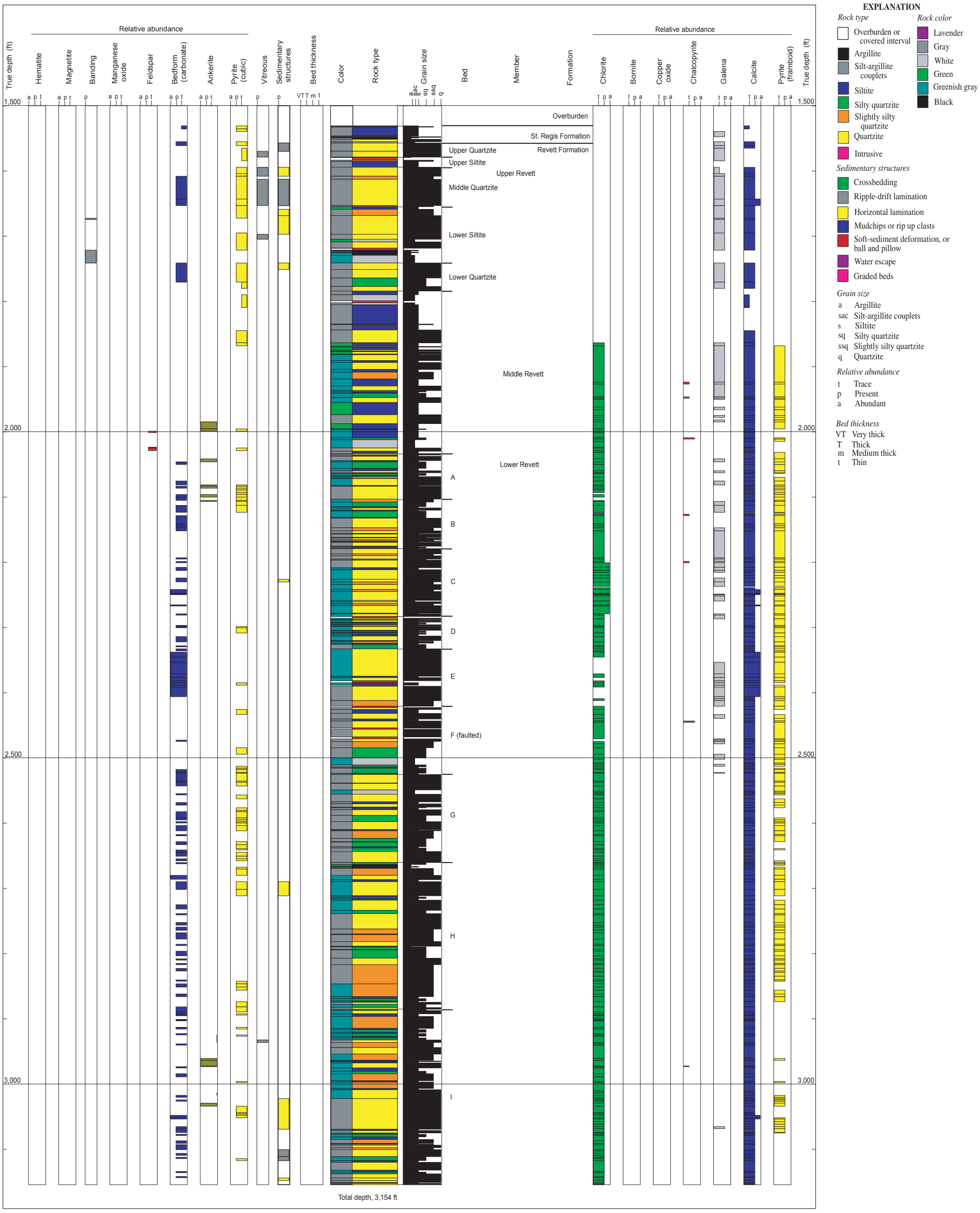


Figure A-7. DDH FC-4 (Fairway Creek) diamond-drill-hole section

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

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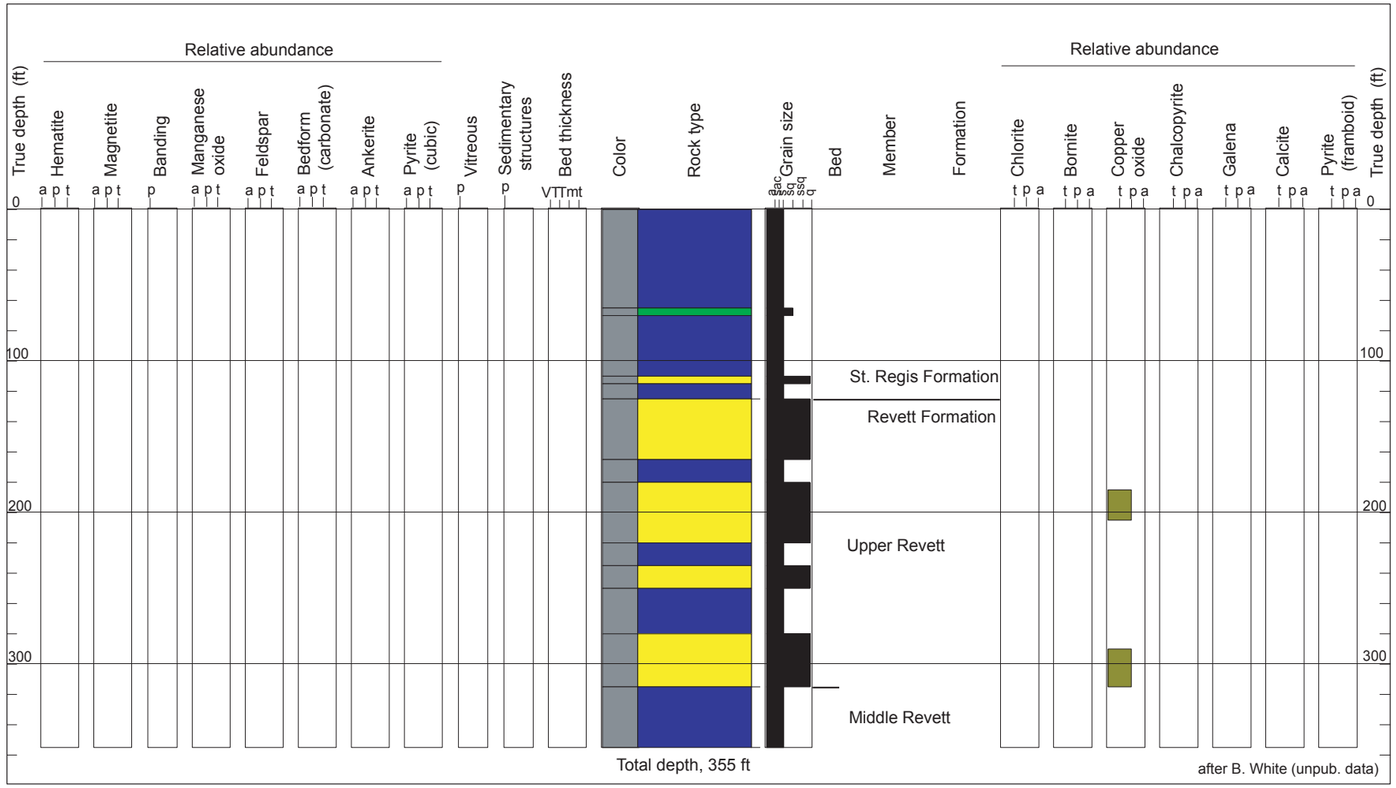
FIGURE A-8



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-8. Stanley Peak measured section

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

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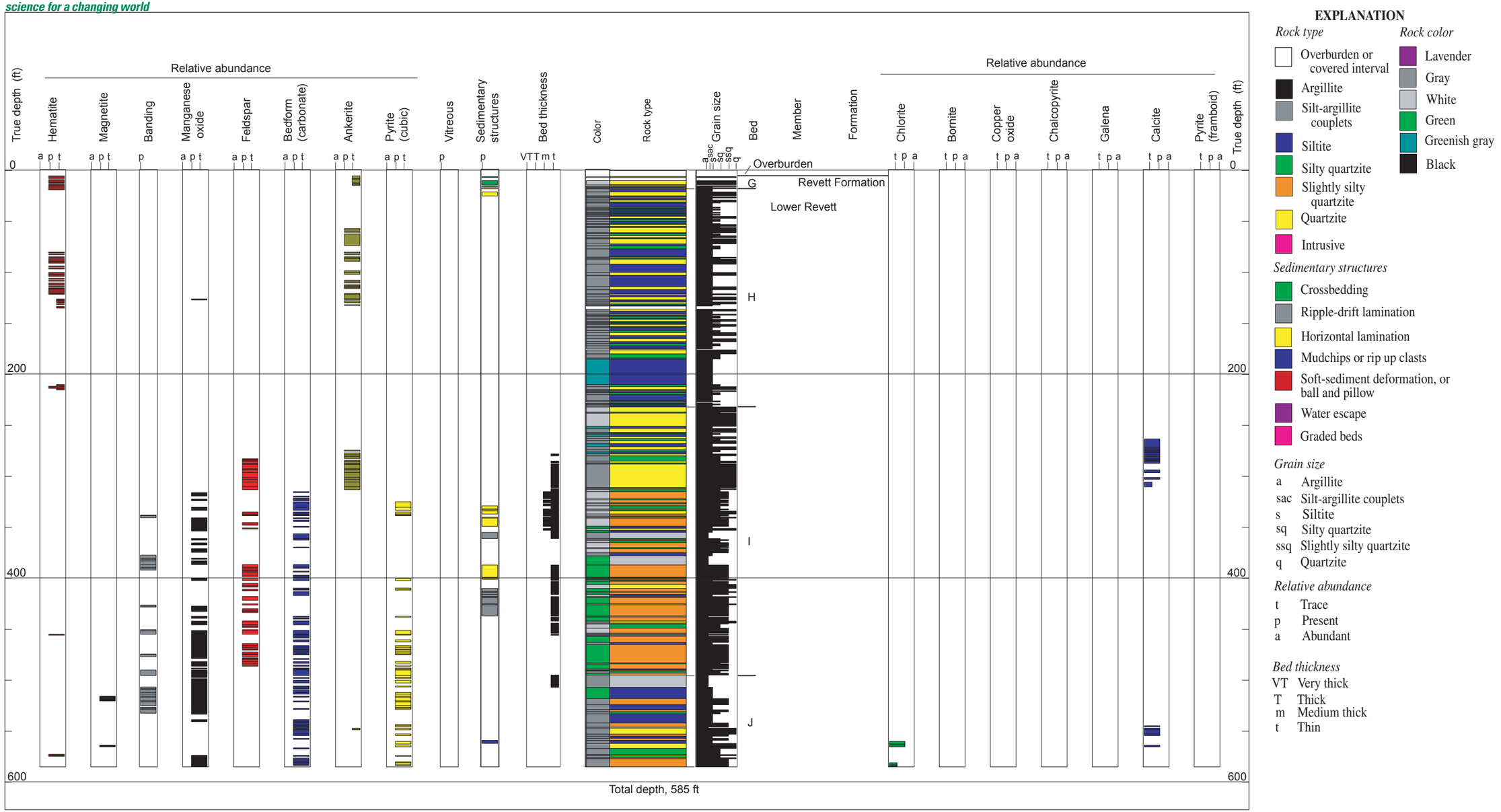
FIGURE A-9



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-9. DDH SL-130 (Spar Lake) diamond-drill-hole section

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

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FIGURE A-10

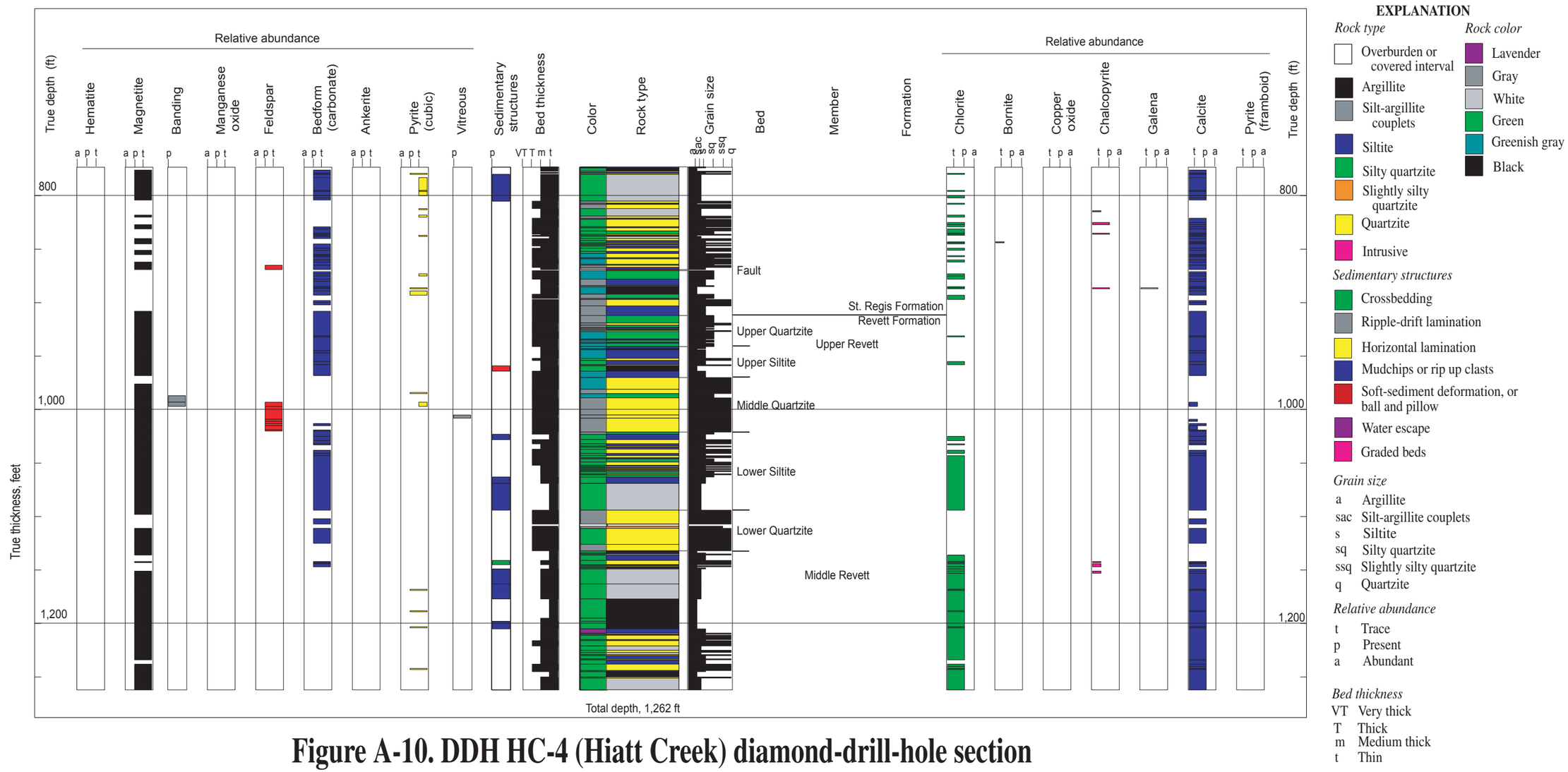

Figure A-10. DDH HC-4 (Hiatt Creek) diamond-drill-hole section

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

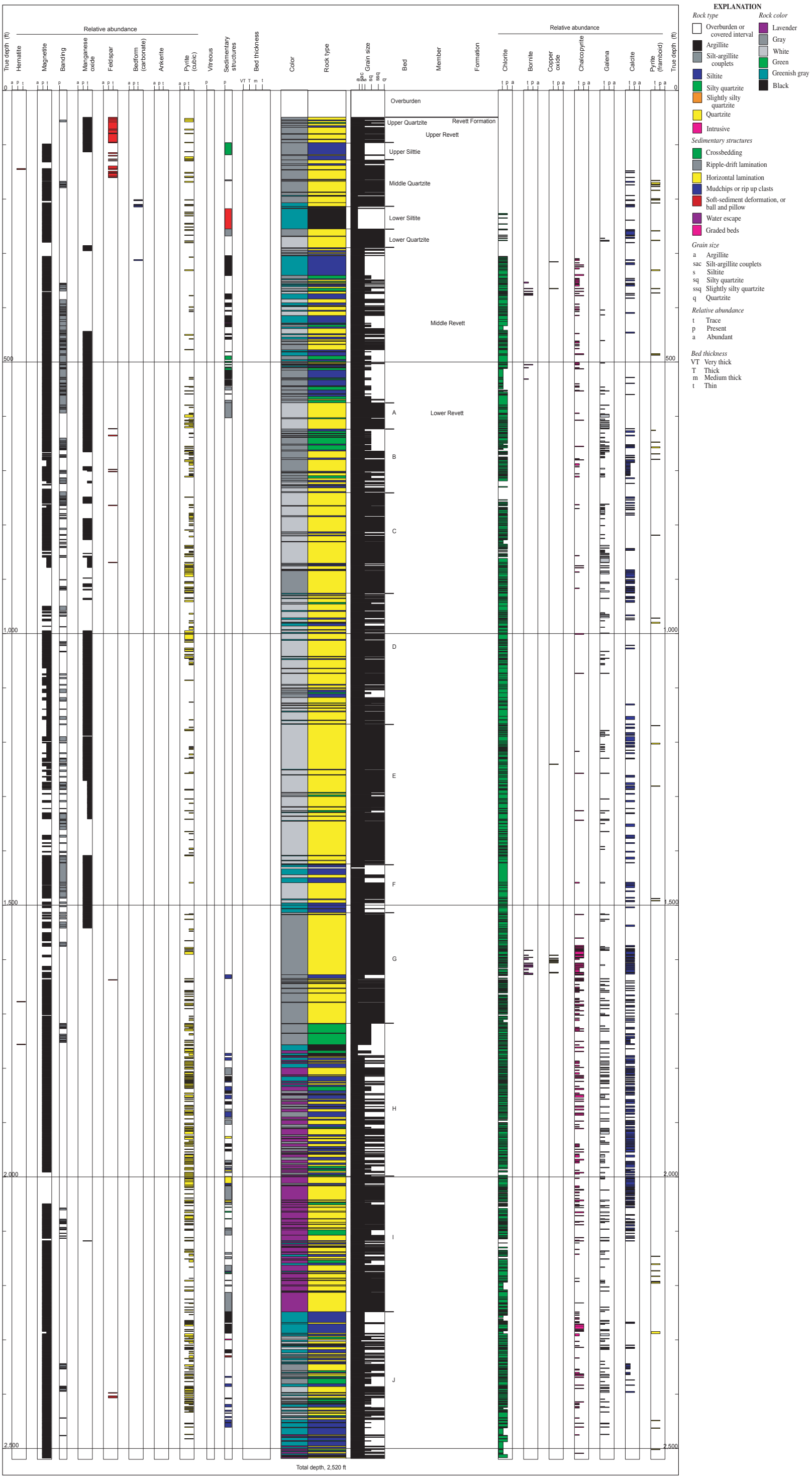

Figure A-11. DDH SL-136 (Spar Lake) diamond-drill-hole section

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

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SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-12

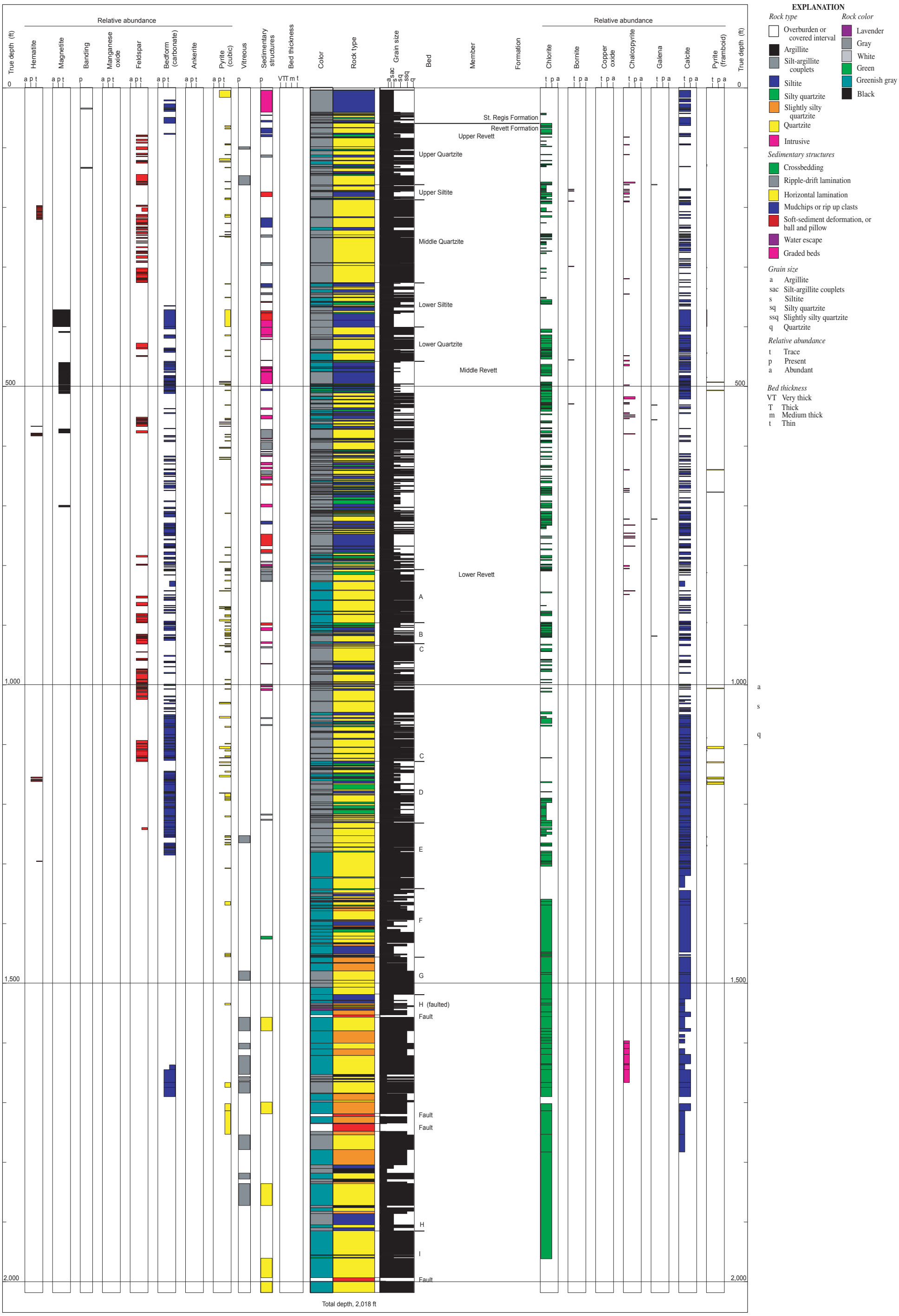
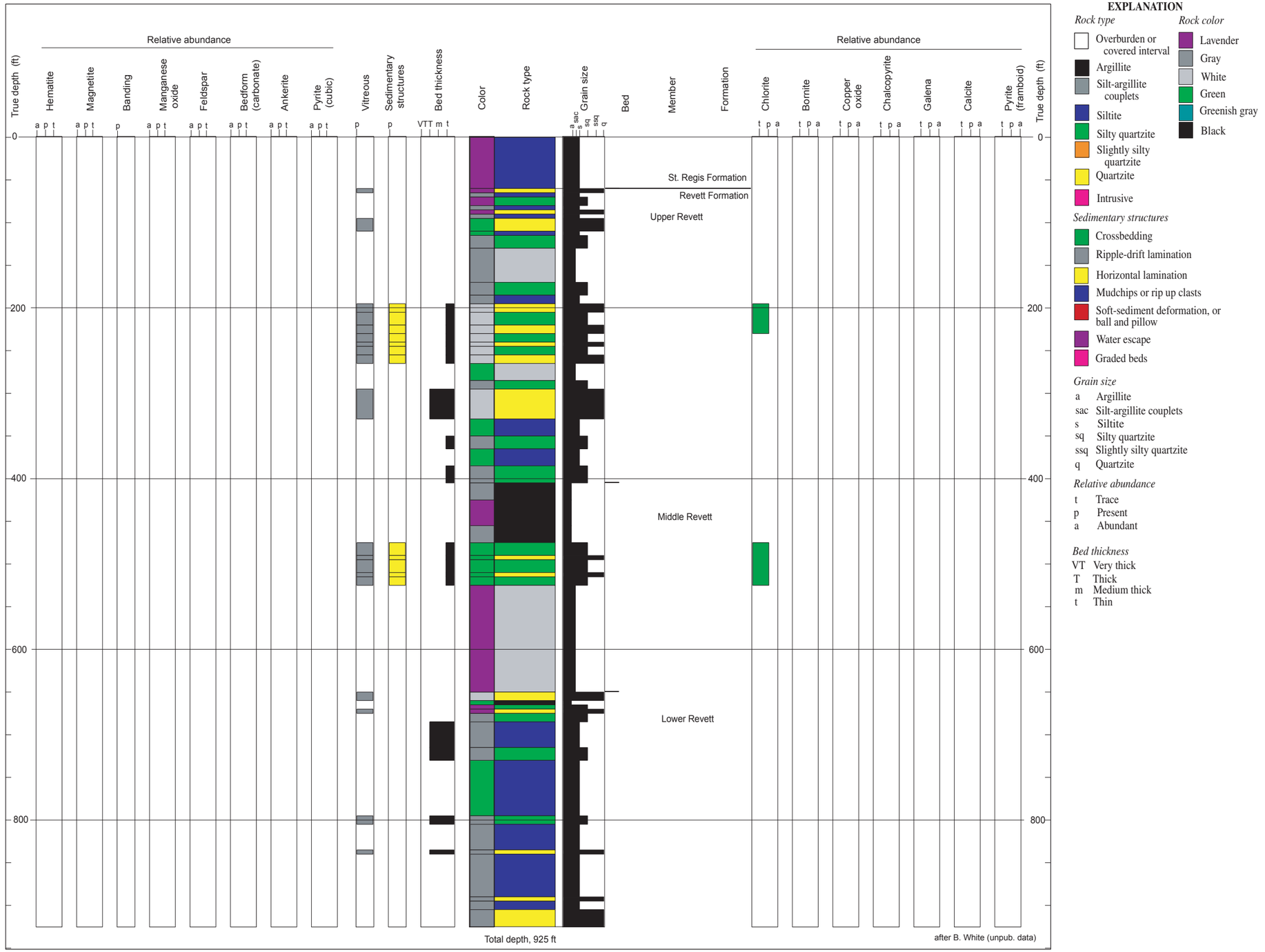


Figure A-12. DDH CC-1 (Cub Creek) diamond-drill-hole section

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

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-13. Clark Fork measured section

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

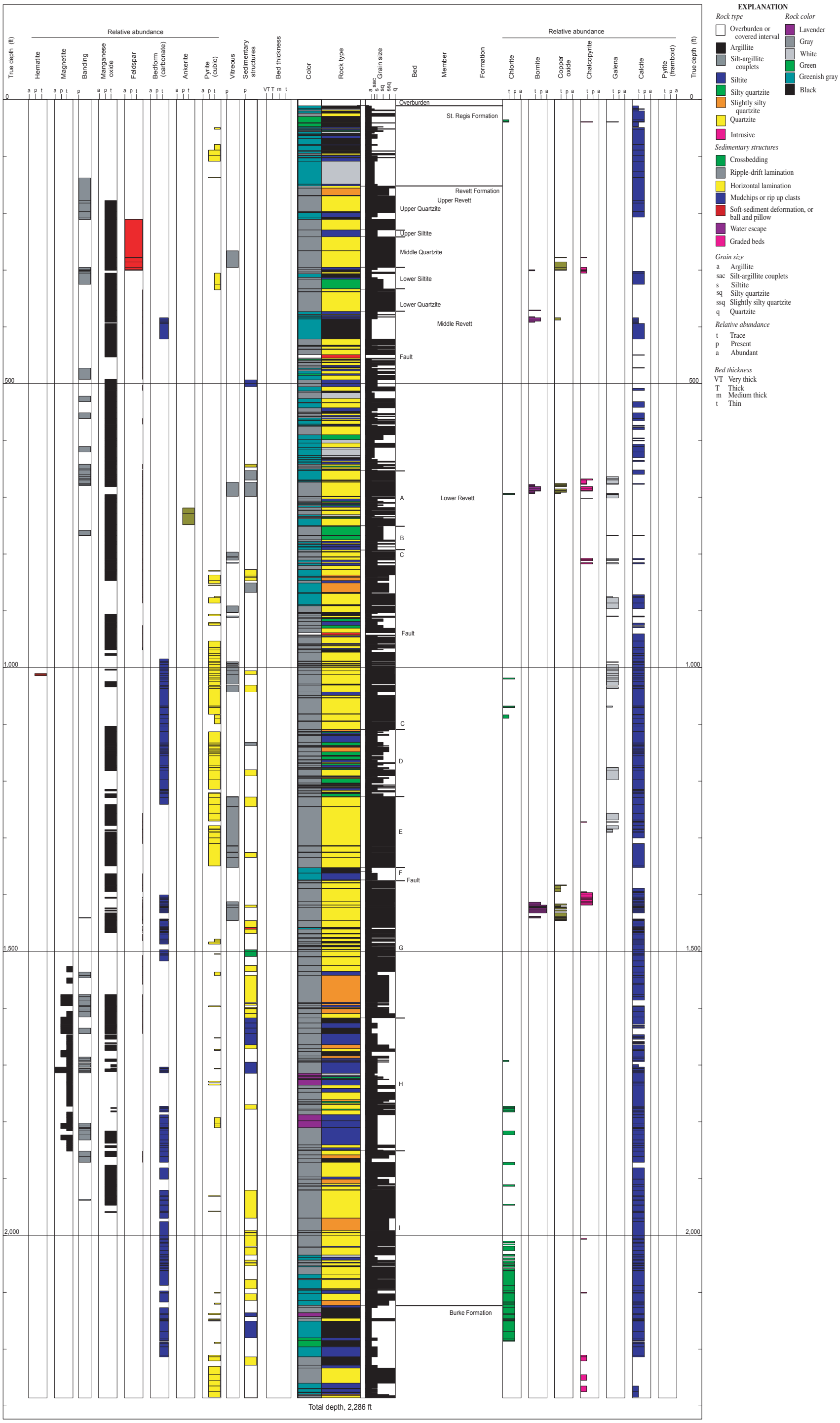


Figure A-14. DDH SL-122 (Spar Lake) diamond-drill-hole section

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

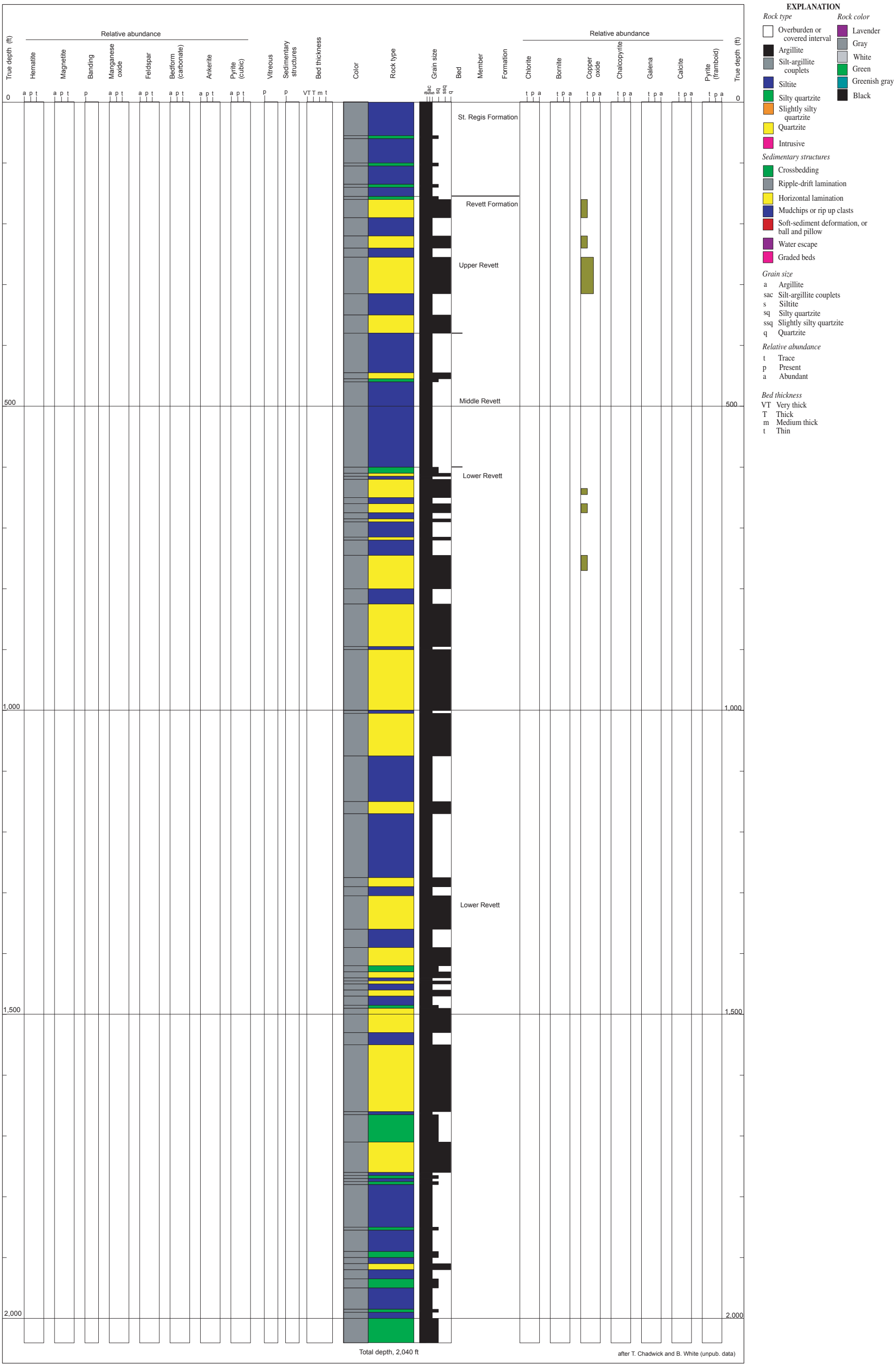


Figure A-15. Mount Vernon measured section

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

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FIGURE A-16

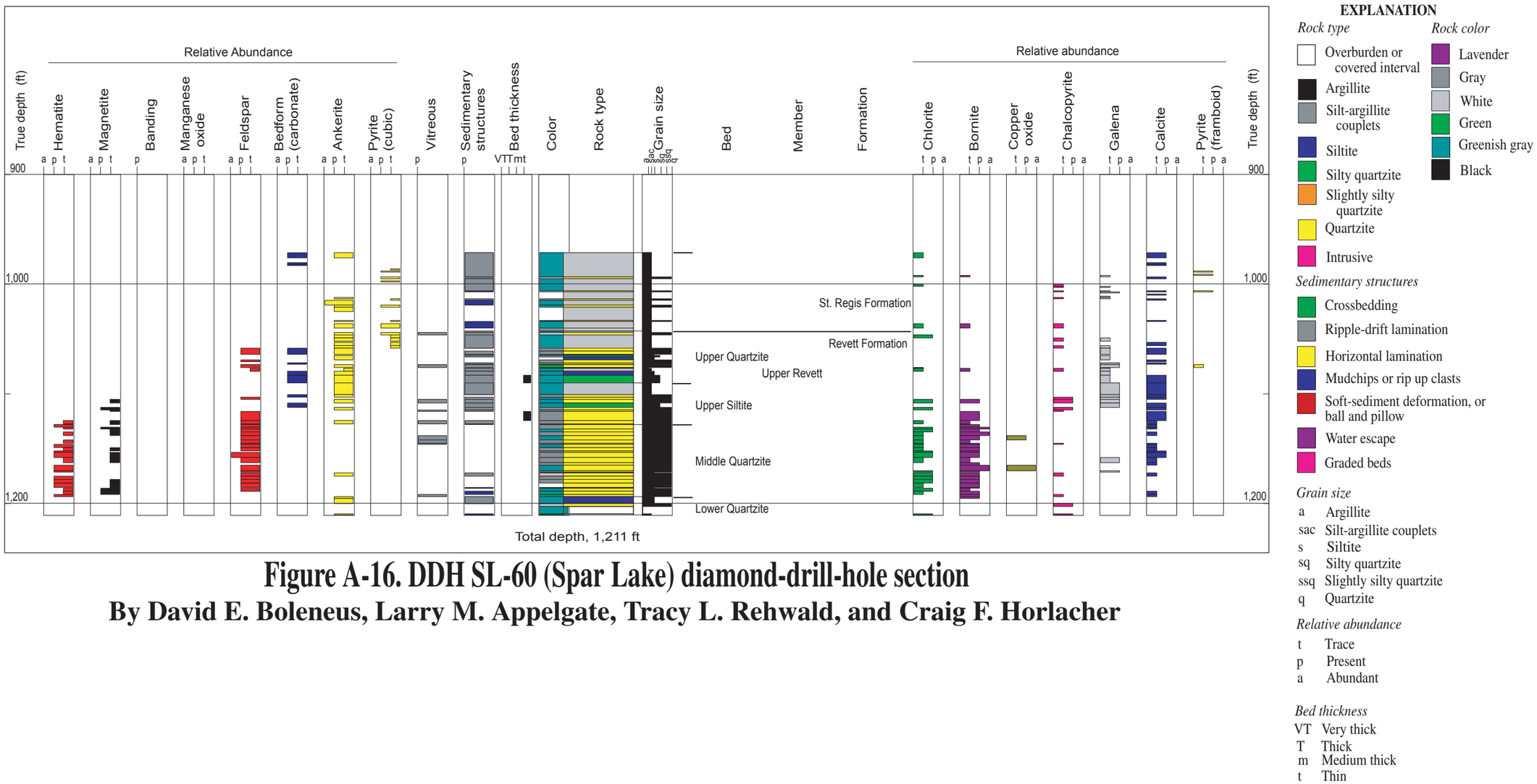

Figure A-16. DDH SL-60 (Spar Lake) diamond-drill-hole section

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

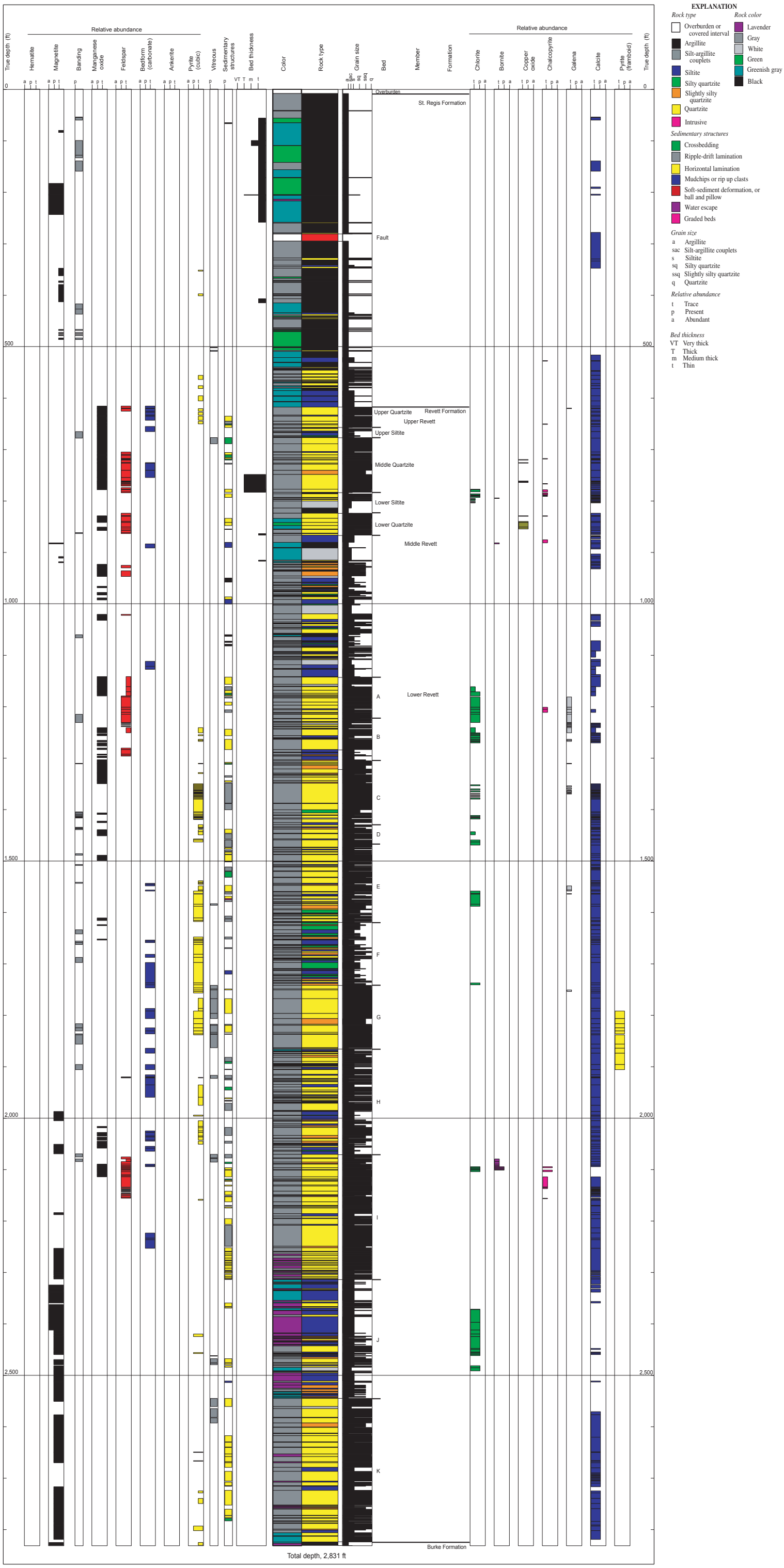

Figure A-17. DDH SL-123 (Spar Lake) diamond-drill-hole section

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

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FIGURE A-18

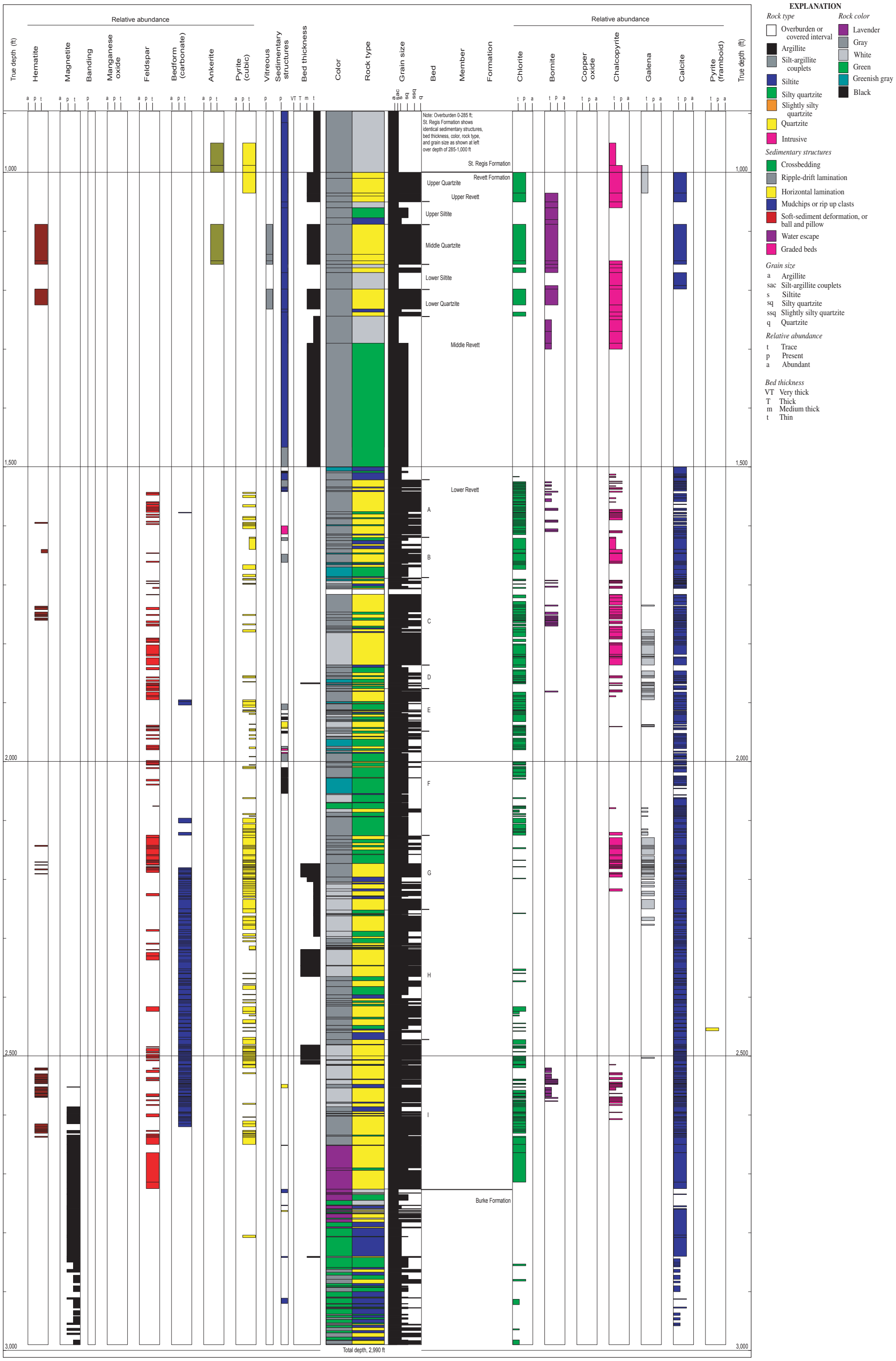

Figure A-18. DDH SL-93 (Spar Lake) diamond-drill-hole section

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

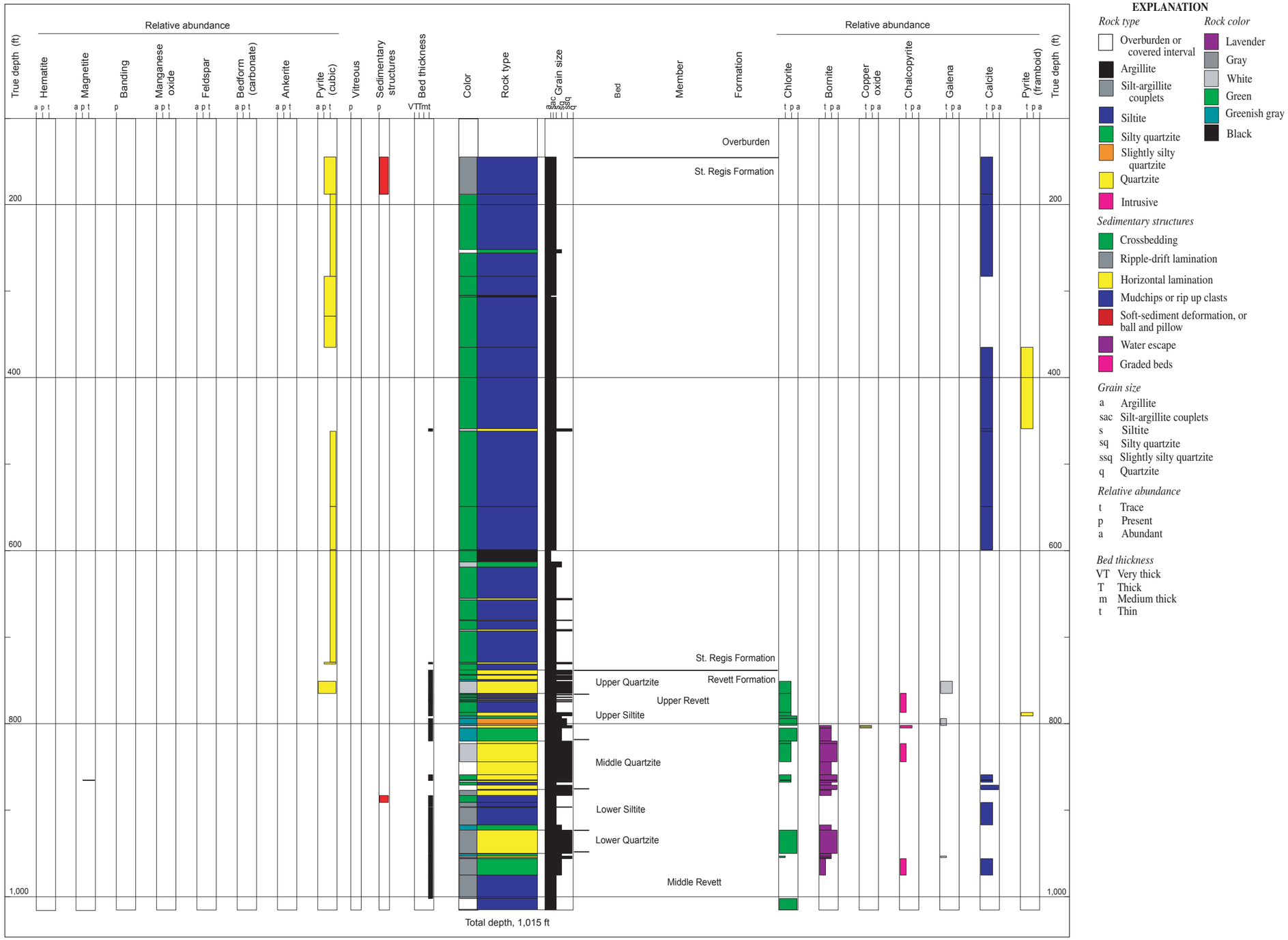

Figure A-19. DDH SL-106 (Spar Lake) diamond-drill-hole section

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

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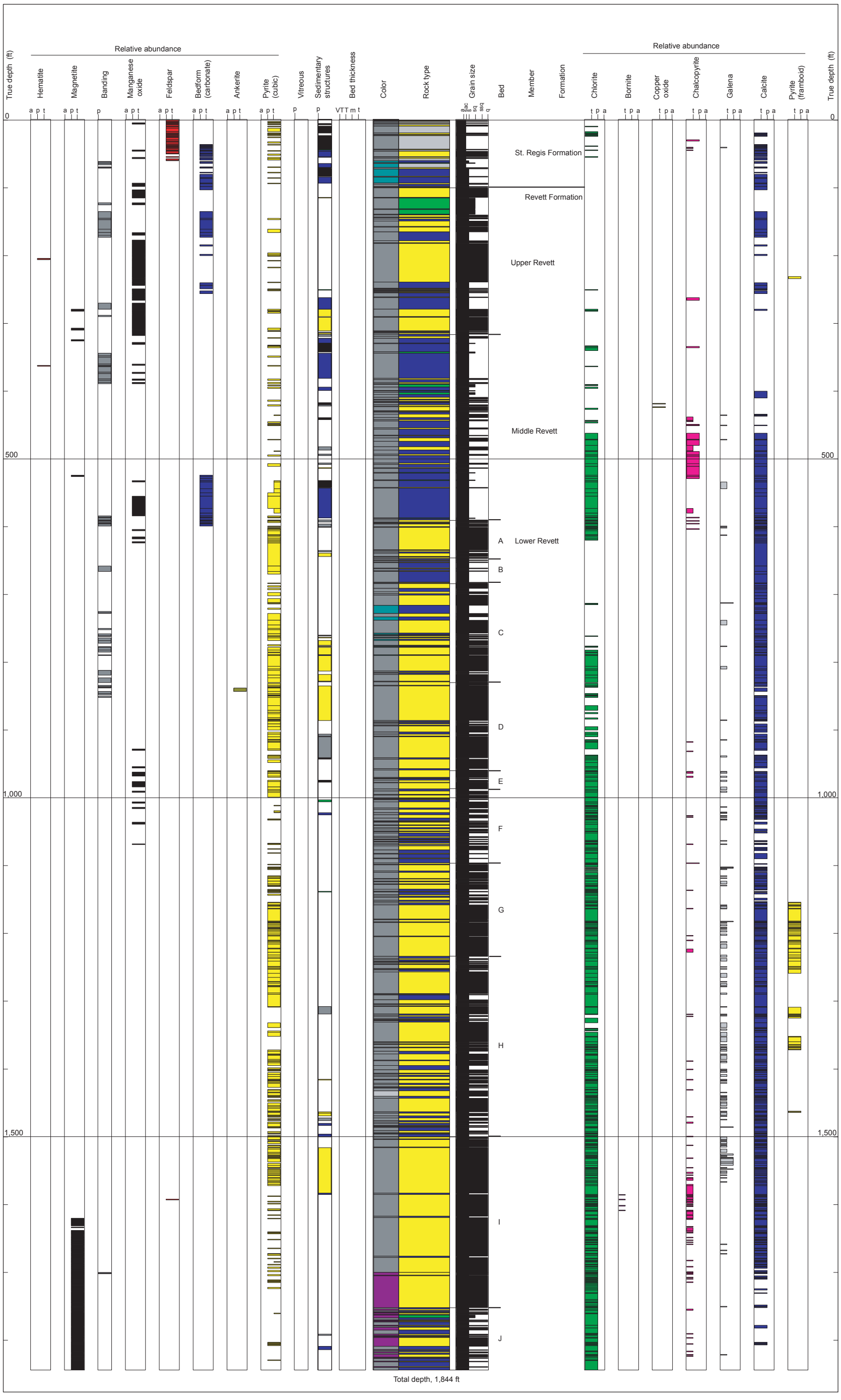
FIGURE A-20



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-20. DDH SL-138 (Spar Lake) diamond-drill-hole section

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

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FIGURE A-21

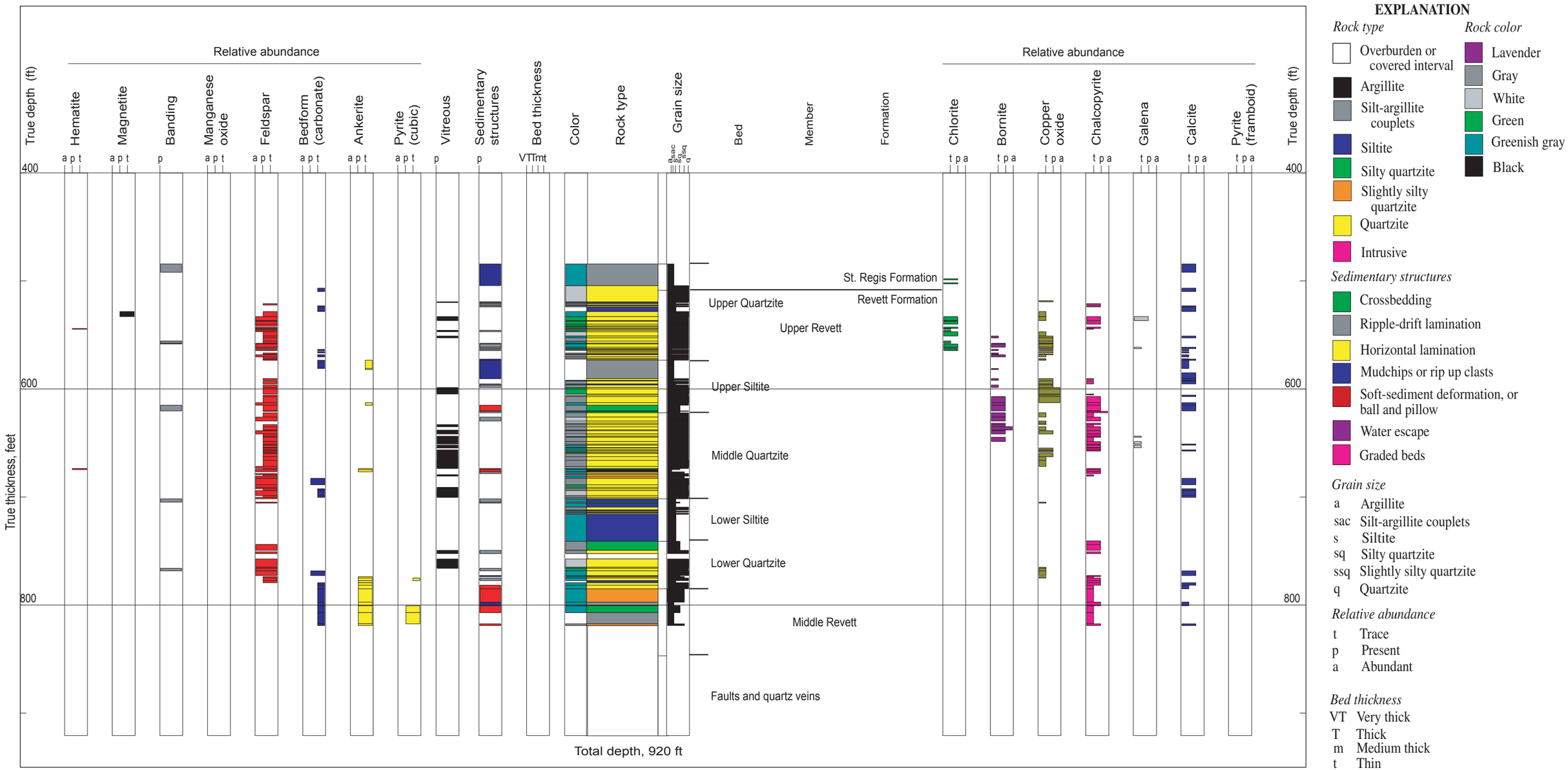
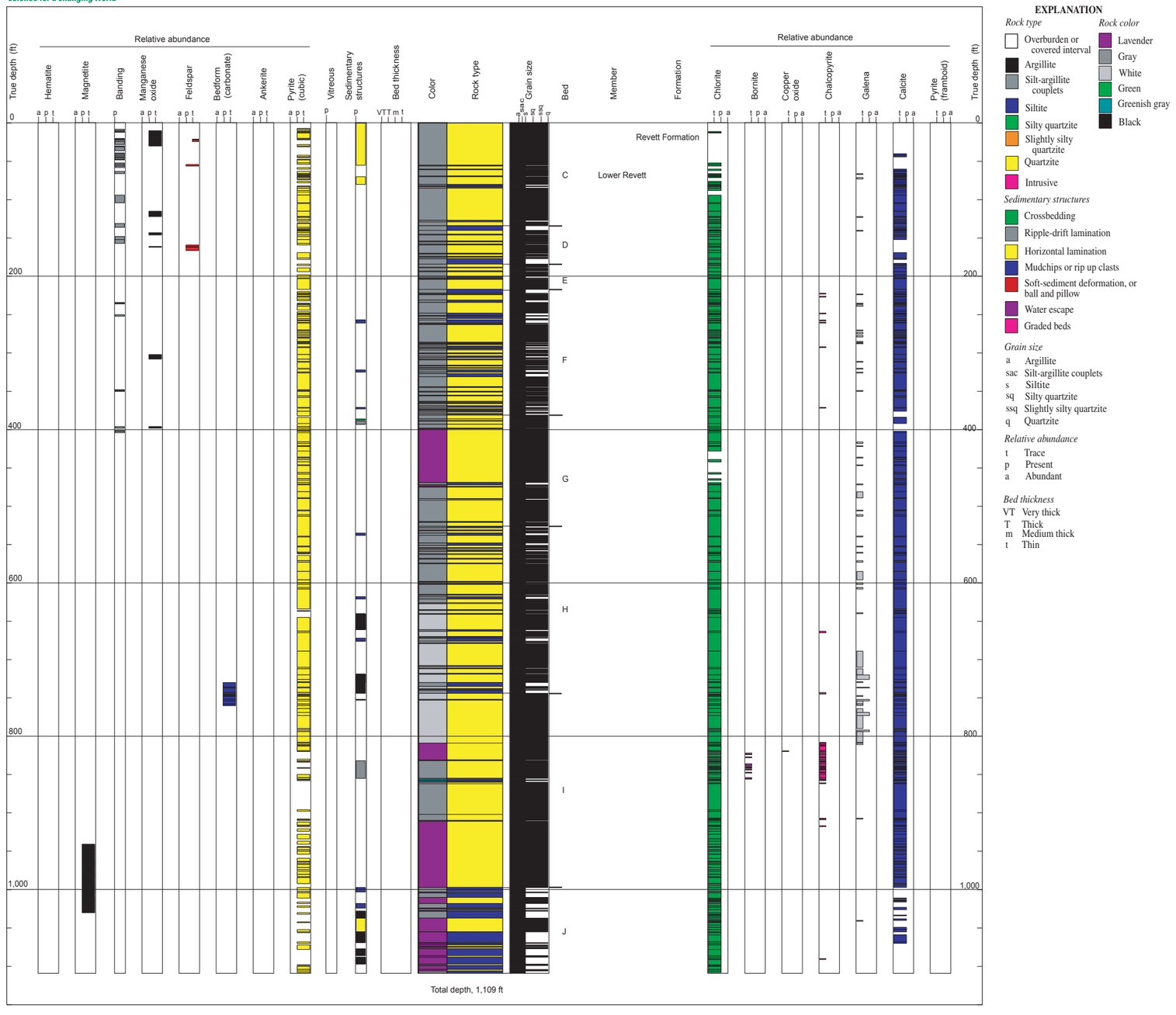


Figure A-21. DDH SL-31 (Spar Lake) diamond-drill-hole section

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

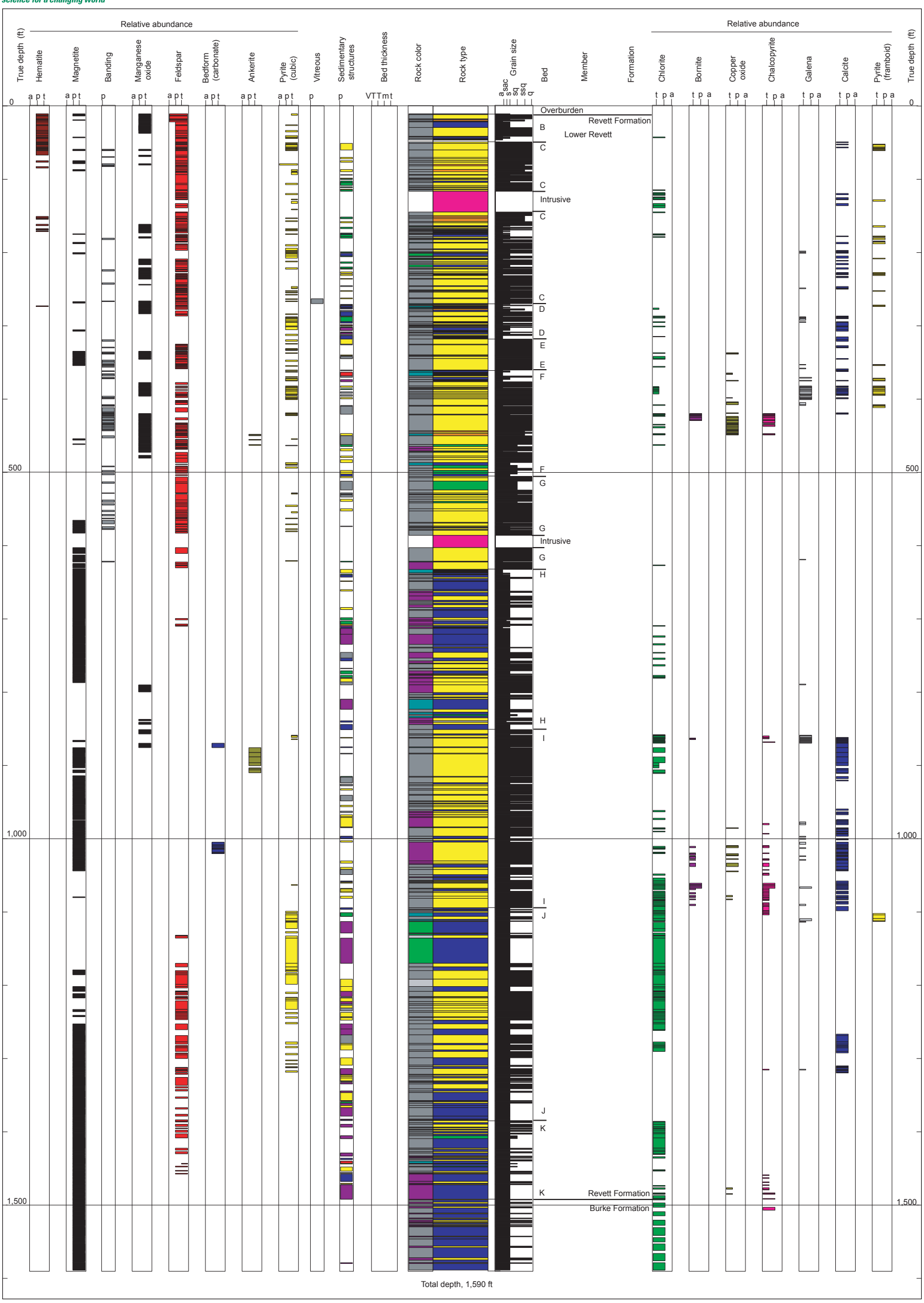
- t Trace
- p Present
- a Abundant

Bed thickness

- VT Very thick
- T Thick
- m Medium thick
- t Thin

Figure A-22. DDH SL-139 (Spar Lake) diamond-drill-hole 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

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

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

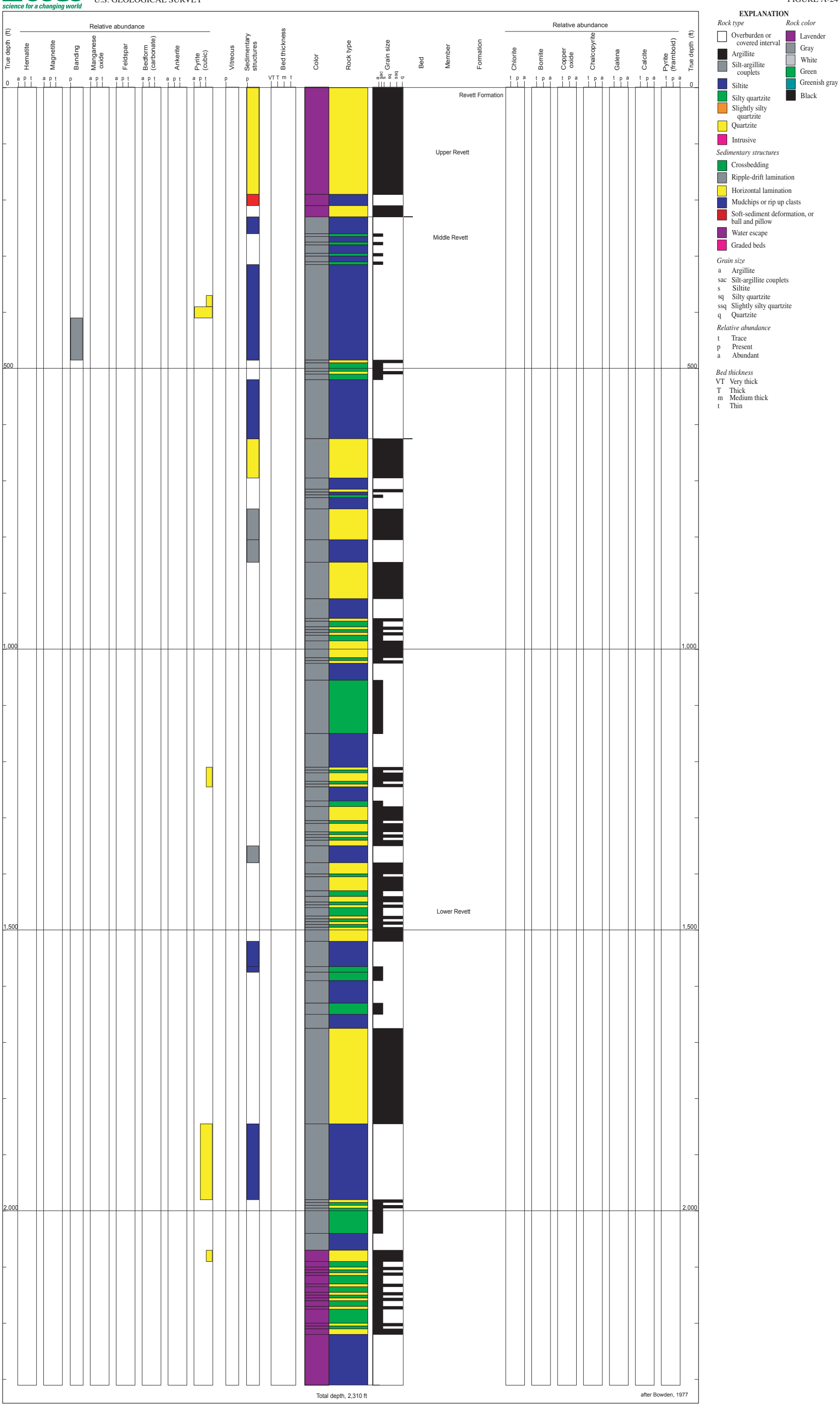


Figure A-24. Little Spar Lake measured section

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

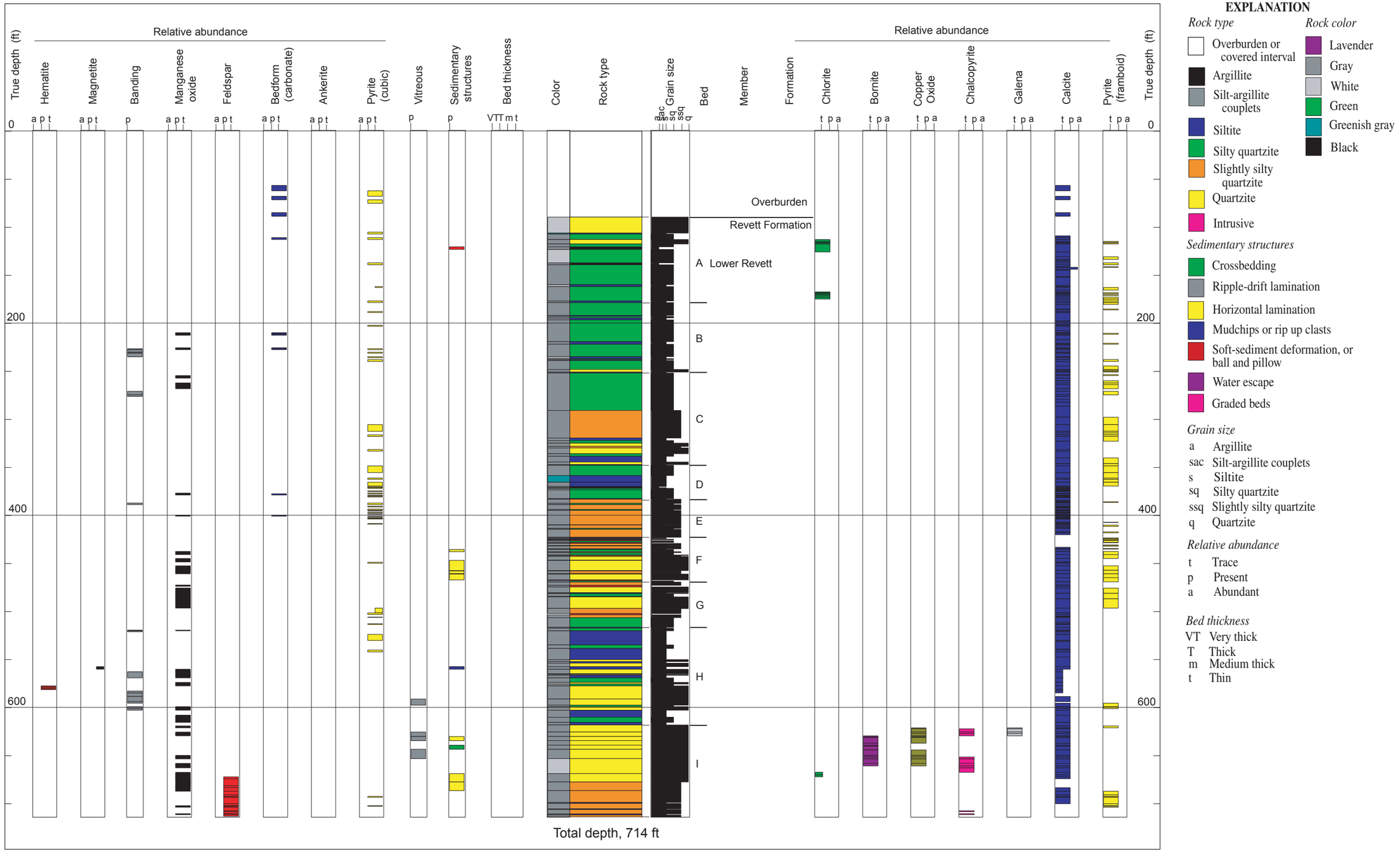


Figure A-25. DDH JF-79-1 (J-F) diamond-drill-hole section

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

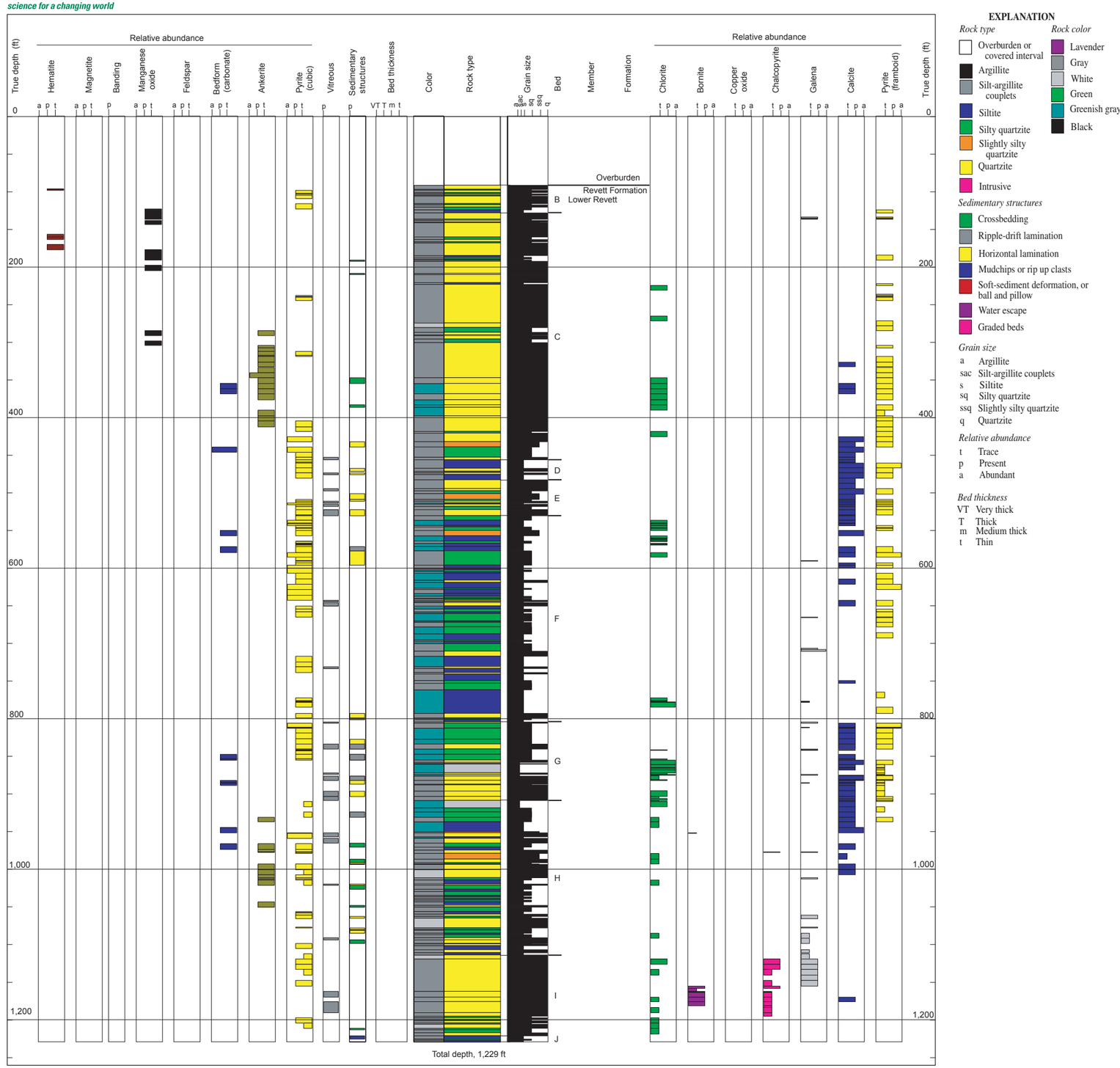


Figure A-26. DDH JF-79-4 (J-F) diamond-drill-hole section

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

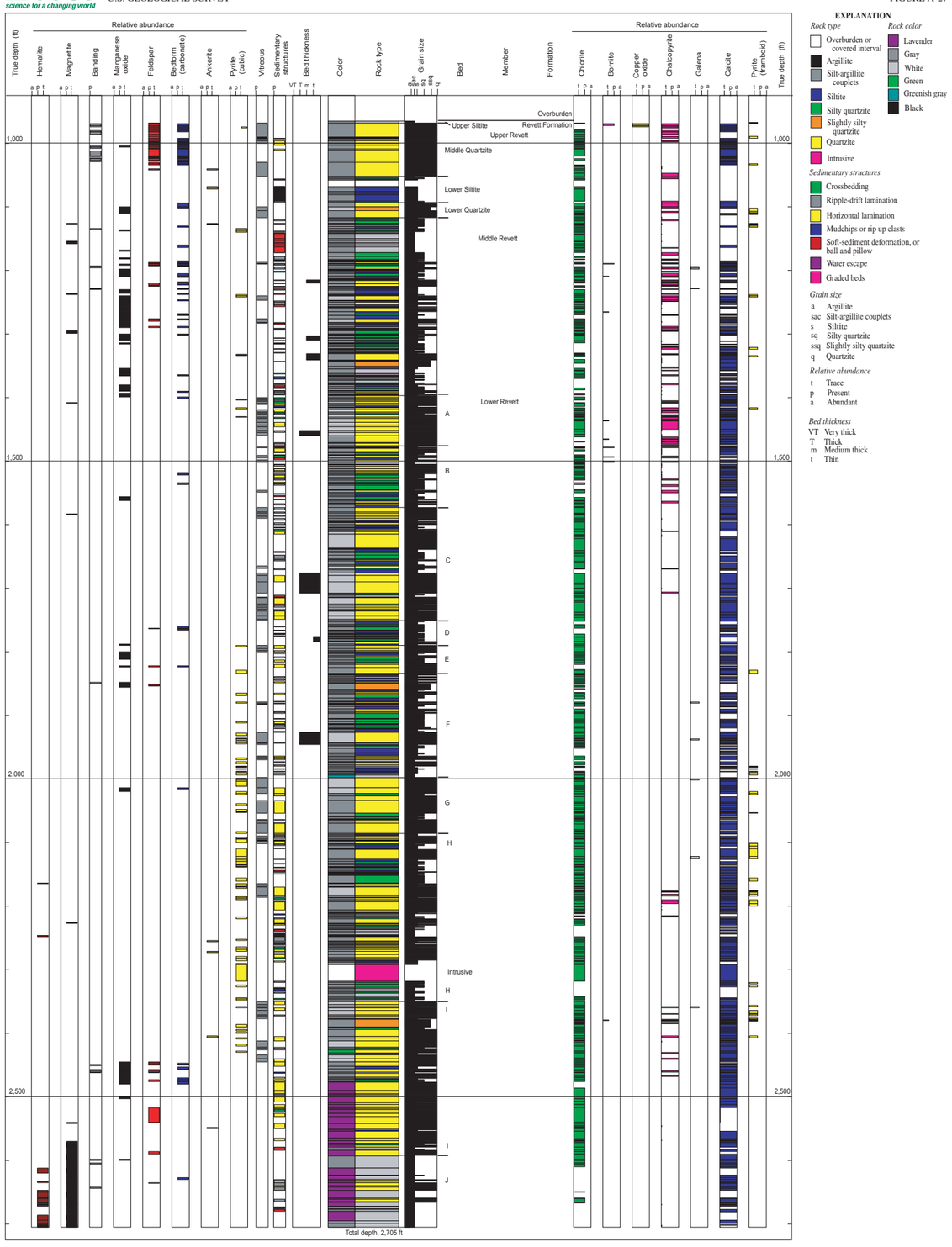
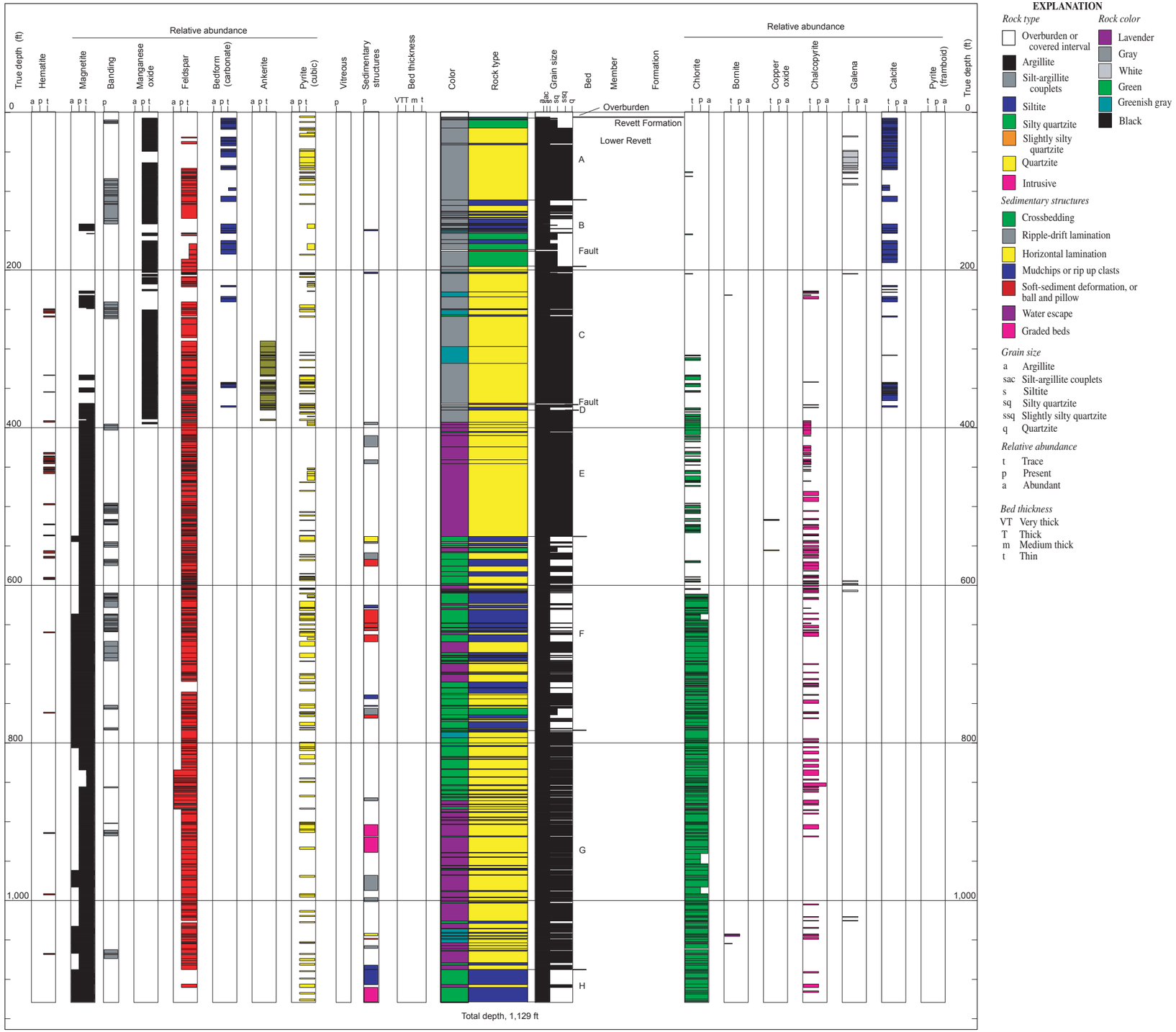


Figure A-27. DDH JFW-1 (J-F West) diamond-drill-hole section

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



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-28. DDH JF-12 (J-F) diamond-drill-hole section

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

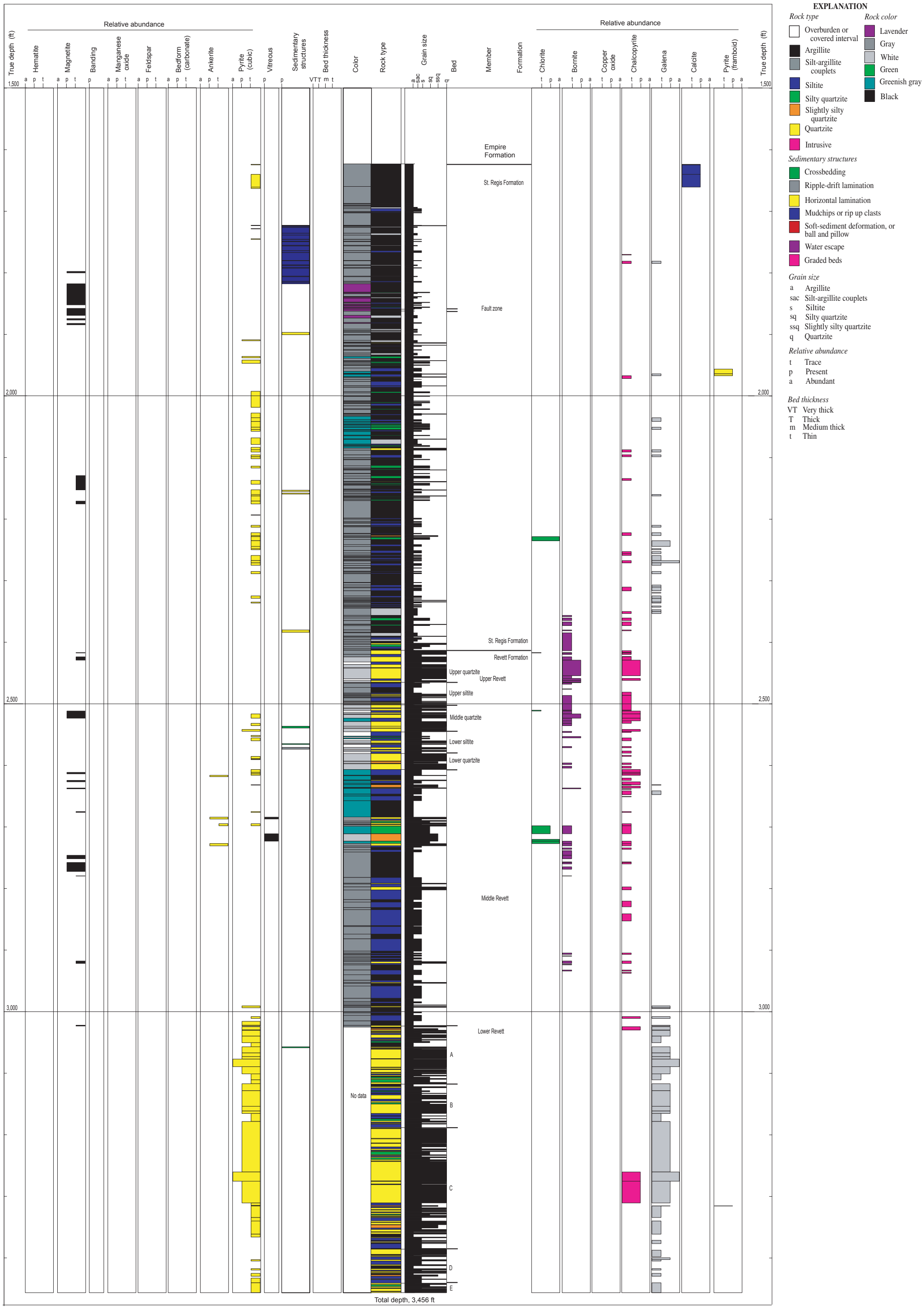


Figure A-29. DDH DC-3 (Dry Creek) diamond-drill-hole section

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

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U.S. GEOLOGICAL SURVEY

SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-30

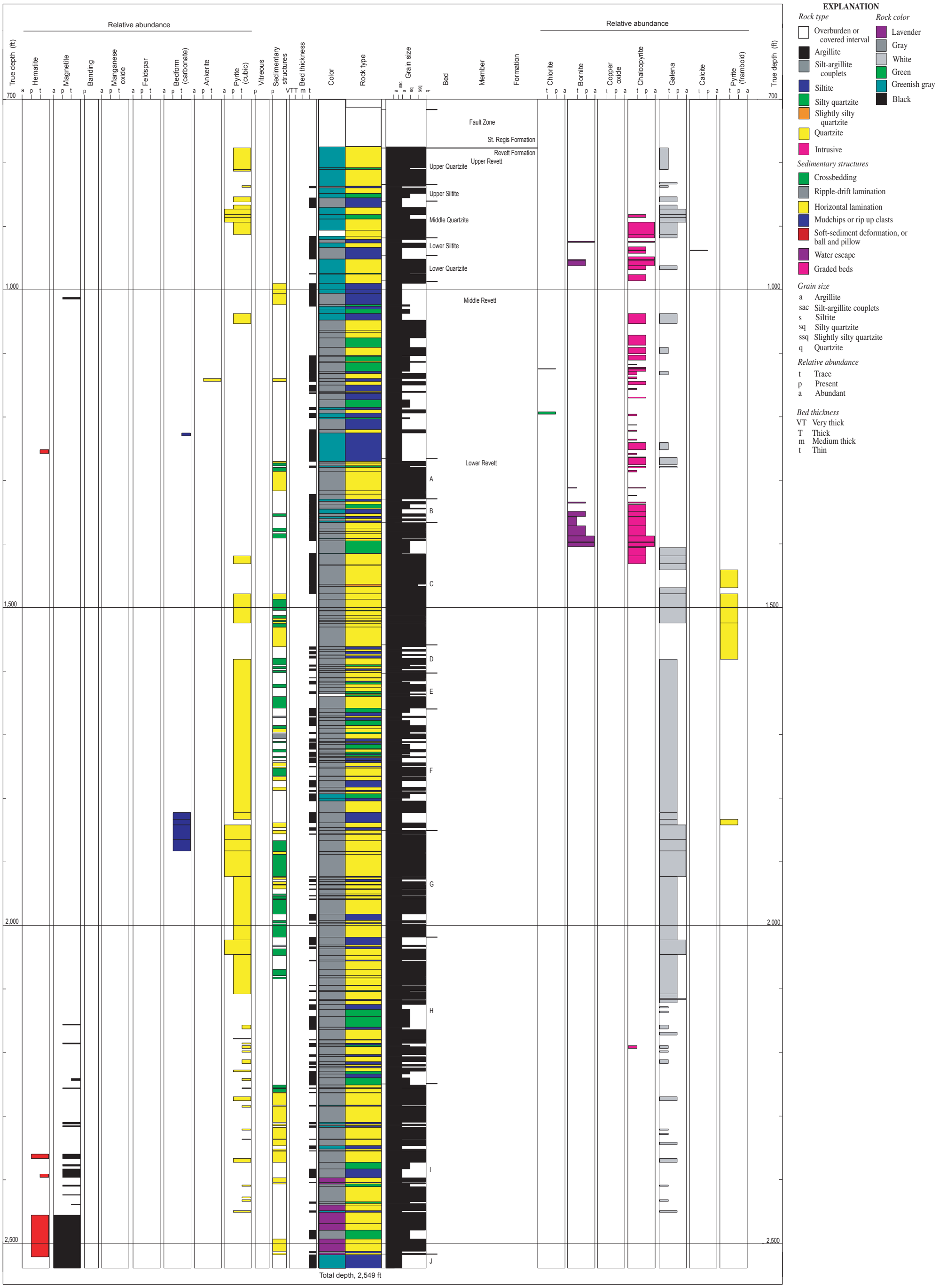


Figure A-30. DDH DC-2 (Dry Creek) diamond-drill-hole section

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

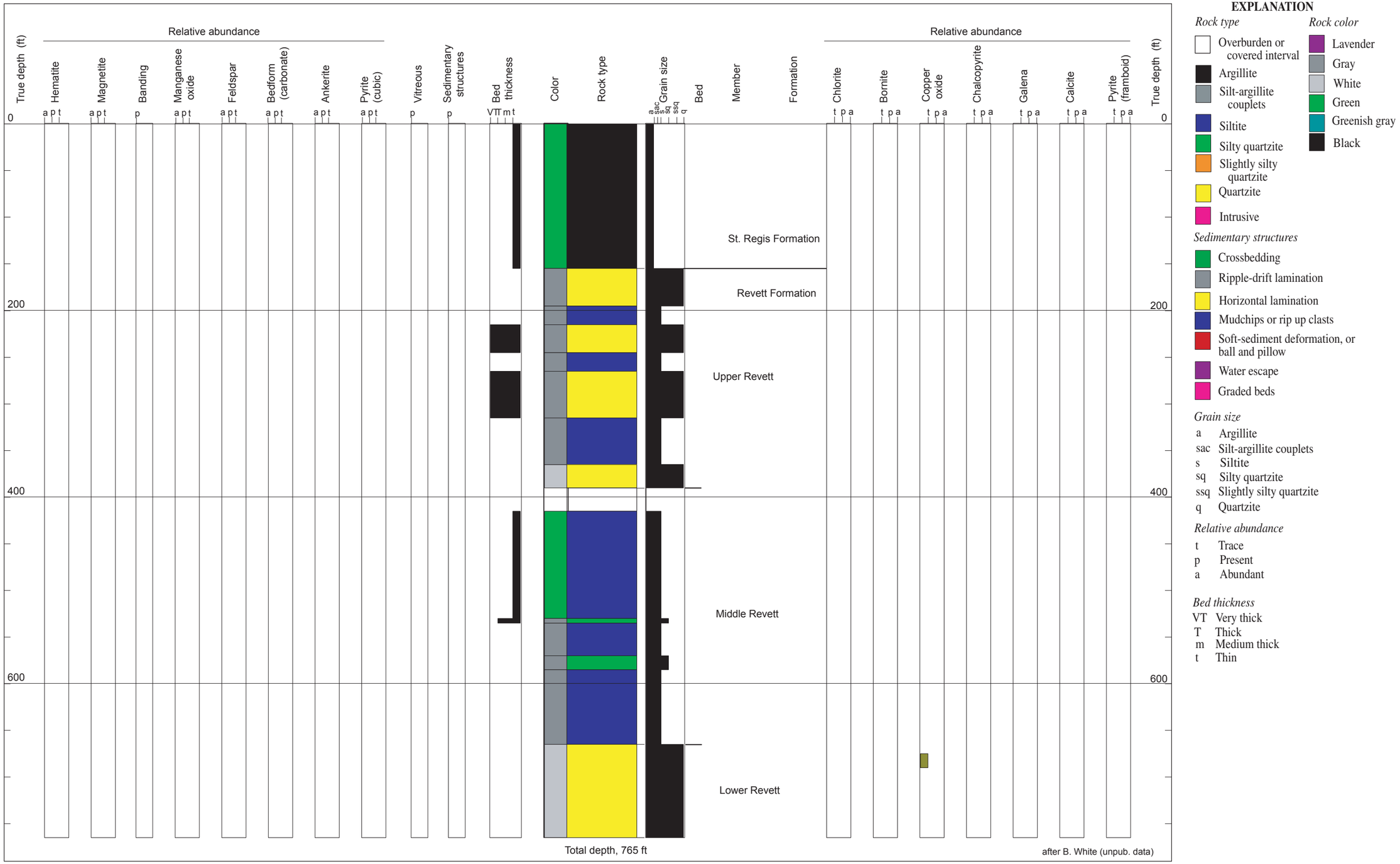
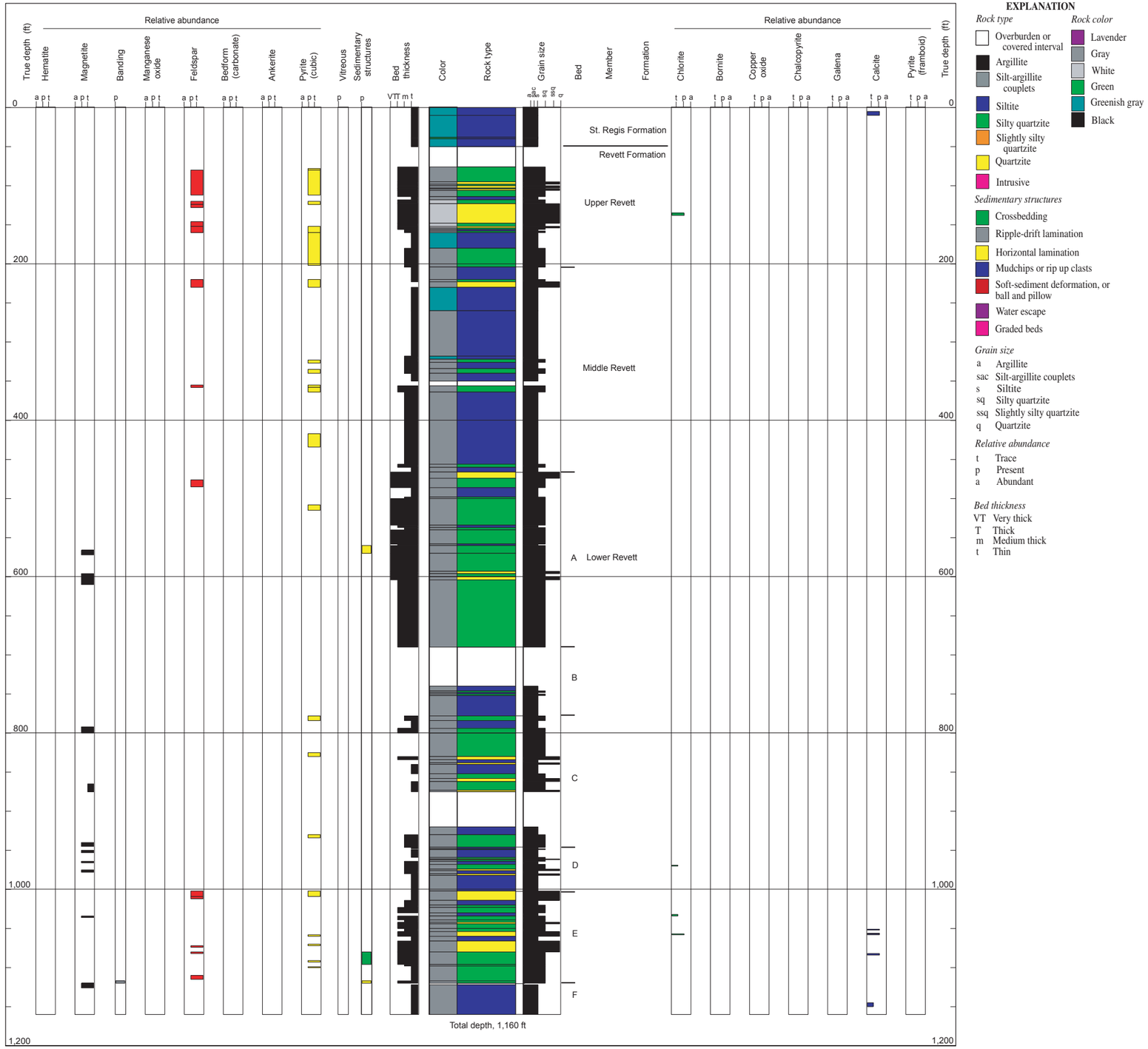


Figure A-31. Squaw Peak measured section

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

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-32. Goat Rocks measured section

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

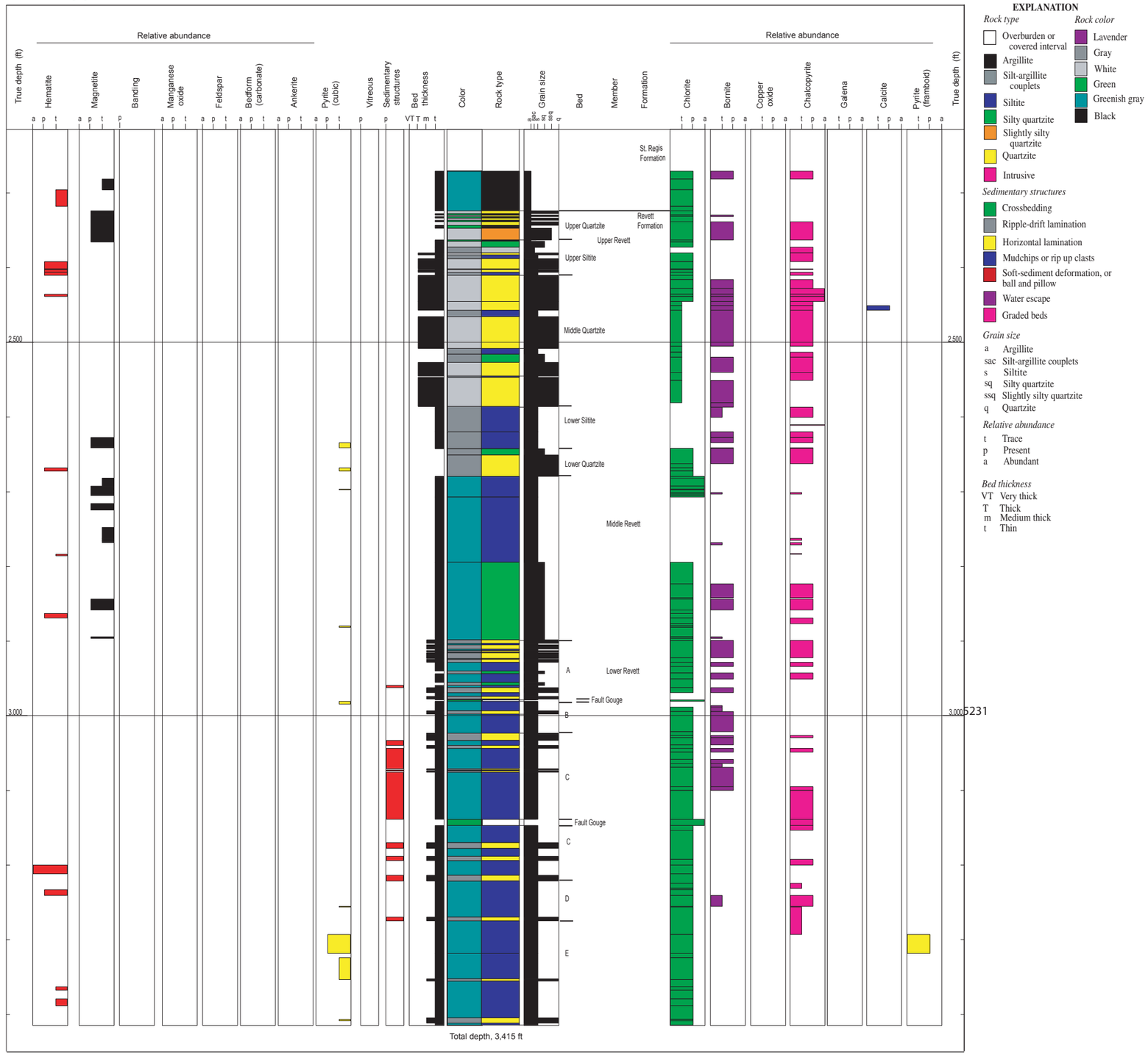


Figure A-33. DDH SN-2 (Snake Creek) diamond-drill-hole section

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

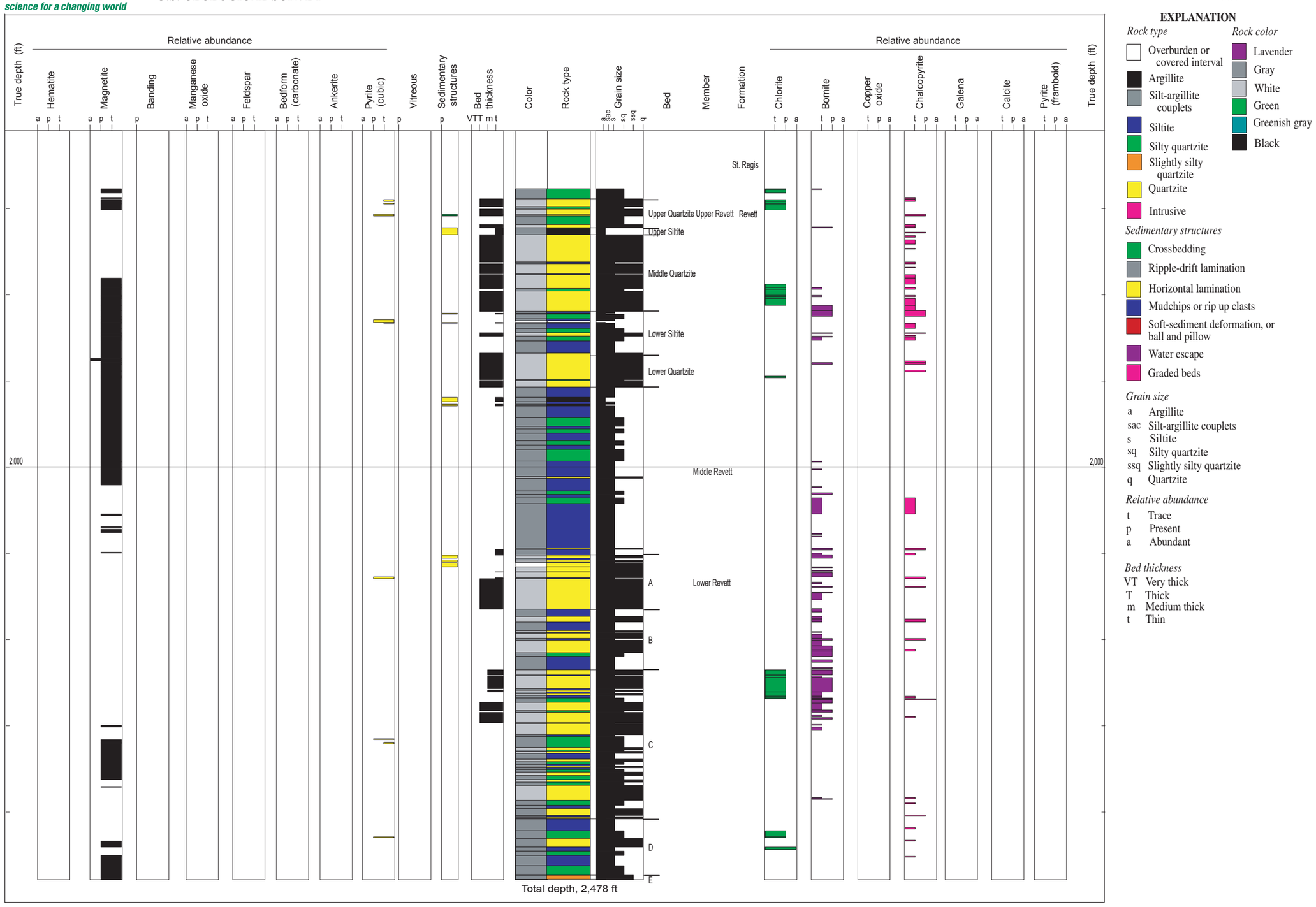
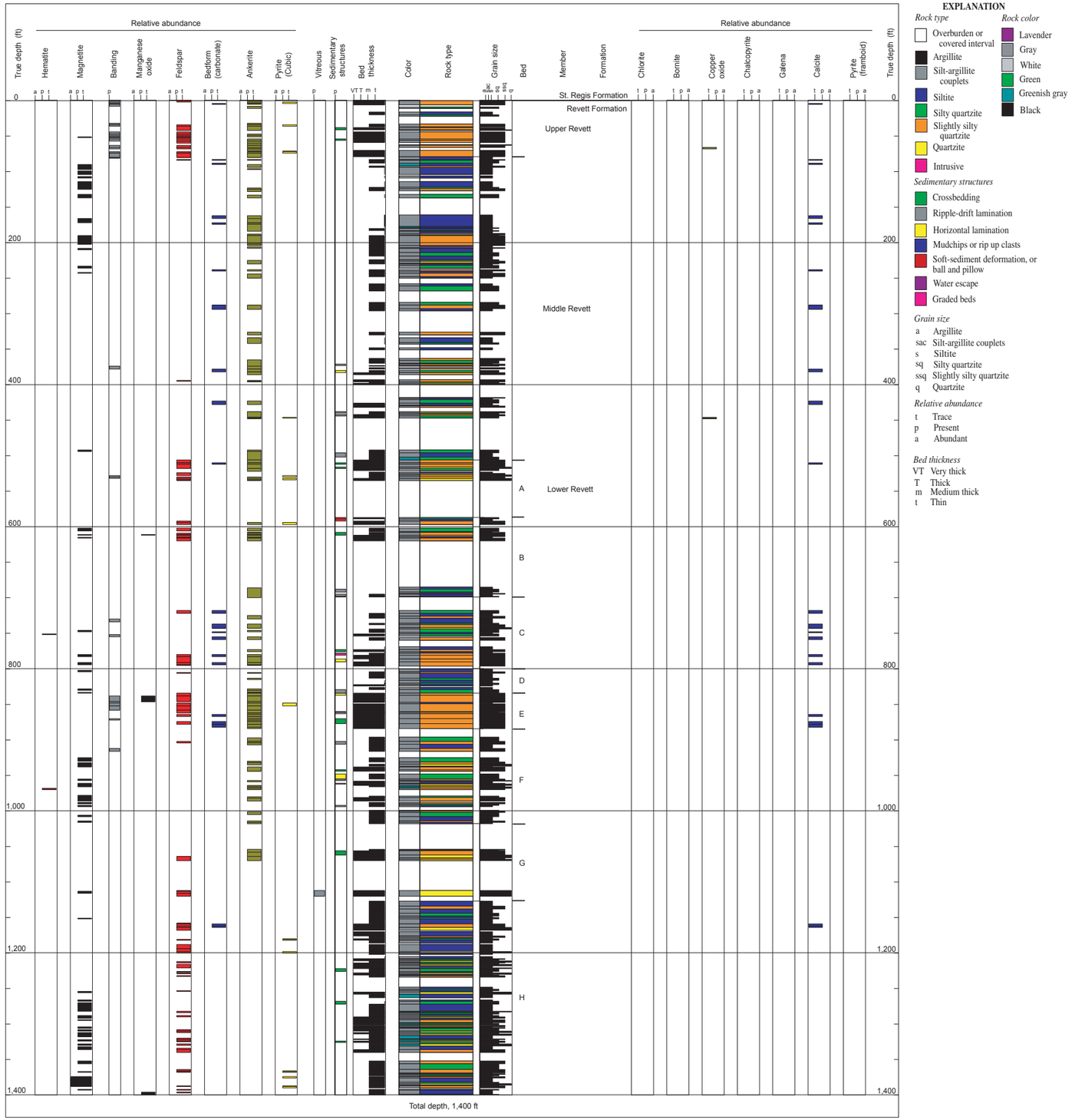


Figure A-34. DDH SN-5 (Snake Creek) diamond-drill-hole section

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



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-35. East Fork of Bull River 1, 2, 3 measured section

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

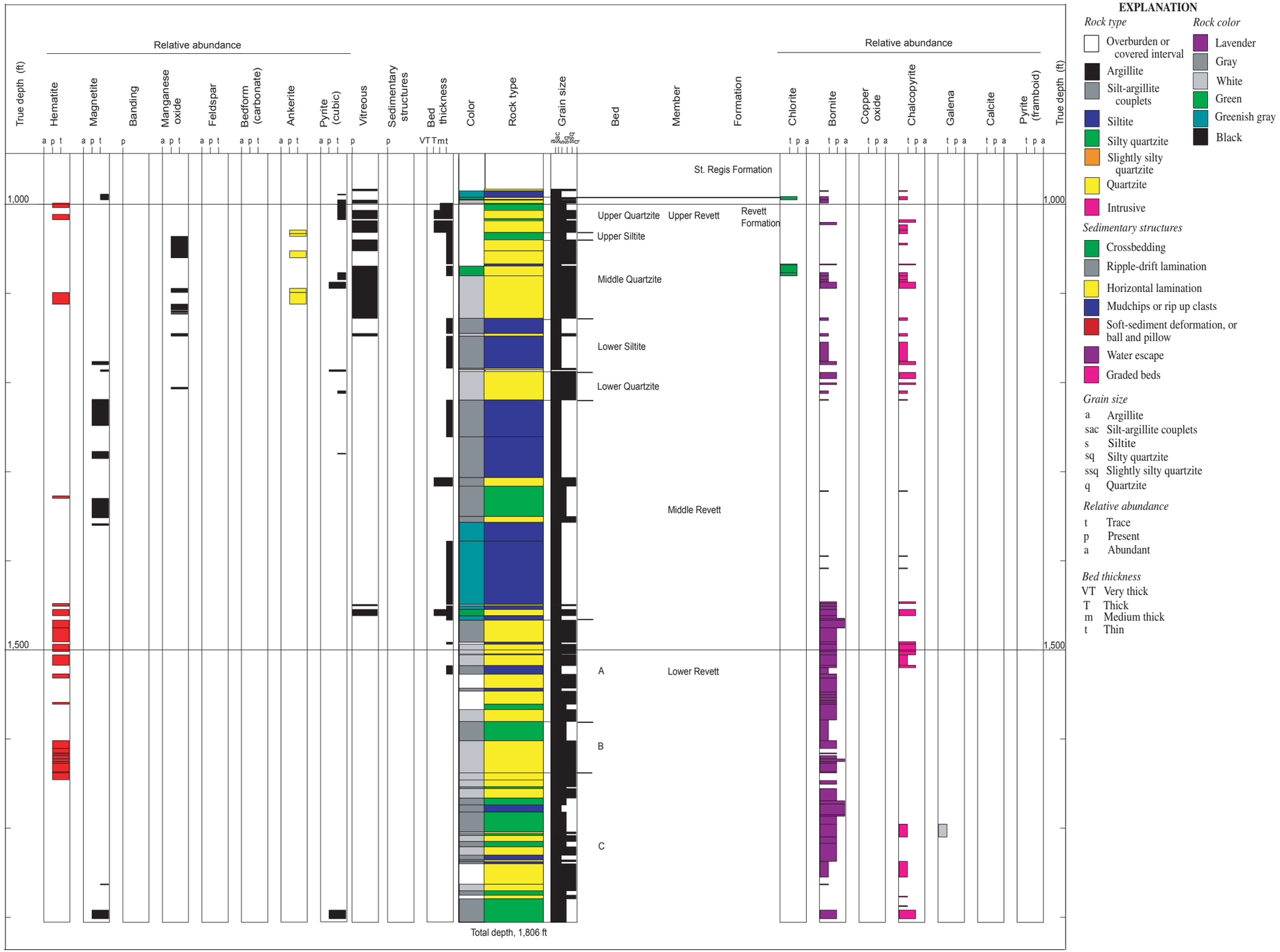
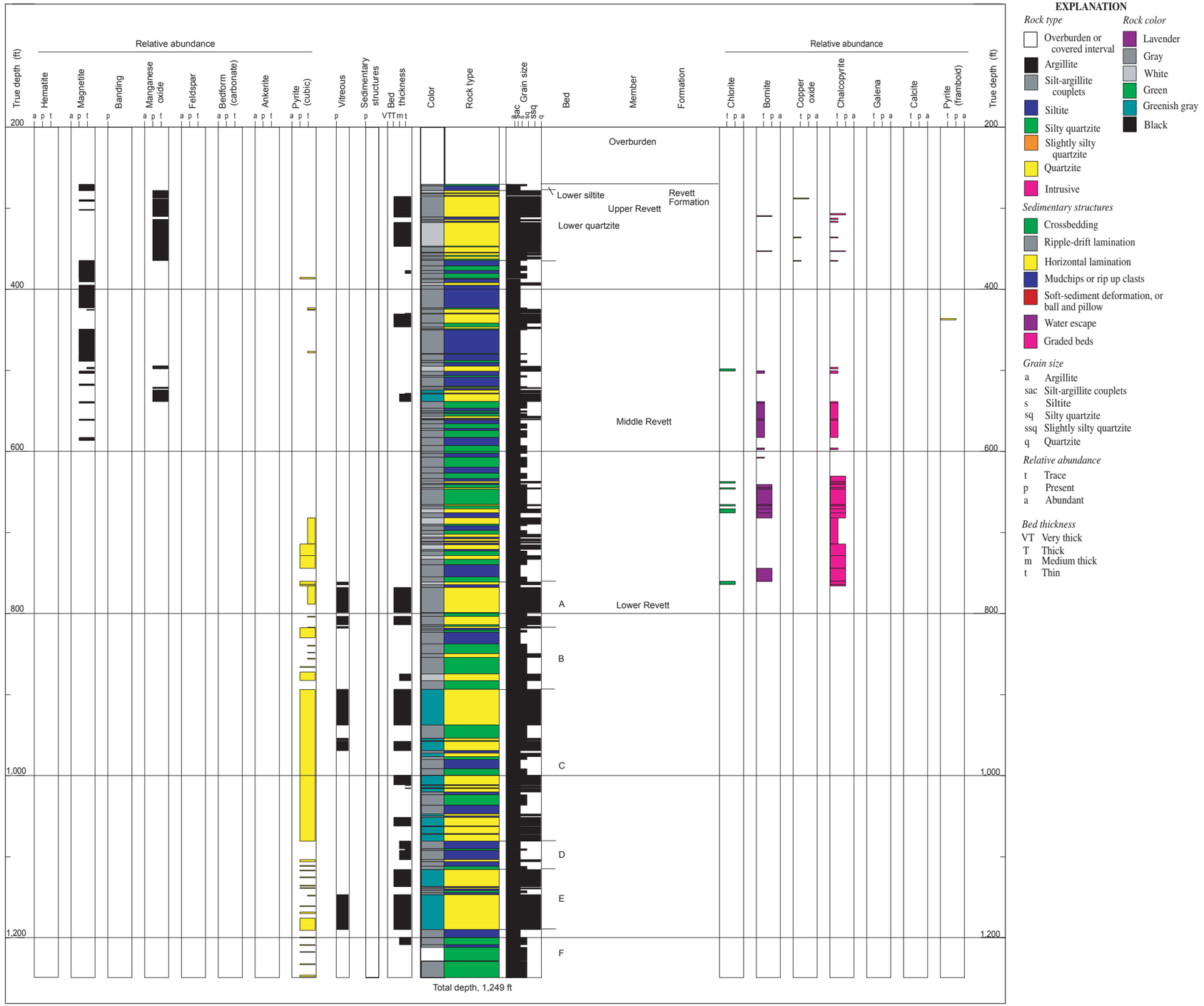


Figure A-36. DDH SN-1 (Snake Creek) diamond-drill-hole section

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



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-37. DDH SN-4 (Snake Creek) diamond-drill-hole section

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

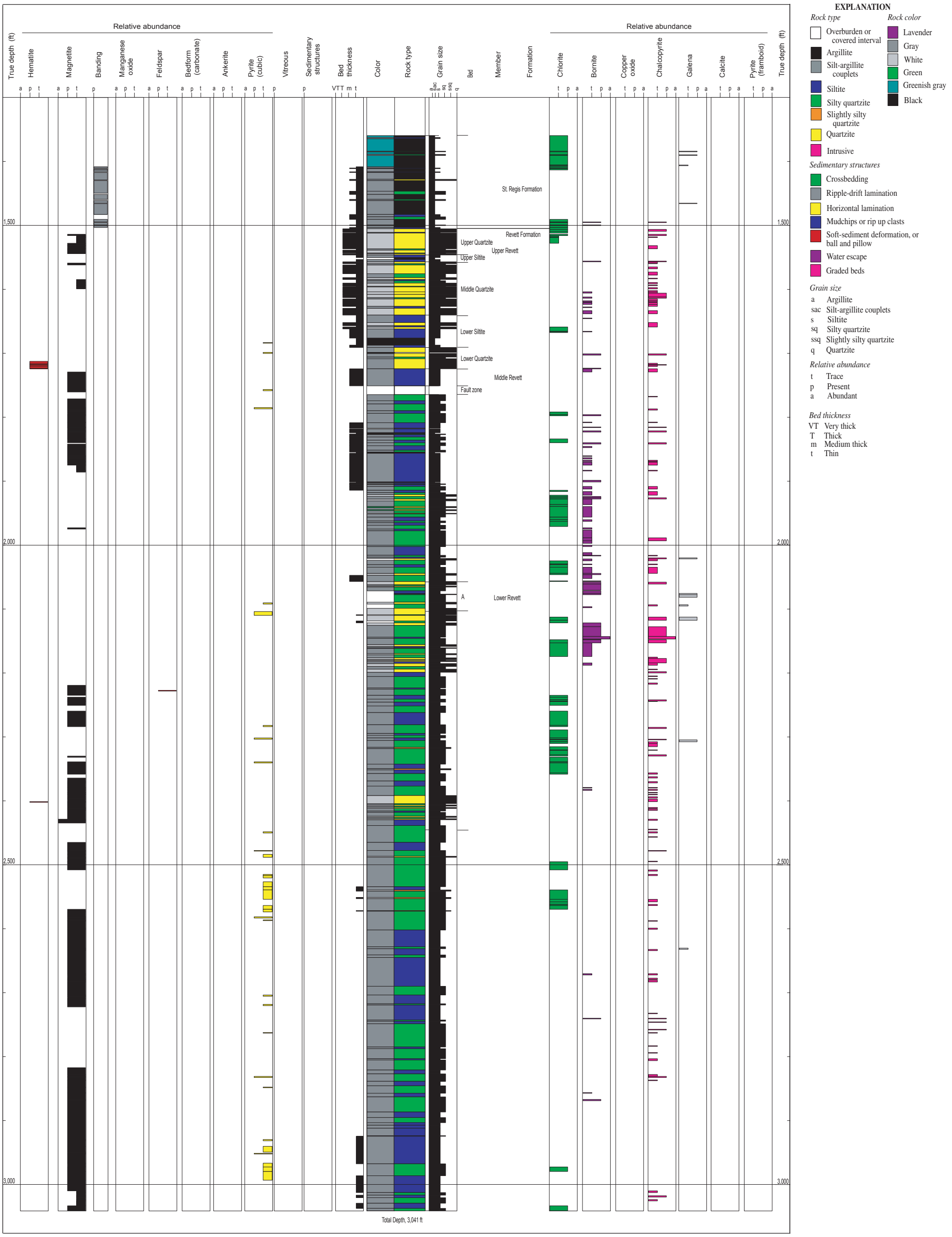


Figure A-38. DDH SN-3 (Snake Creek) diamond-drill-hole section

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

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U.S. GEOLOGICAL SURVEY

SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-39

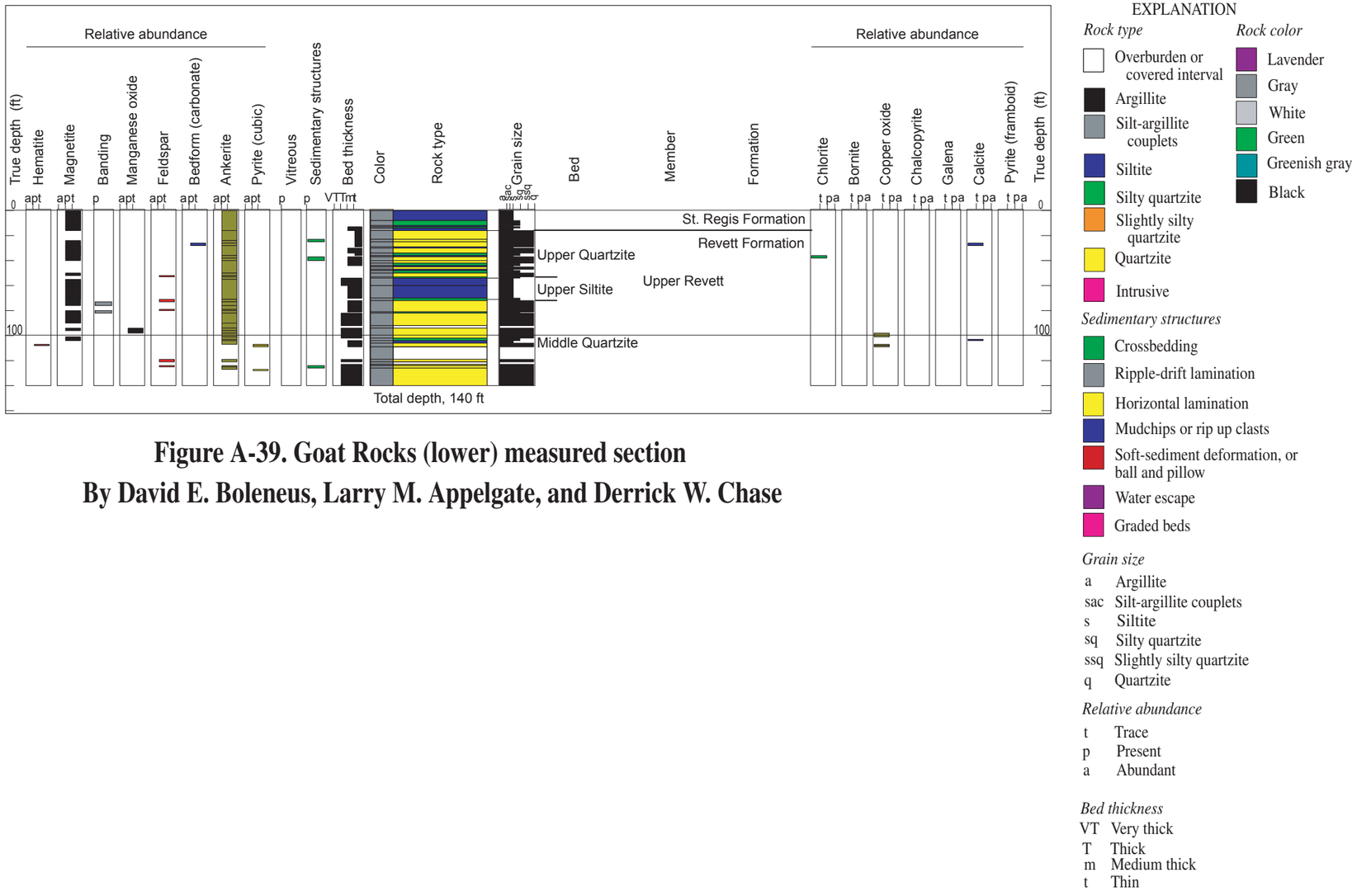

Figure A-39. Goat Rocks (lower) measured section

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

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SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-40

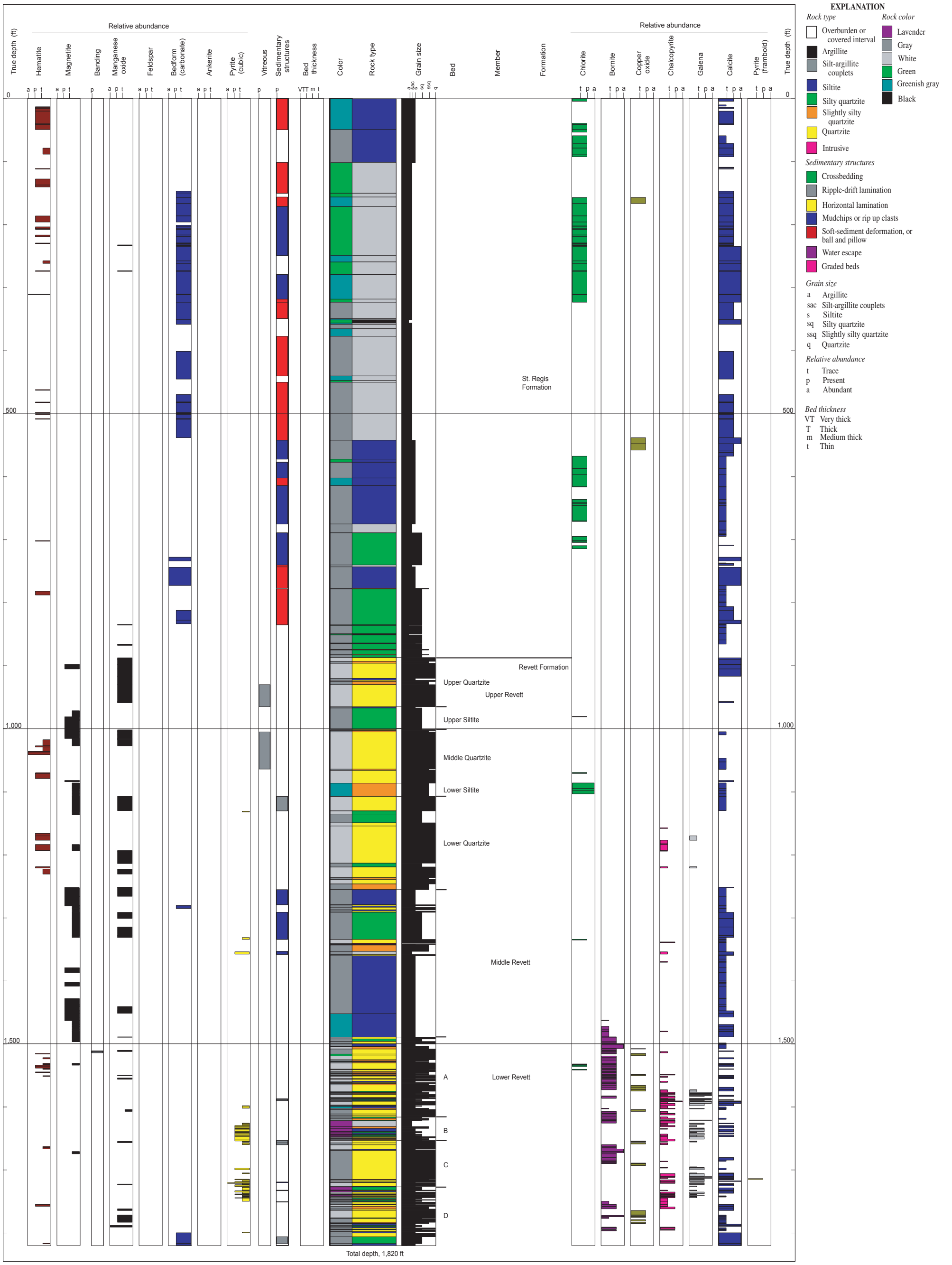
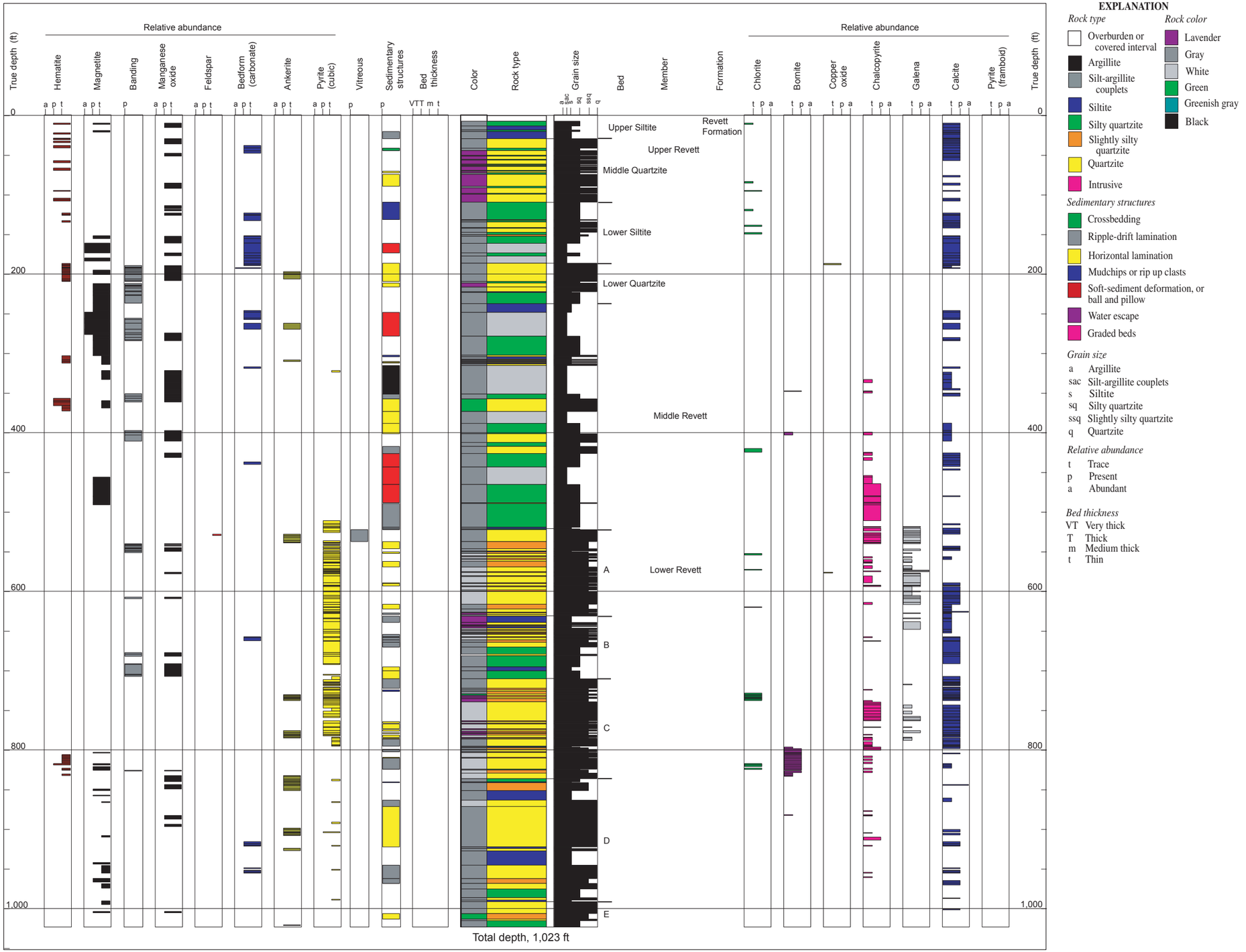


Figure A-40. DDH RC-58 (Rock Creek) diamond-drill-hole section

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

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

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

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U.S. GEOLOGICAL SURVEY

SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-42

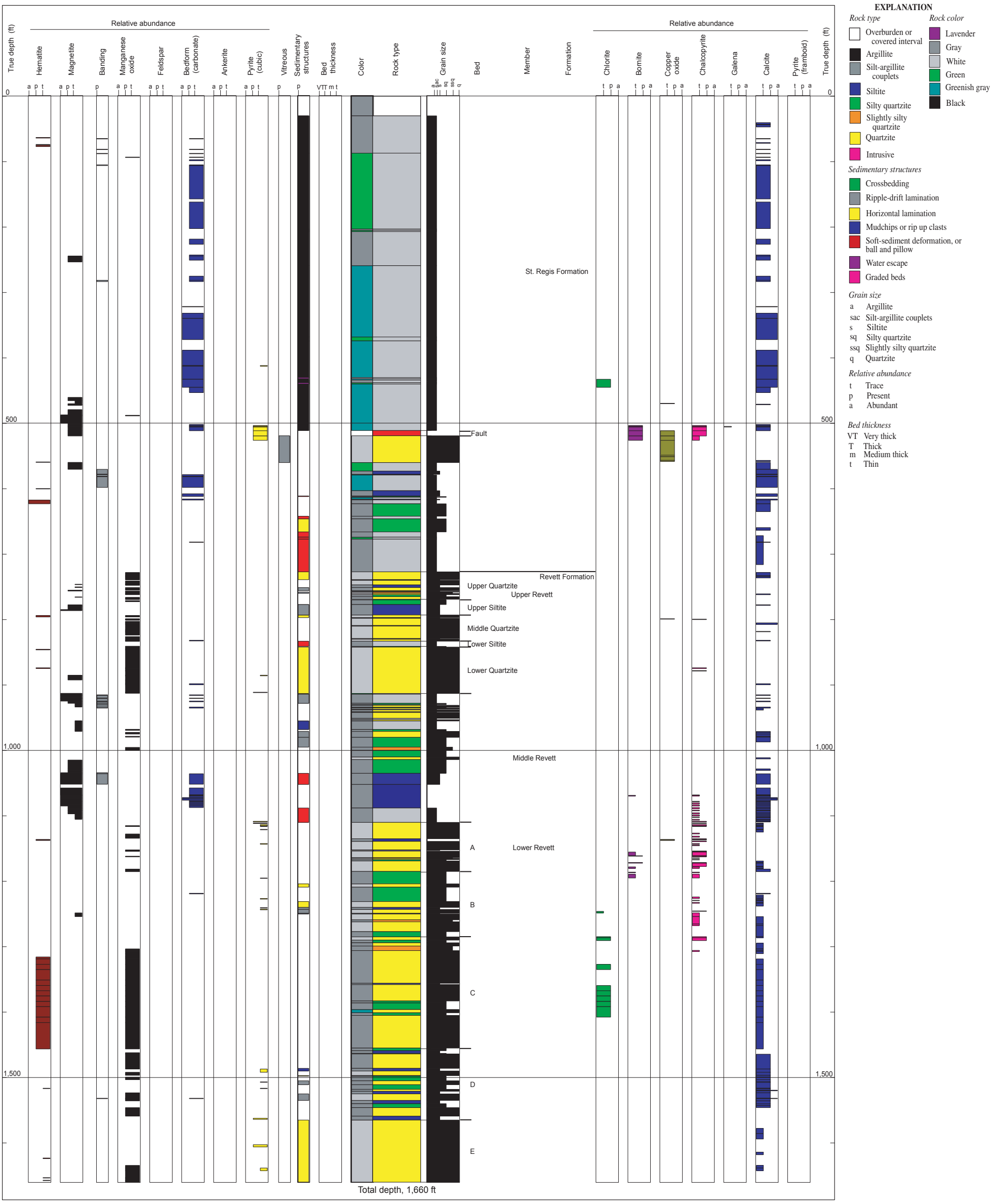
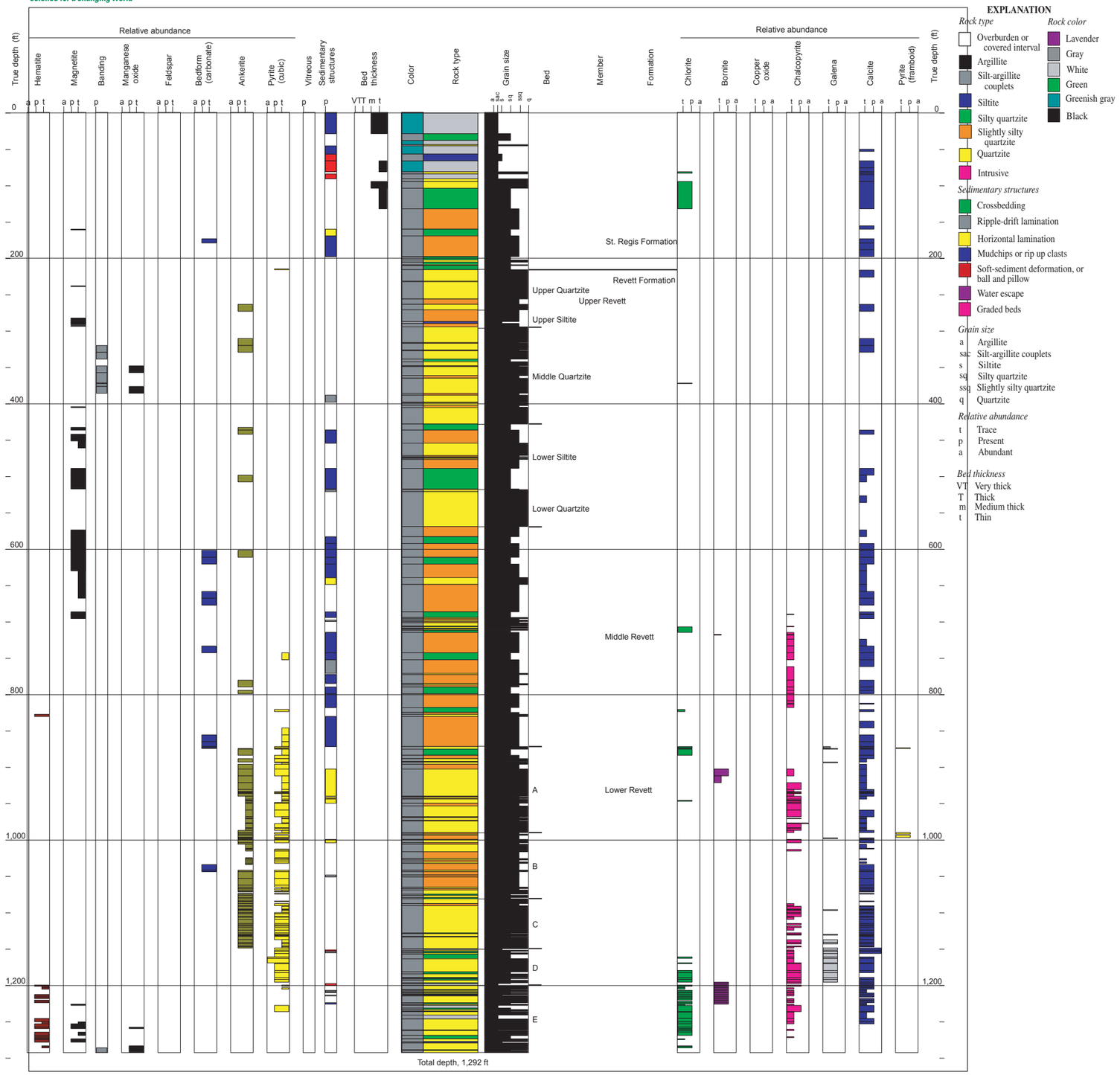


Figure A-42. DDH RC-47 (Rock Creek) diamond-drill-hole section

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

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

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

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U.S. GEOLOGICAL SURVEY

SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-44

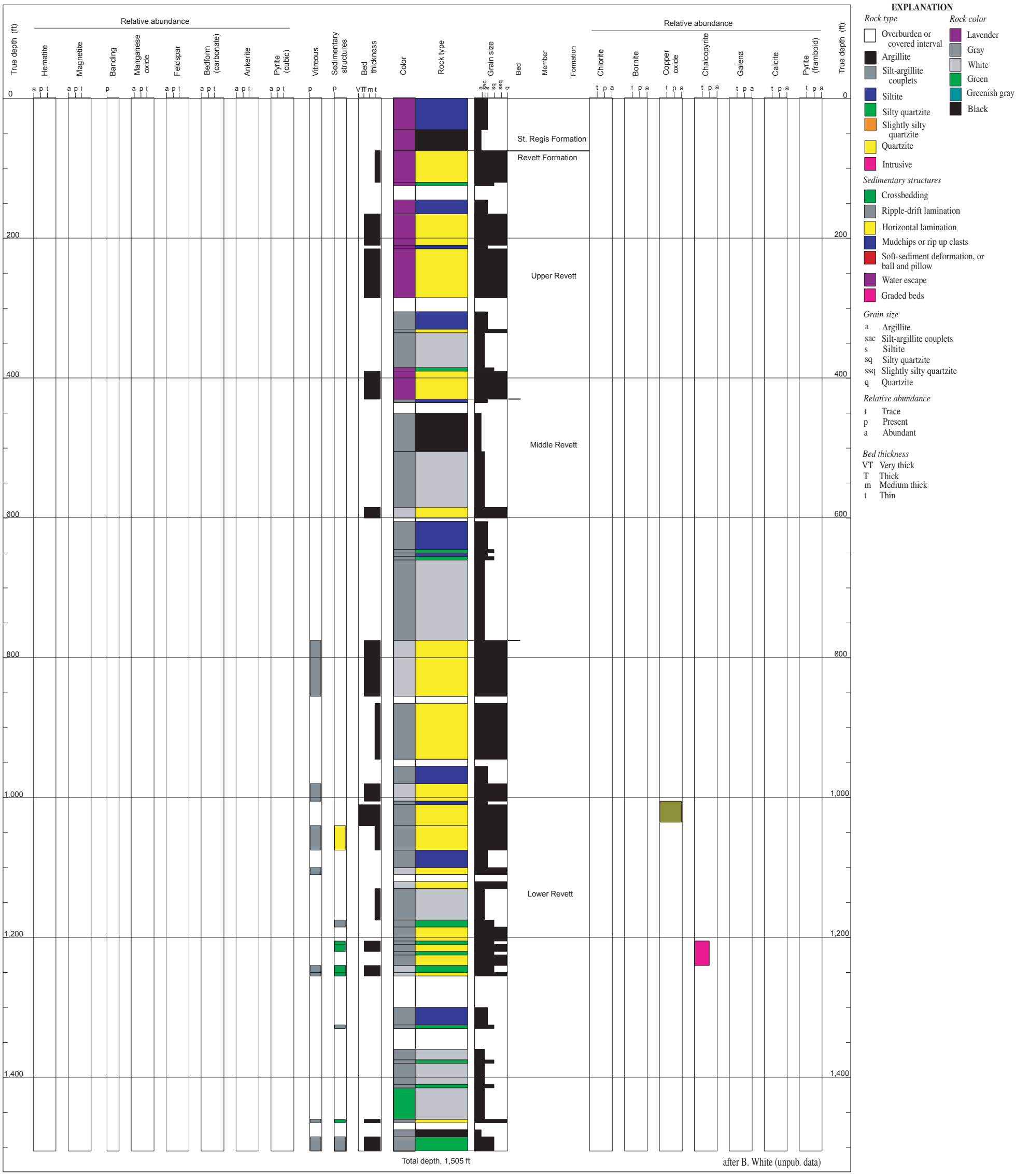
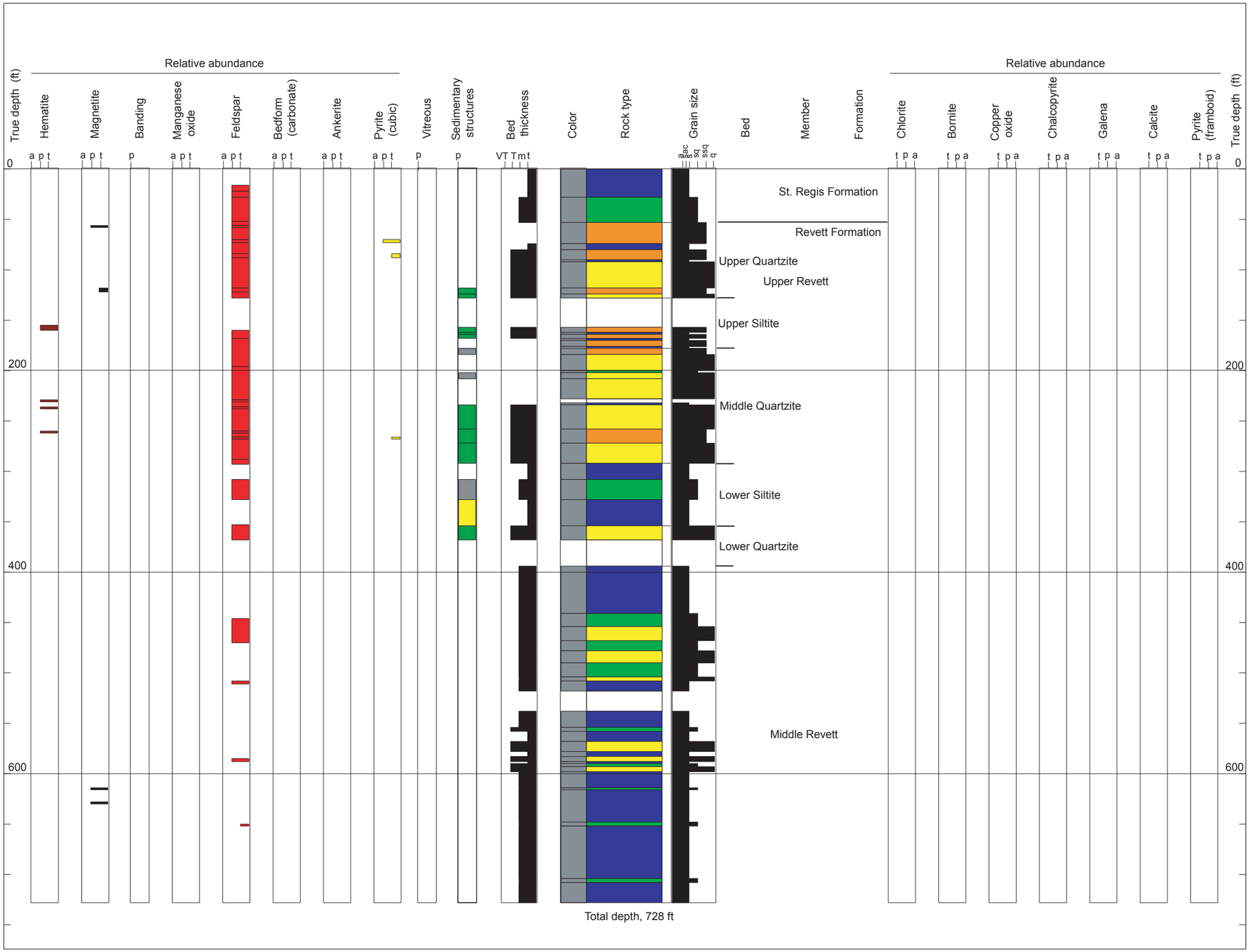


Figure A-44. Chicago Peak (White) measured section

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

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

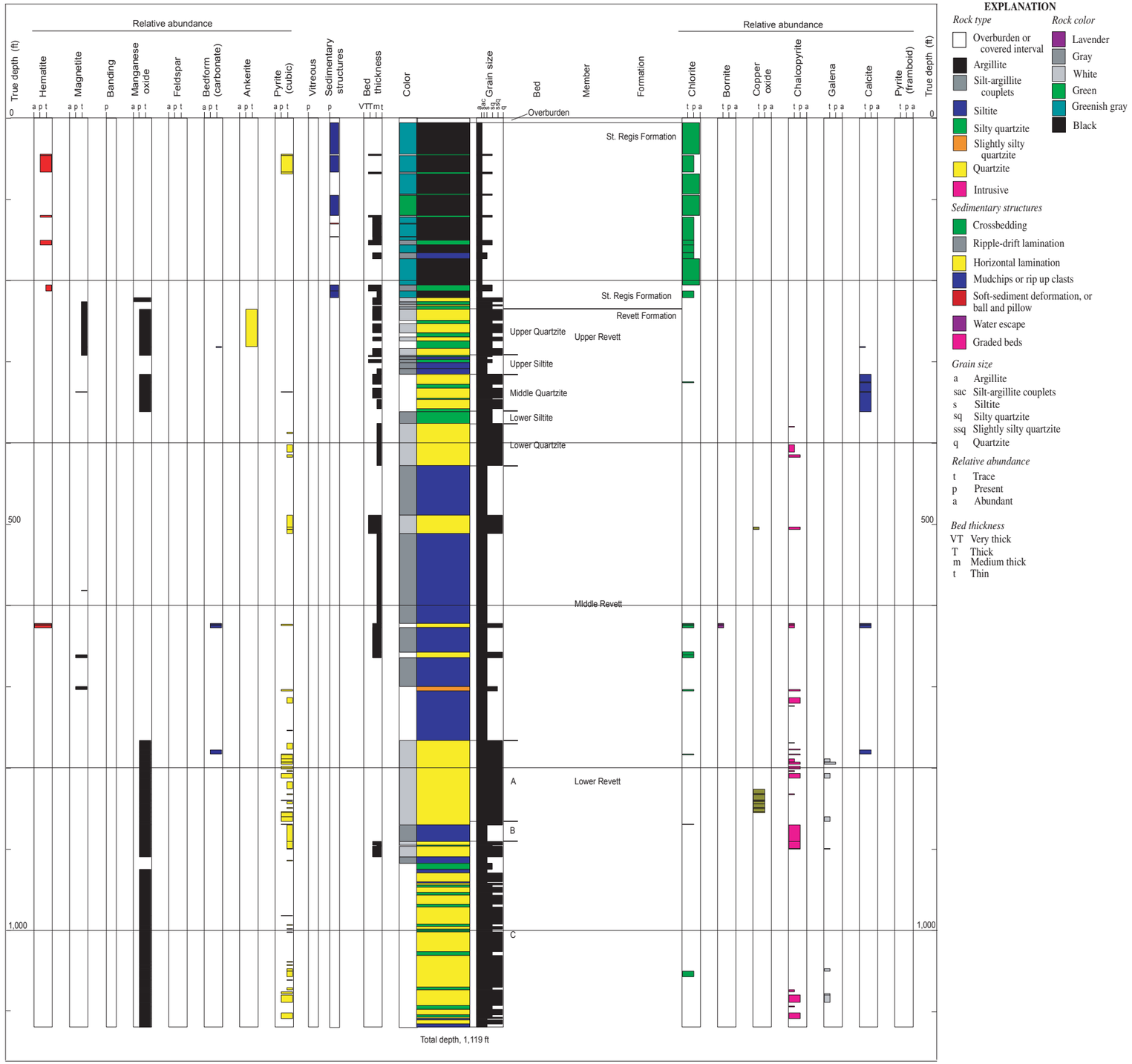
- t Trace
- p Present
- a Abundant

Bed thickness

- s VT Very thick
- T Thick
- m Medium thick
- t Thin

Figure A-45. Rock Creek (East Fork) 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

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

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

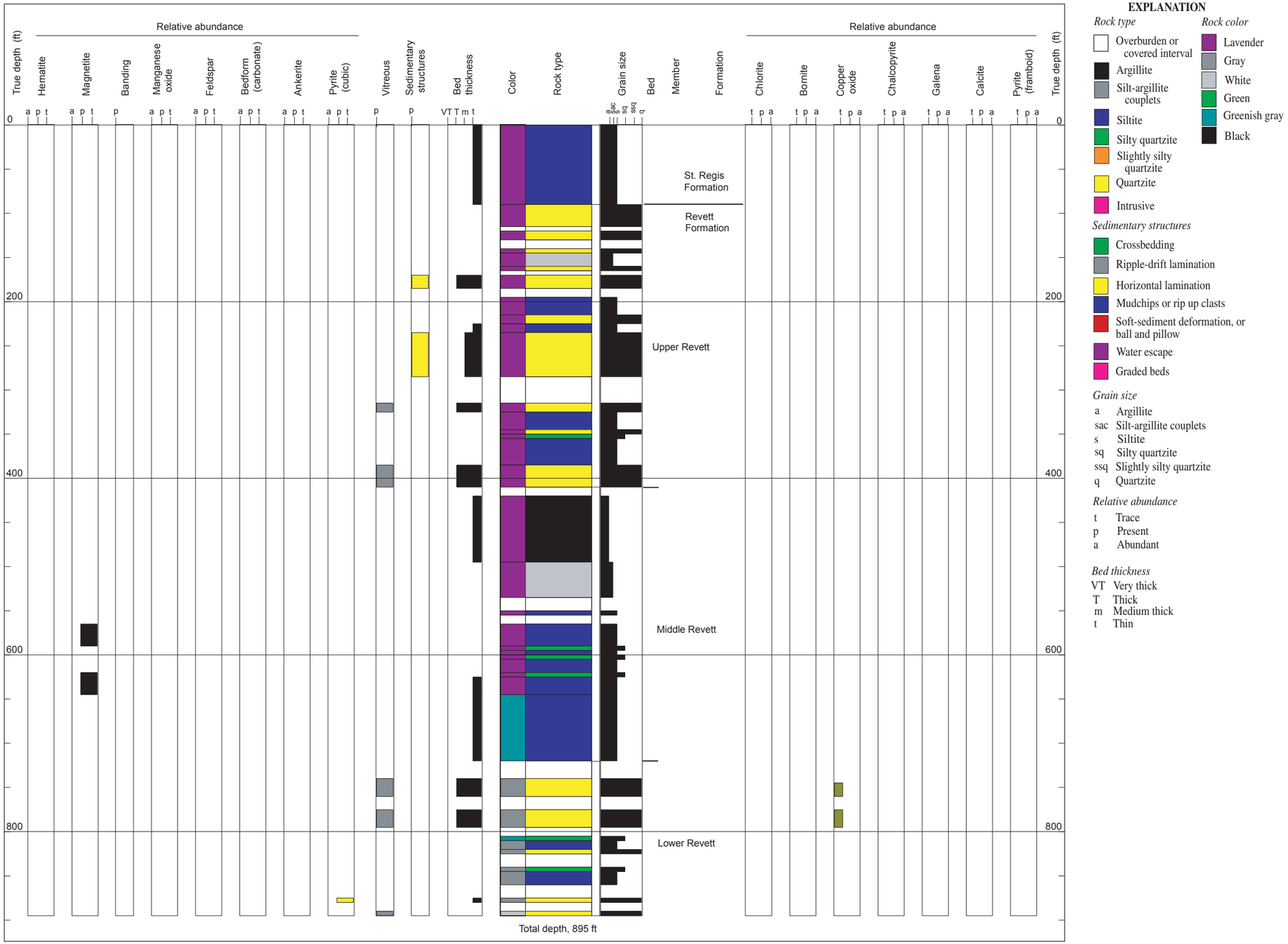


Figure A-47. McKay Creek (White) measured section

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

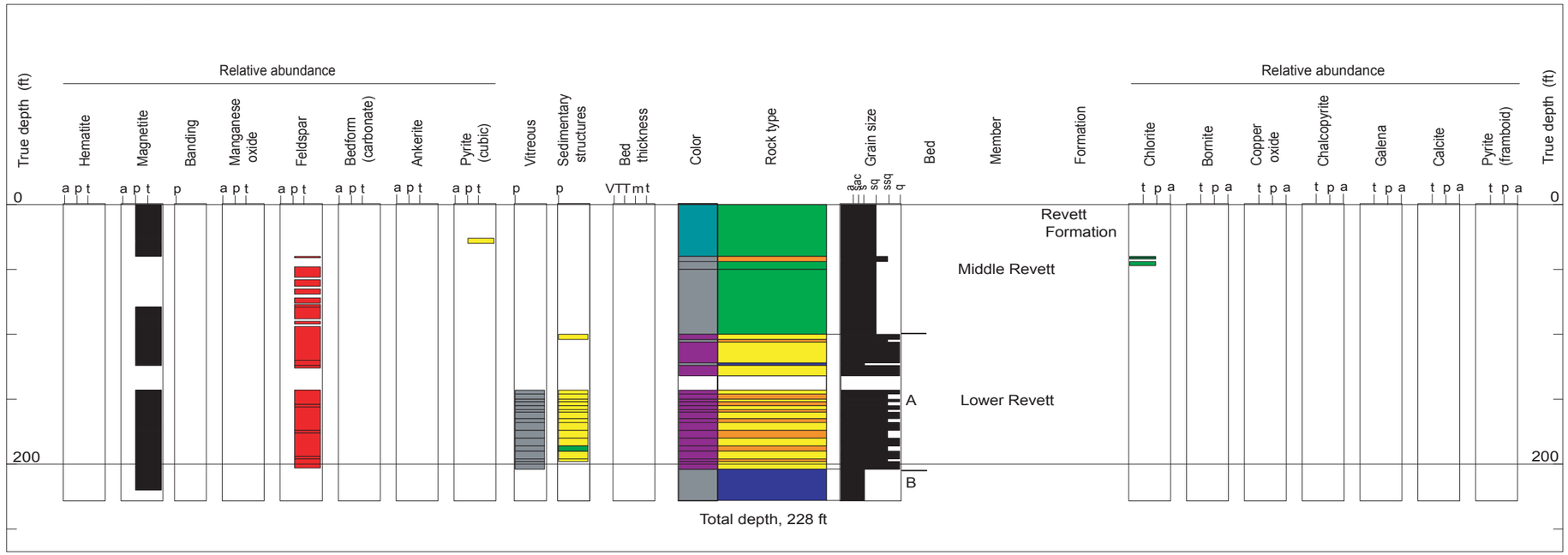


Figure A-48. McKay Creek North measured section

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

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

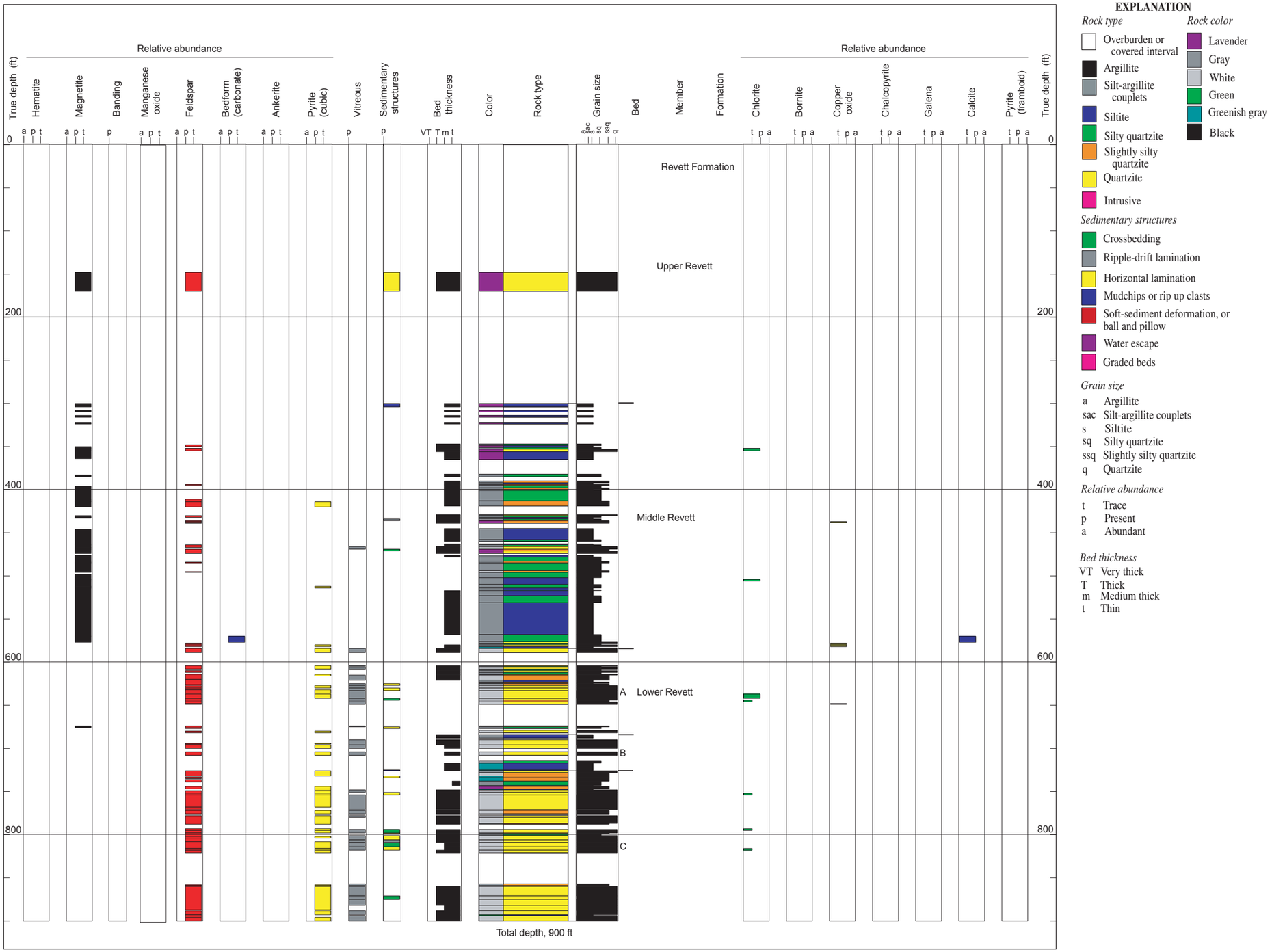


Figure A-49. McKay Creek South measured section

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

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SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-50

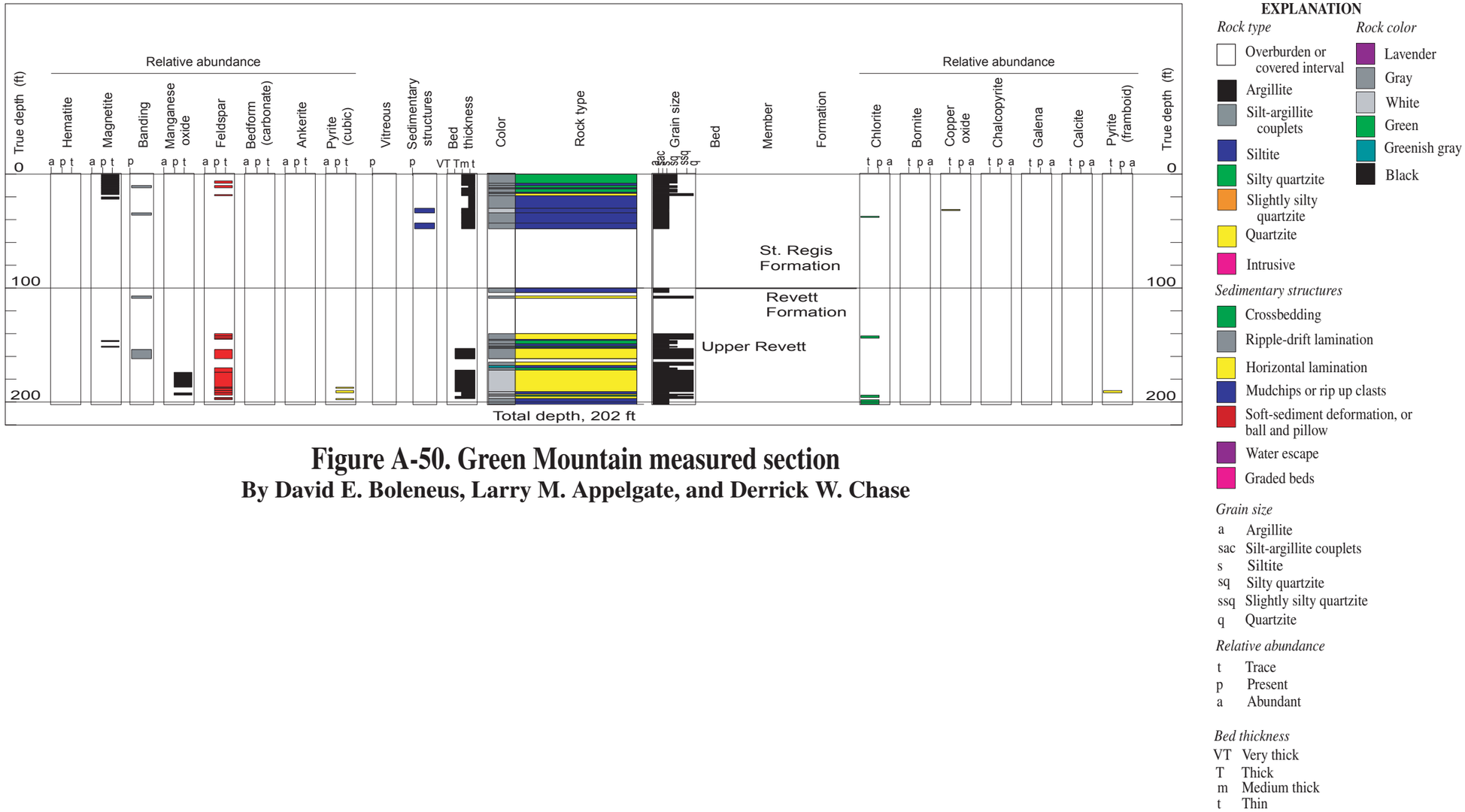

Figure A-50. Green Mountain measured section

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

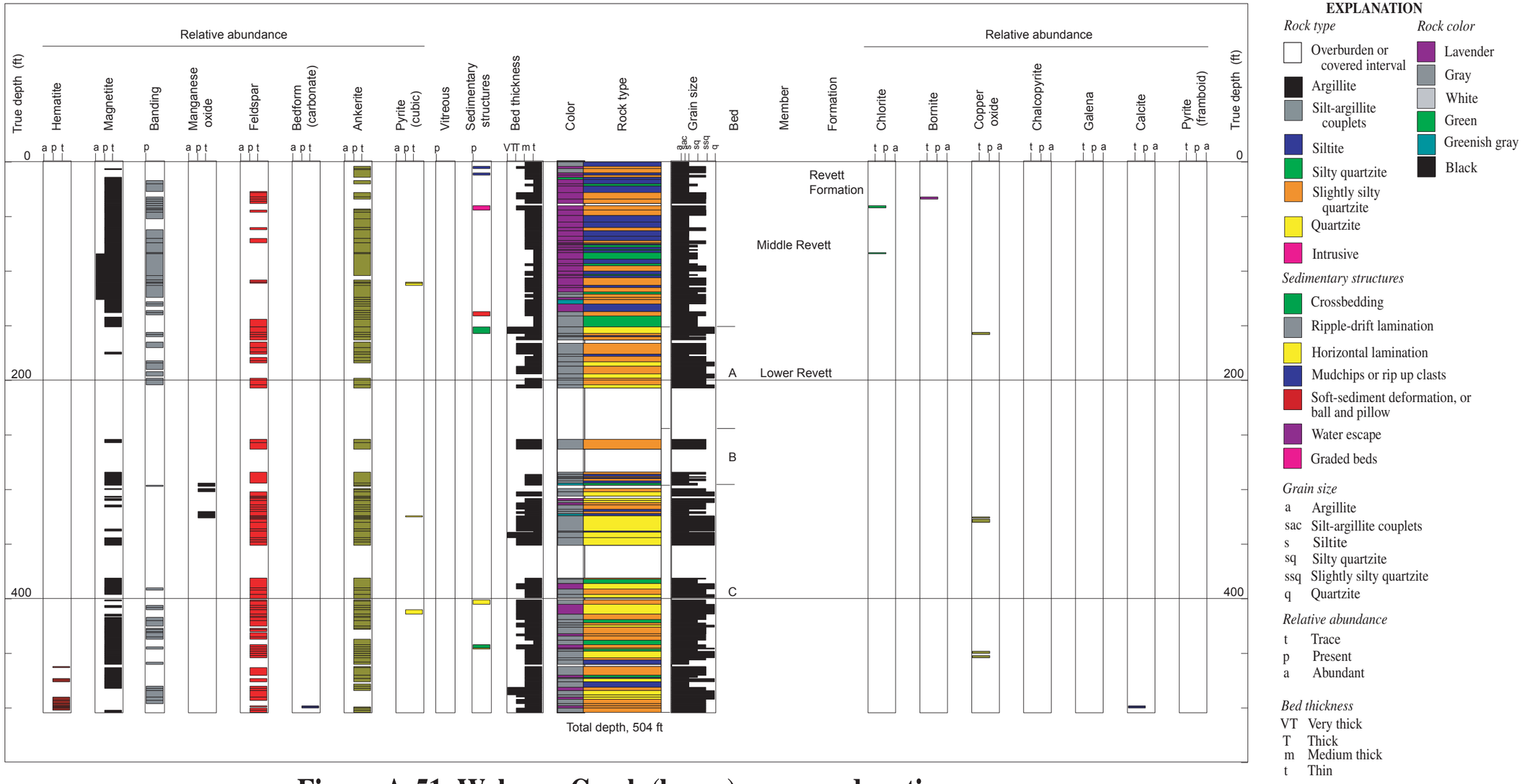

Figure A-51. Waloven Creek (lower) measured section

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

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U.S. GEOLOGICAL SURVEY

SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-52

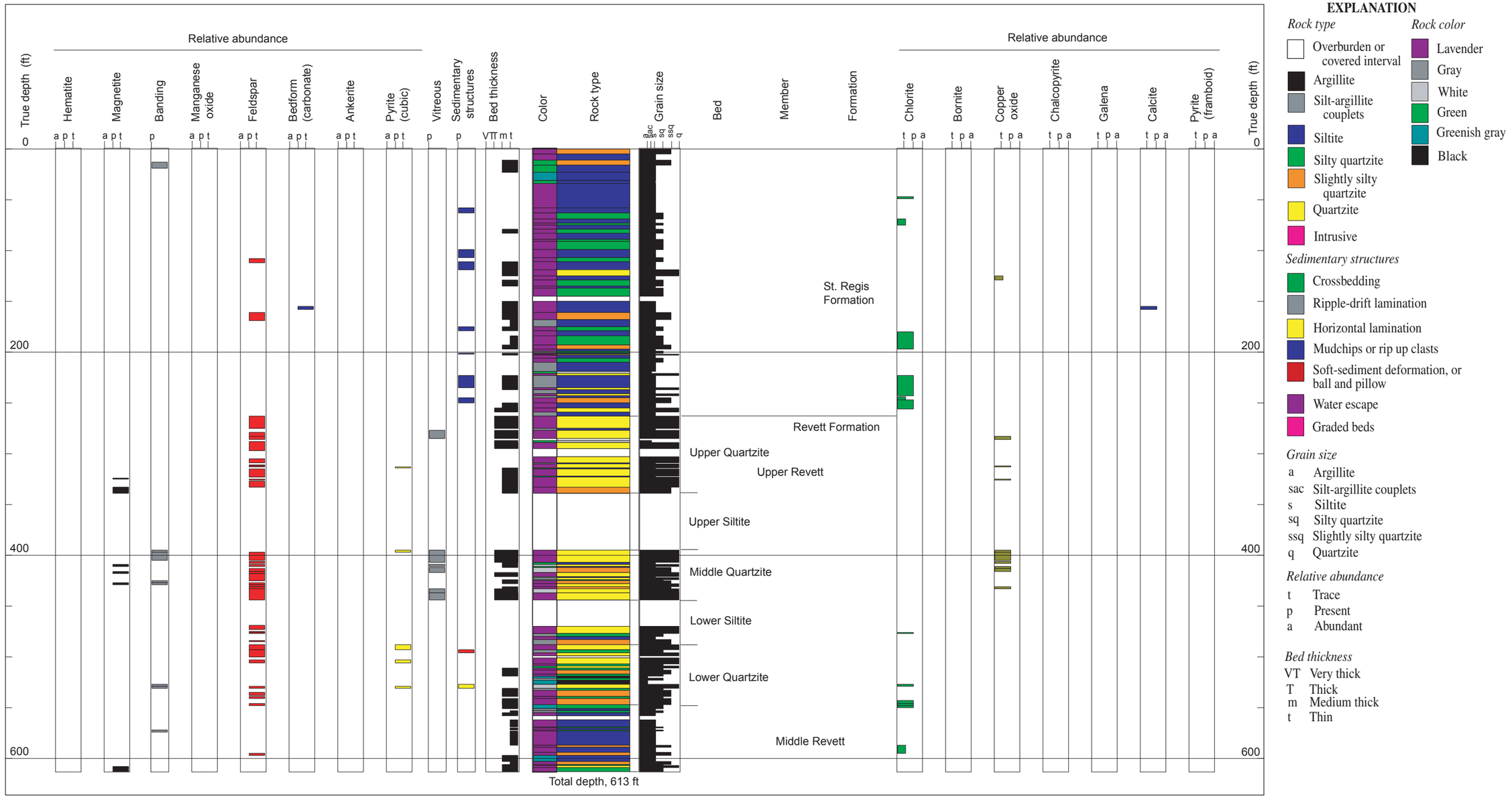

Figure A-52. Waloven Creek (upper) measured section

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

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U.S. GEOLOGICAL SURVEY

SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-53

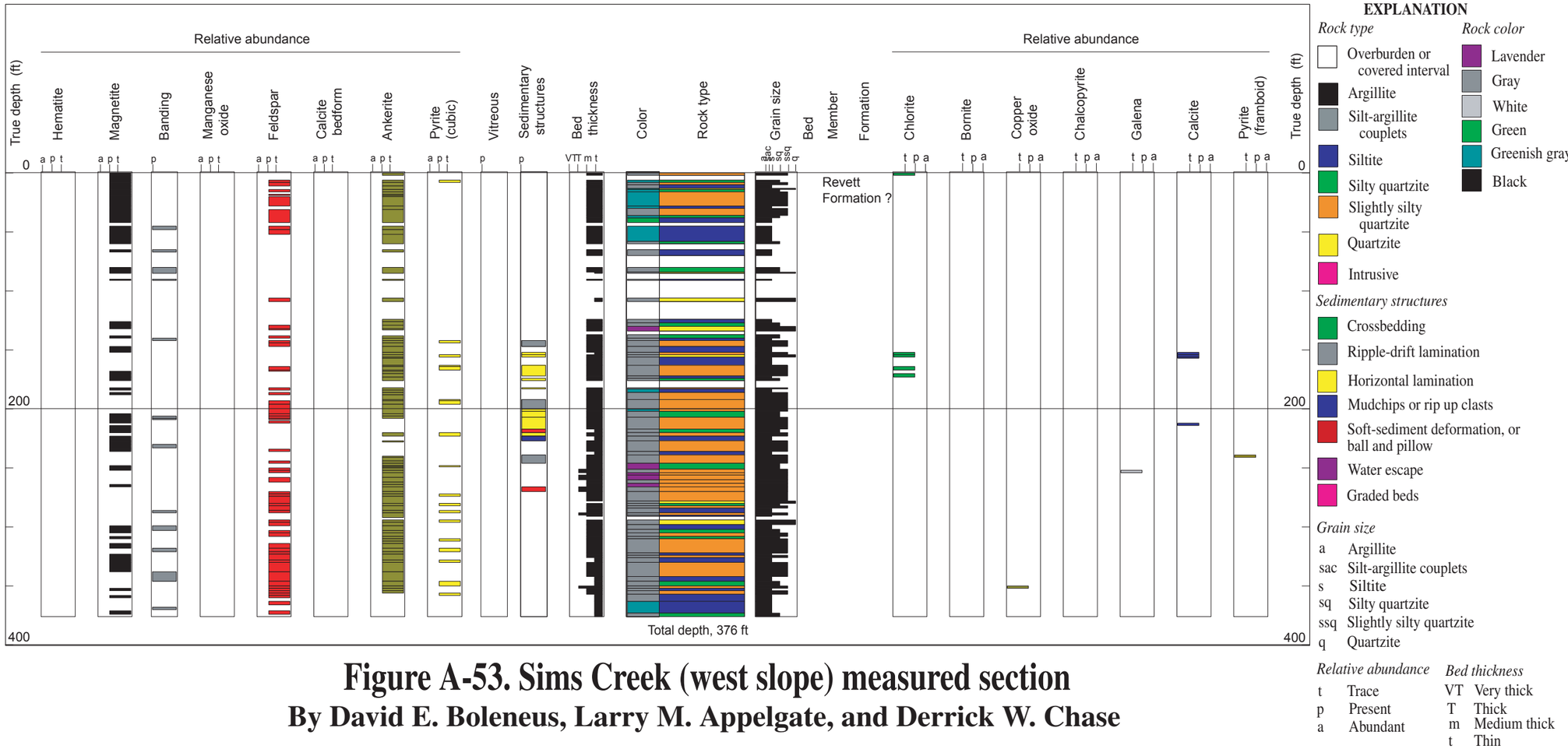

Figure A-53. Sims Creek (west slope) measured section

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

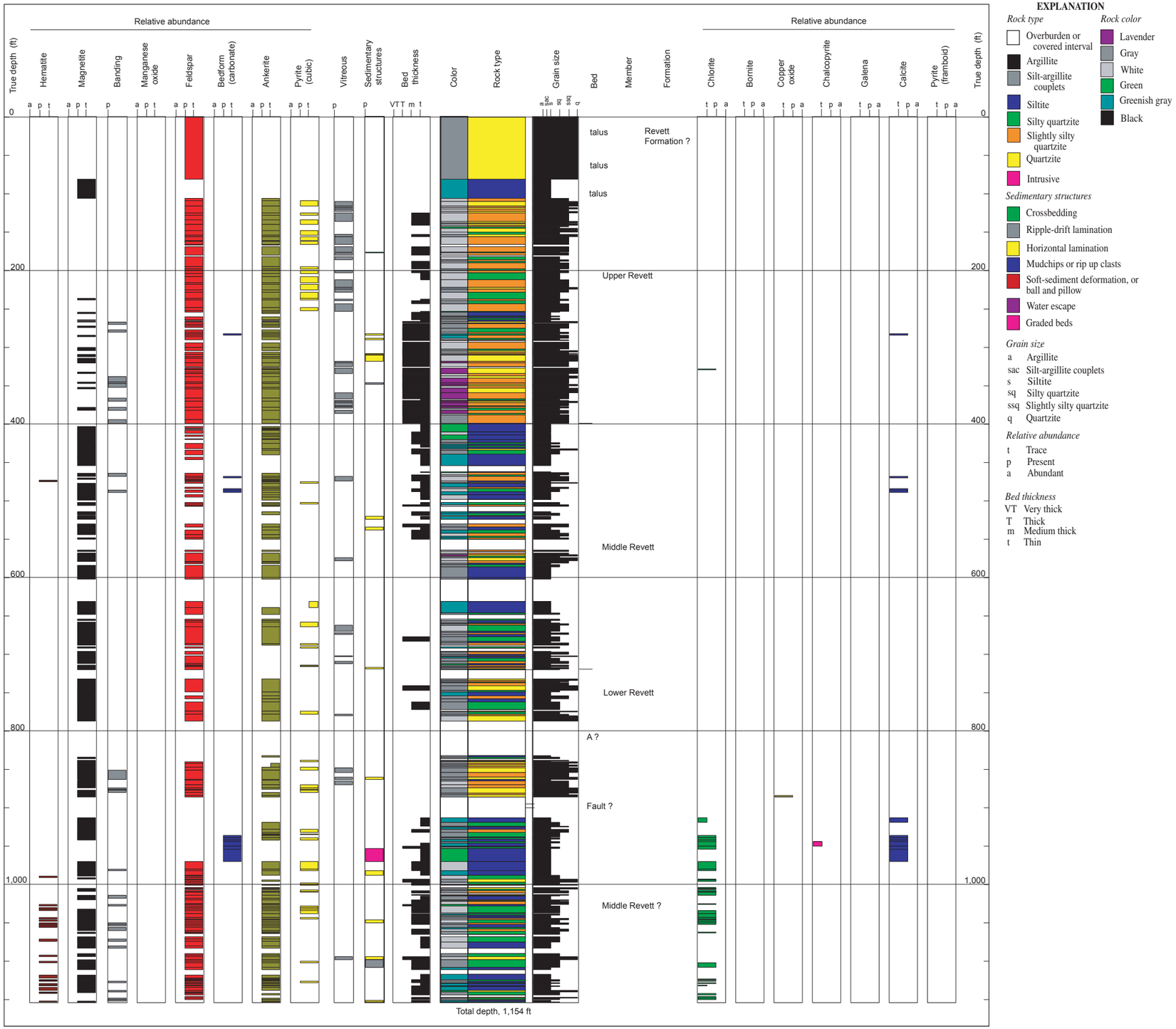

Figure A-54. Sims Creek 1, 2 (east slope) measured section

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

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SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-55

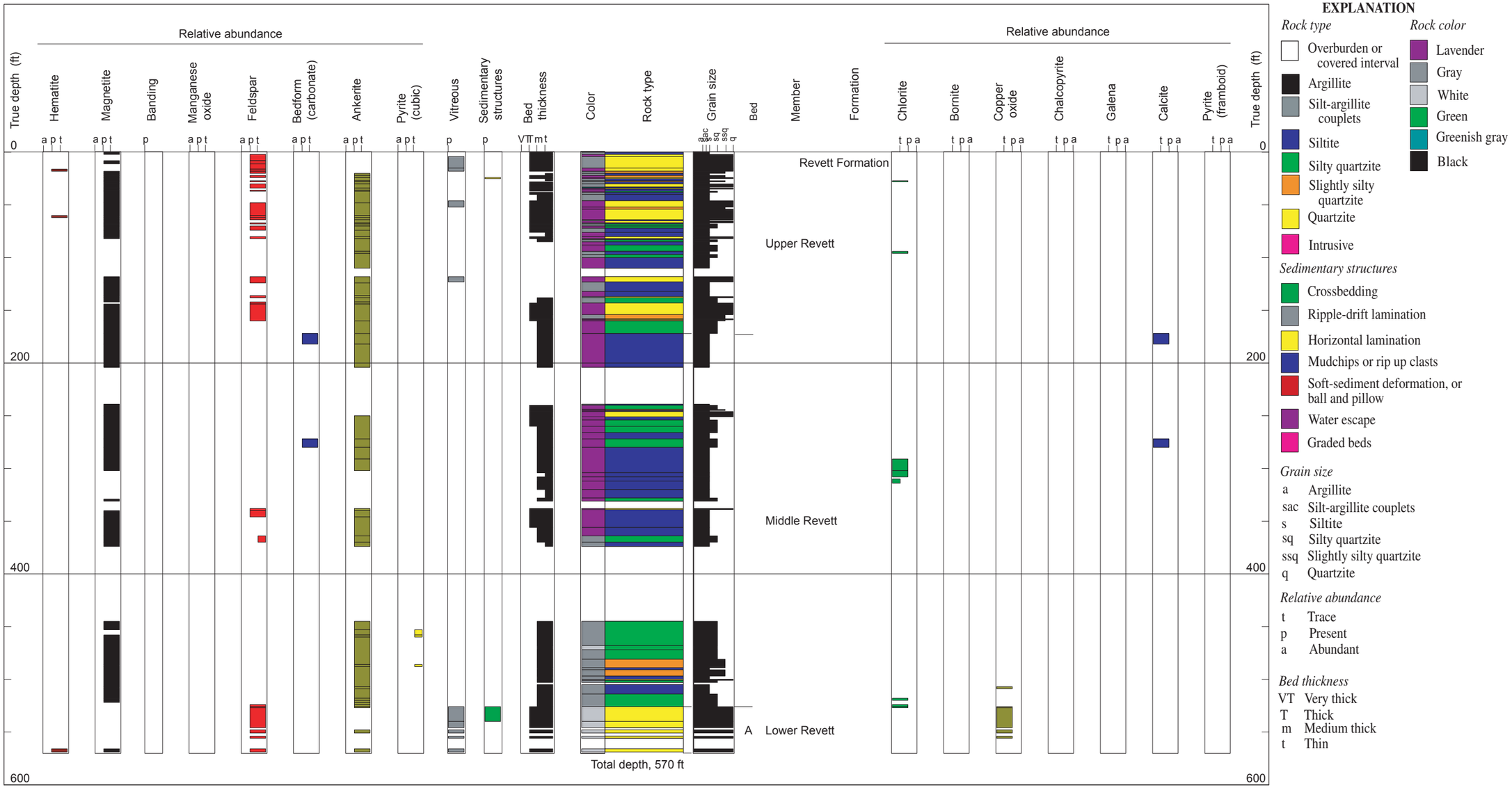
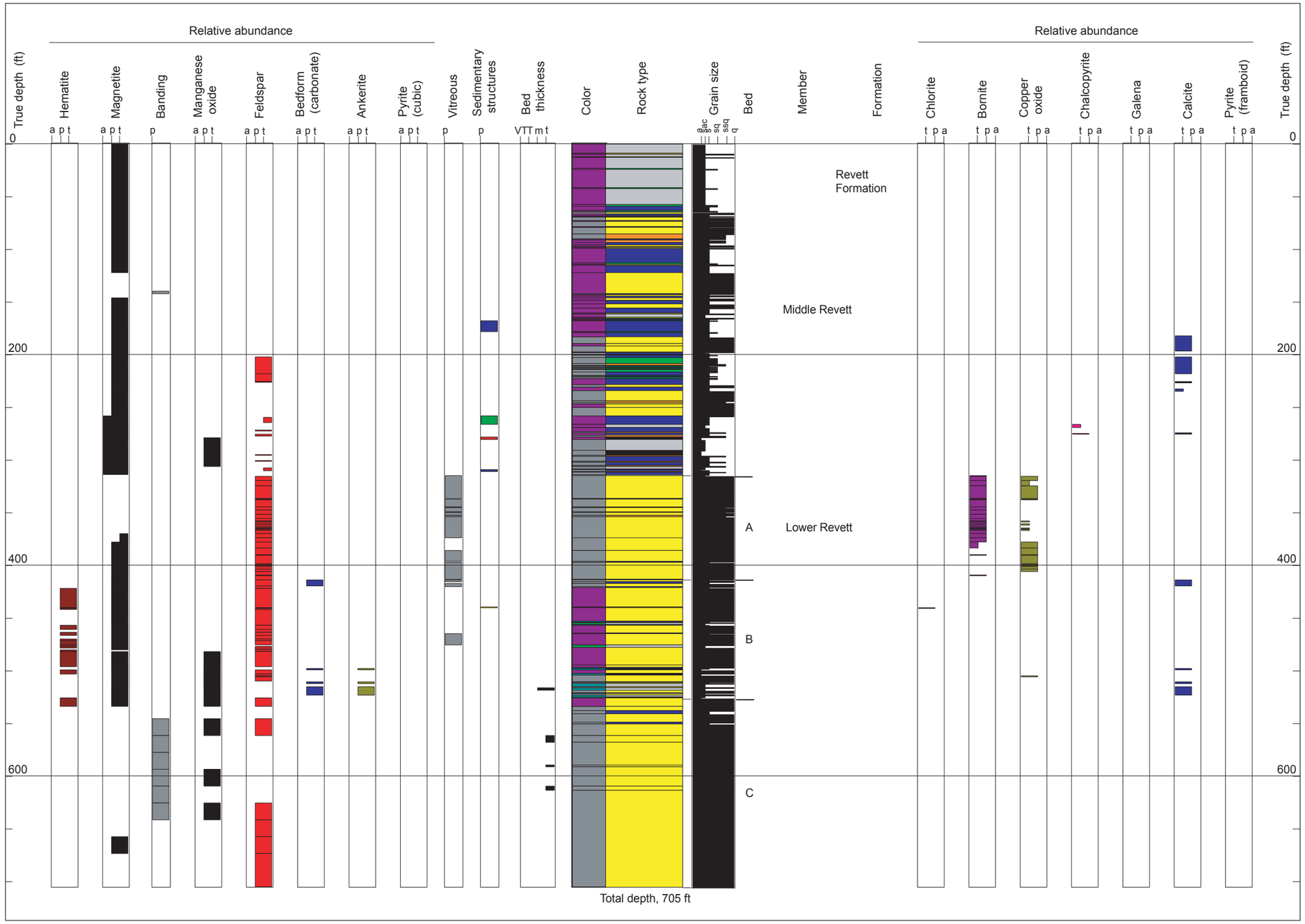


Figure A-55. Miners Gulch (Vermilion River) measured section

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

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

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

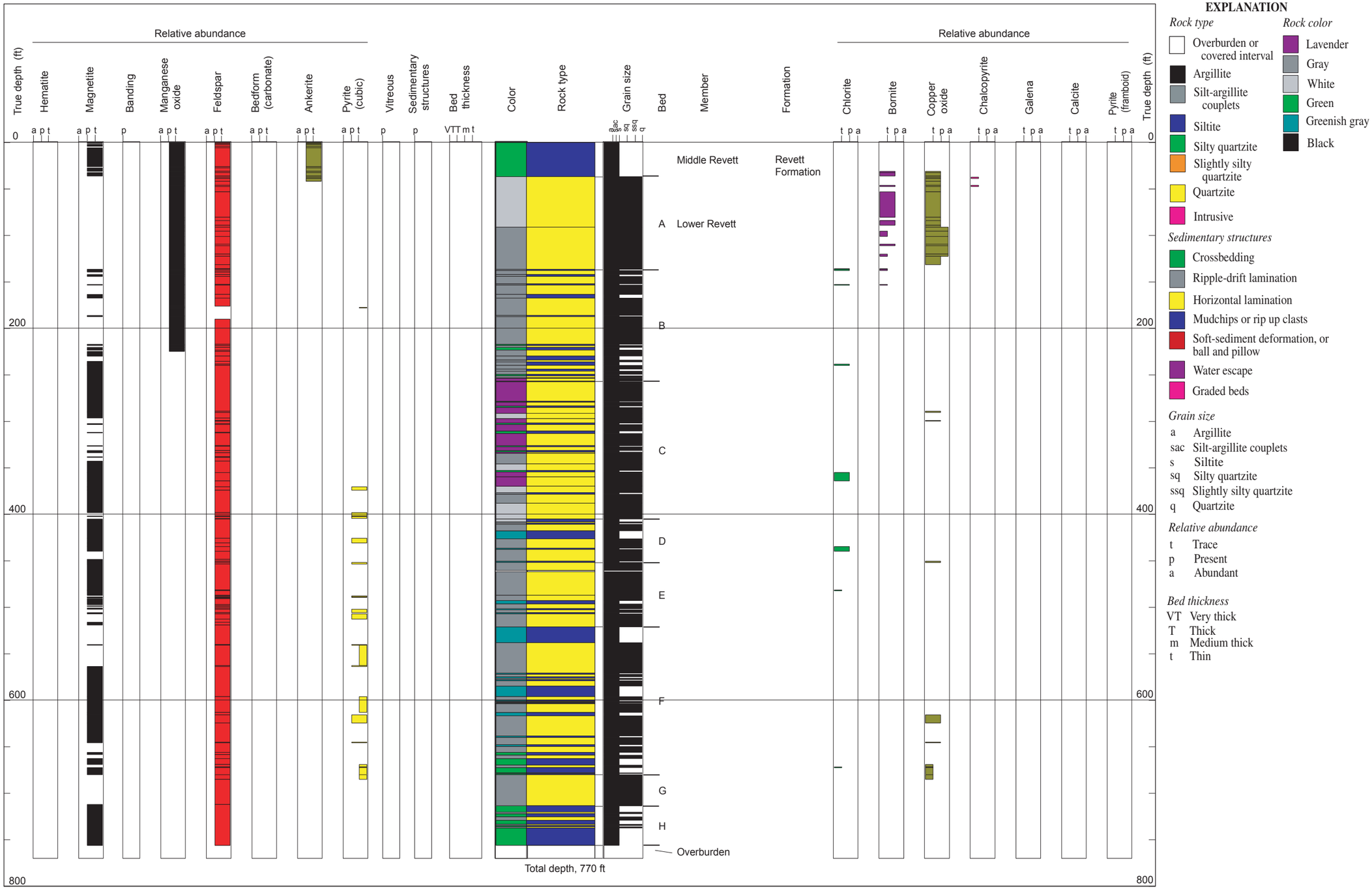


Figure A-57. DDH VR-4 (Vermilion River) diamond-drill-hole section

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

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SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-58

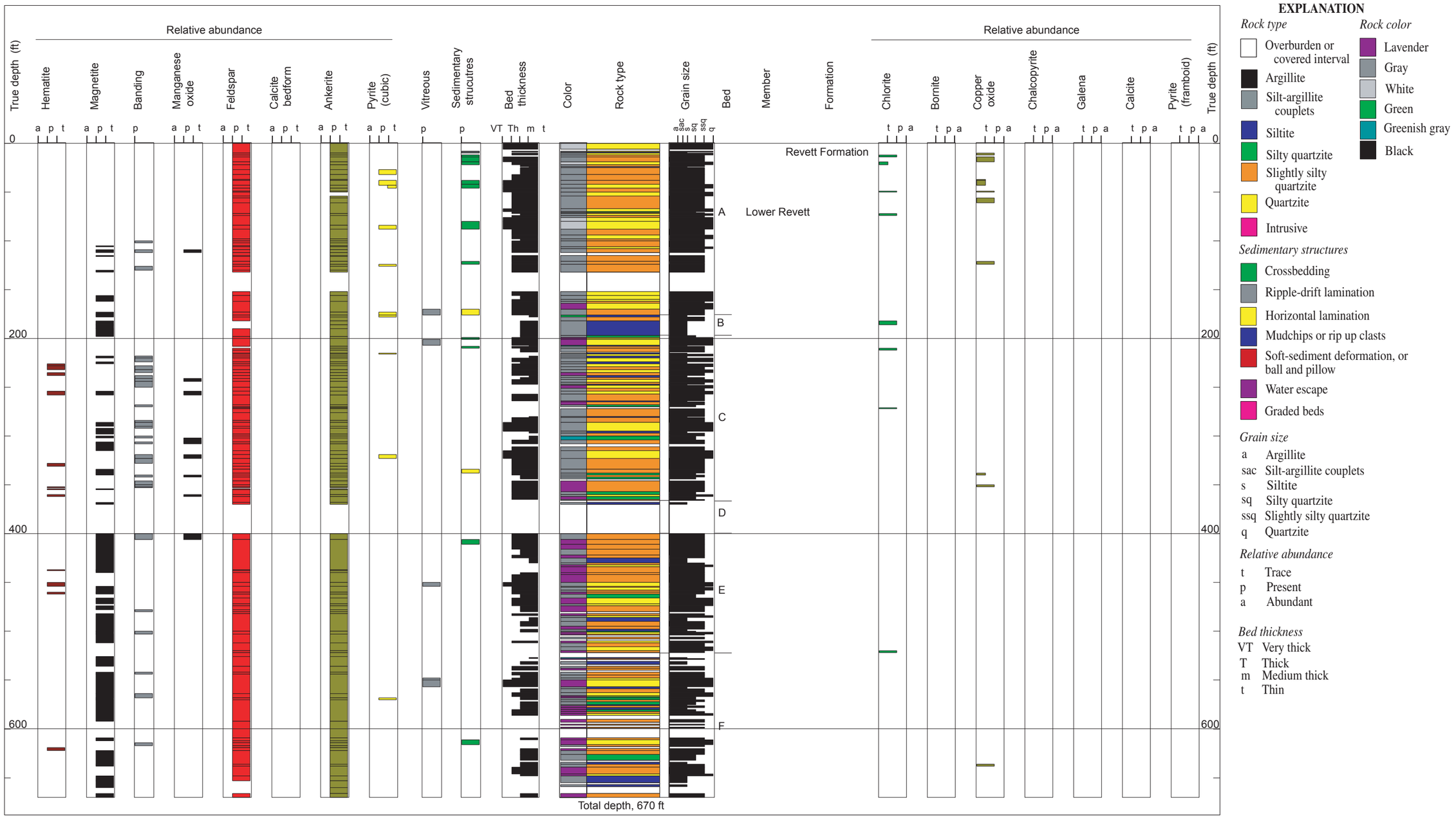
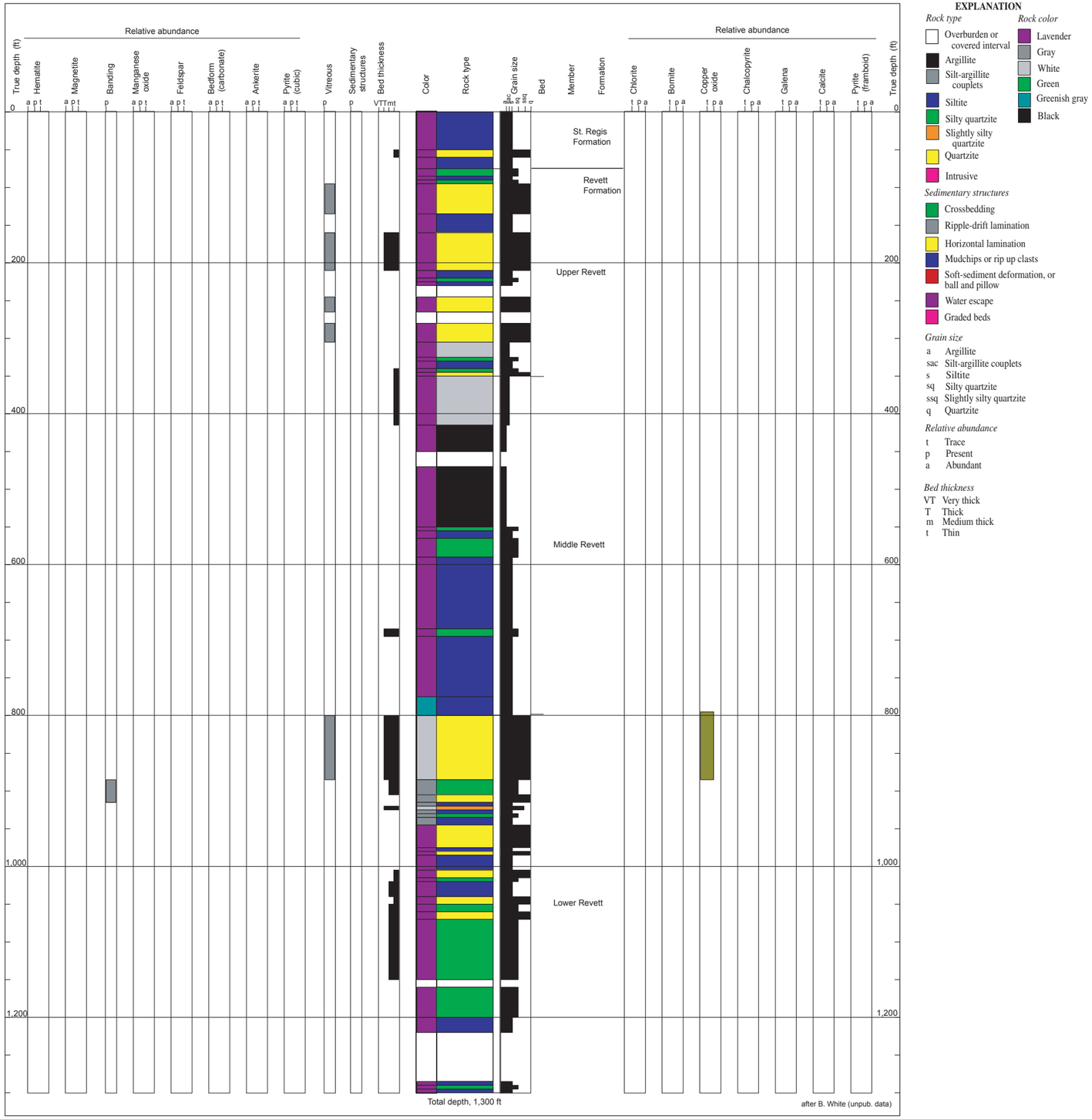


Figure A-58. Rush Lake measured section

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

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

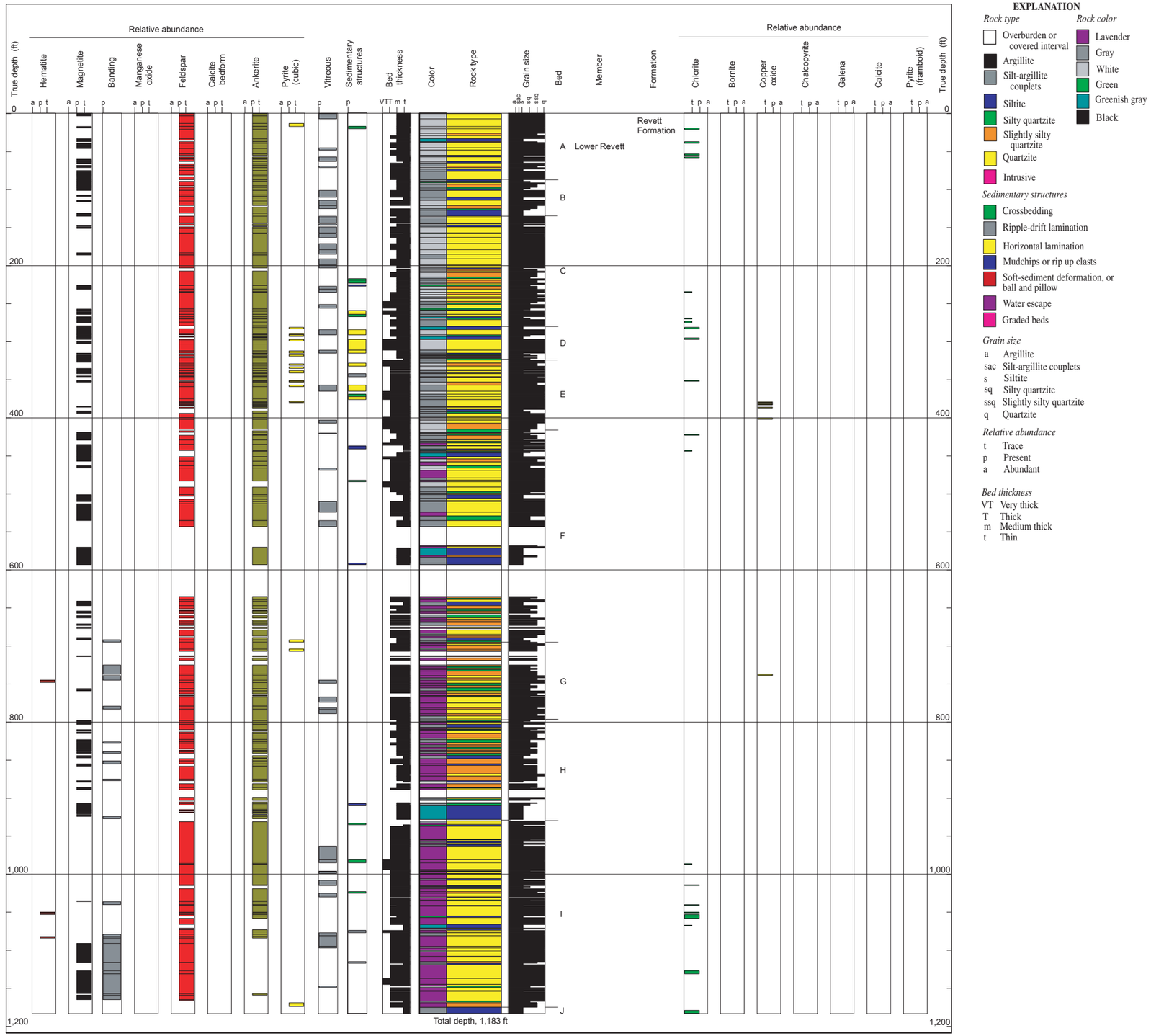
Grain size
- a Argillite
- sac Silt-argillite couplets
- s Siltite
- sq Silty quartzite
- ssq Slightly silty quartzite
- q Quartzite

Relative abundance
- t Trace
- p Present
- a Abundant

Bed thickness
- VT Very thick
- T Thick
- m Medium thick
- t Thin

Figure A-59. Vermilion River (White) 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

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

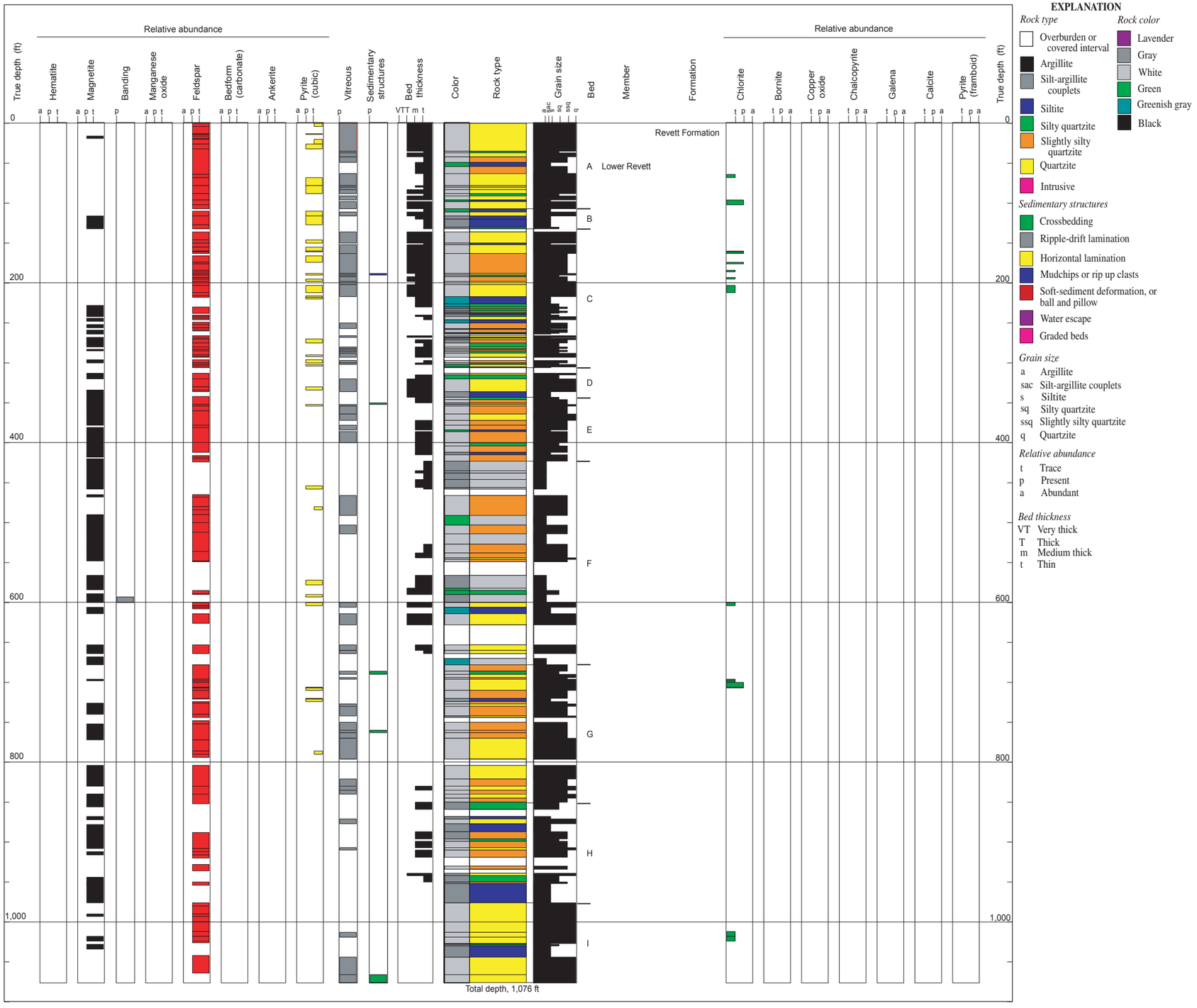
Grain size
- a Argillite
- sac Silt-argillite couplets
- s Siltite
- sq Silty quartzite
- ssq Slightly silty quartzite
- q Quartzite

Relative abundance
- t Trace
- p Present
- a Abundant

Bed thickness
- VT Very thick
- T Thick
- m Medium thick
- t Thin

Figure A-60. Slide Rock Mountain 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

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-61. Deep Creek measured section

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

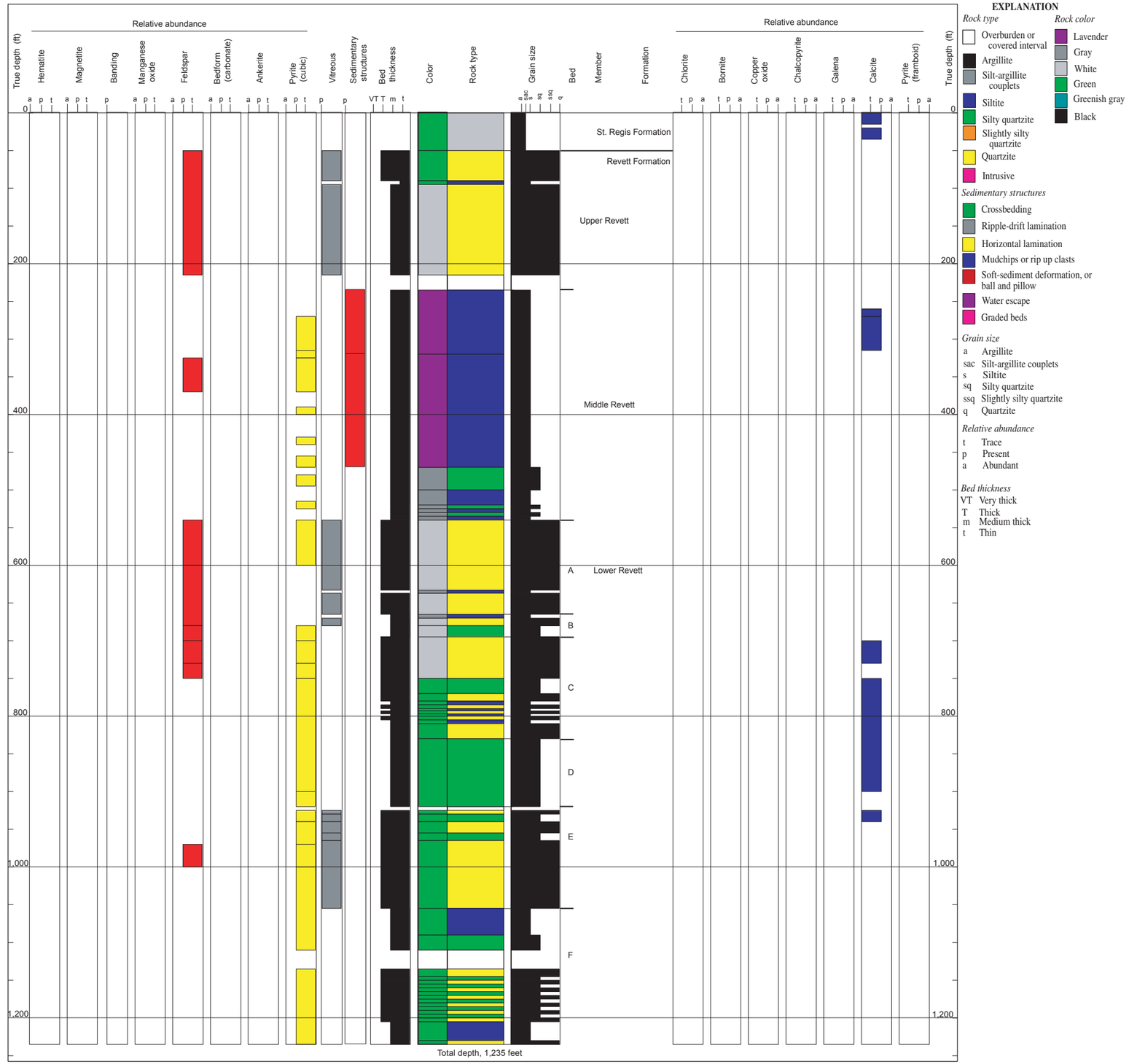


Figure A-62. Graves Peak measured section

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

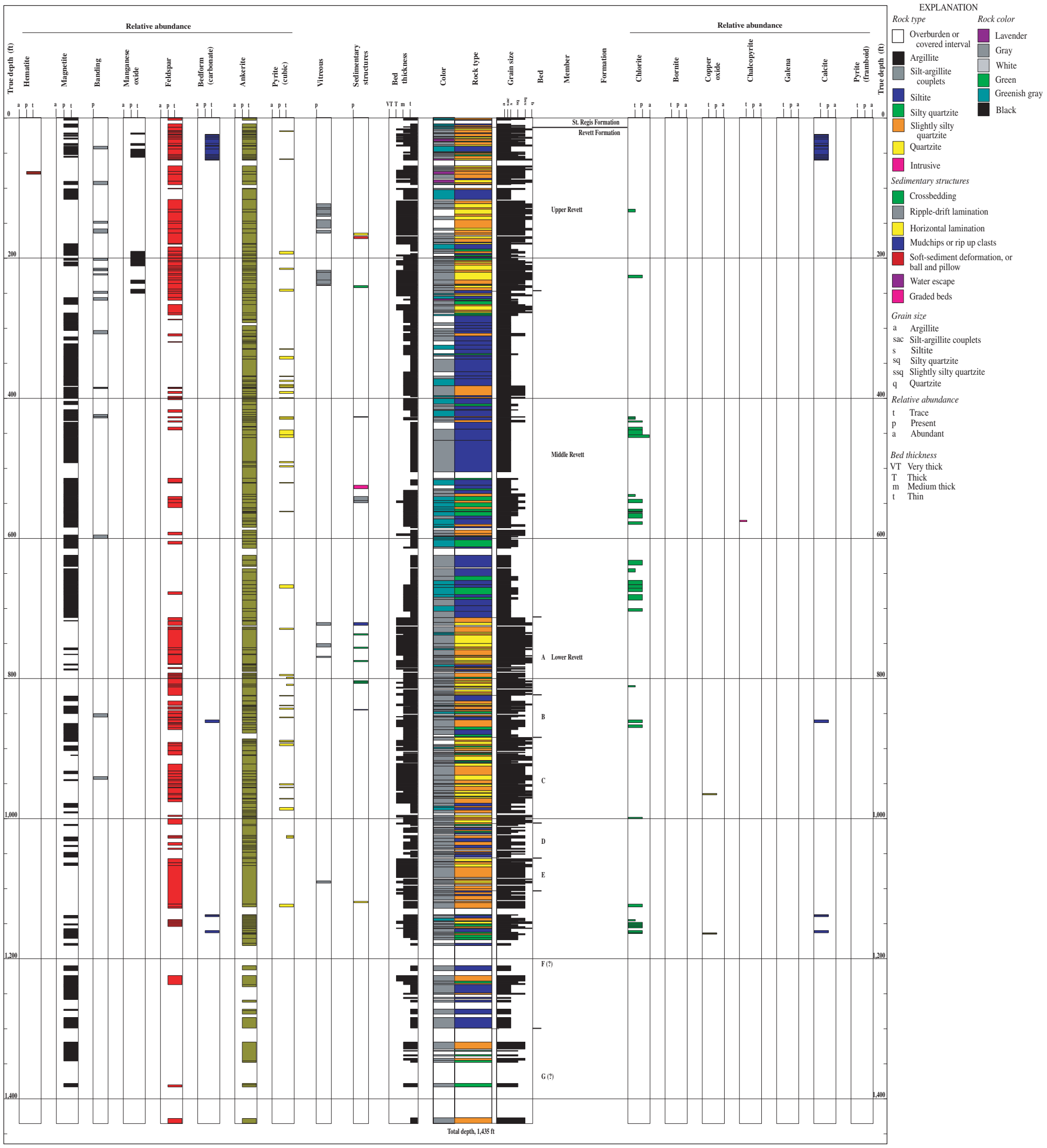
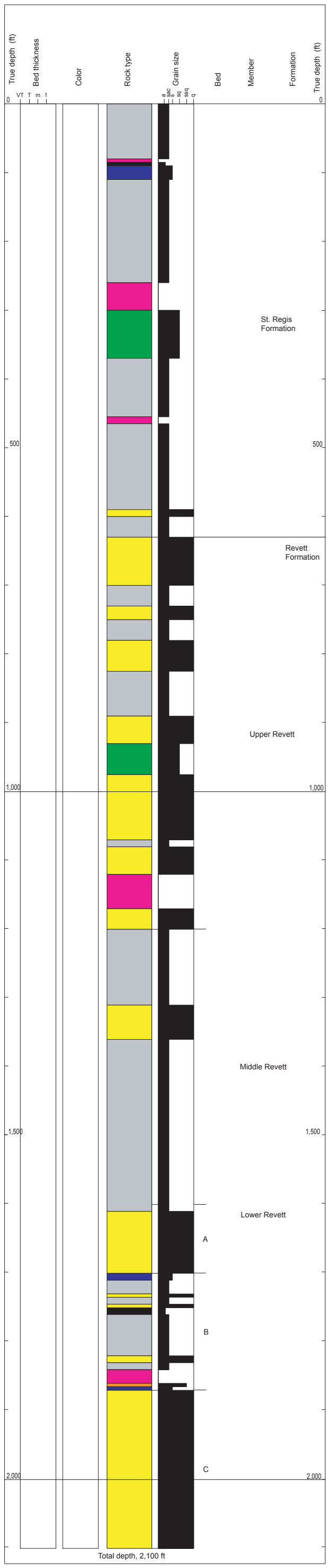


Figure A-63. Graves Creek Falls measured section

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



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

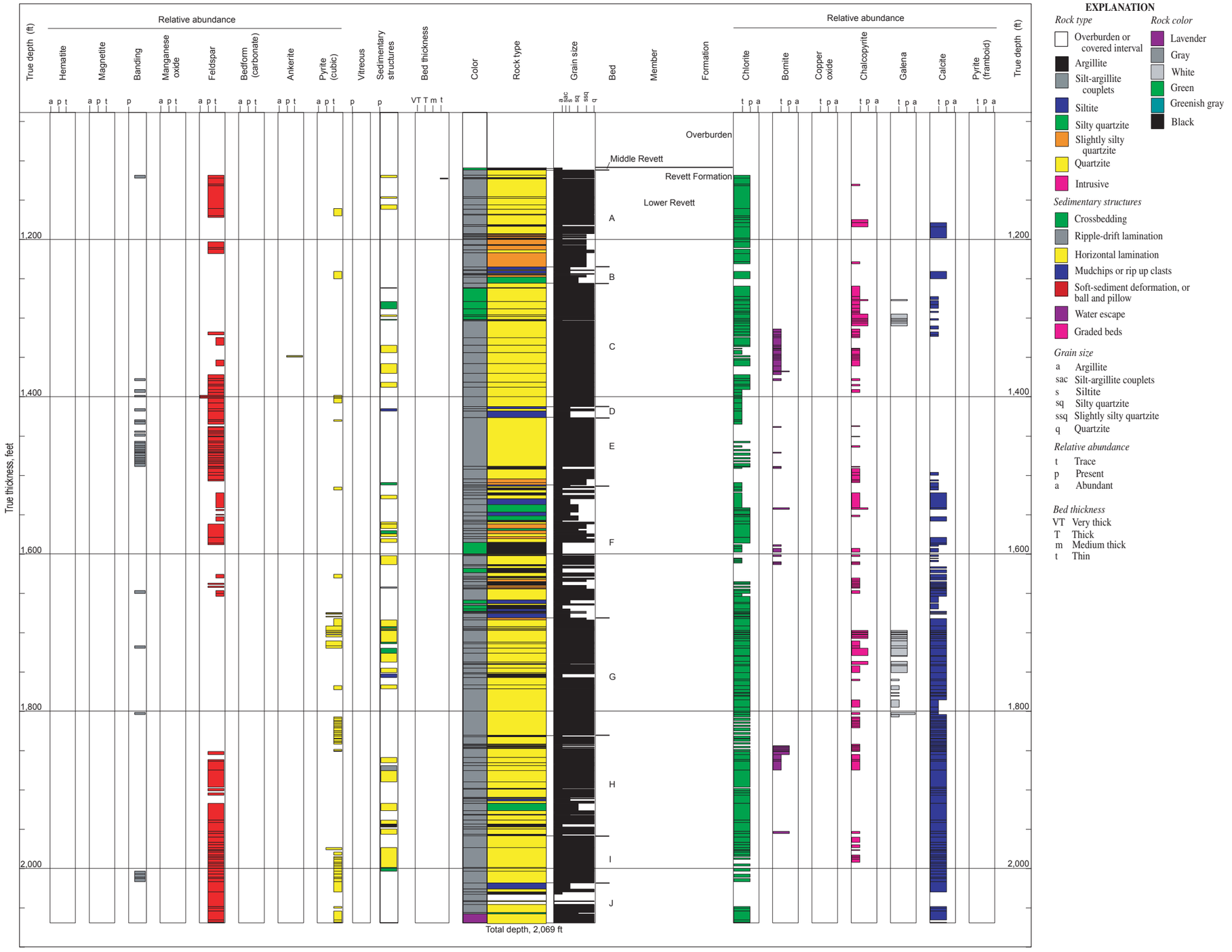
t Trace
p Present
a Abundant

Bed thickness

VT Very thick
T Thick
m Medium thick
t Thin

Figure A-64. Thompson River 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

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

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

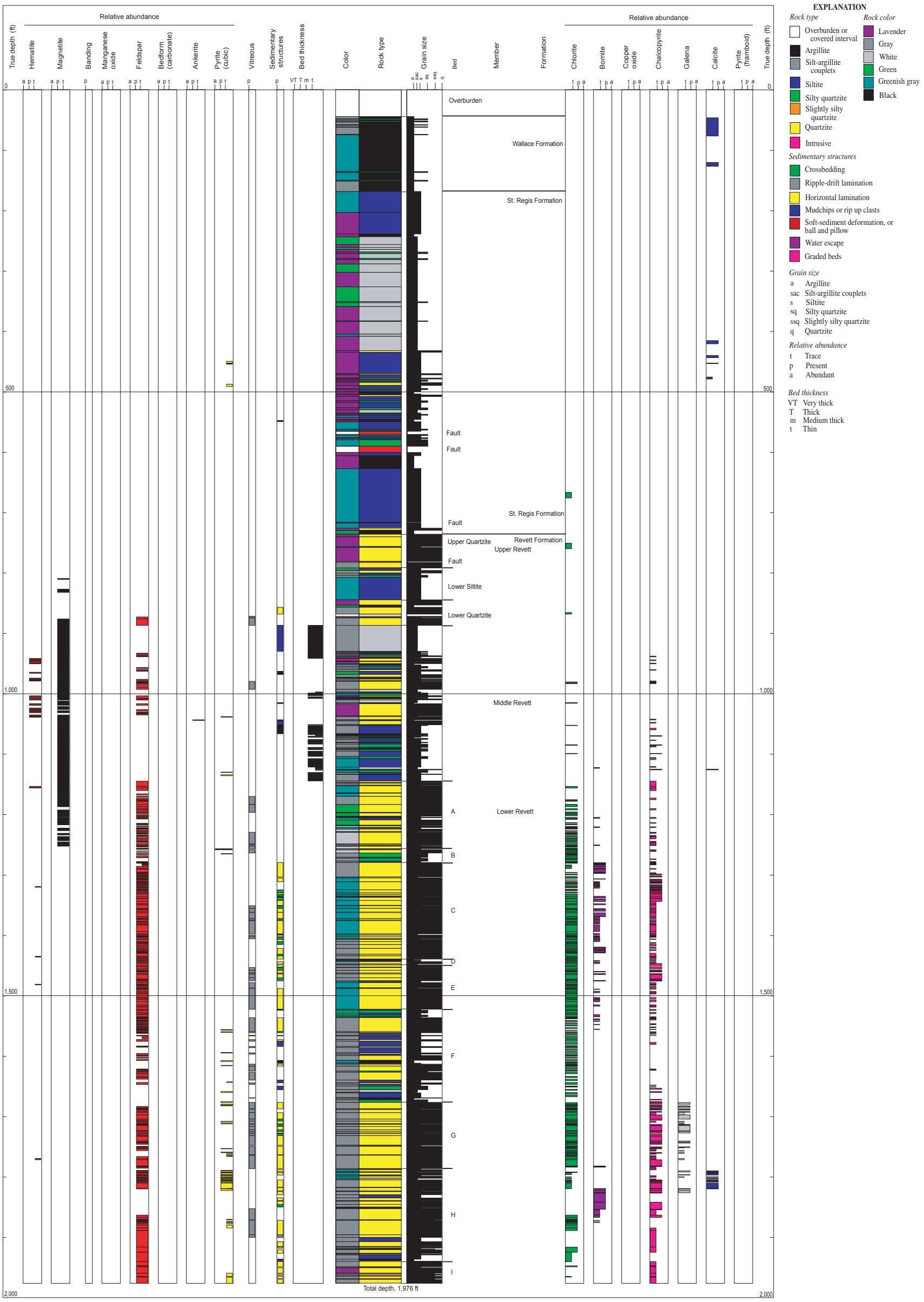


Figure A-66. DDH TC-8 (Trout Creek) diamond-drill-hole section

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

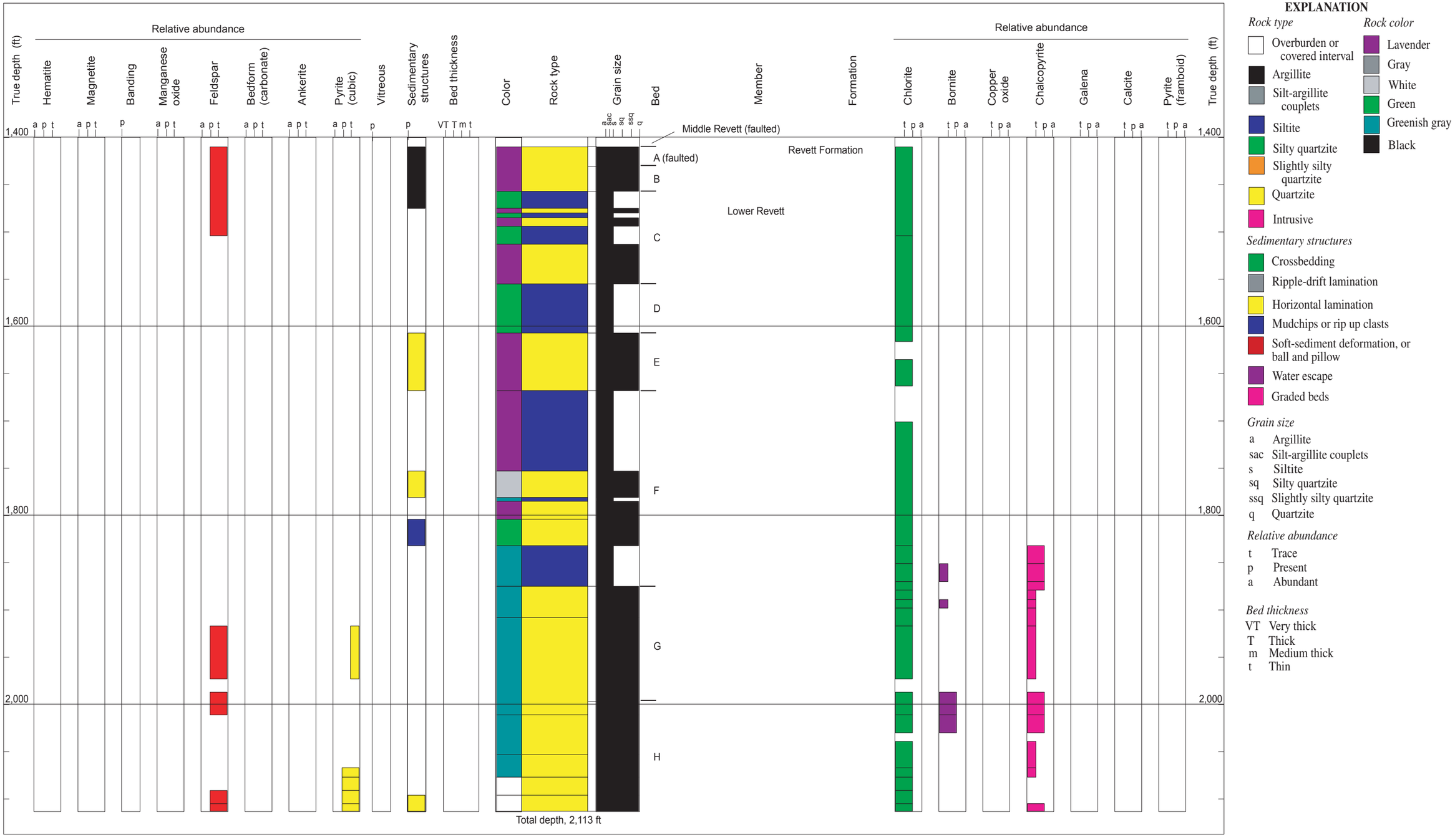
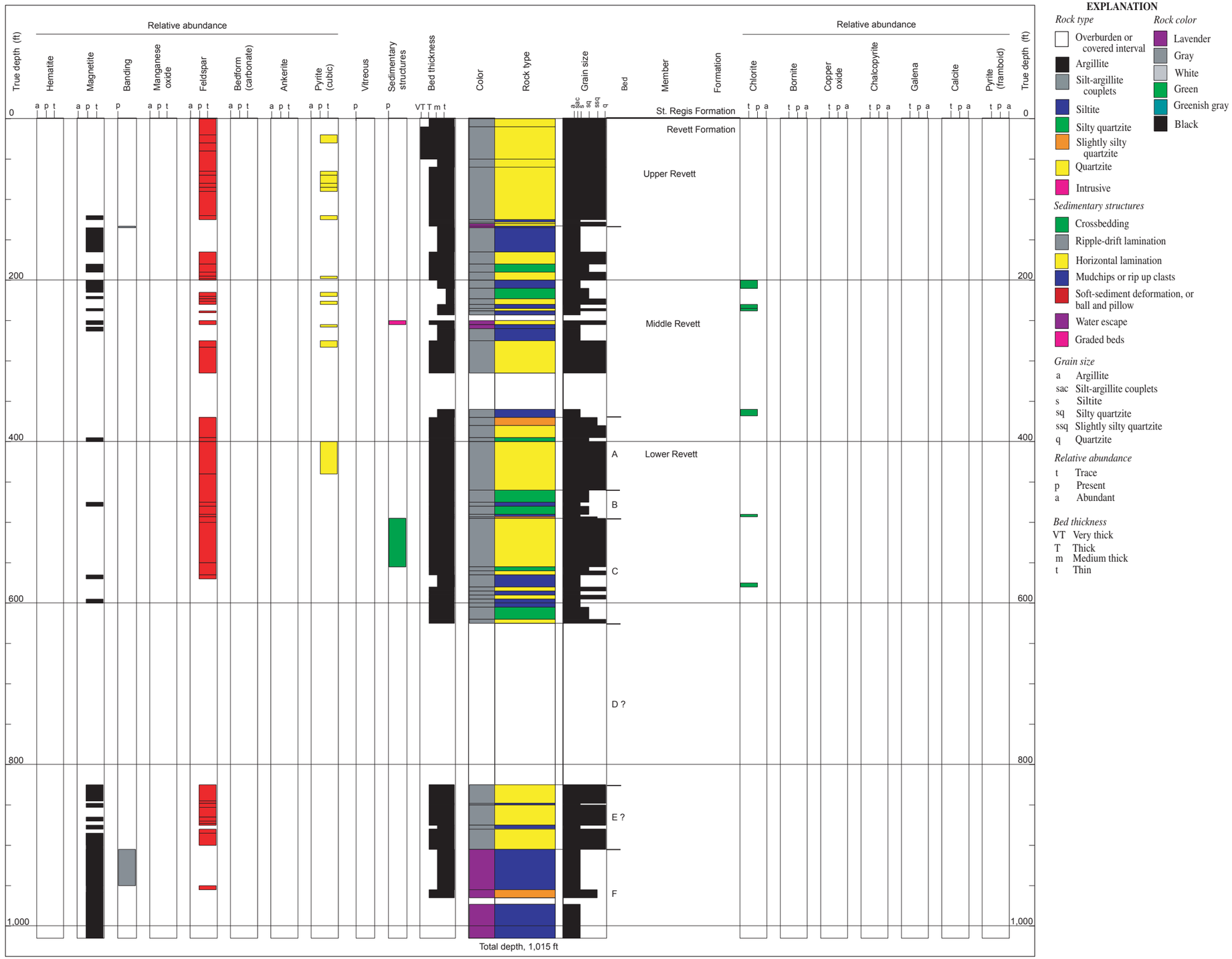


Figure A-67. DDH TC-10 (Trout Creek) diamond-drill-hole section

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

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-68. Trout Creek 1, 2 measured section

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

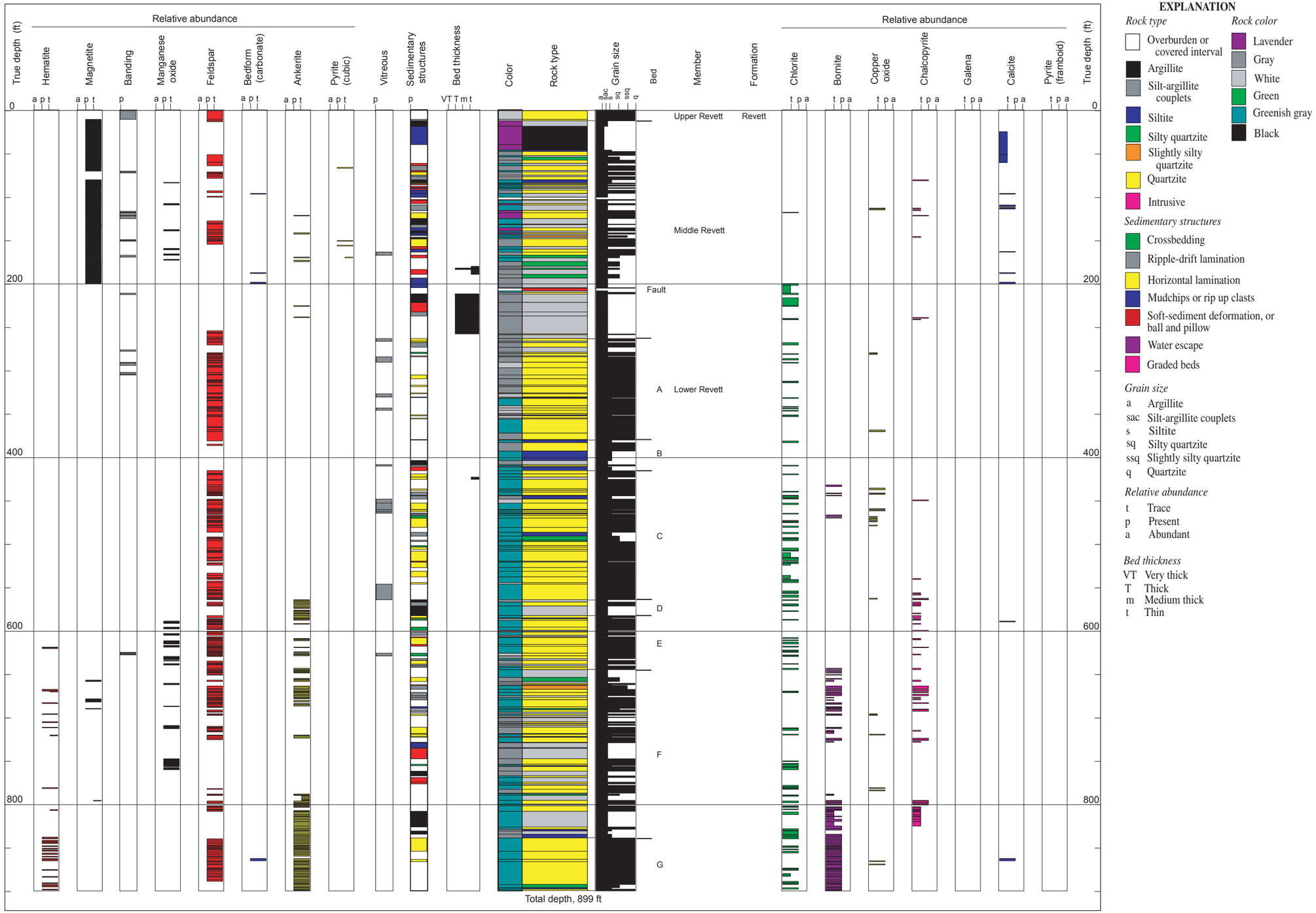


Figure A-69. DDH TC-7A (Trout Creek) diamond-drill-hole section

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

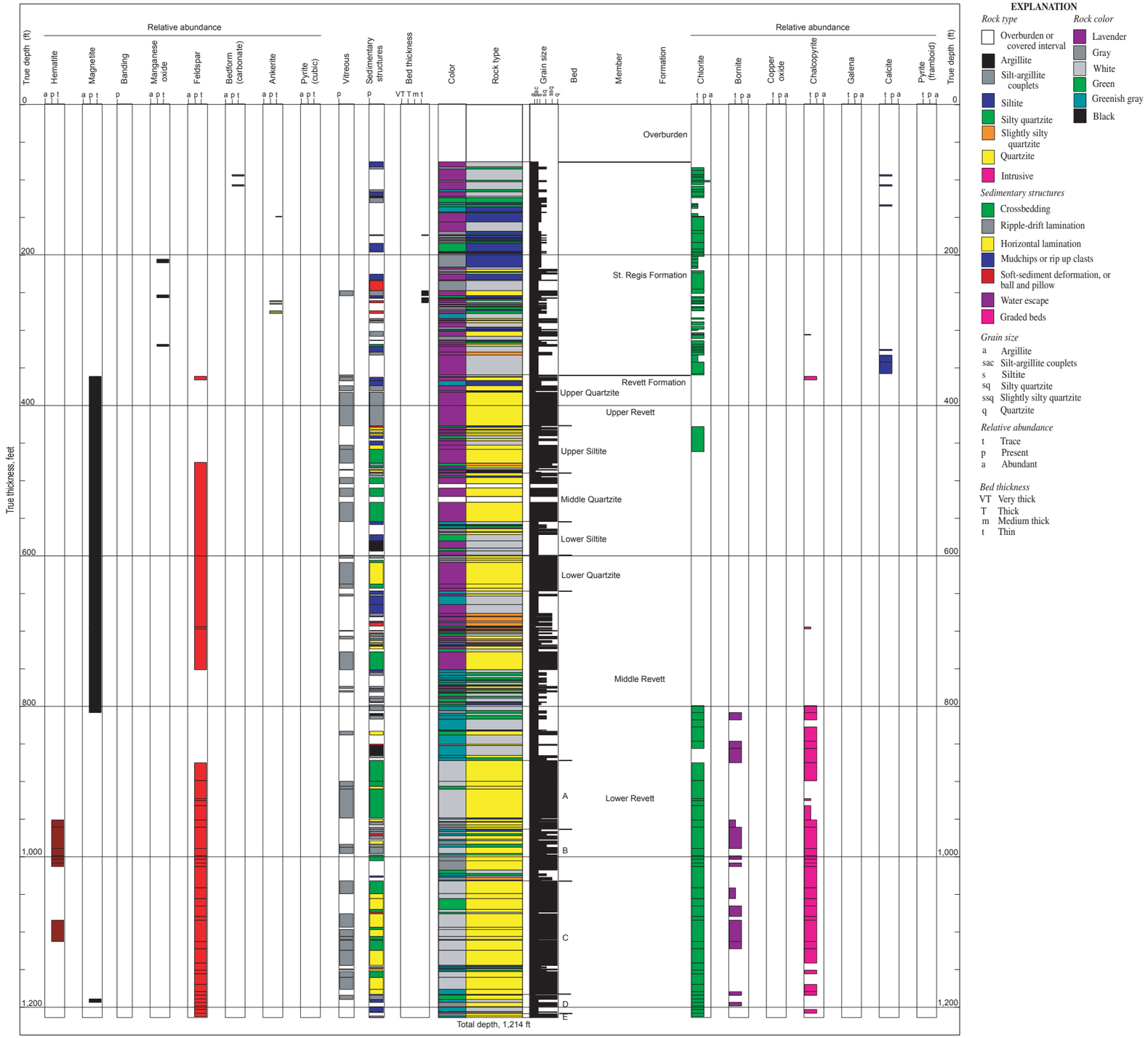


Figure A-71. DDH TC-5A (Trout Creek) diamond-drill-hole section

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

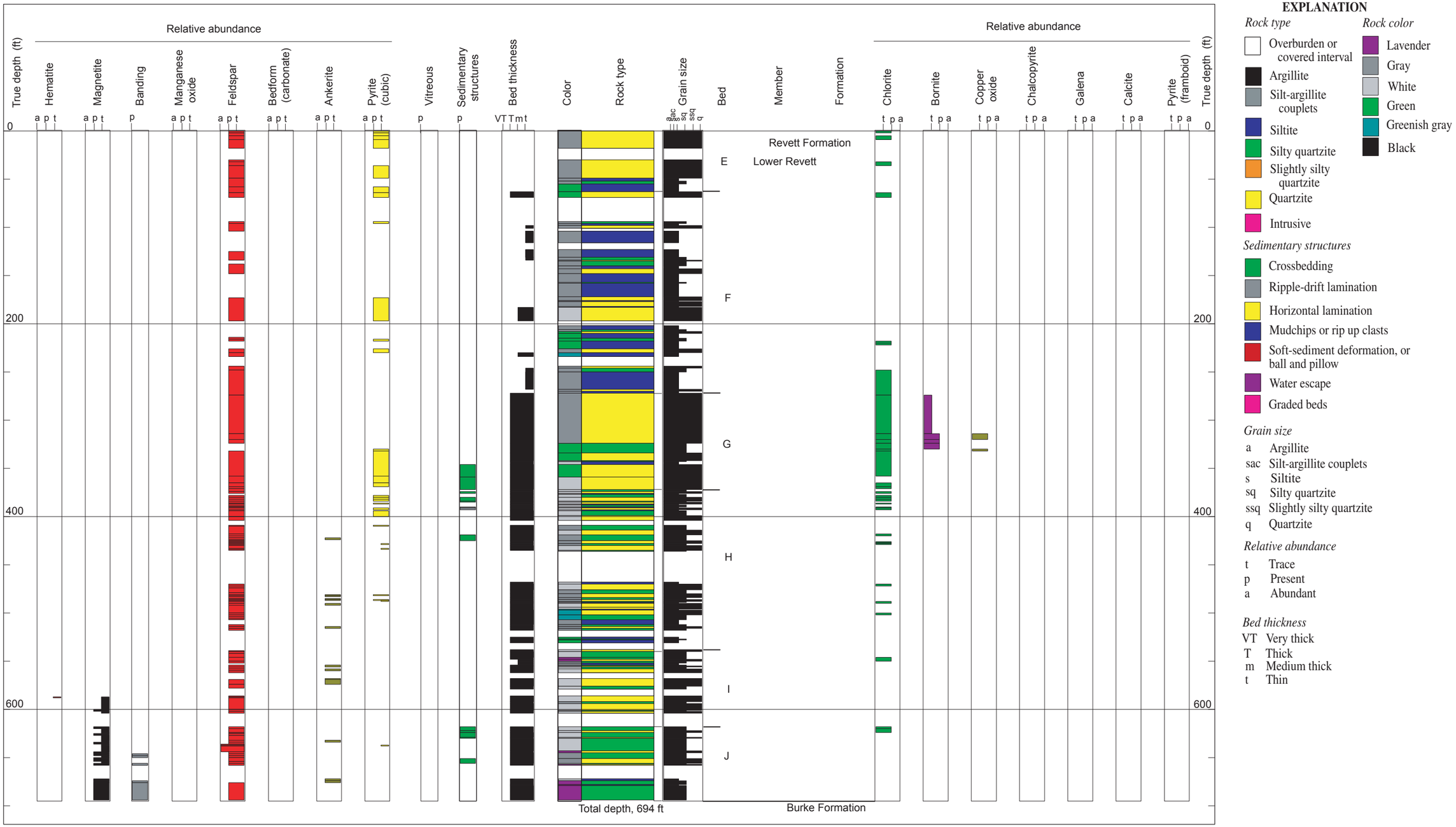


Figure A-72. West Fork of Trout Creek 1 measured section

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

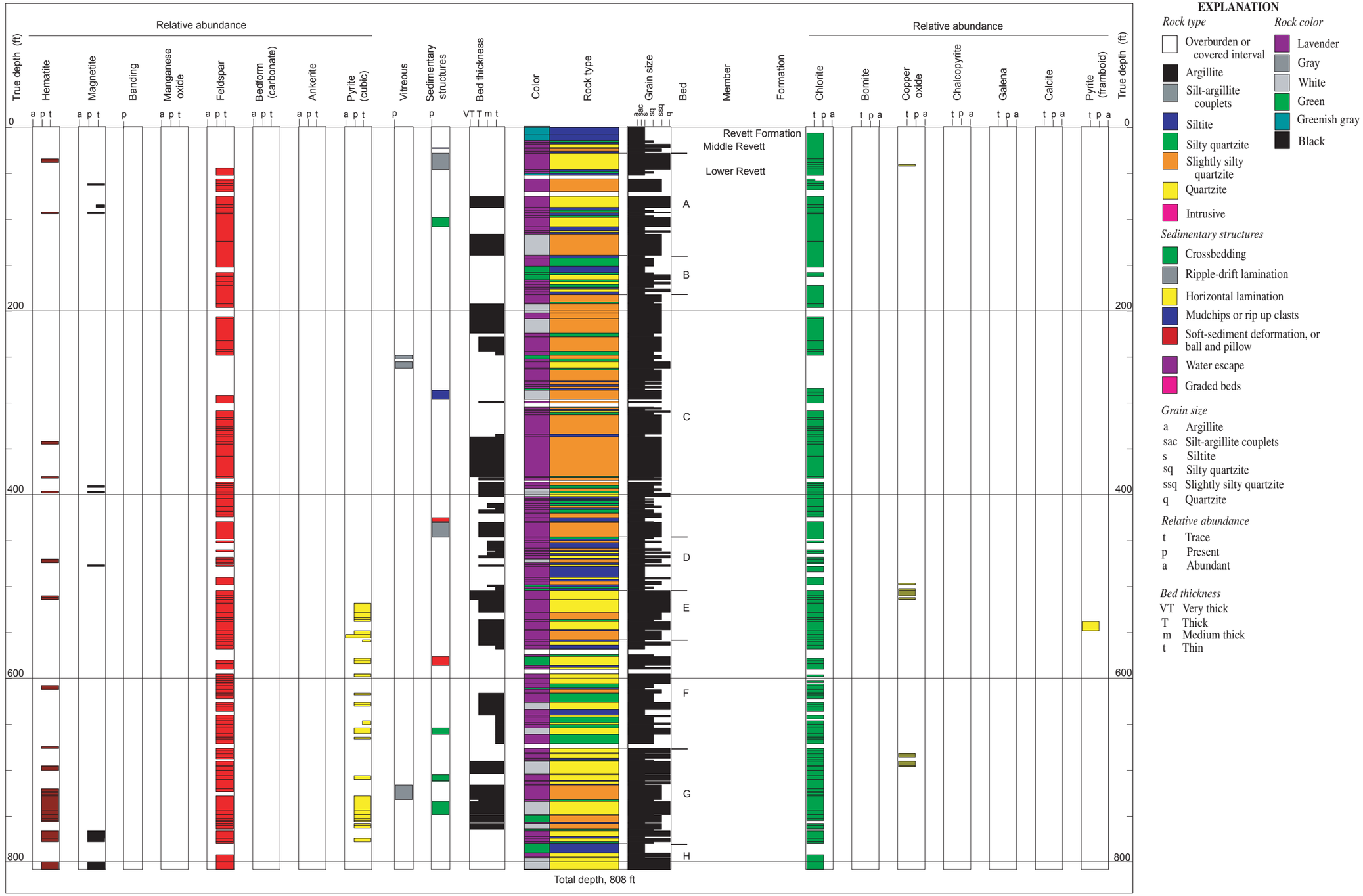
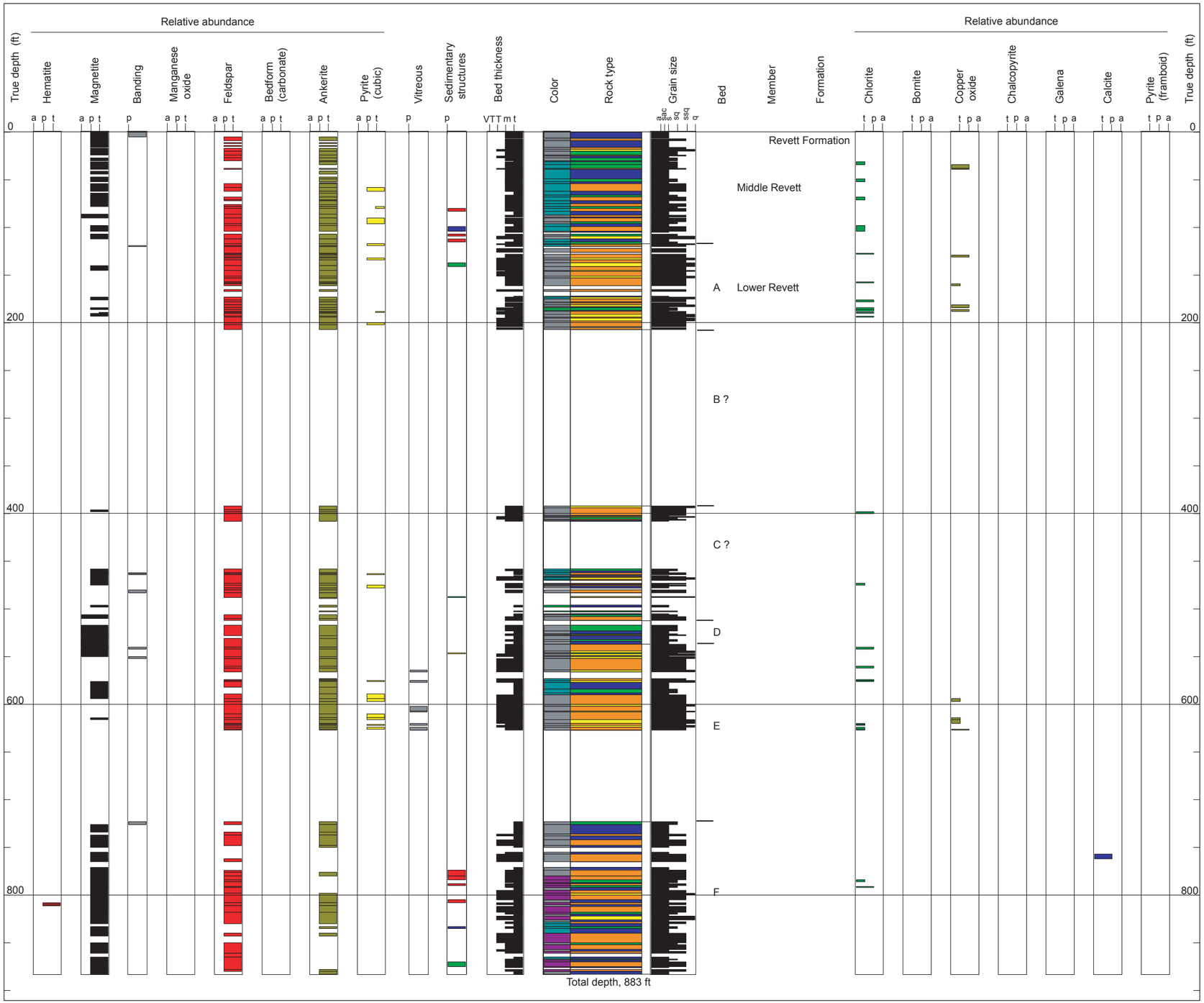


Figure A-73. West Fork of Trout Creek 2 measured section

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

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-74. Windfall Peak measured section

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

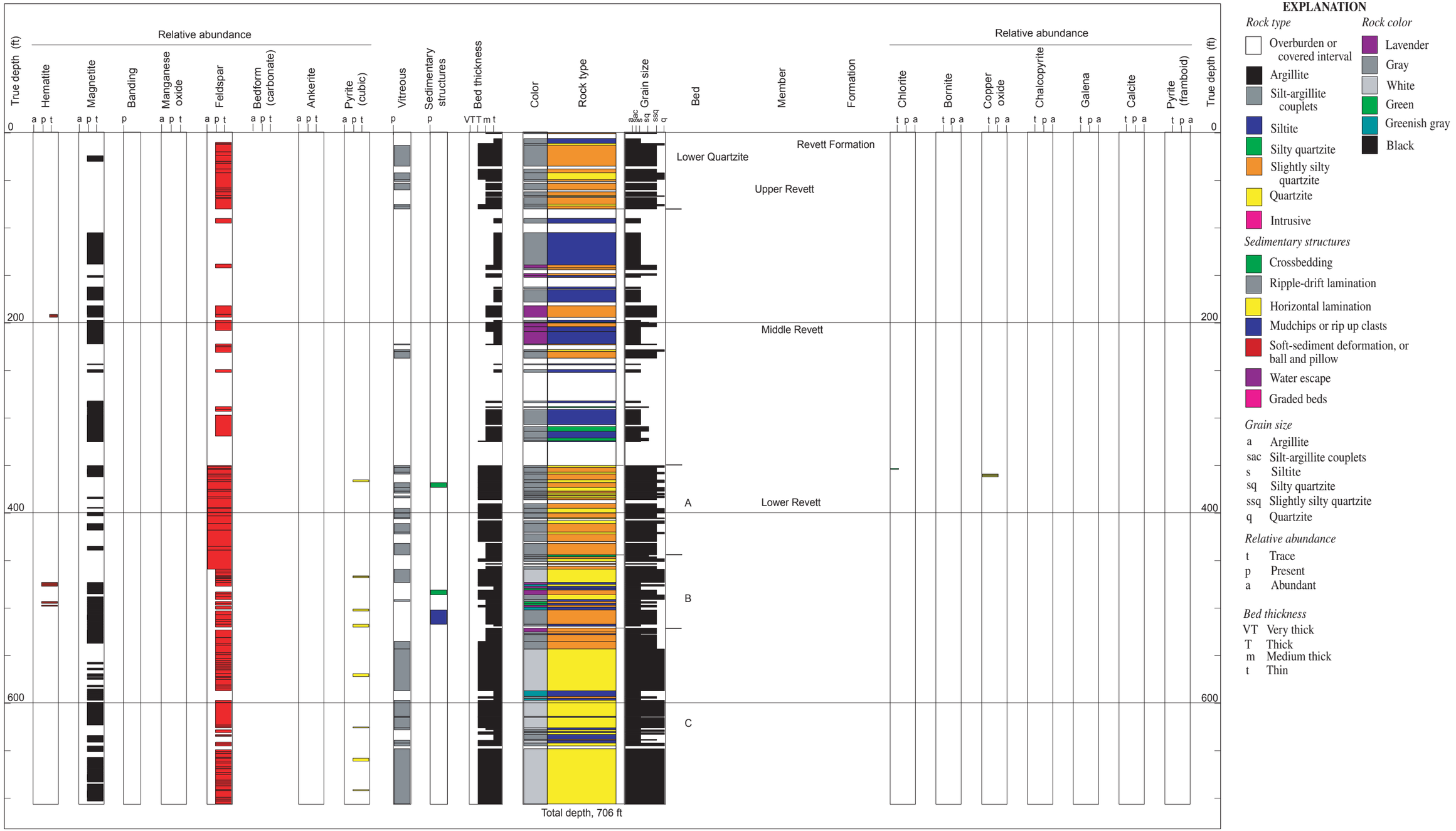


Figure A-75. White Pine Creek 2, 3, 4 measured section

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

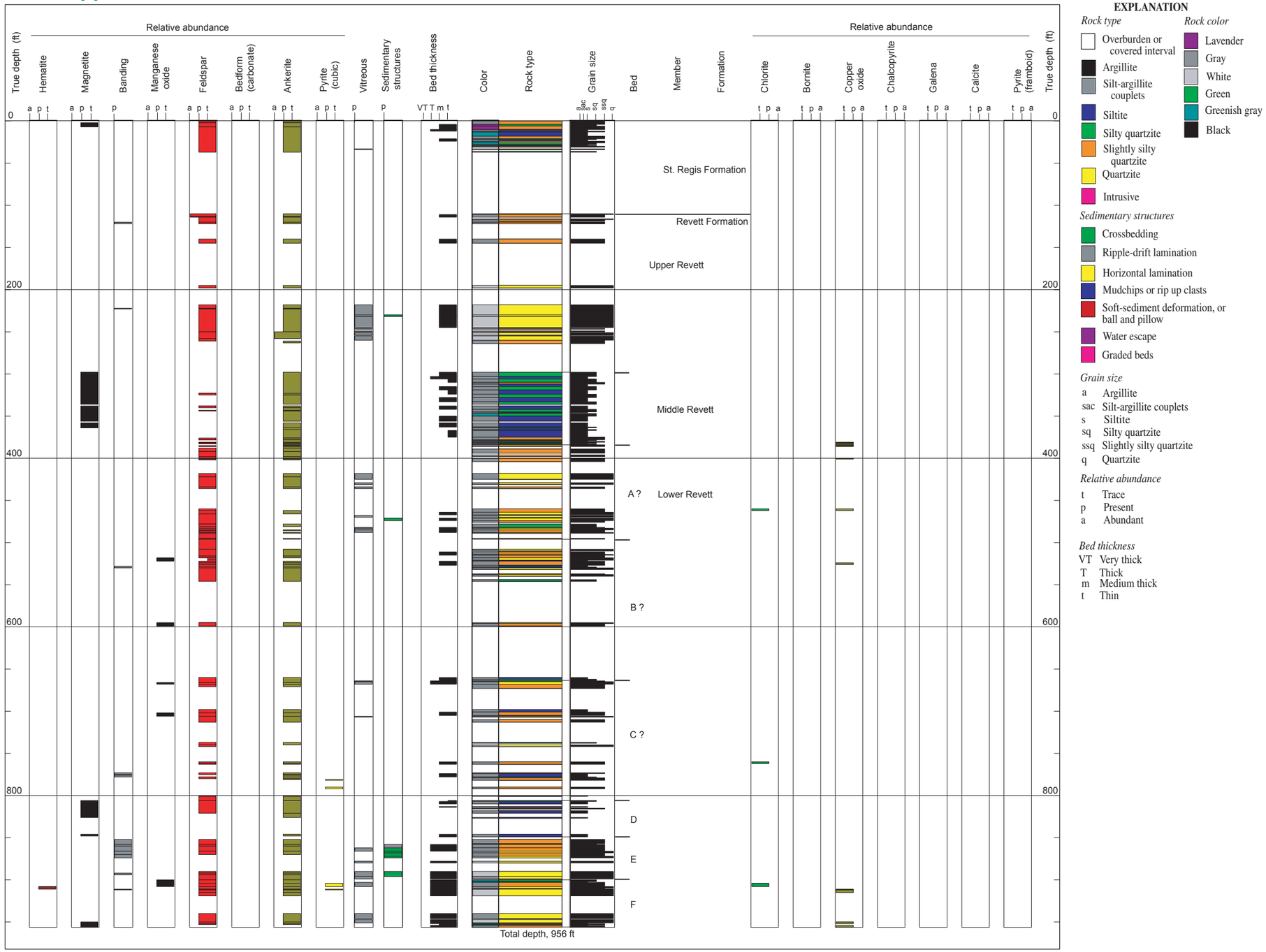
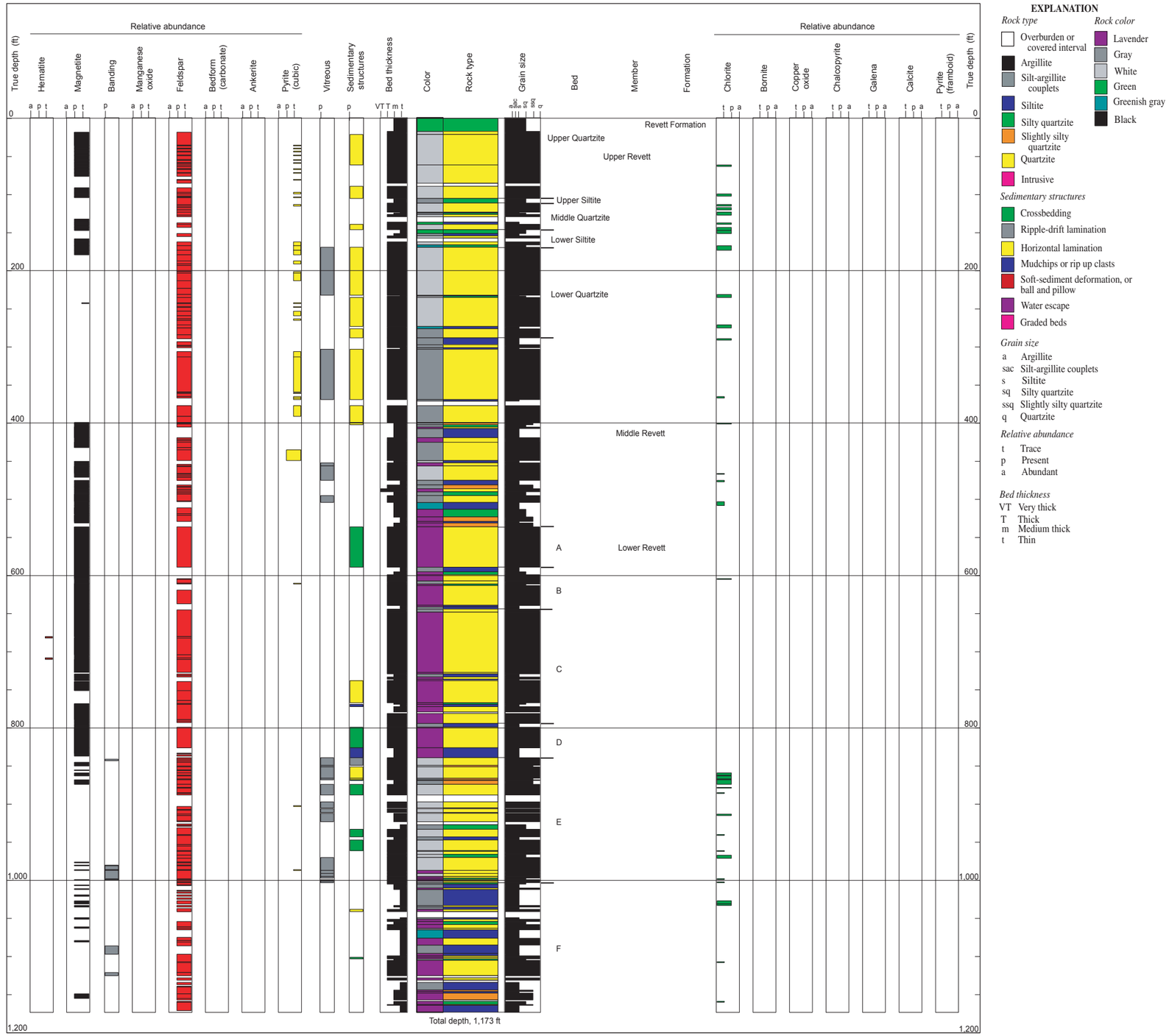


Figure A-76. Ripper Creek measured section

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

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

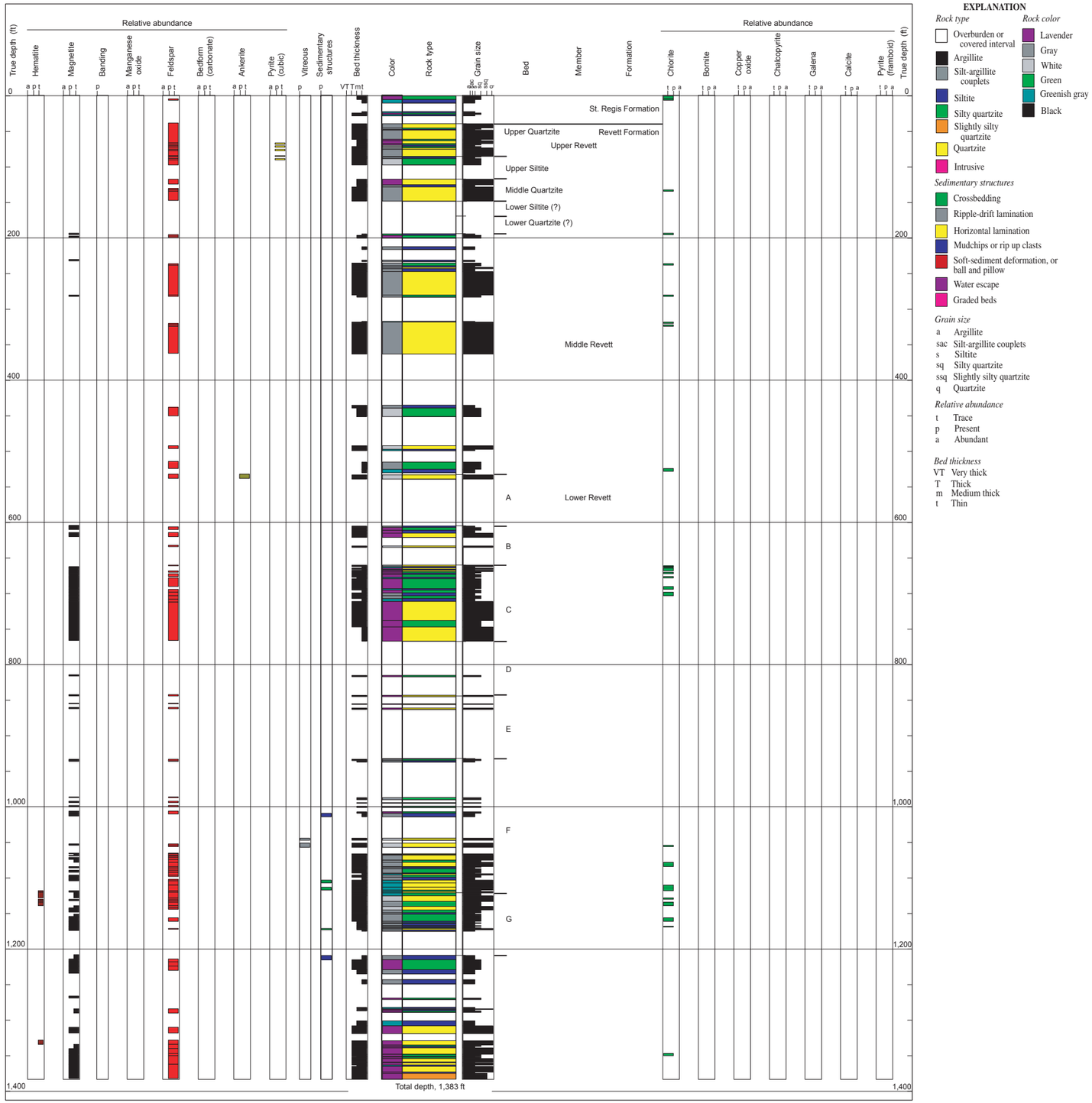
- t Trace
- p Present
- a Abundant

Bed thickness

- VT Very thick
- T Thick
- m Medium thick
- t Thin

Figure A-77. Miller Gulch (Sex Peak) 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

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-78. Beaver Creek Road measured section

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

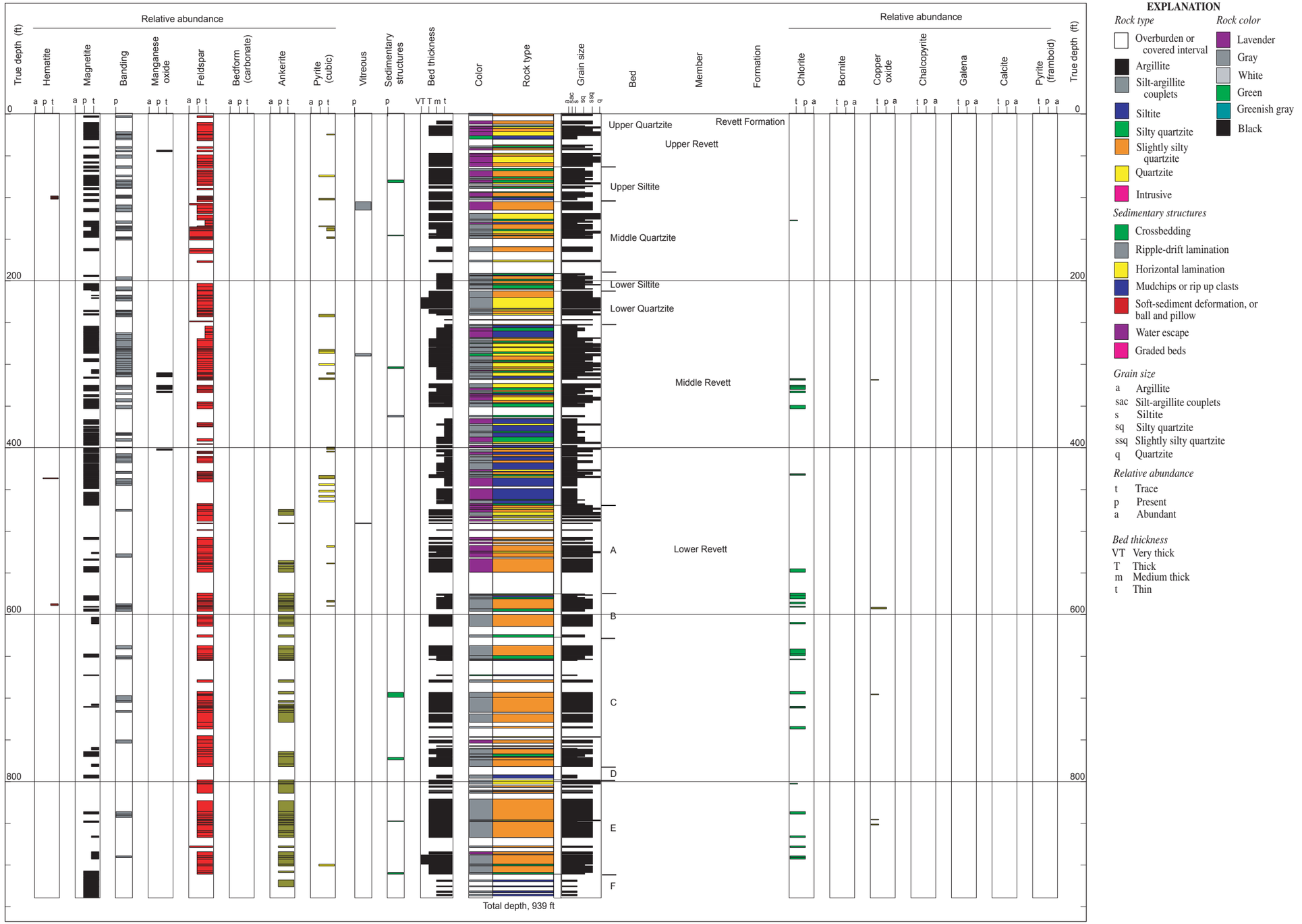


Figure A-79. Little Beaver Creek measured section

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

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SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-80

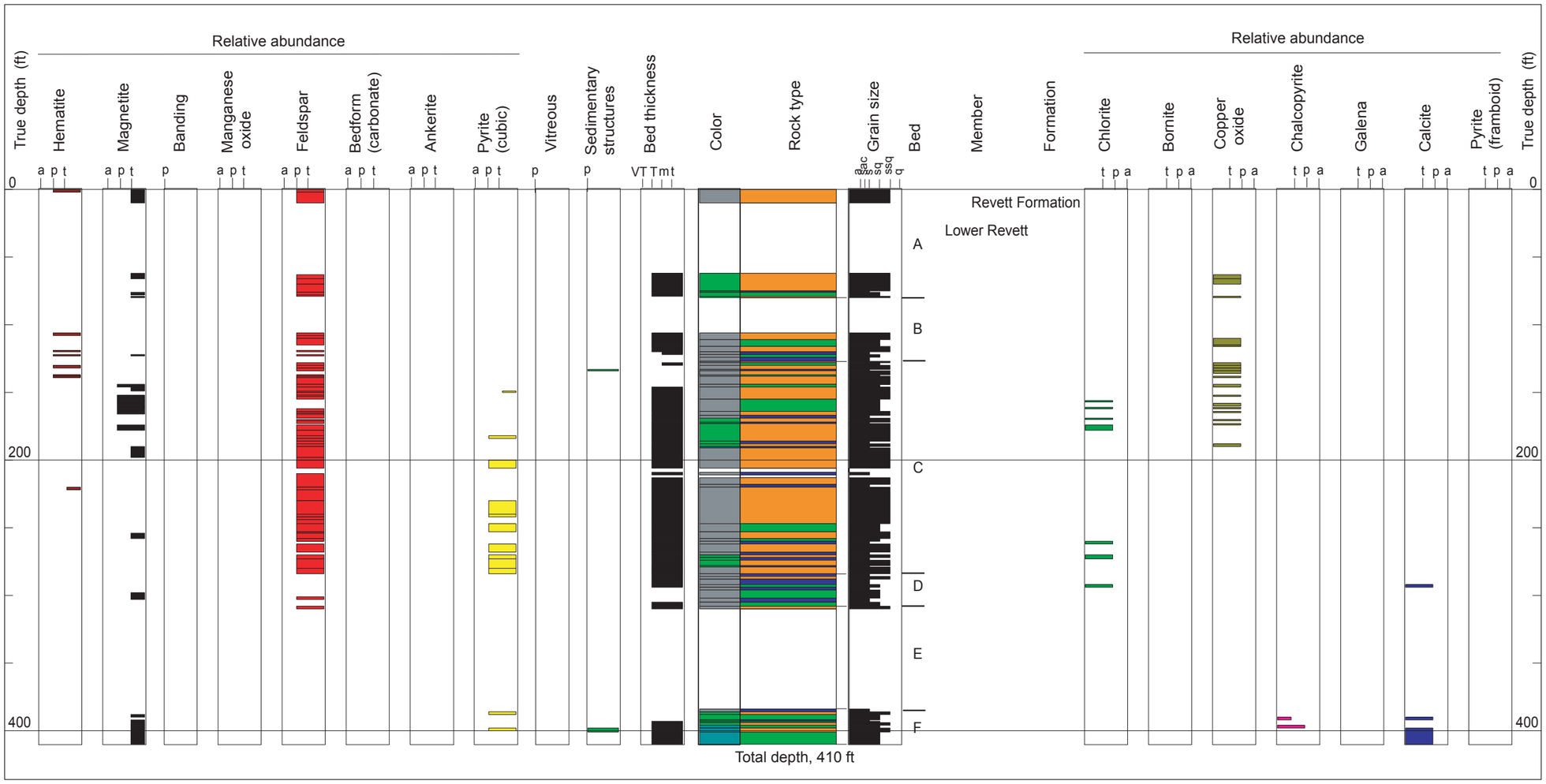


Figure A-80. Clear Peak (Asarco) measured section

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

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

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

SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-81

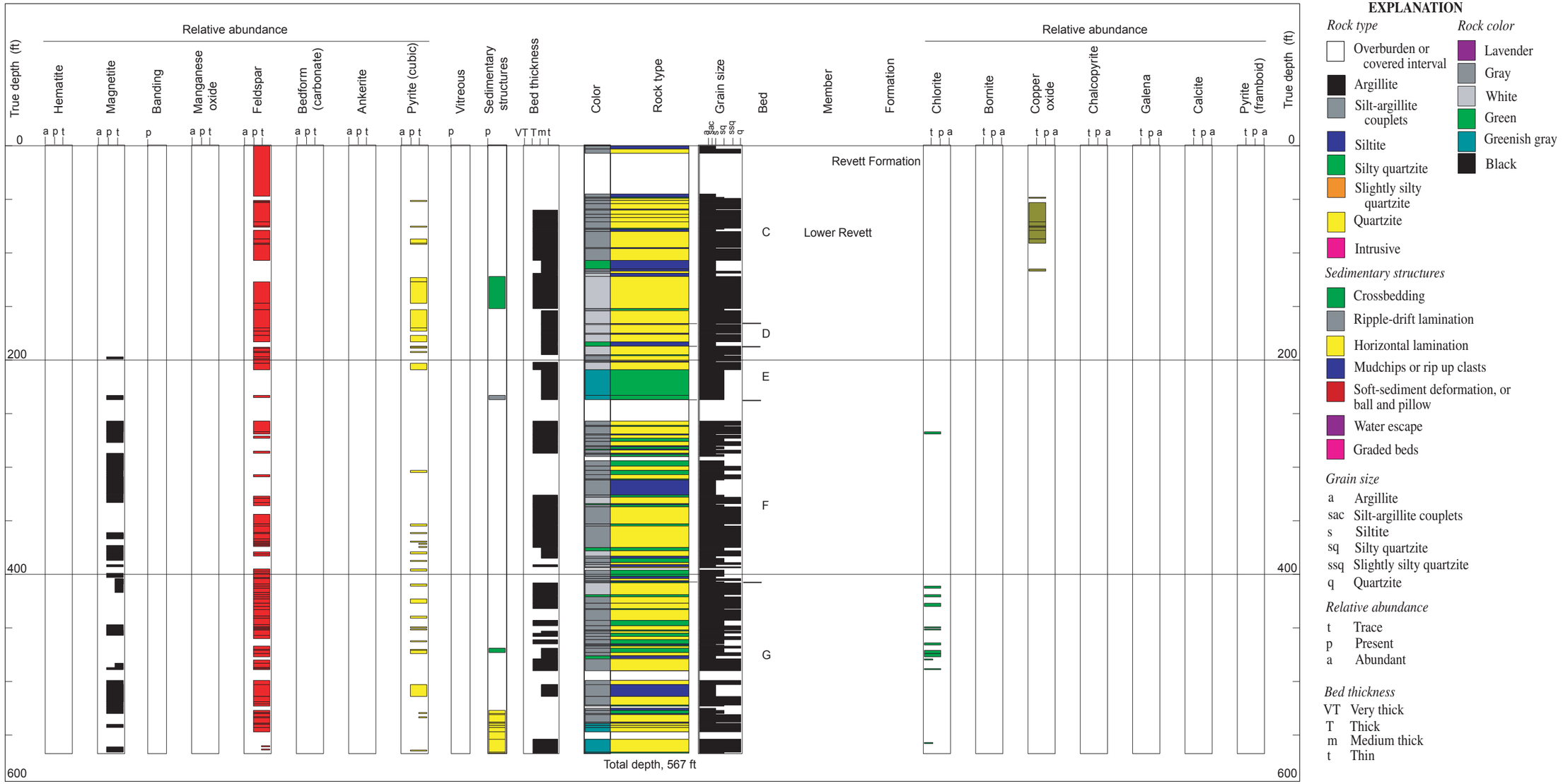


Figure A-81. Beaver Peak North measured section

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

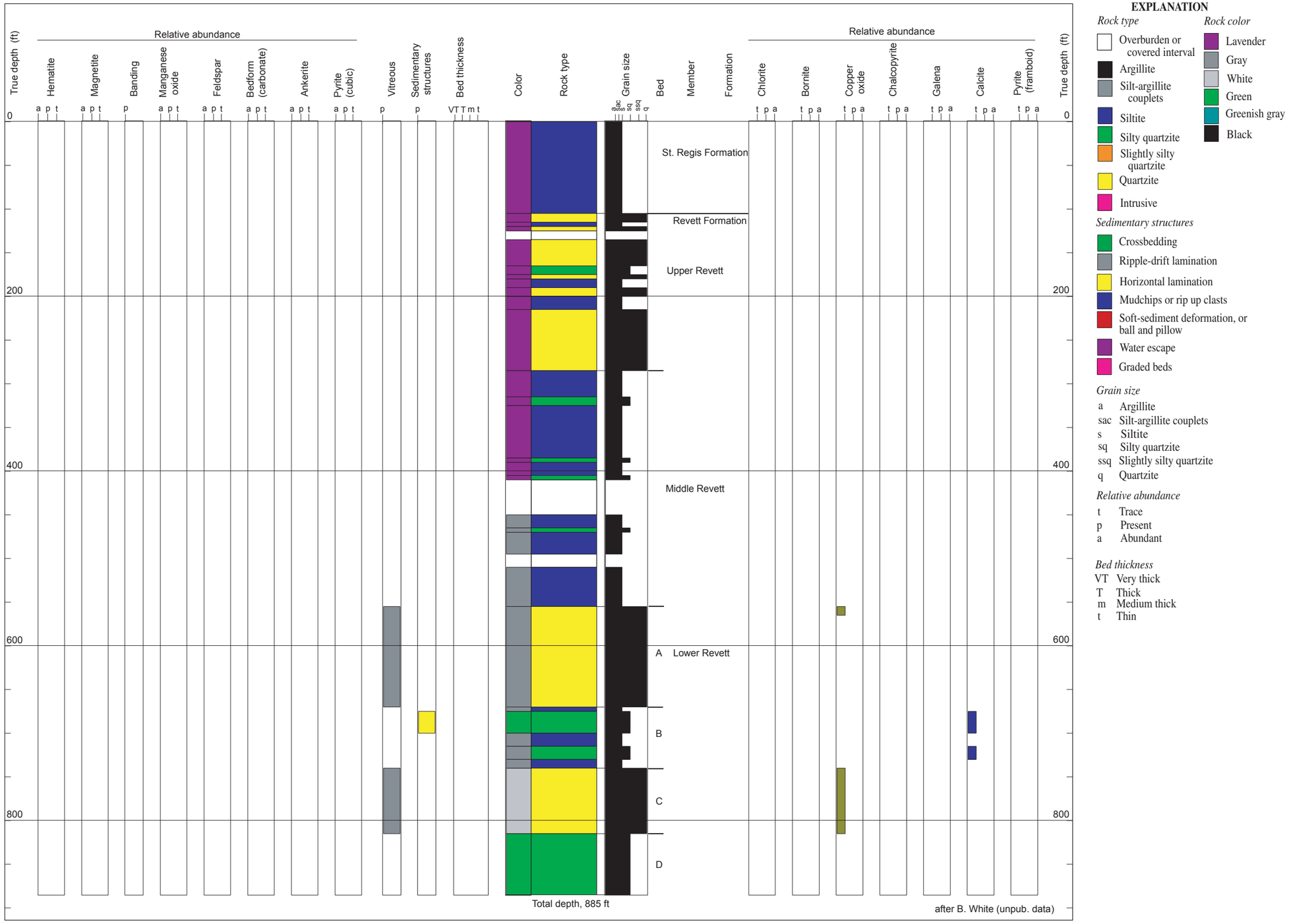


Figure A-82. Clear Peak (White) measured section

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

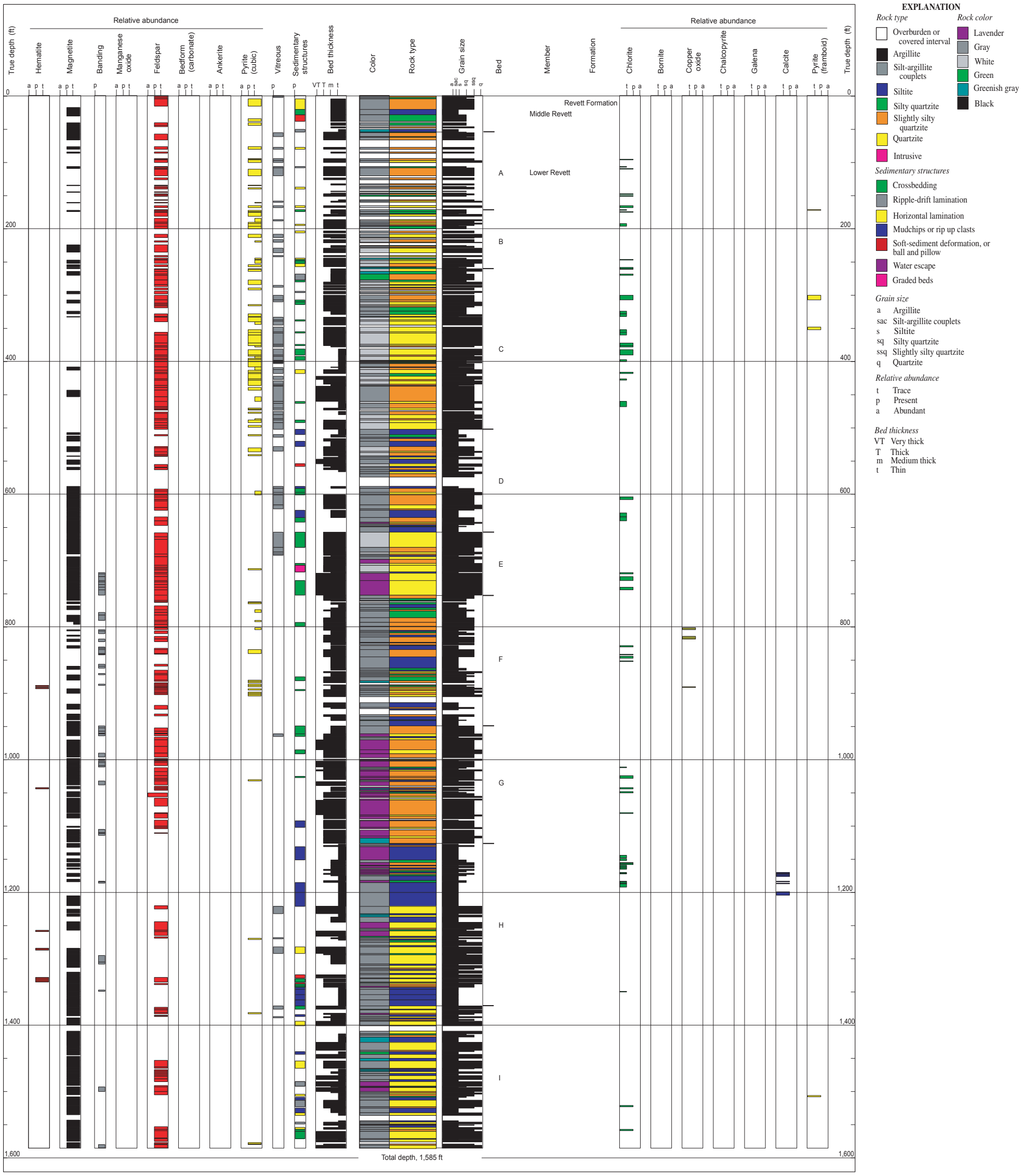


Figure A-83. Beaver Lake 1, 2 measured section

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

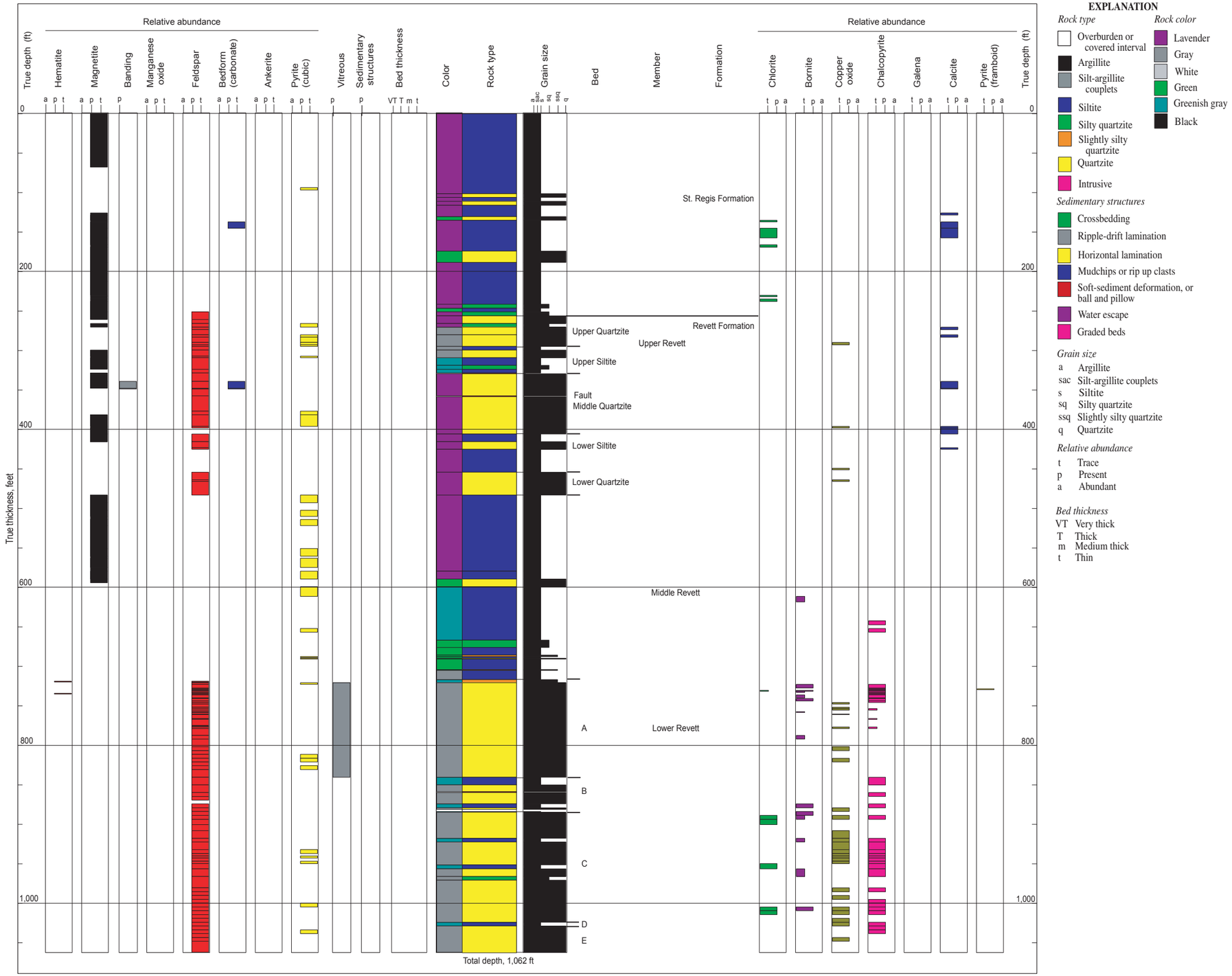


Figure A-84. DDH CP-5 (Clear Peak) diamond-drill-hole section

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

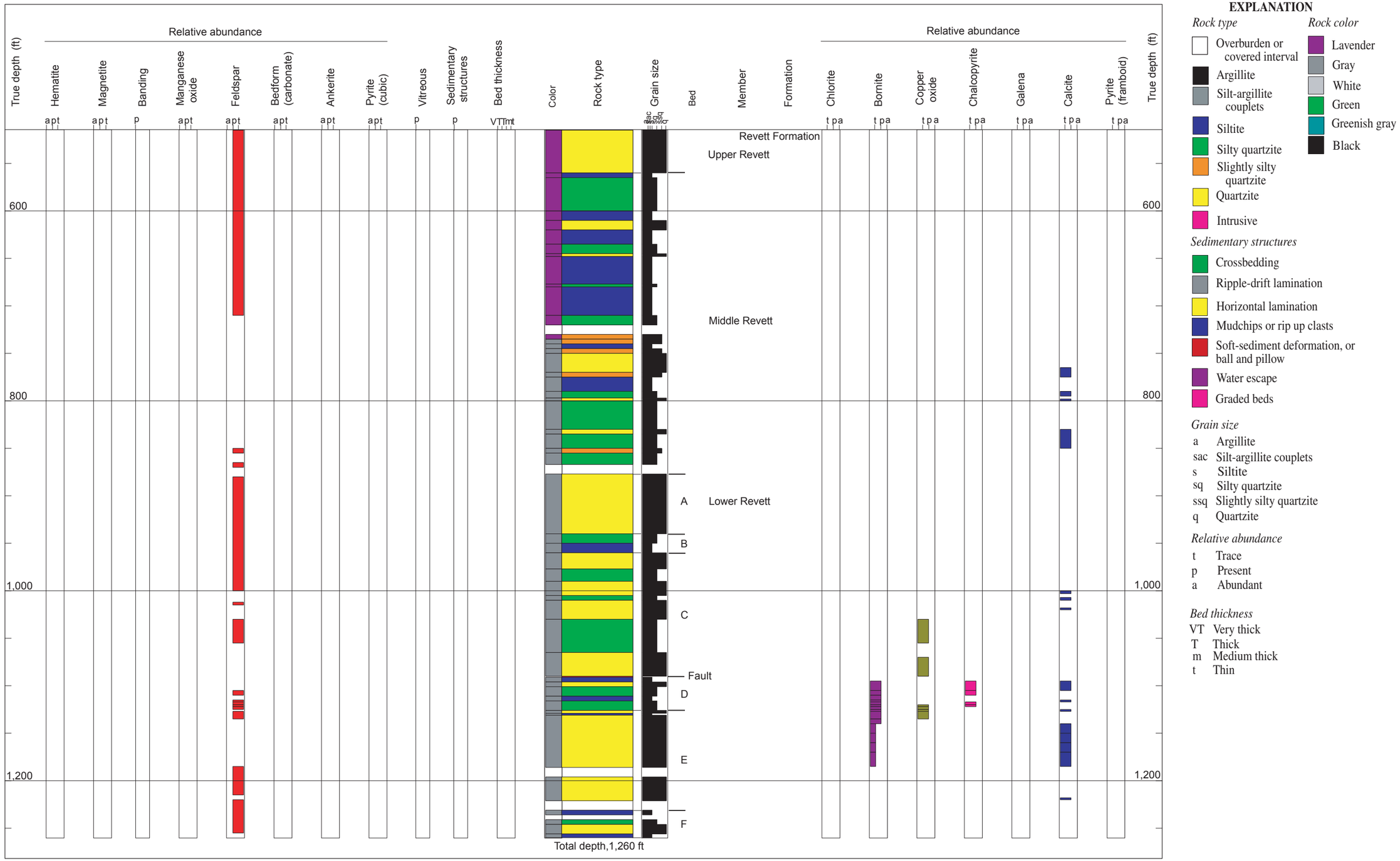
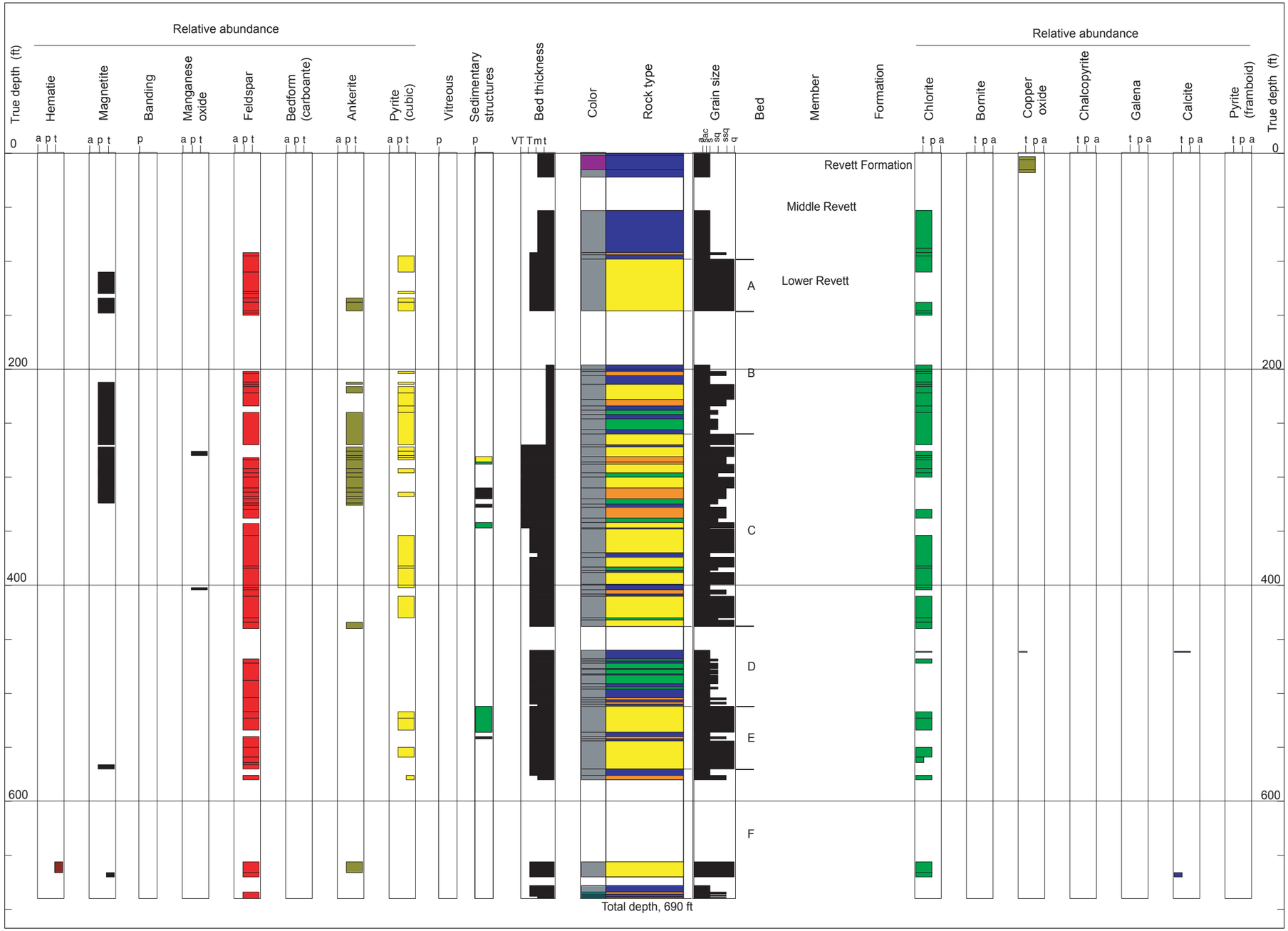


Figure A-85. DDH CP-4 (Clear Peak) diamond-drill-hole section

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

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-86. Twentyfour Mile Creek (Clear Peak 1) measured section

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

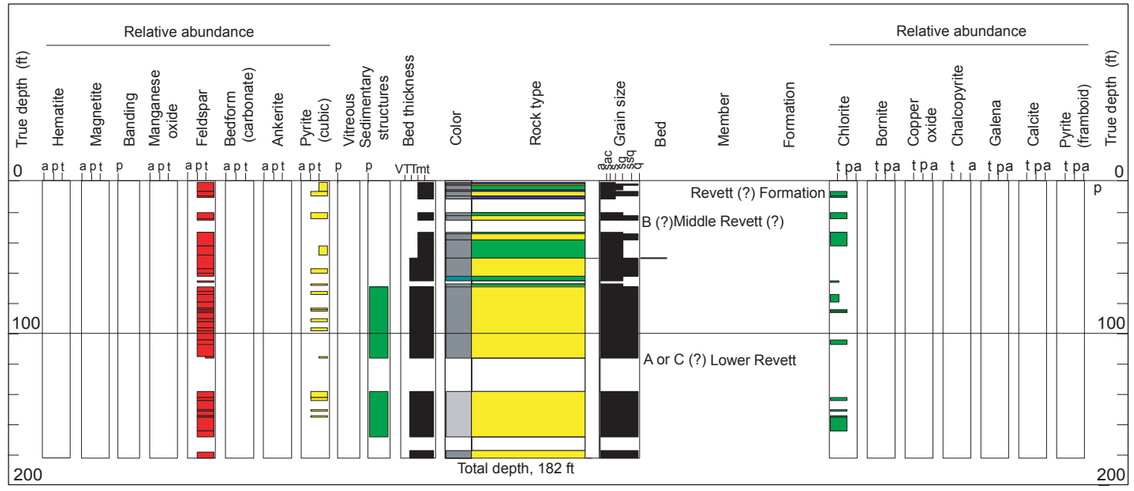


Figure A-87. Janstan measured section

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

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

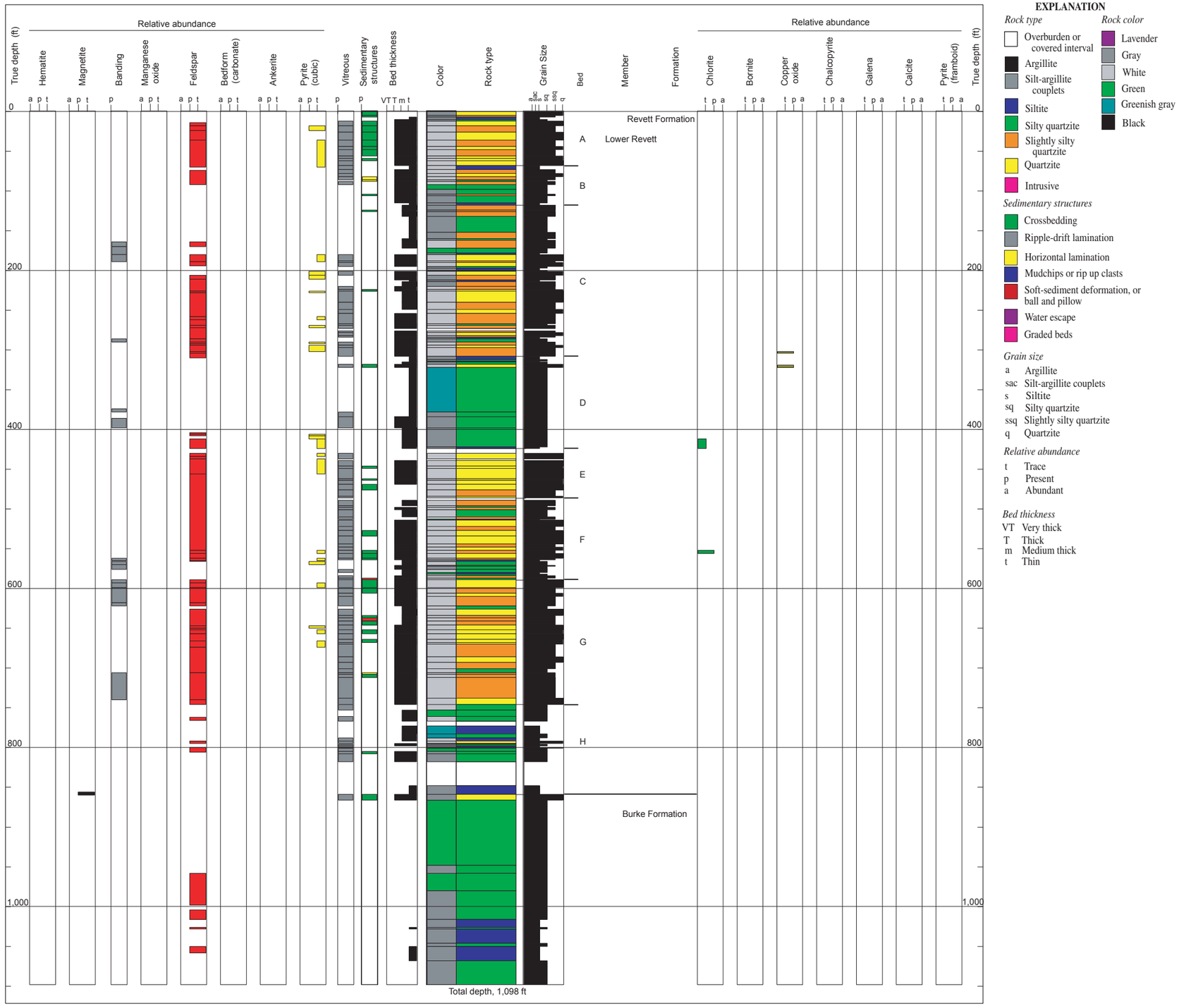


Figure A-88. West Fork of Crow Creek measured section

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

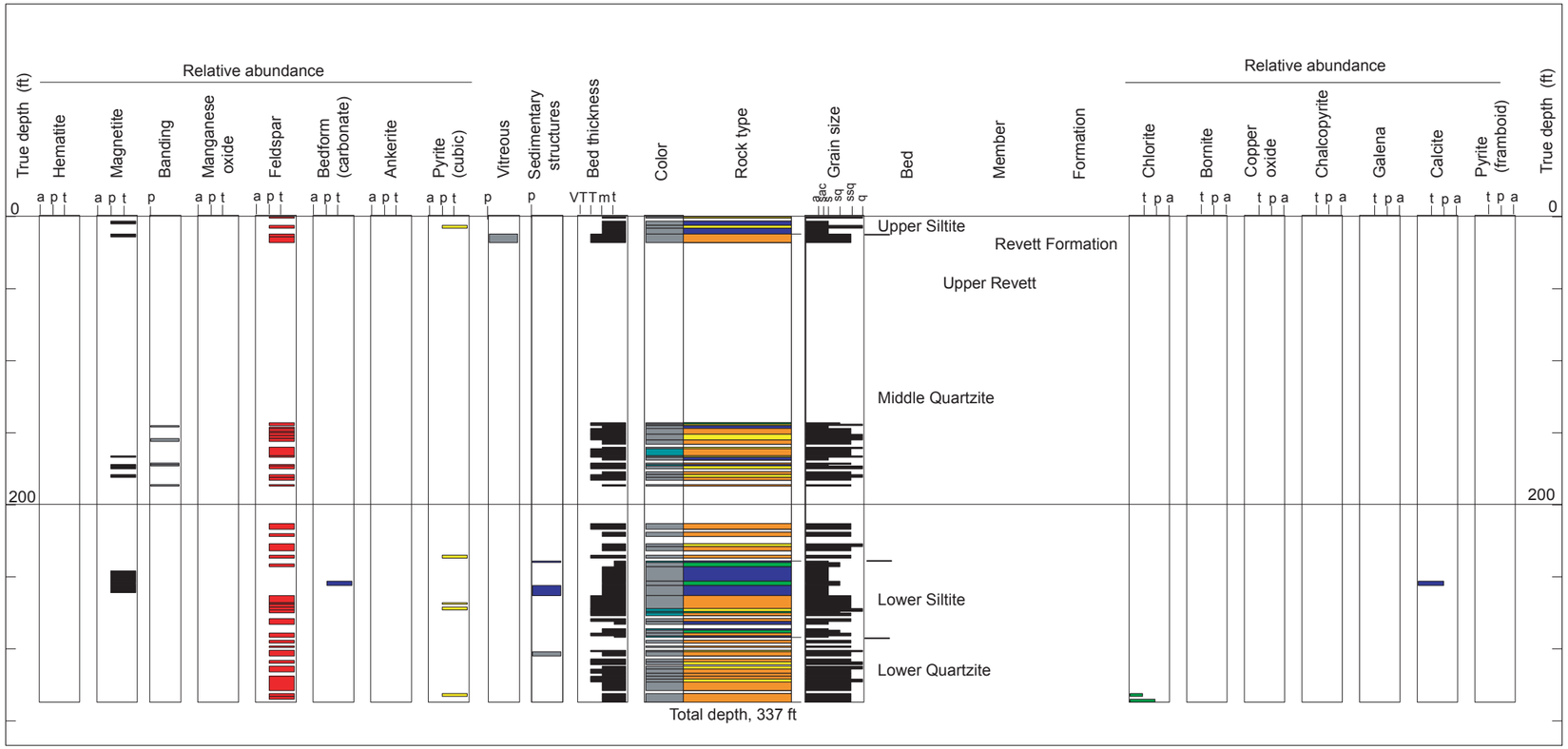


Figure A-89. Spokane Creek measured section

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

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

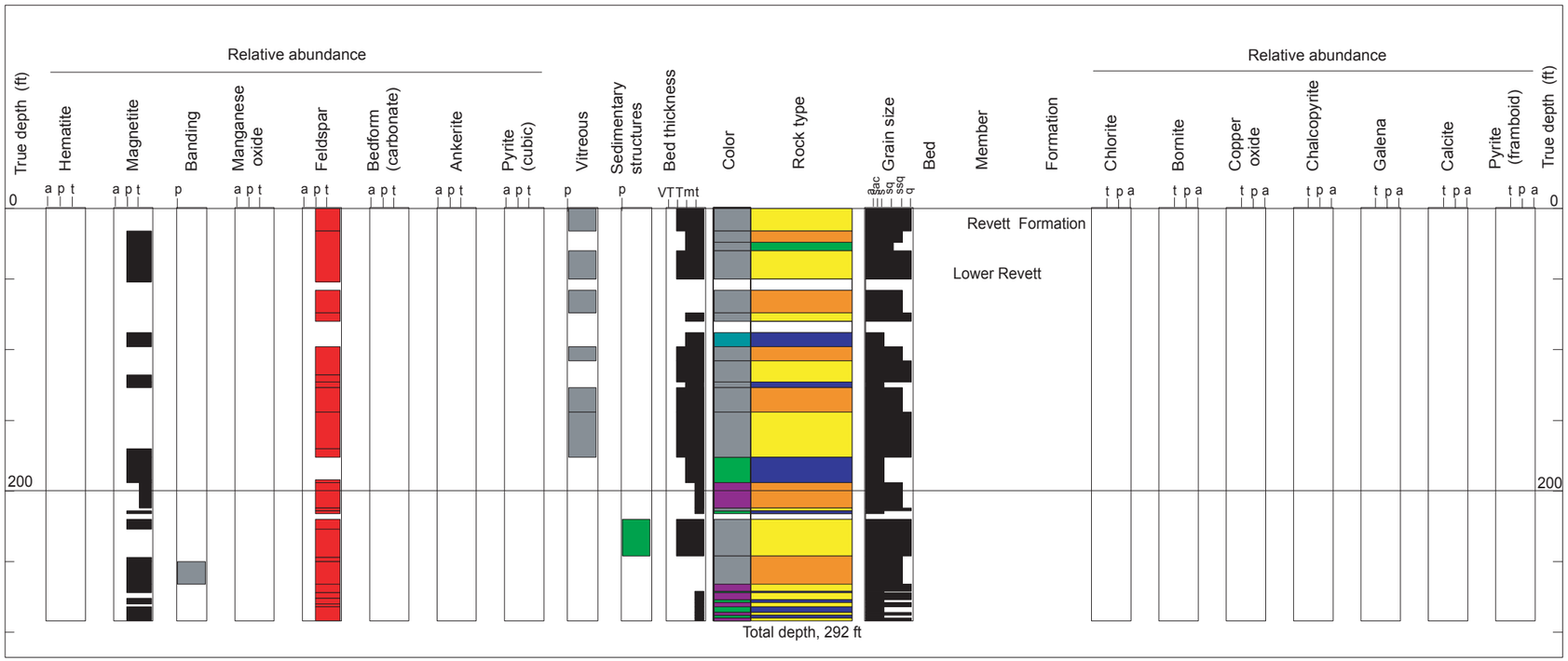
a	Argillite
sac	Silt-argillite couplets
s	Siltite
sq	Silty quartzite
ssq	Slightly silty quartzite
q	Quartzite

Relative abundance

t	Trace
p	Present
a	Abundant

Bed thickness

VT	Very thick
T	Thick
m	Medium thick
t	Thin



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

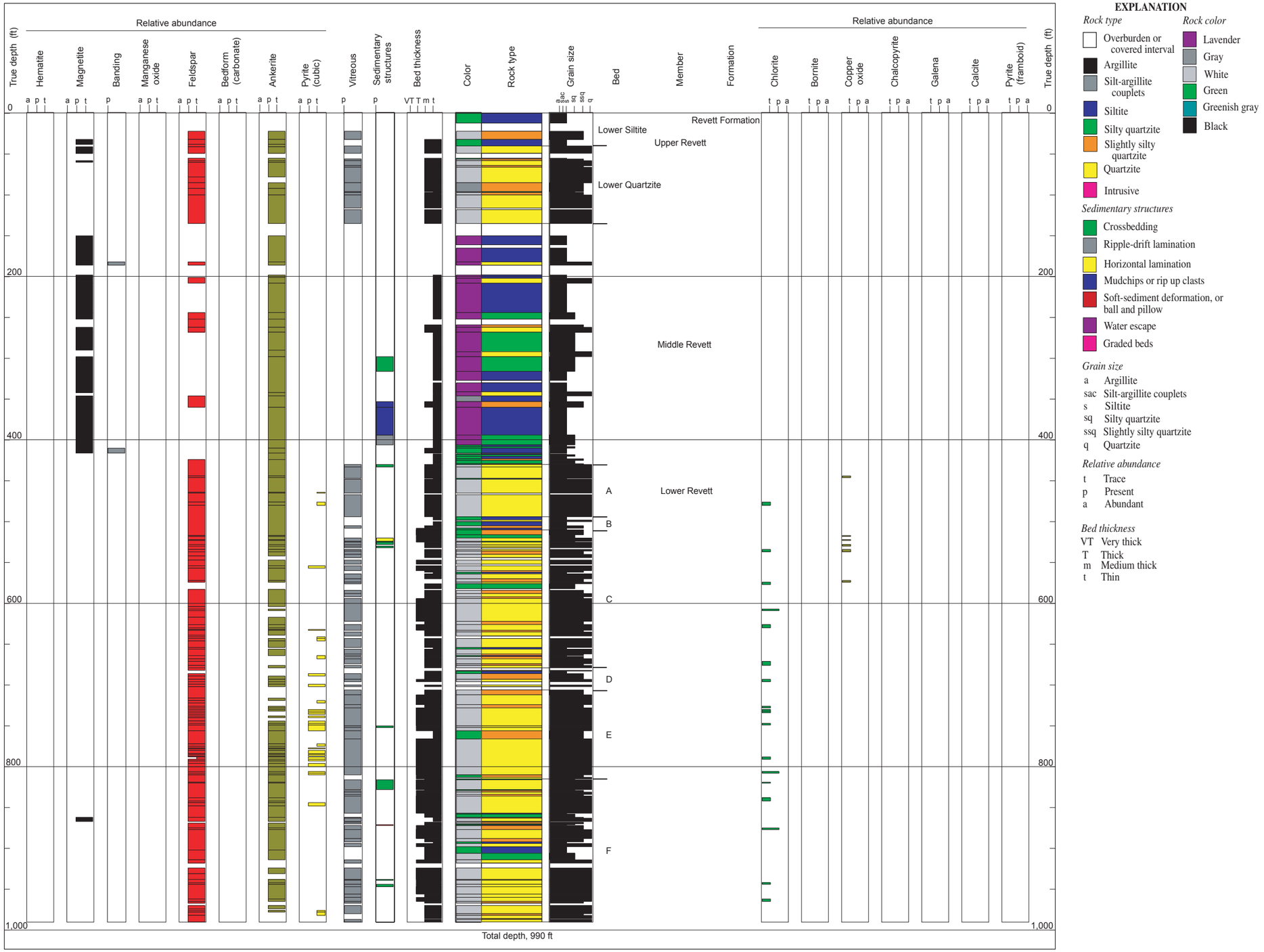
t Trace
p Present
a Abundant

Bed thickness

VT Very thick
T Thick
m Medium thick
t Thin

Figure A-90. Spokane-Chipmunk Ridge 3 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

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-91. Chipmunk 1 measured section

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

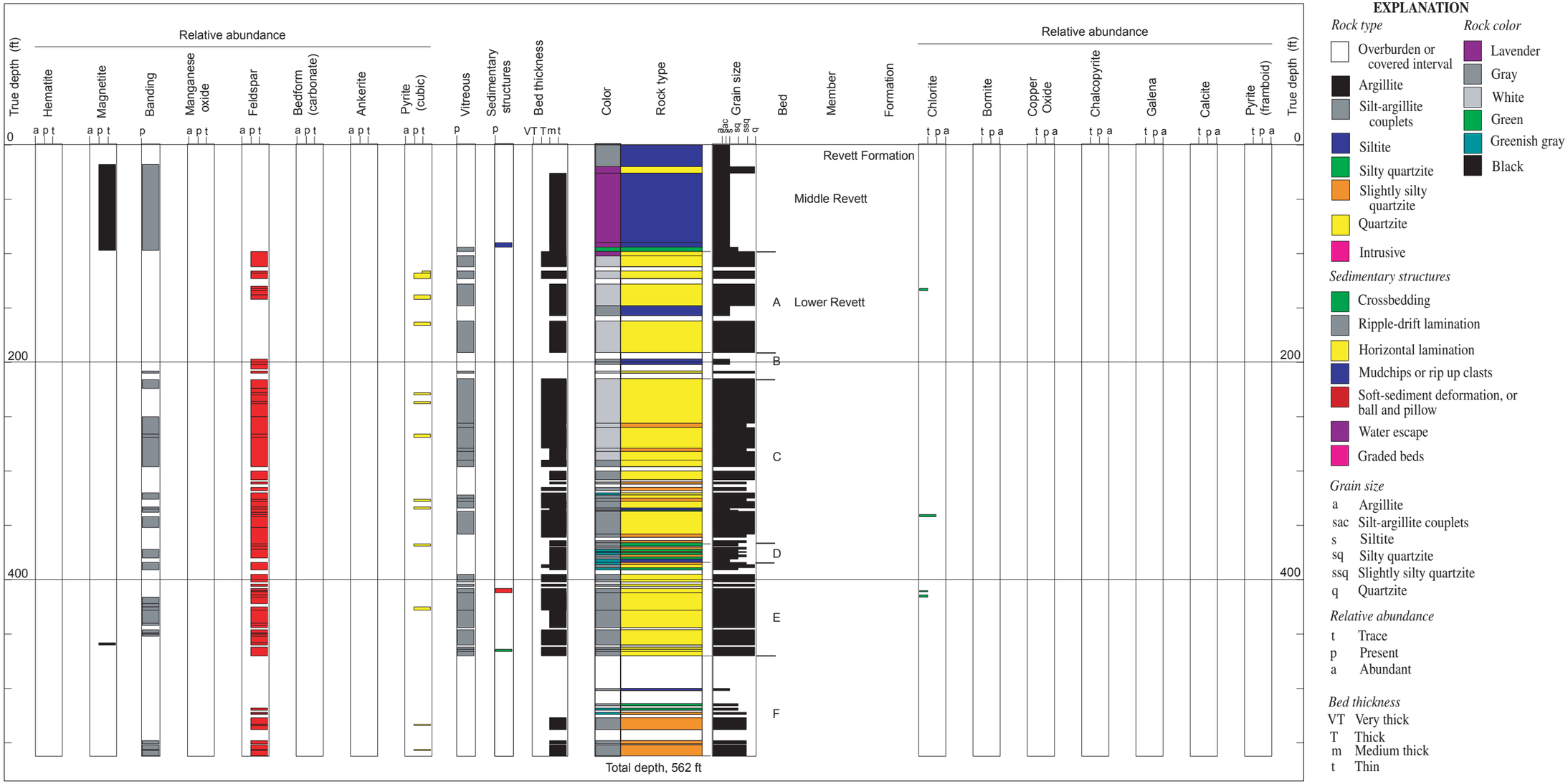
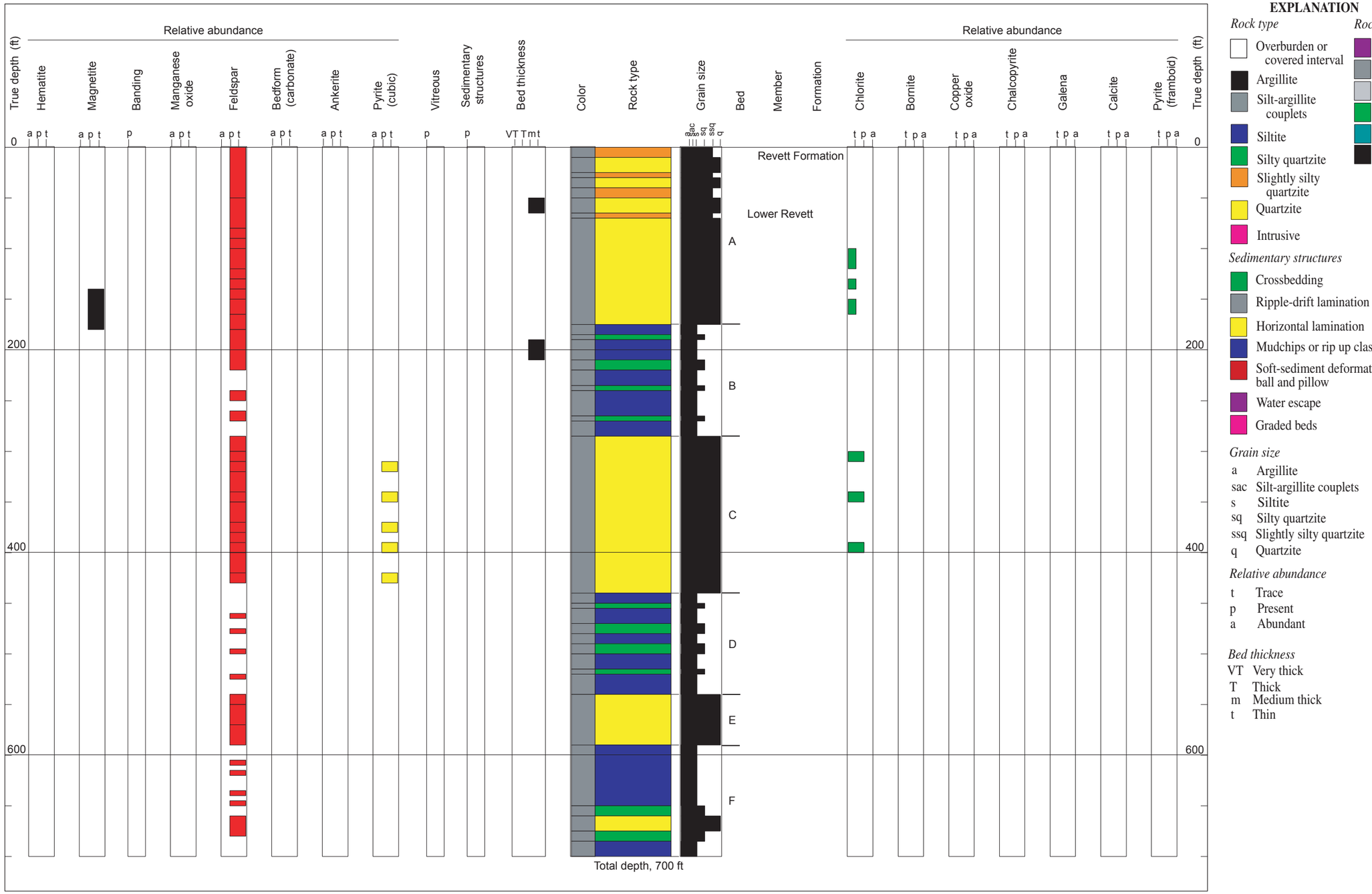


Figure A-92. Chipmunk 2 measured section

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



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-93. Bloom Peak measured section

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

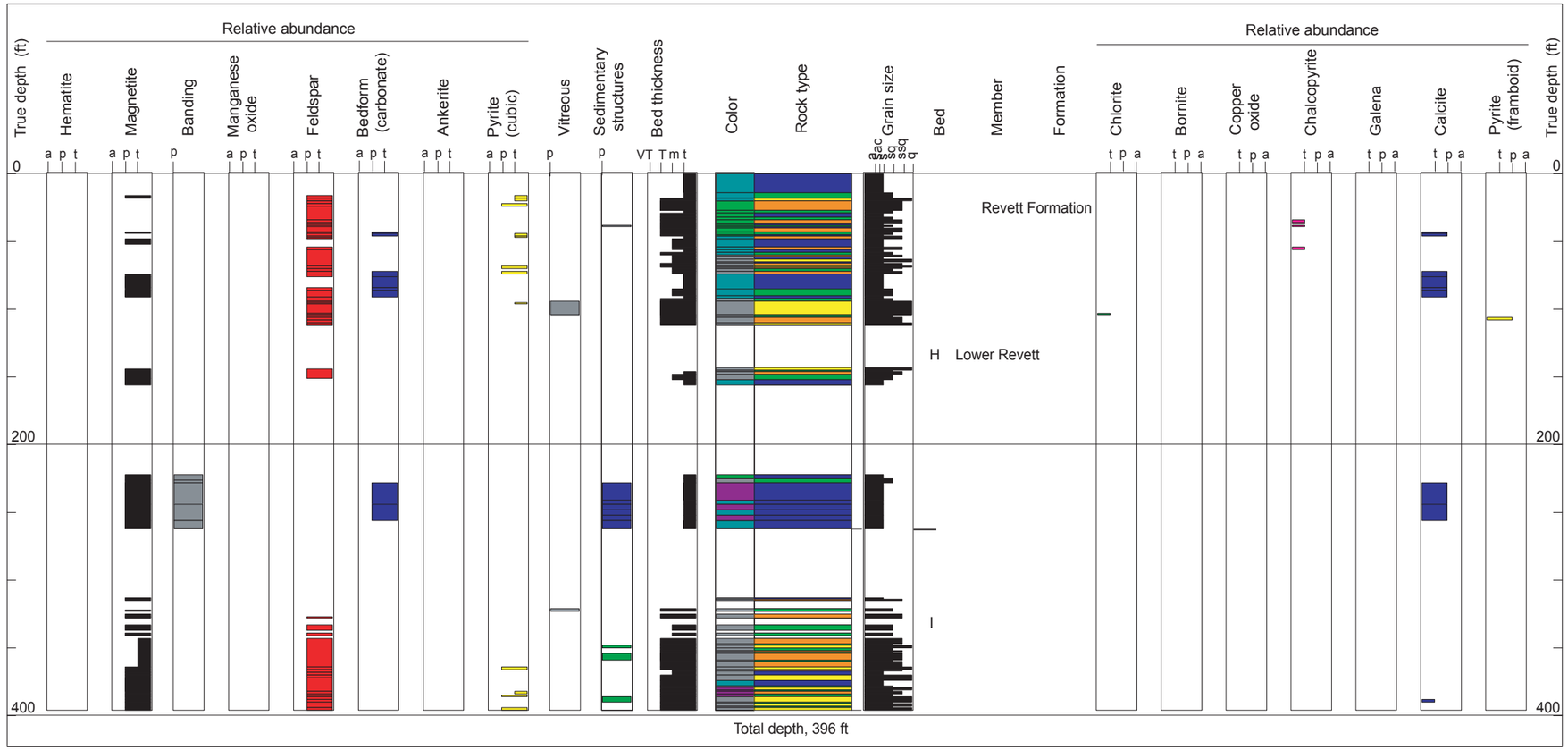


Figure A-94. East Lake measured section

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

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

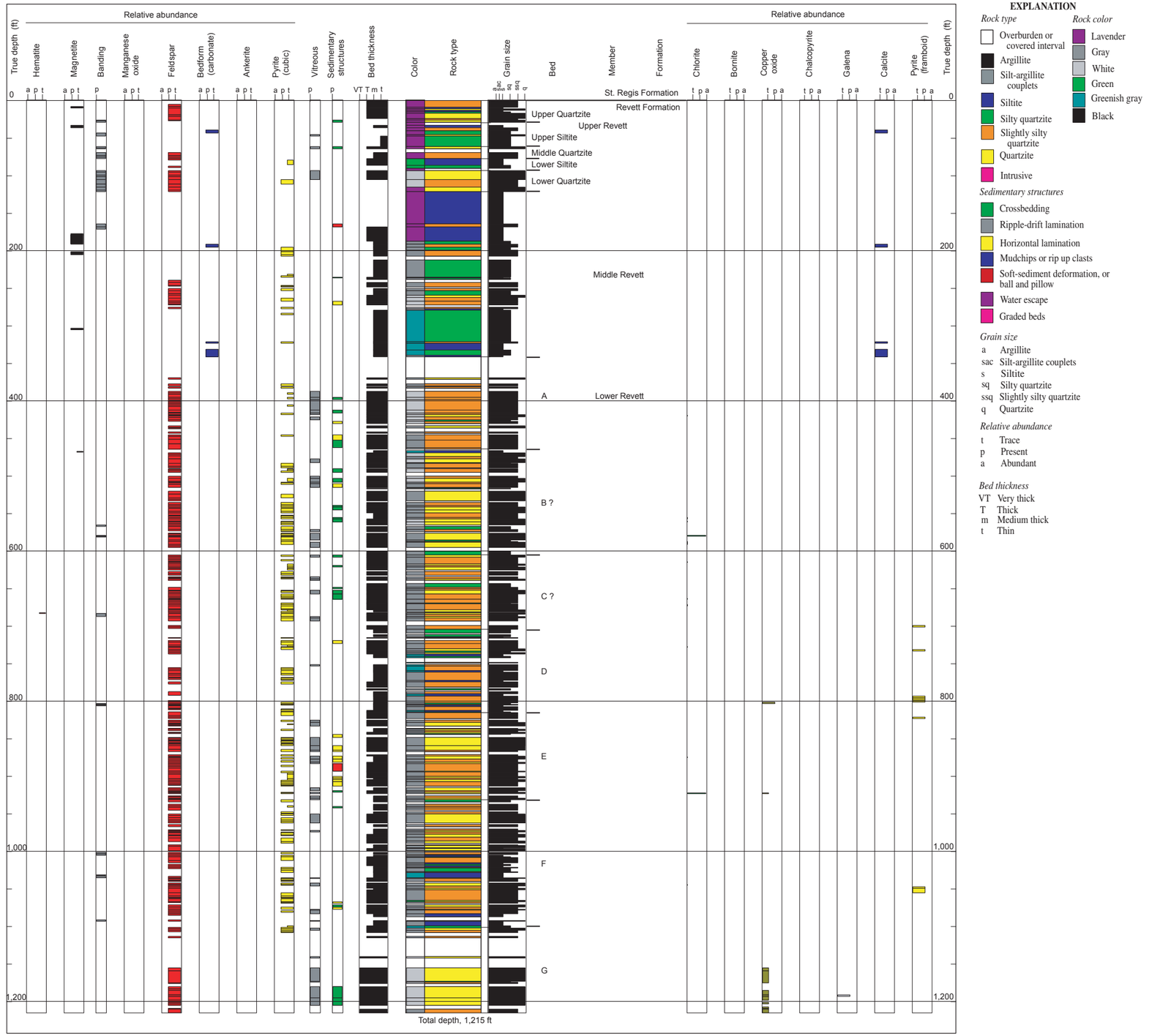
a	Argillite
sac	Silt-argillite couplets
s	Siltite
sq	Silty quartzite
ssq	Slightly silty quartzite
q	Quartzite

Relative abundance

t	Trace
p	Present
a	Abundant

Bed thickness

VT	Very thick
T	Thick
m	Medium thick
t	Thin



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-95. West Fork of Eagle Creek 3 measured section

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

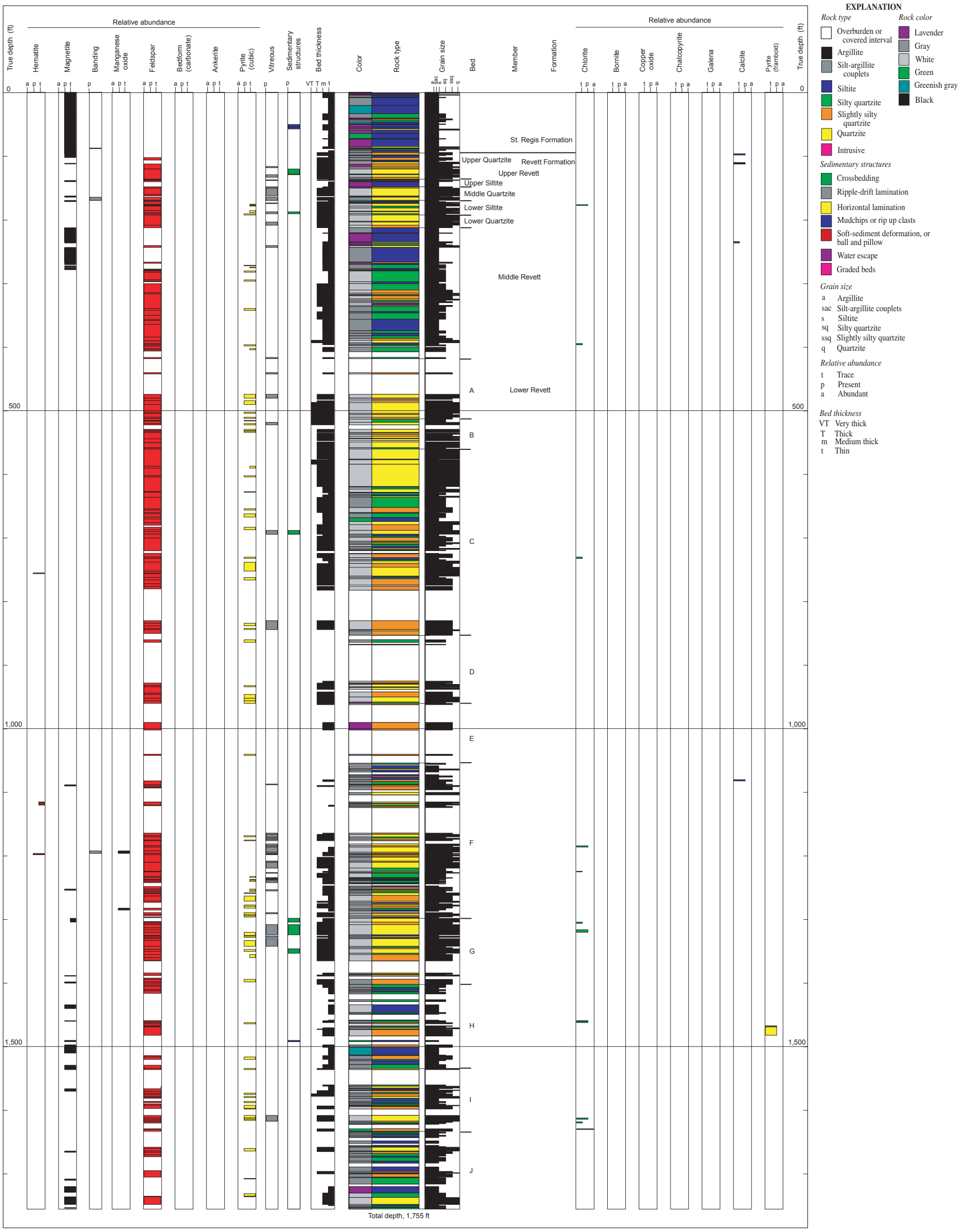


Figure A-96. West Fork of Eagle Creek 1, 2 measured section

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

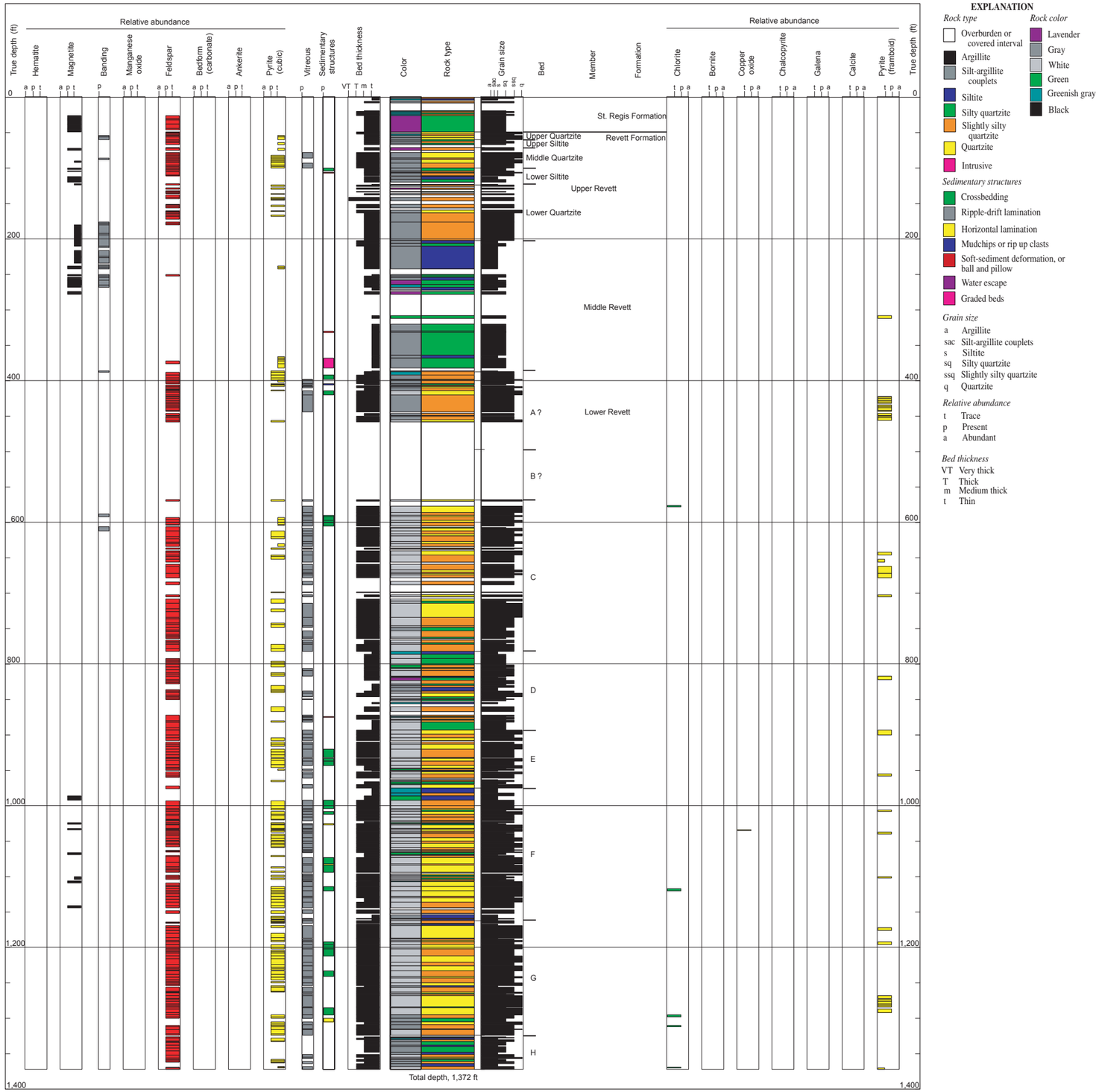
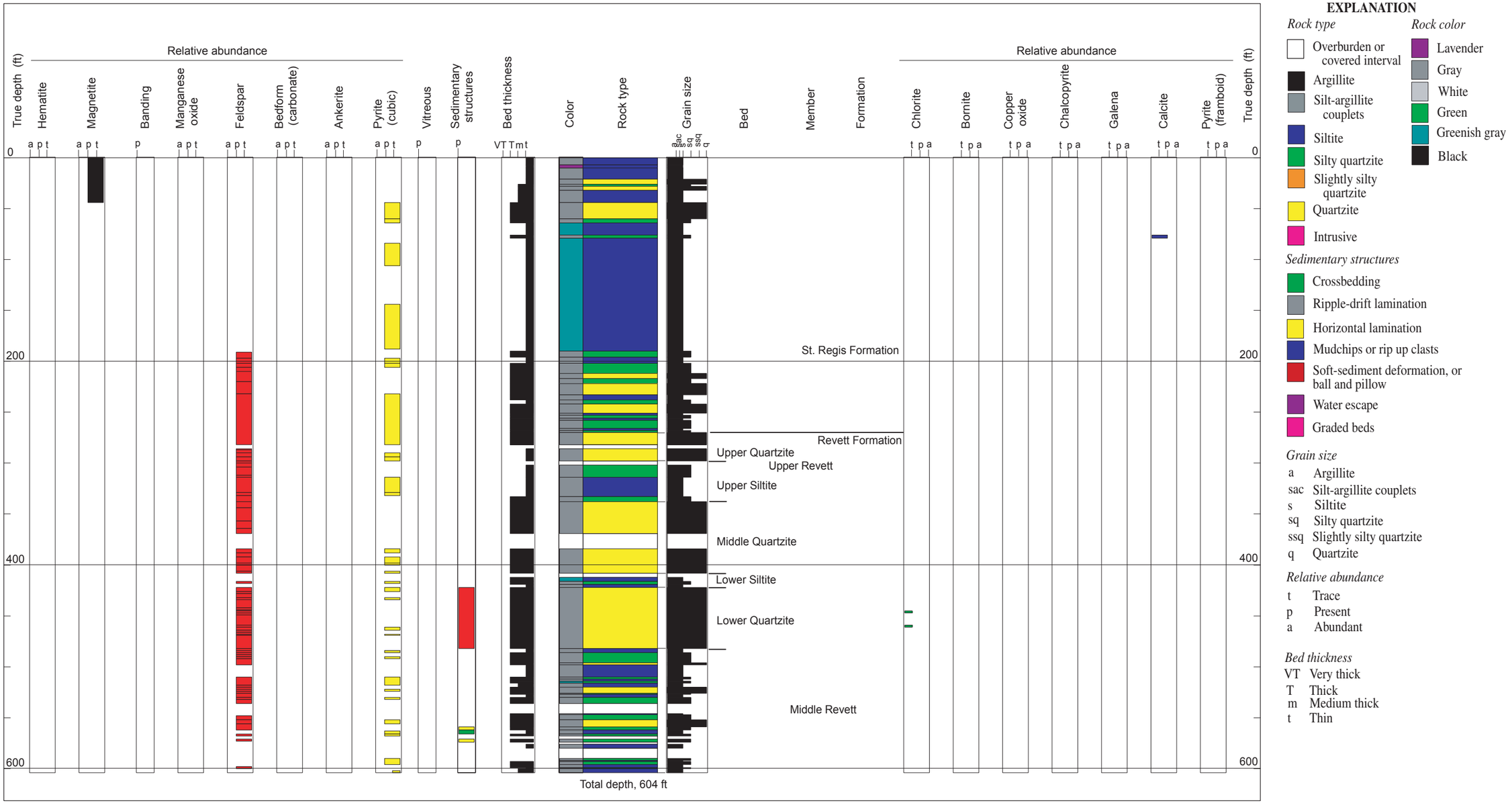


Figure A-97. West Fork of Eagle Creek 5 measured section

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



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

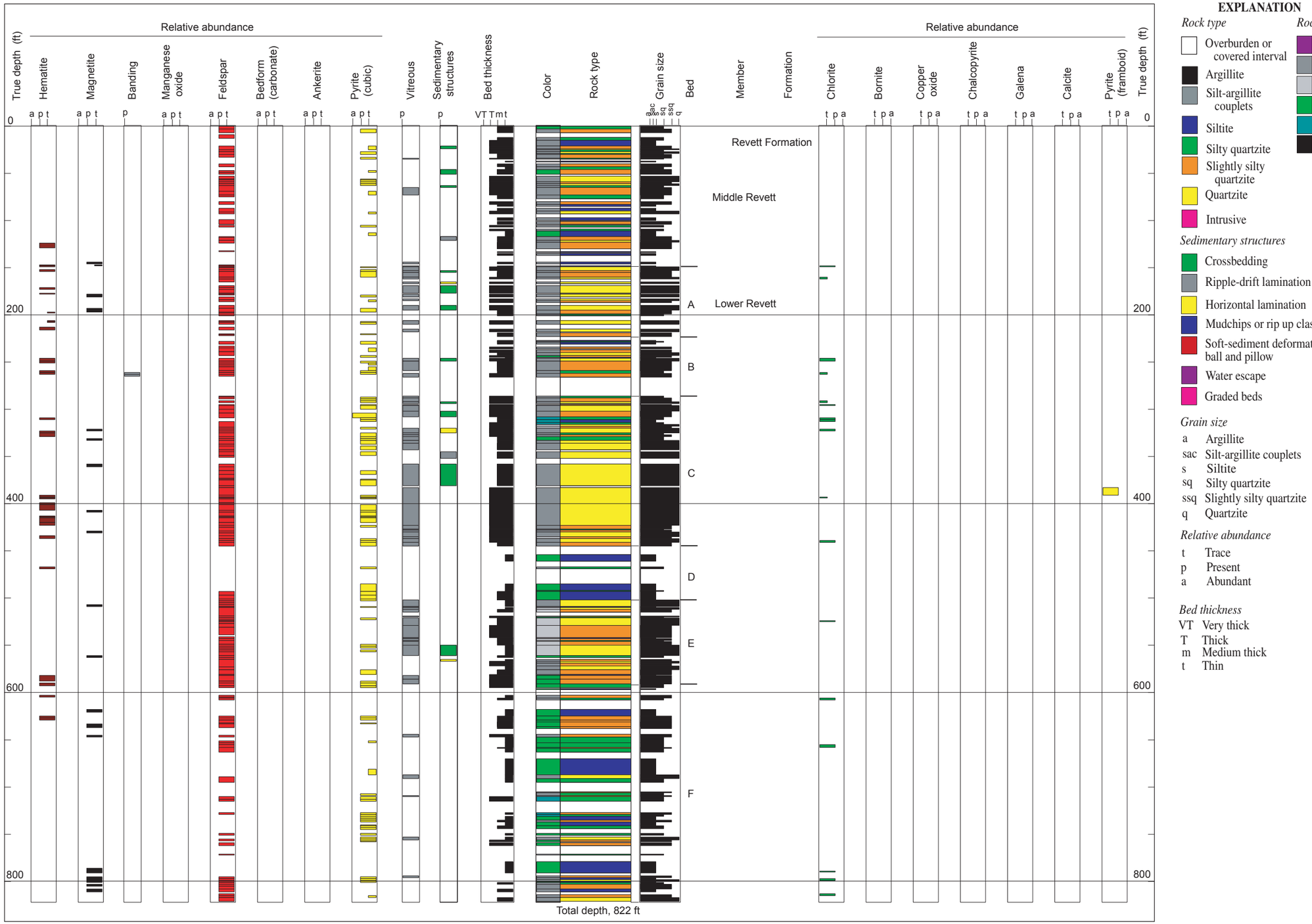
- t Trace
- p Present
- a Abundant

Bed thickness

- VT Very thick
- T Thick
- m Medium thick
- t Thin

Figure A-98. Cottonwood 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

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

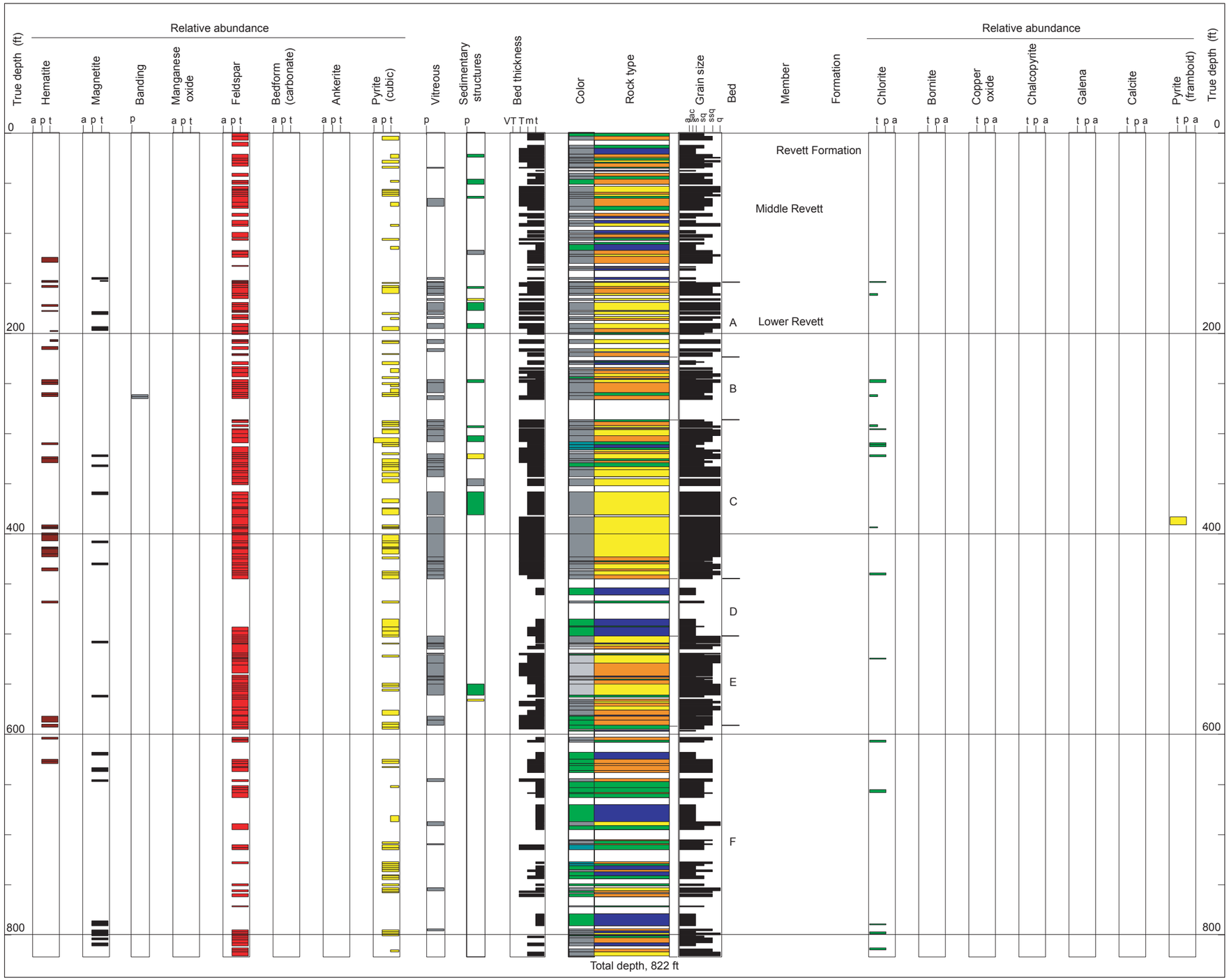
t Trace
p Present
a Abundant

Bed thickness

VT Very thick
T Thick
m Medium thick
t Thin

Figure A-99. Bobtail 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

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-99. Bobtail Creek measured section

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

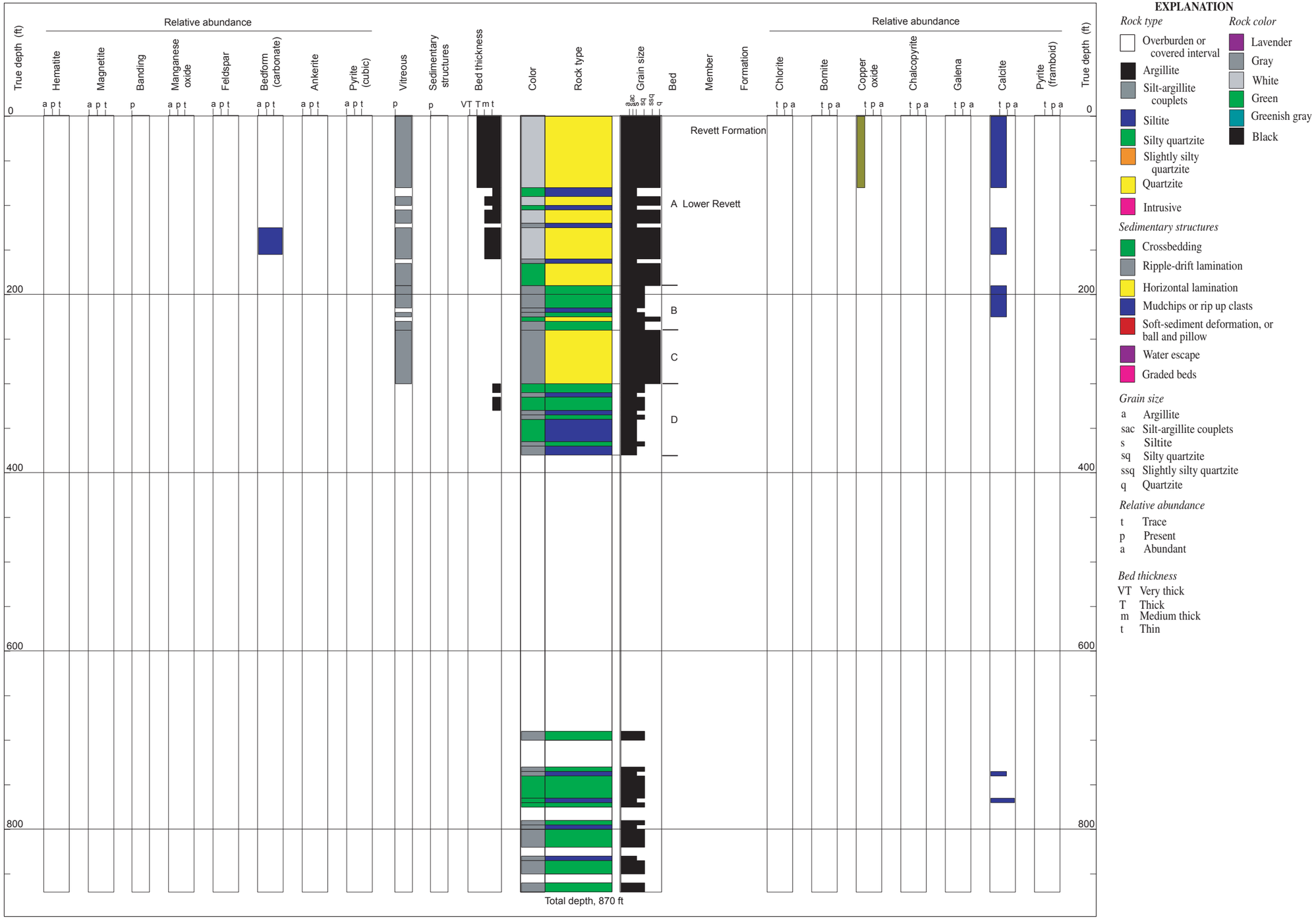
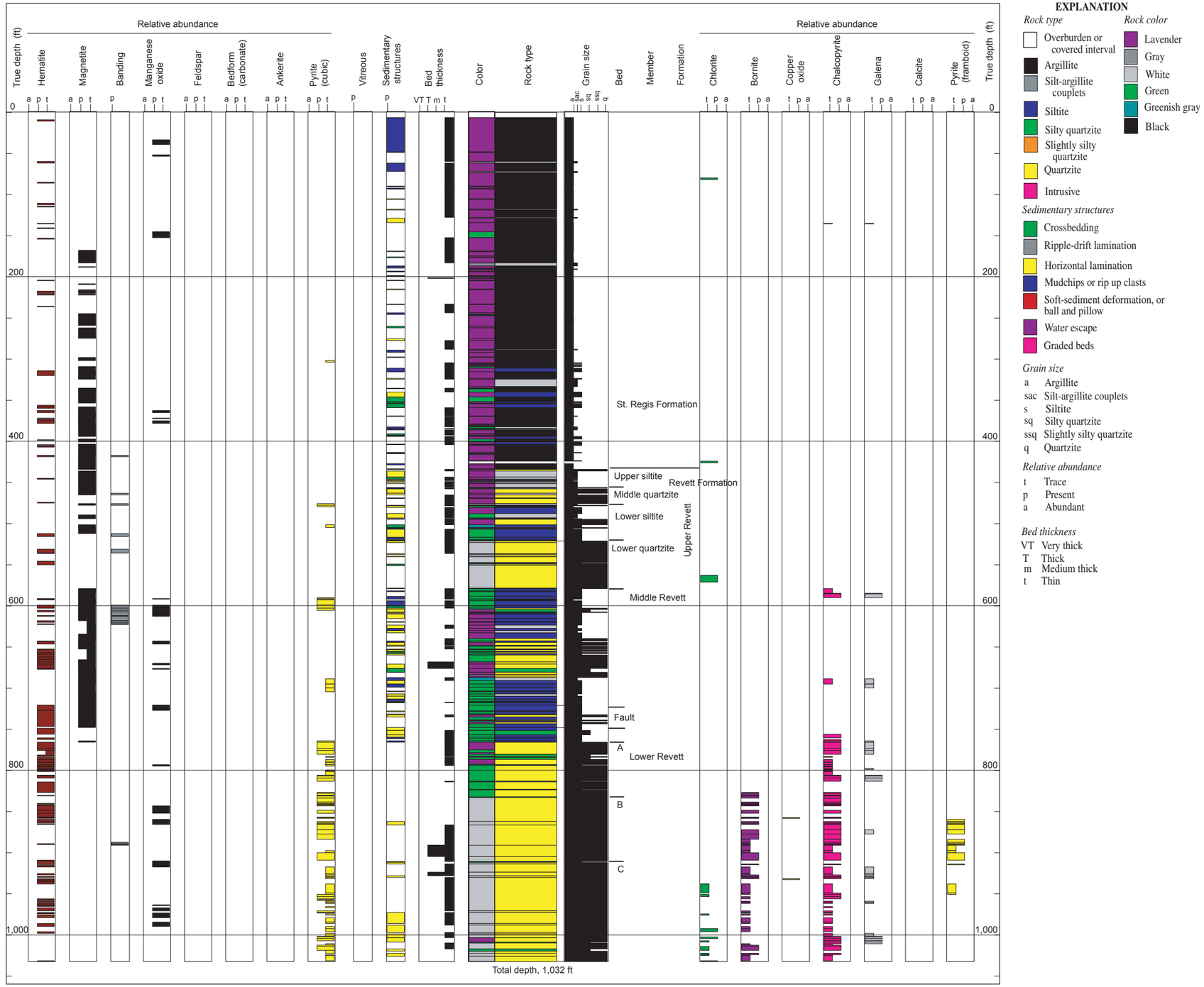


Figure A-101. Revett Lake measured section

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

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-102. DDH MG-6 (Military Gulch) diamond-drill-hole section

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

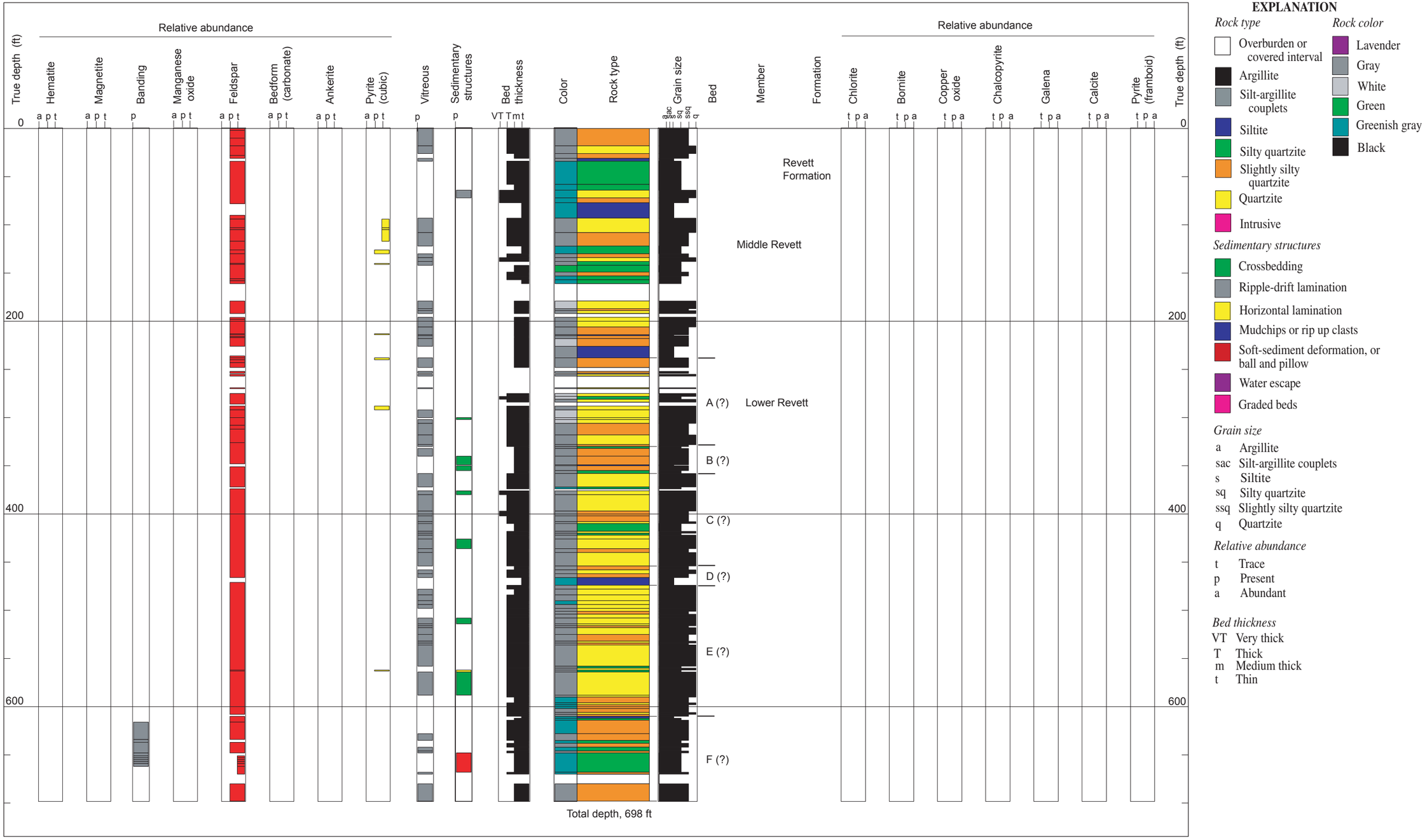


Figure A-103. Prichard Creek measured section

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

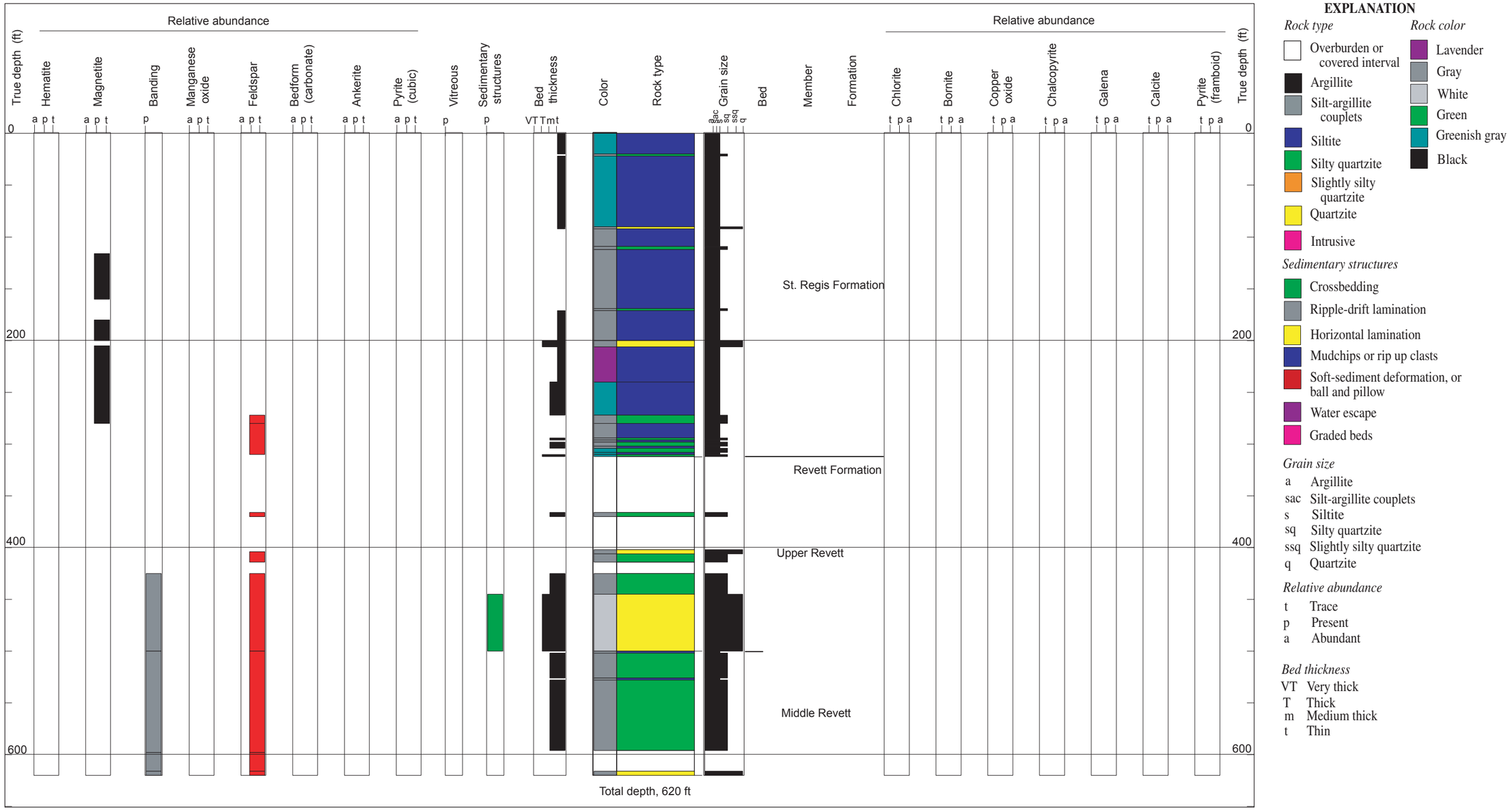


Figure A-104. Coeur d'Alene River 3 measured section

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

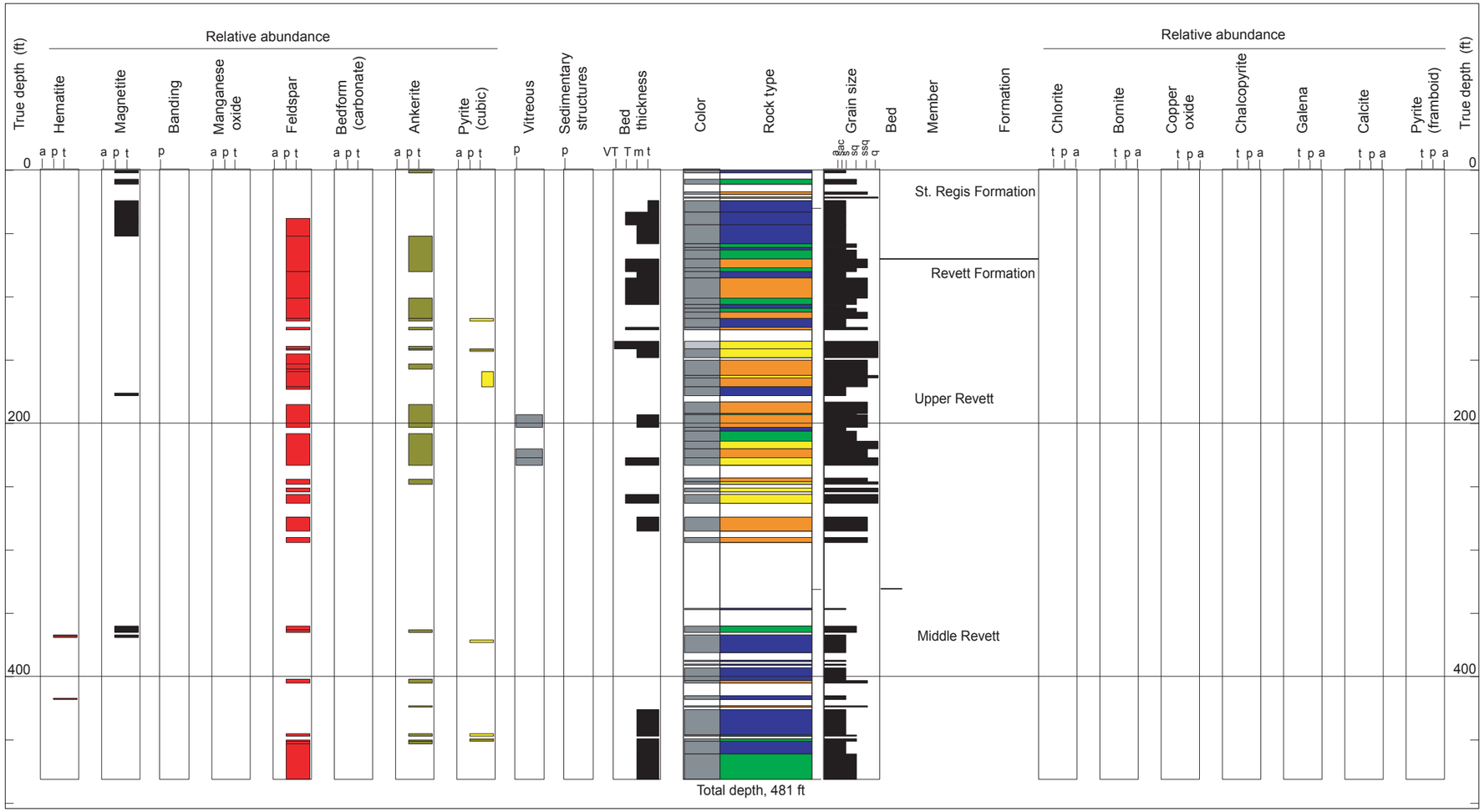


Figure A-105. Cedar Creek measured section

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

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

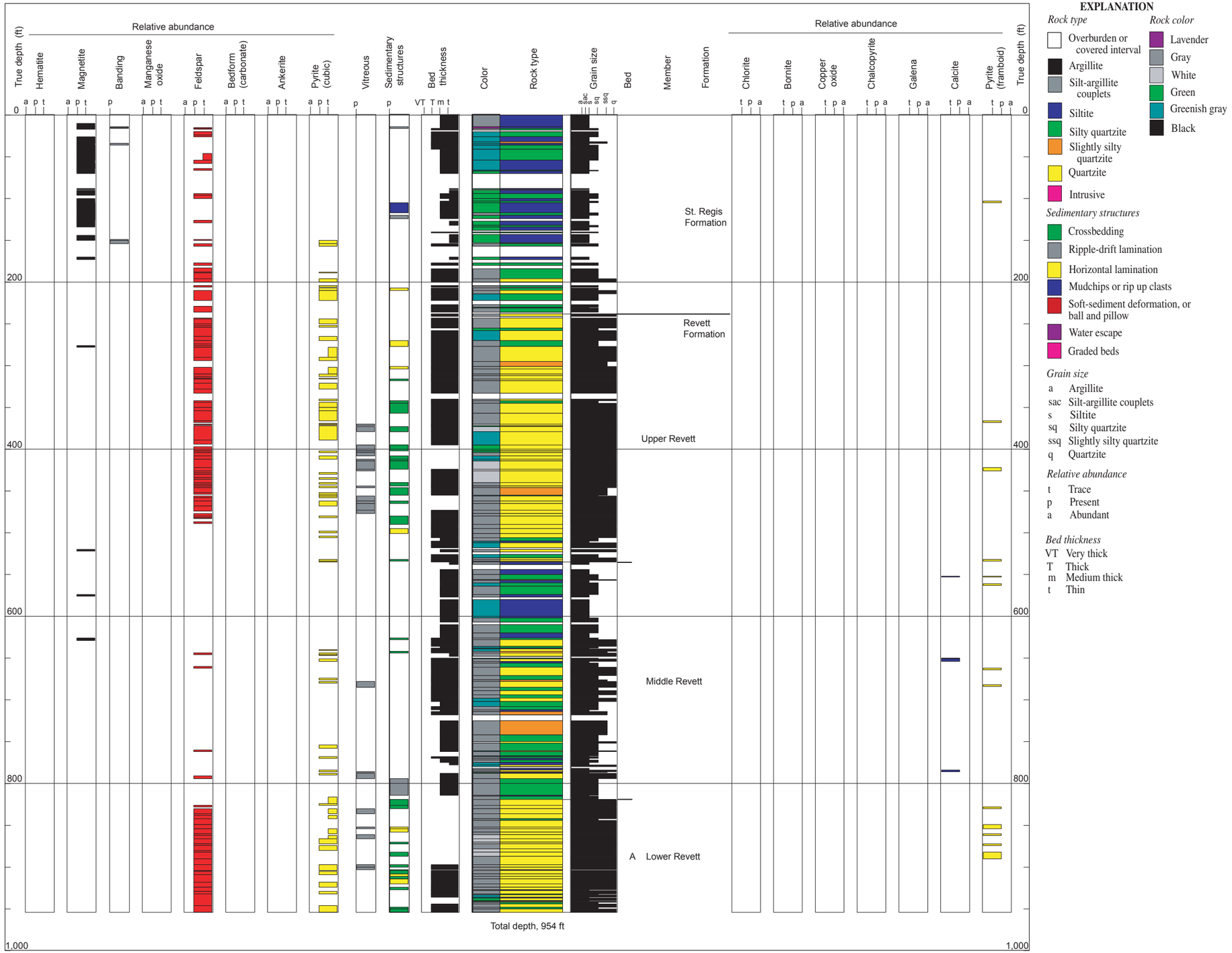
a	Argillite
sac	Silt-argillite couplets
s	Siltite
sq	Silty quartzite
ssq	Slightly silty quartzite
q	Quartzite

Relative abundance

t	Trace
p	Present
a	Abundant

Bed thickness

VT	Very thick
T	Thick
m	Medium thick
t	Thin



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

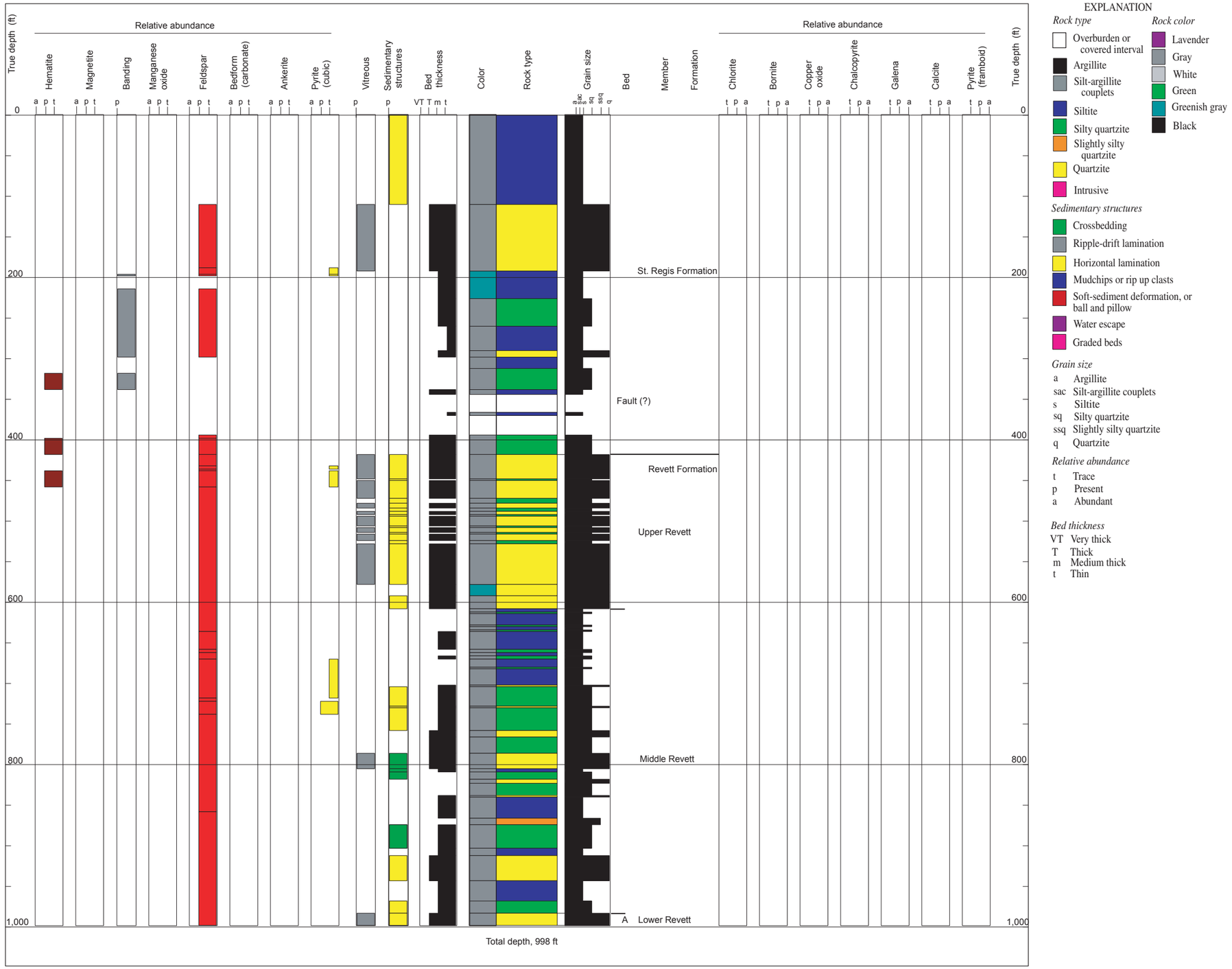
t Trace
p Present
a Abundant

Bed thickness

VT Very thick
T Thick
m Medium thick
t Thin

Figure A-106. Little Grizzly 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

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-107. Grizzly Creek measured section

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

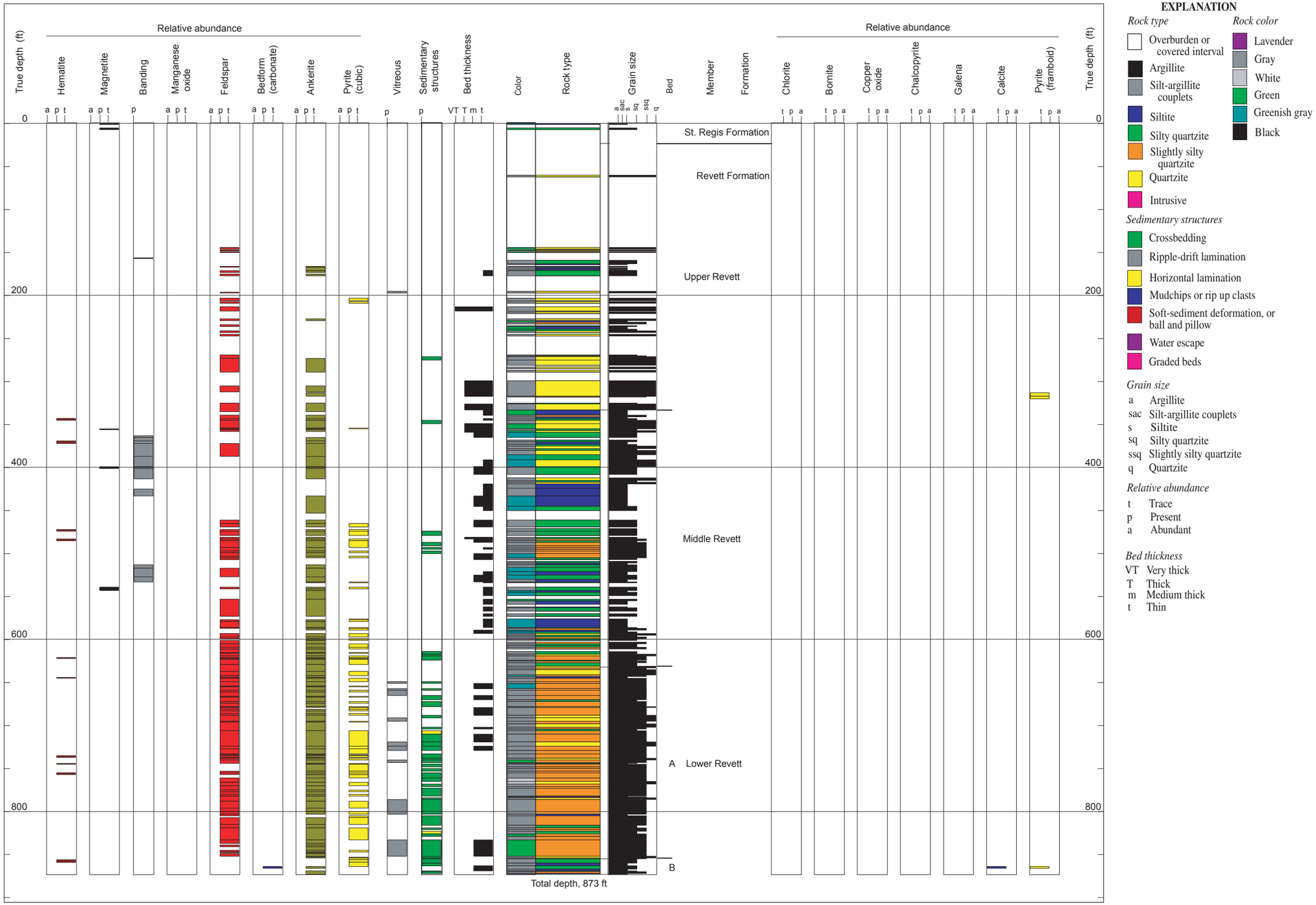


Figure A-108. Timmies Section measured section

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

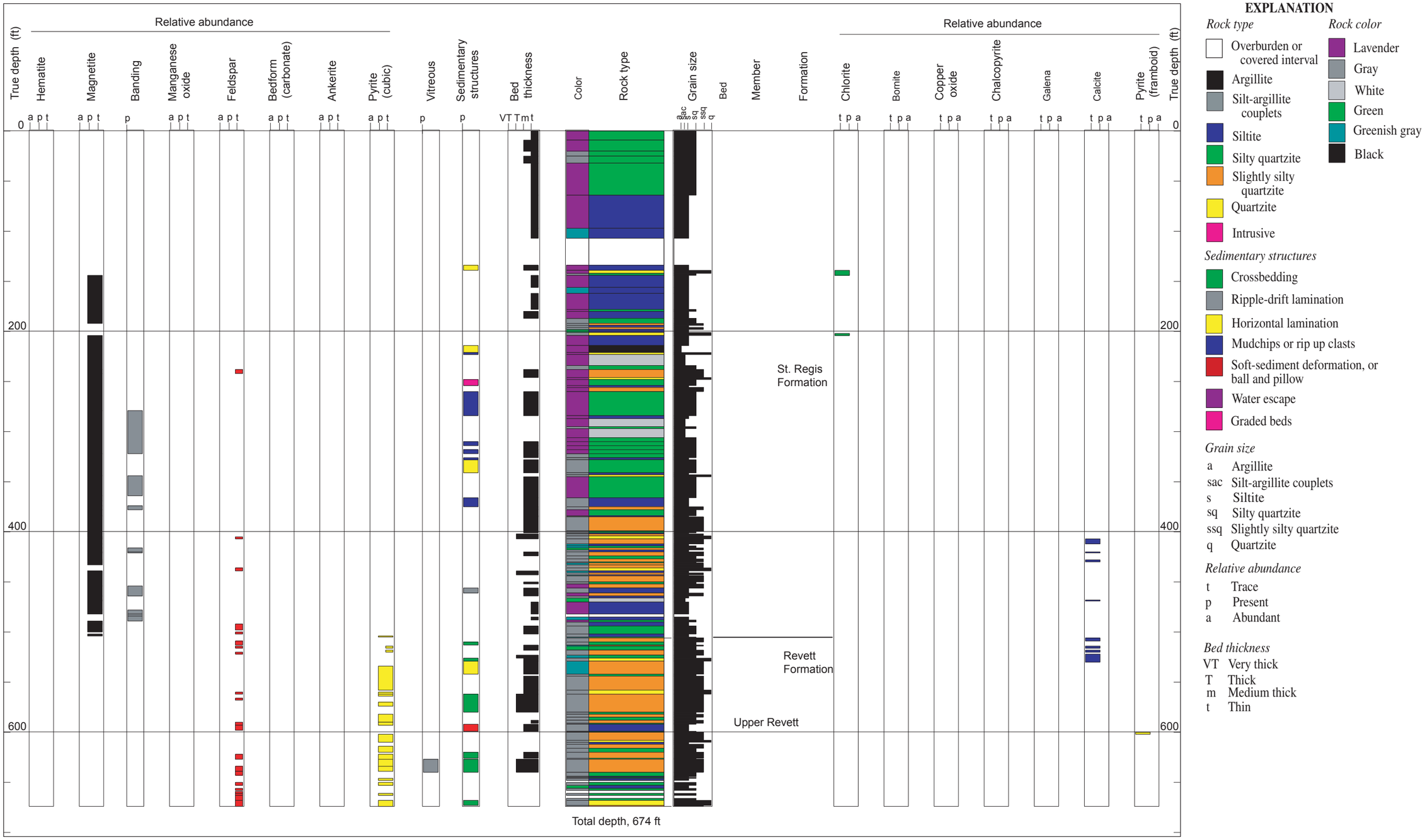
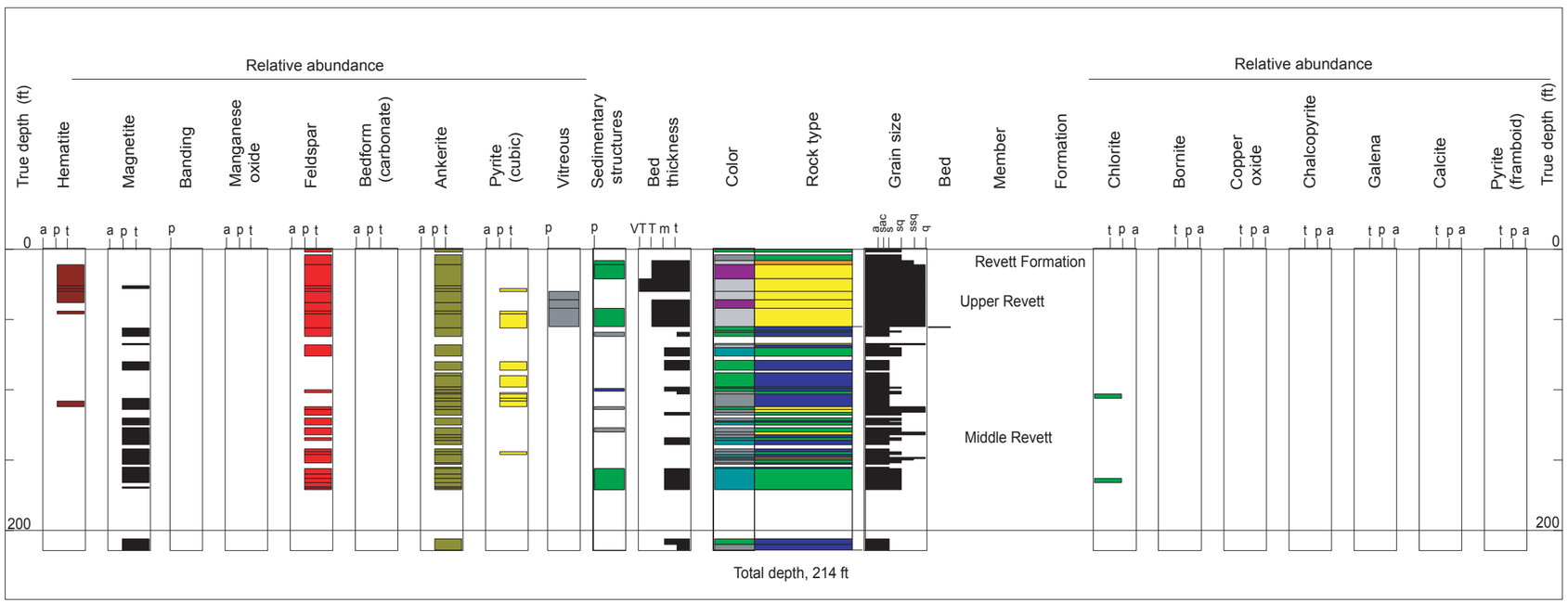


Figure A-109. Maple Cliffs measured section

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

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-110. Graham Creek measured section

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

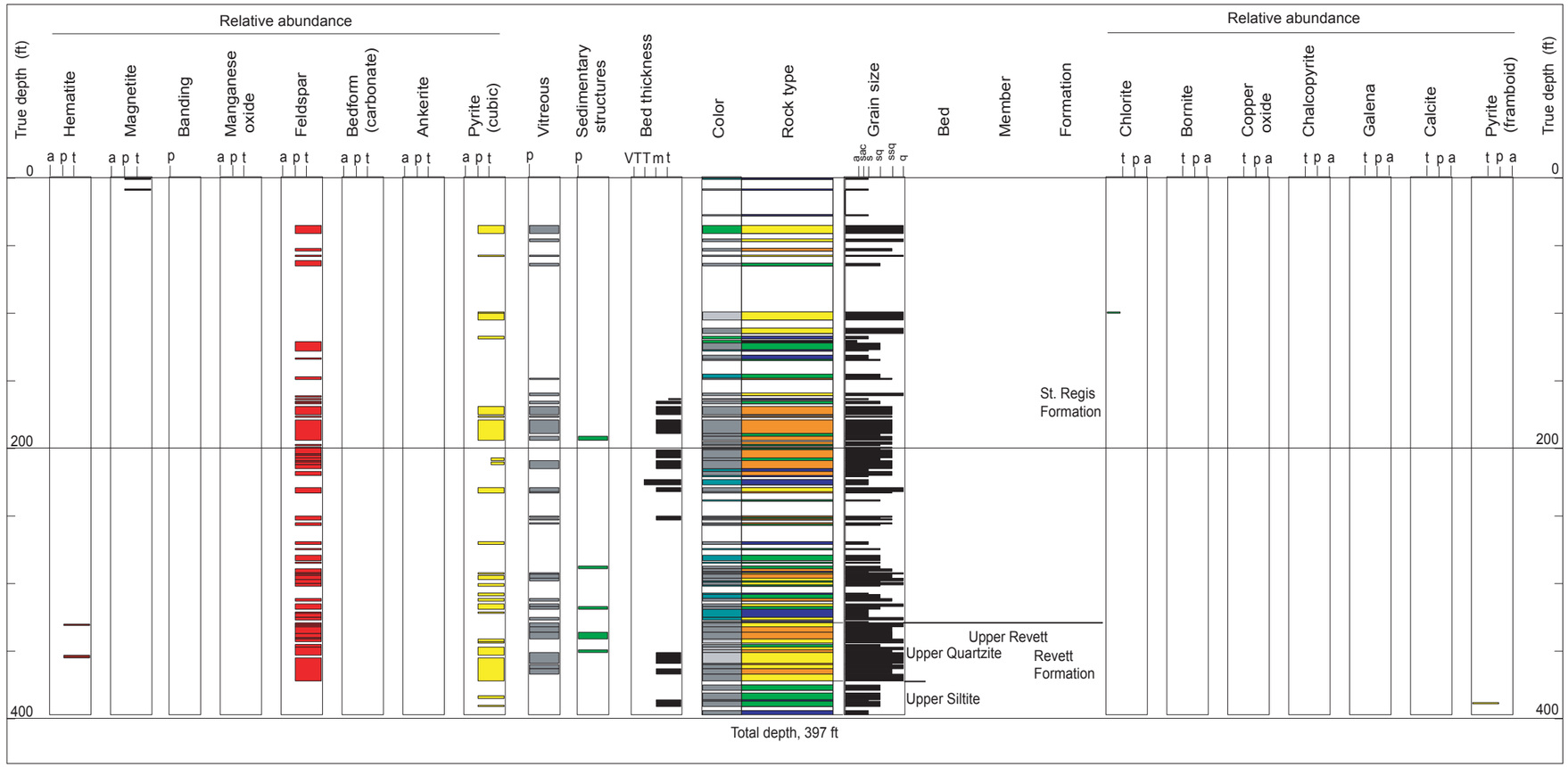


Figure A-111. Silver Creek measured section

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

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
- a sac Silt-argillite couplets
- s Siltite
- s sq Silty quartzite
- ssq Slightly silty quartzite
- q Quartzite
- q *Relative abundance*
  - t Trace
  - p Present
  - a Abundant

Bed thickness

- VT Very thick
- T Thick
- m Medium thick
- t Thin

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U.S. GEOLOGICAL SURVEY

SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-112

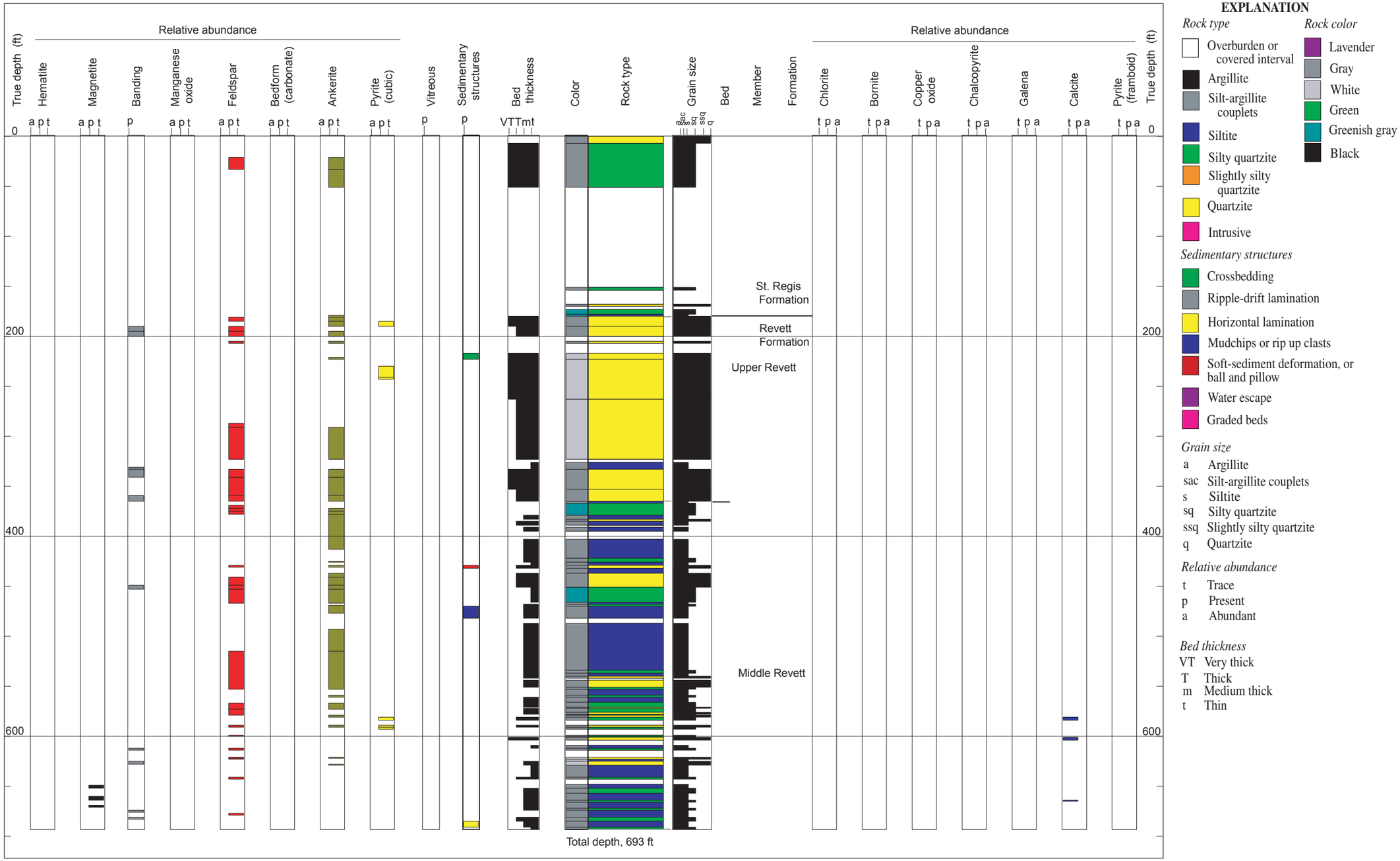


Figure A-112. Castle Rock measured section

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

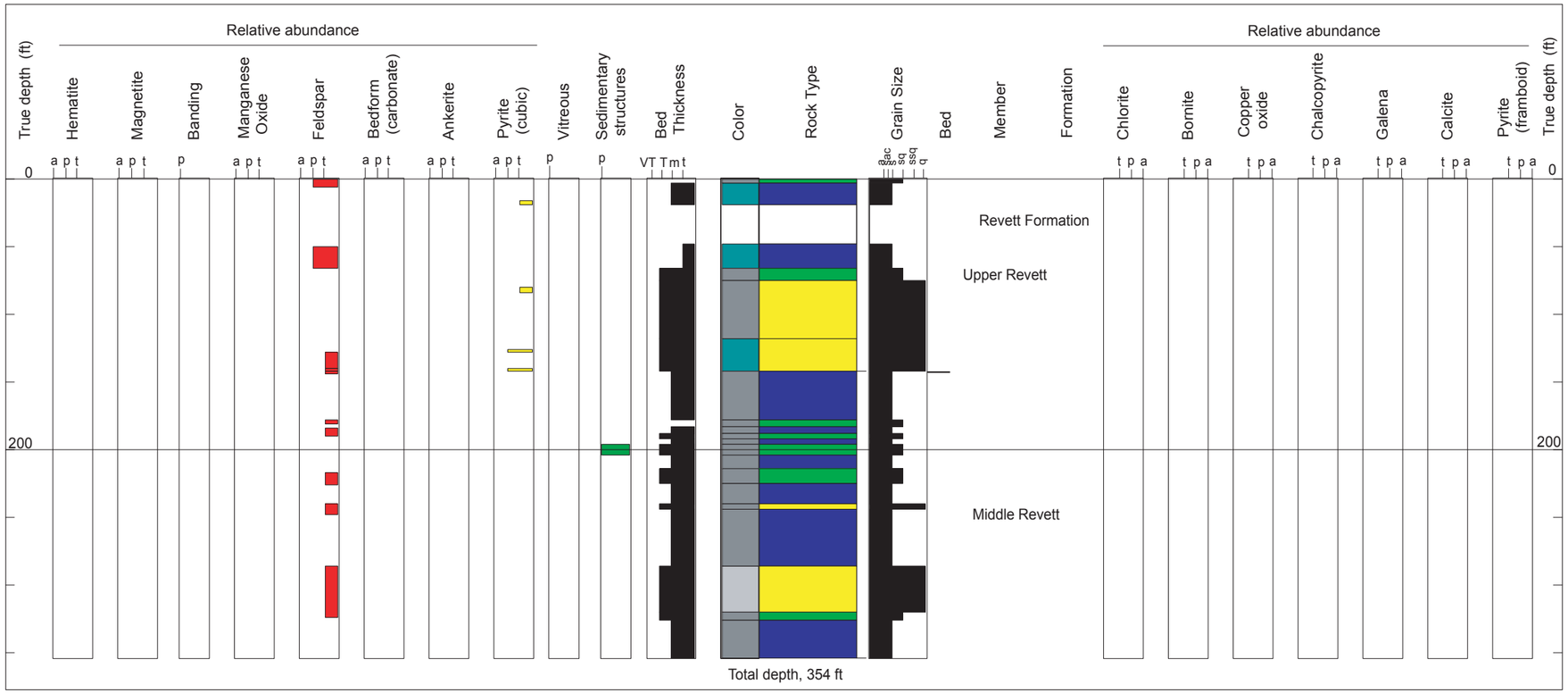


Figure A-113. Coal Creek measured section

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

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

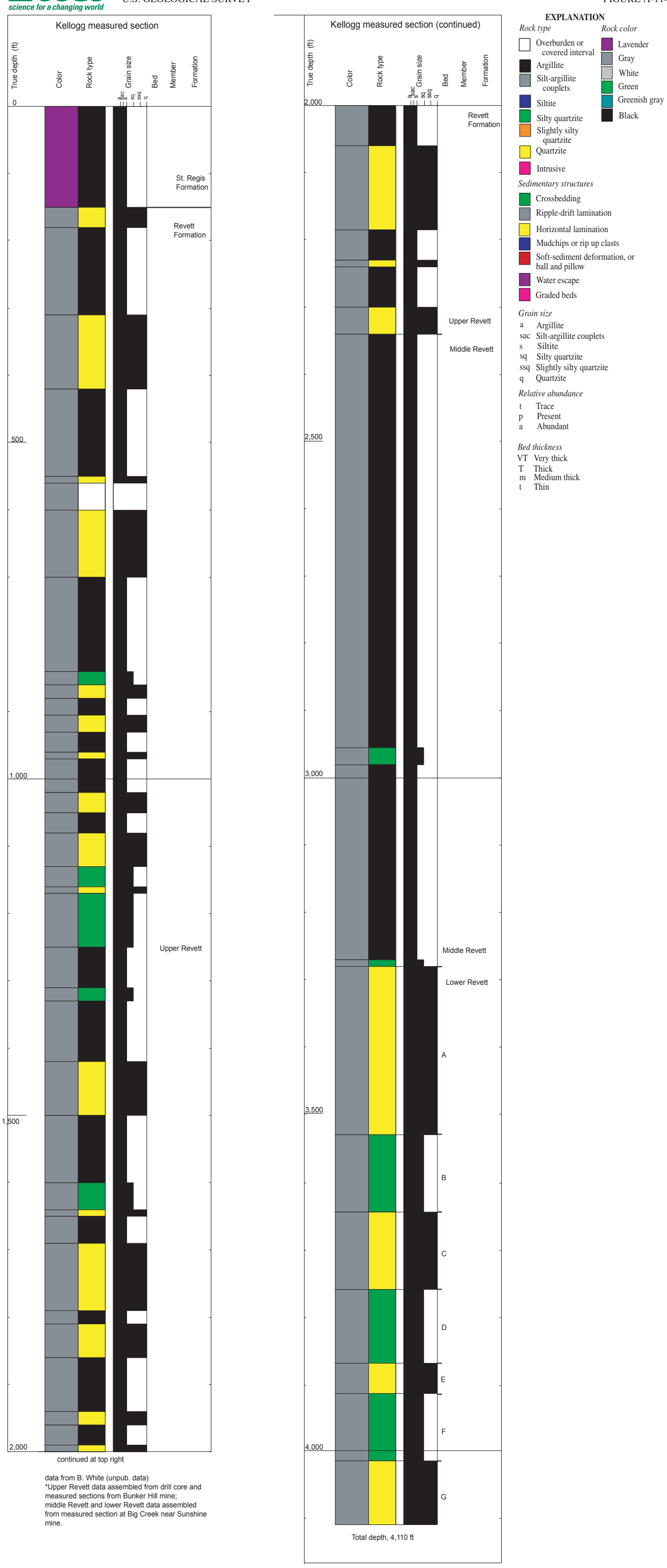
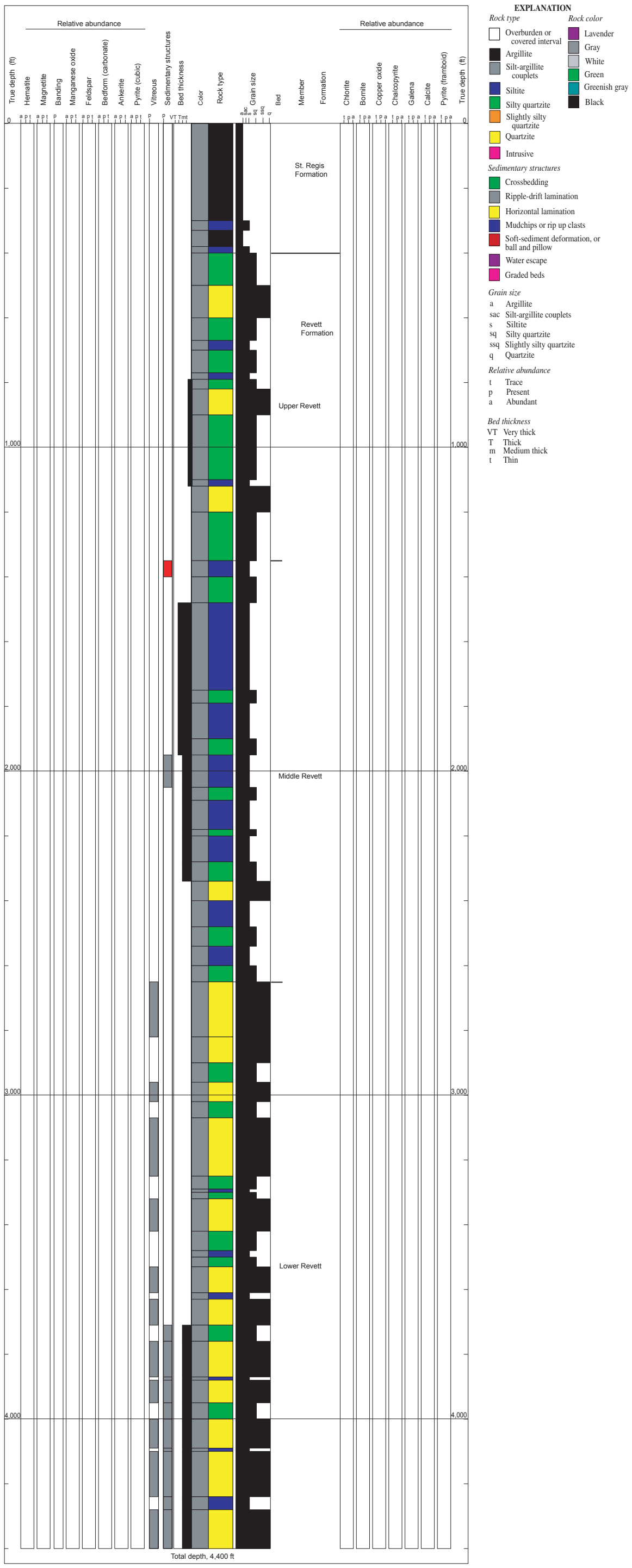


Figure A-114. Kellogg measured section*

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

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

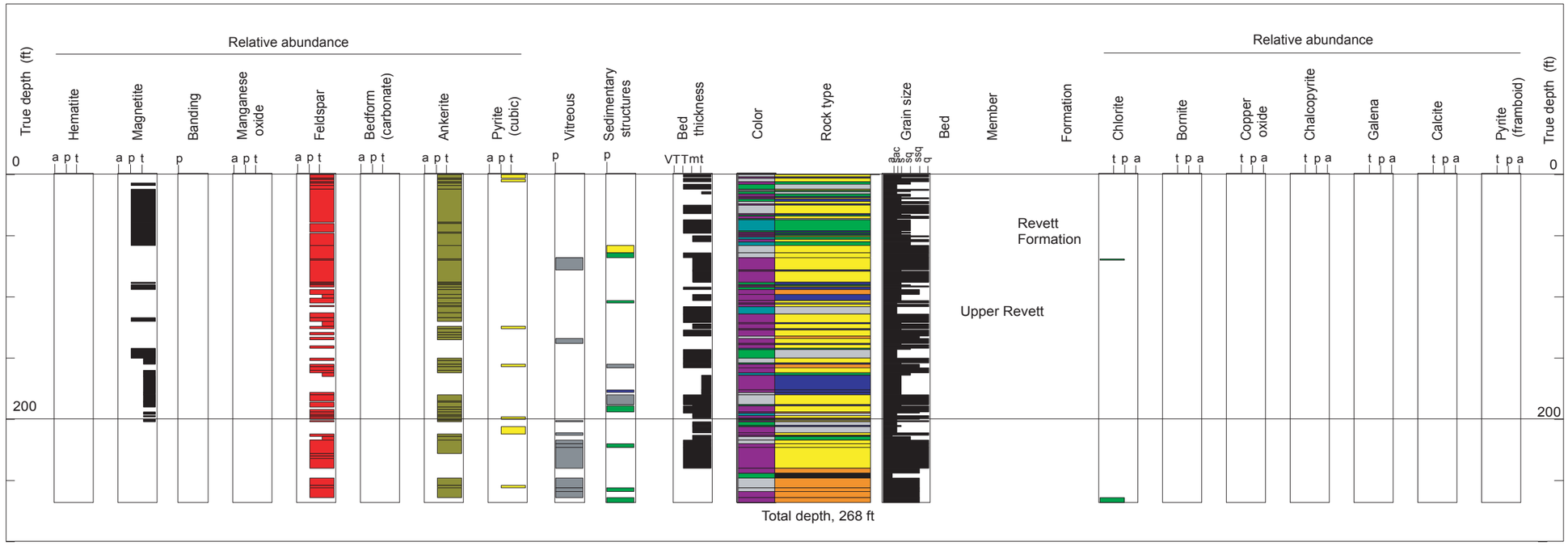
VT Very thick
T Thick
m Medium thick
t Thin

Figure A-115. Latour Peak-Boise Peak 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-116



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-116. North of Prado Creek measured section

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

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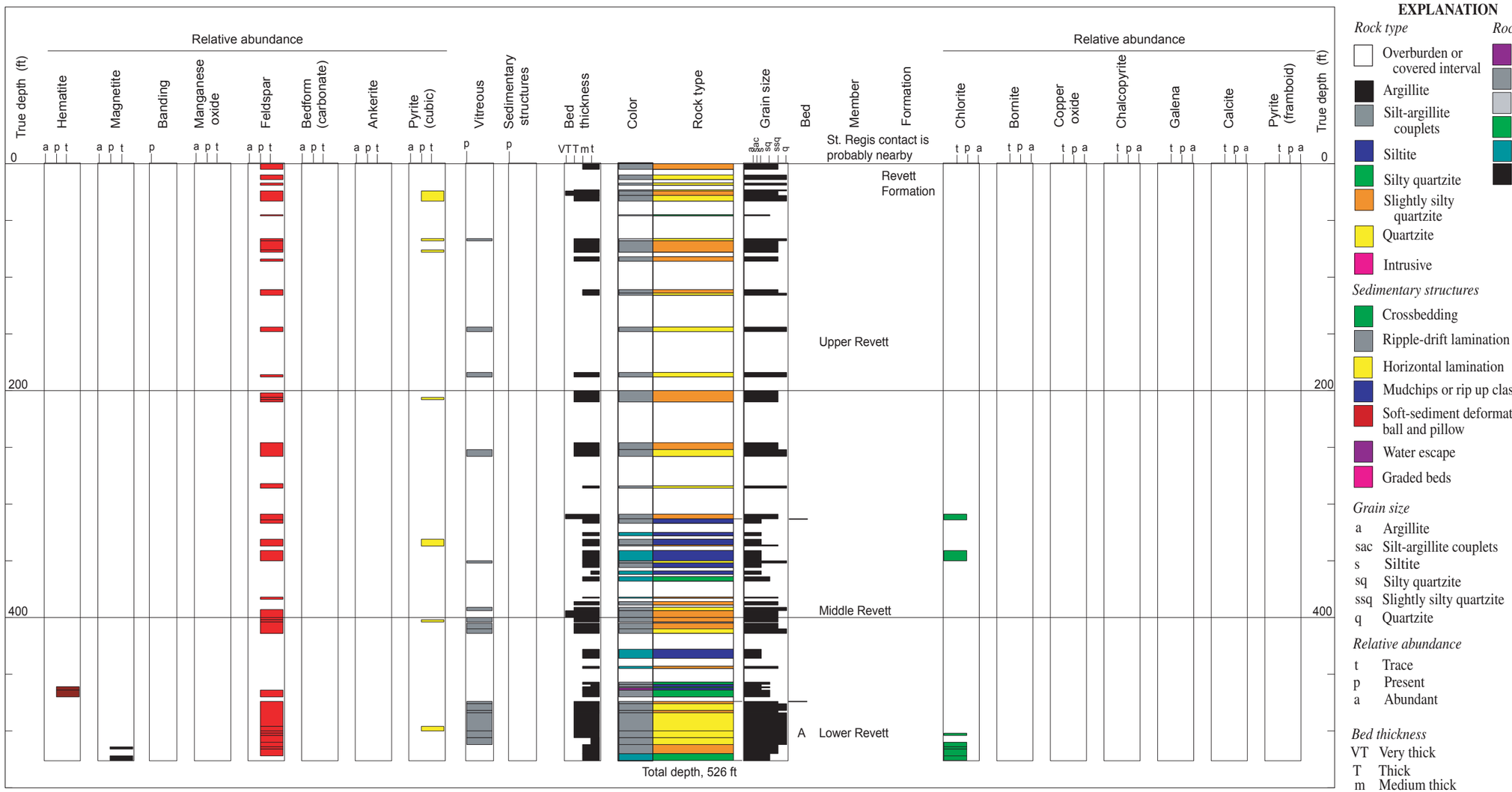
FIGURE A-118



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-118. Browns Gulch measured section

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

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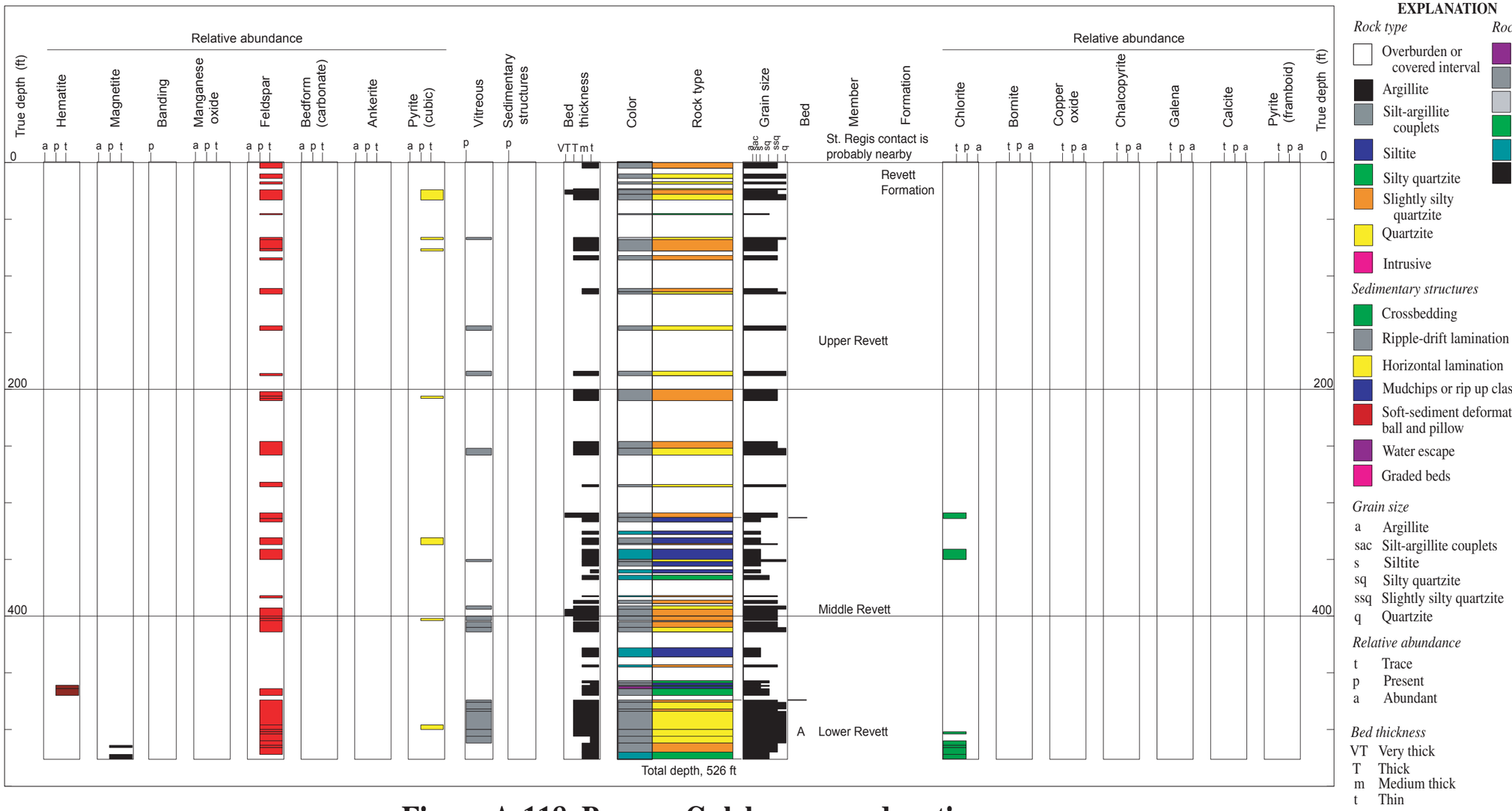
SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-118



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-118. Browns Gulch 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-119

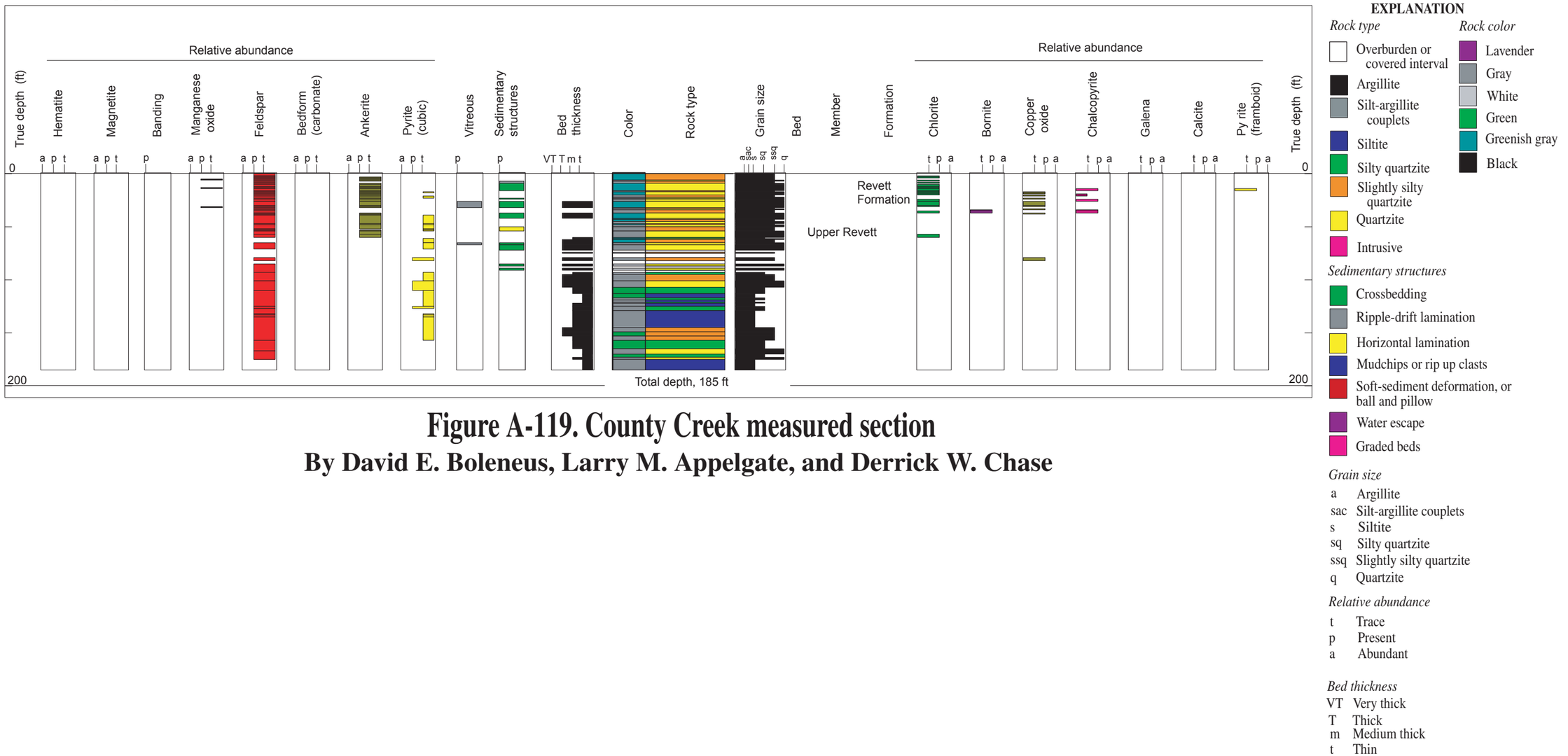


Figure A-119. County Creek measured section

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

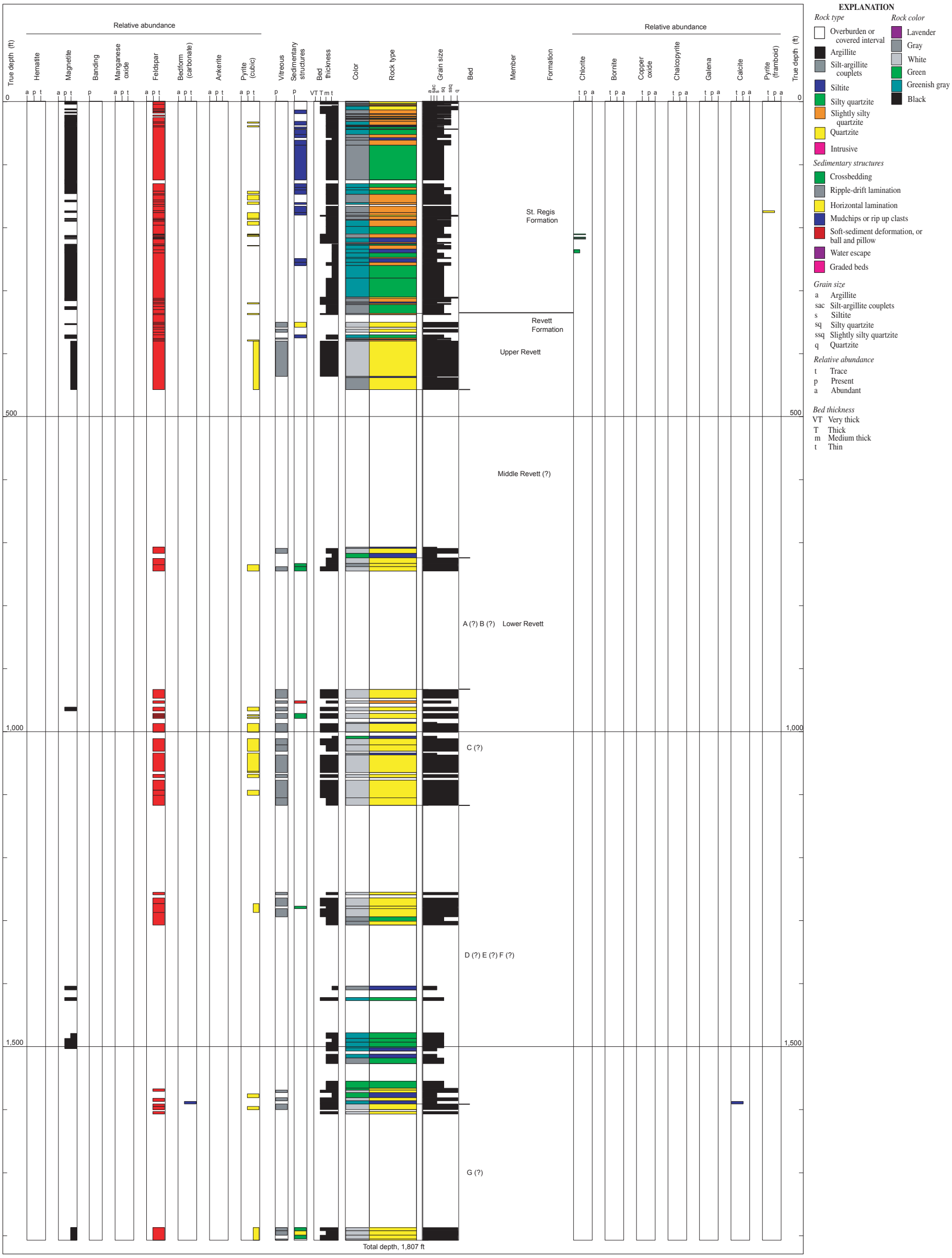


Figure A-120. Little Tepee Creek 1, 2 measured section

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

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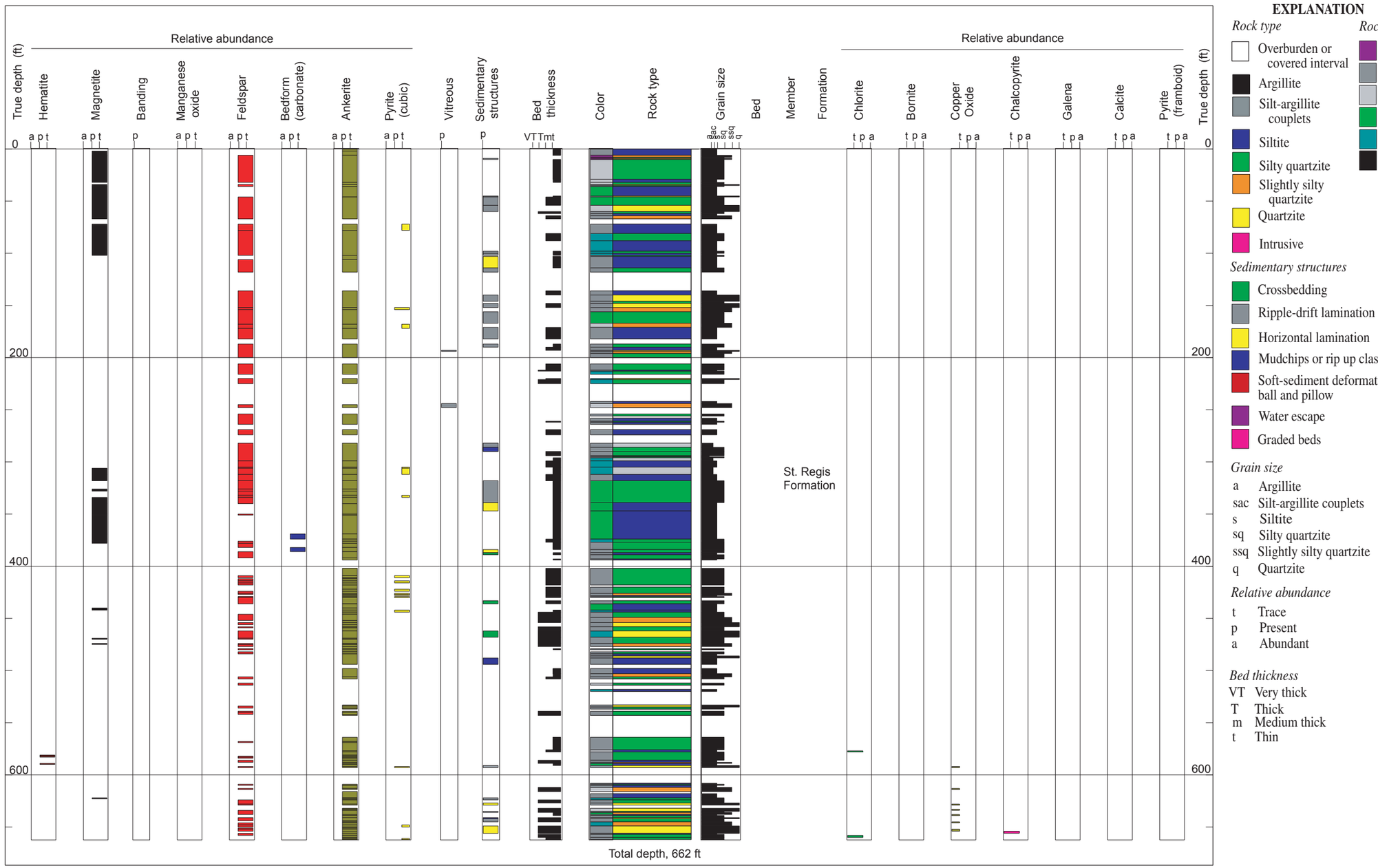
U.S. GEOLOGICAL SURVEY

SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-121



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-121. North Fork of Coeur d'Alene Section 20 measured section

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

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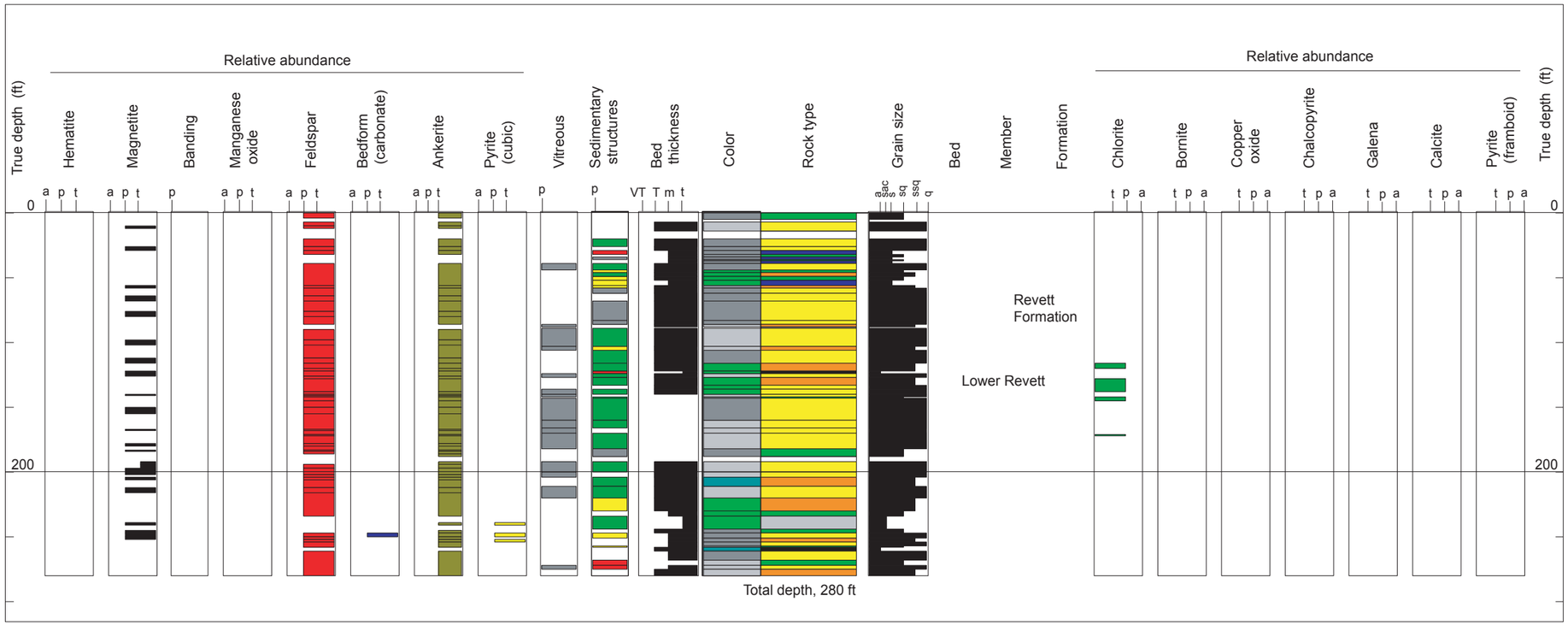
SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-122



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-122. North Fork of Coeur d'Alene Section 25 measured section

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

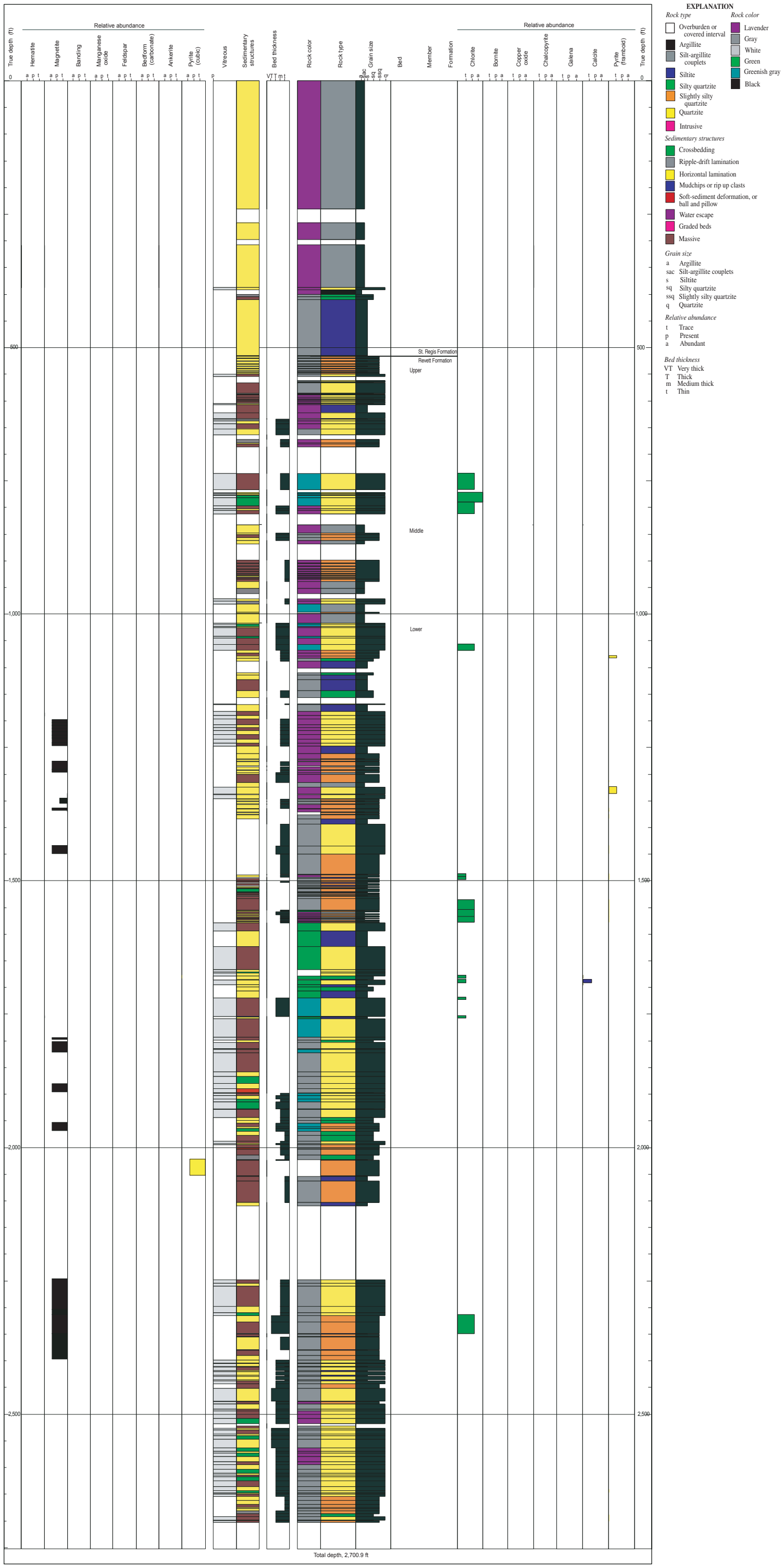


Figure A-123. Hope (David Thompson Game Preserve) measured section
By David E. Boleneus, Jeremy C. Larsen, and Kenneth C. Assmus

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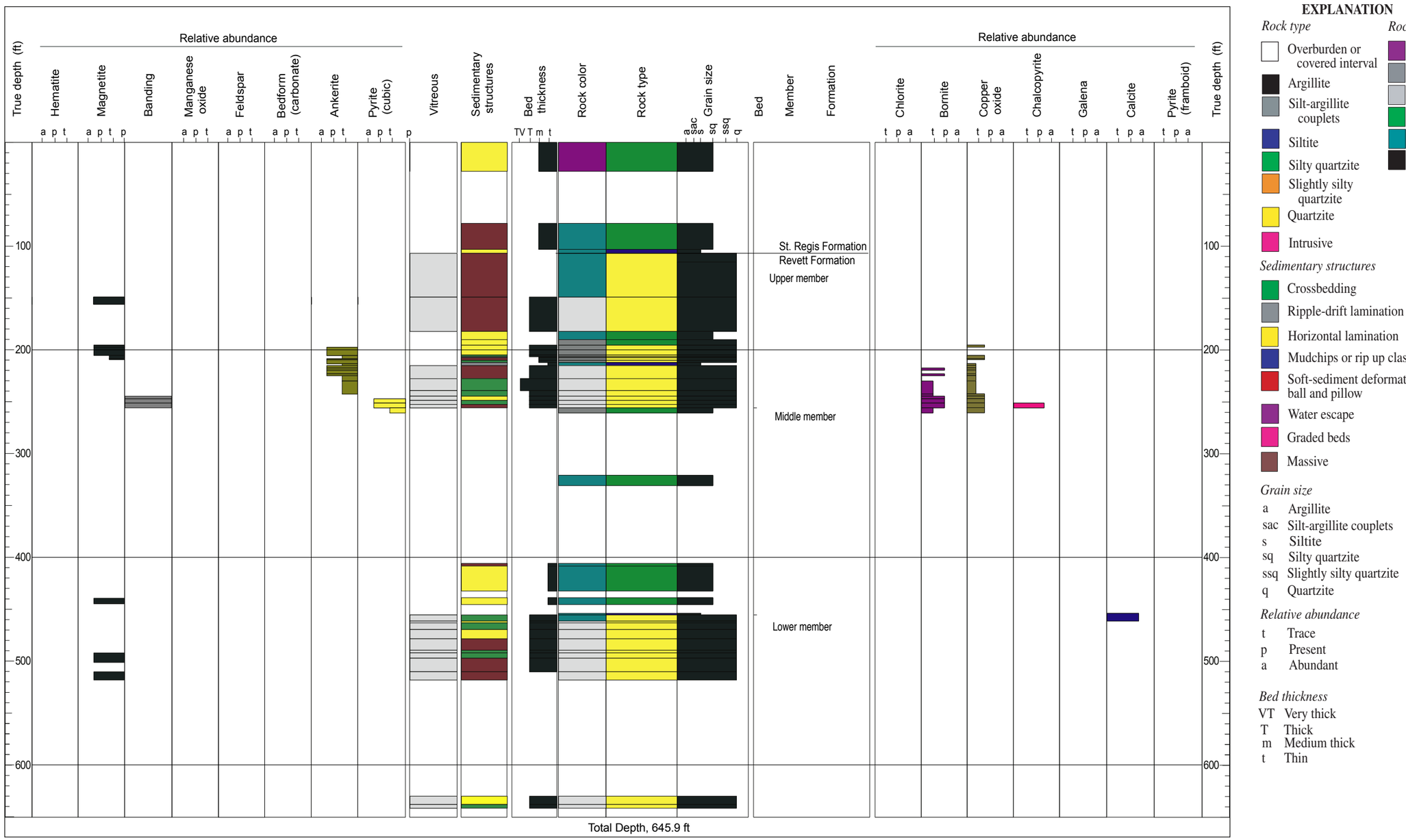
U.S. GEOLOGICAL SURVEY

SCIENTIFIC INVESTIGATIONS REPORT 2005-5231
FIGURE A-124



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
- Massive

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-124. Military Gulch (upper) measured section

By David E. Boleneus, Jeremy C. Larsen and Kenneth C. Assmus

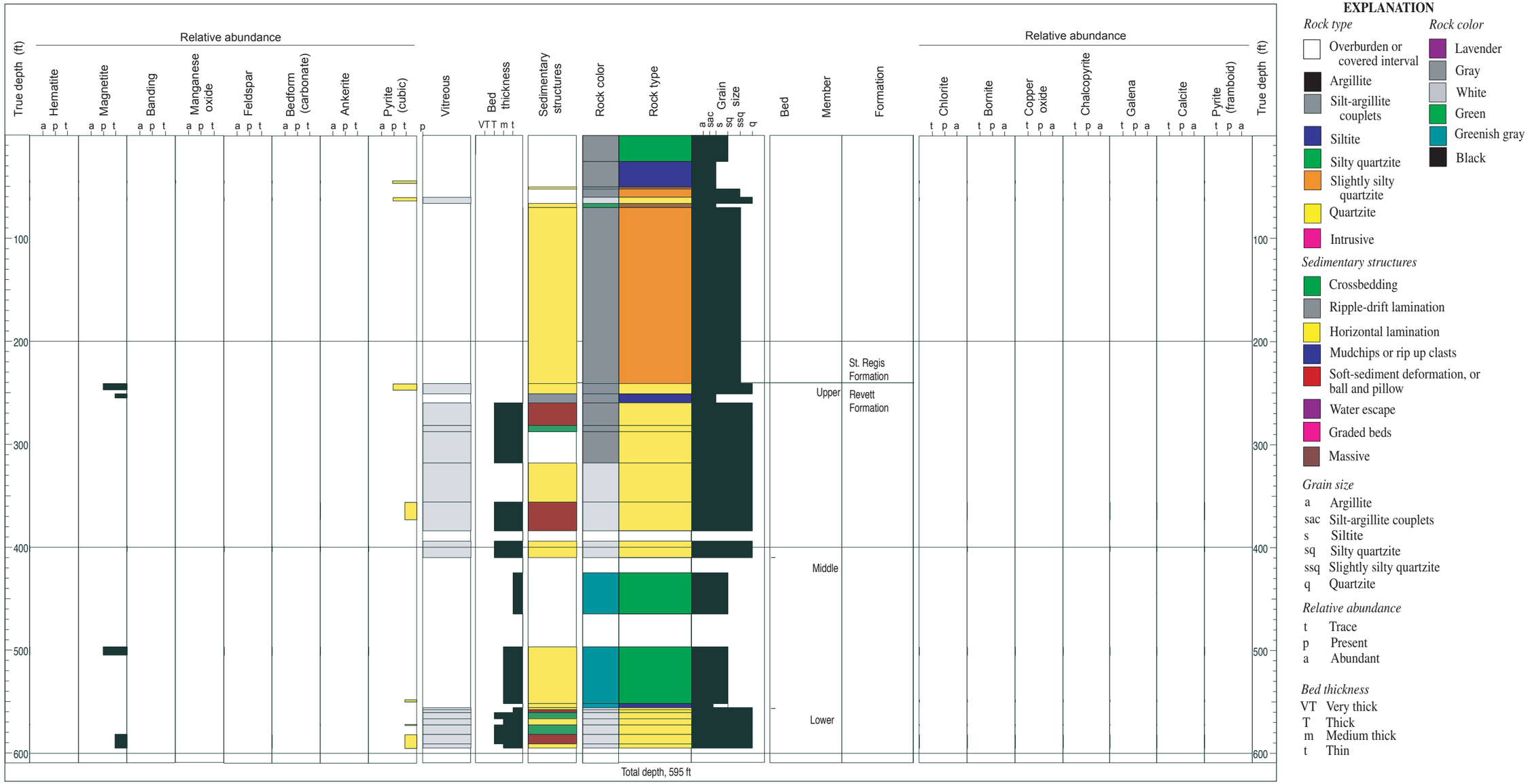


Figure A-125. Military Gulch (lower) measured section

By David E. Boleneus, Jeremy C. Larsen and Kenneth C. Assmus

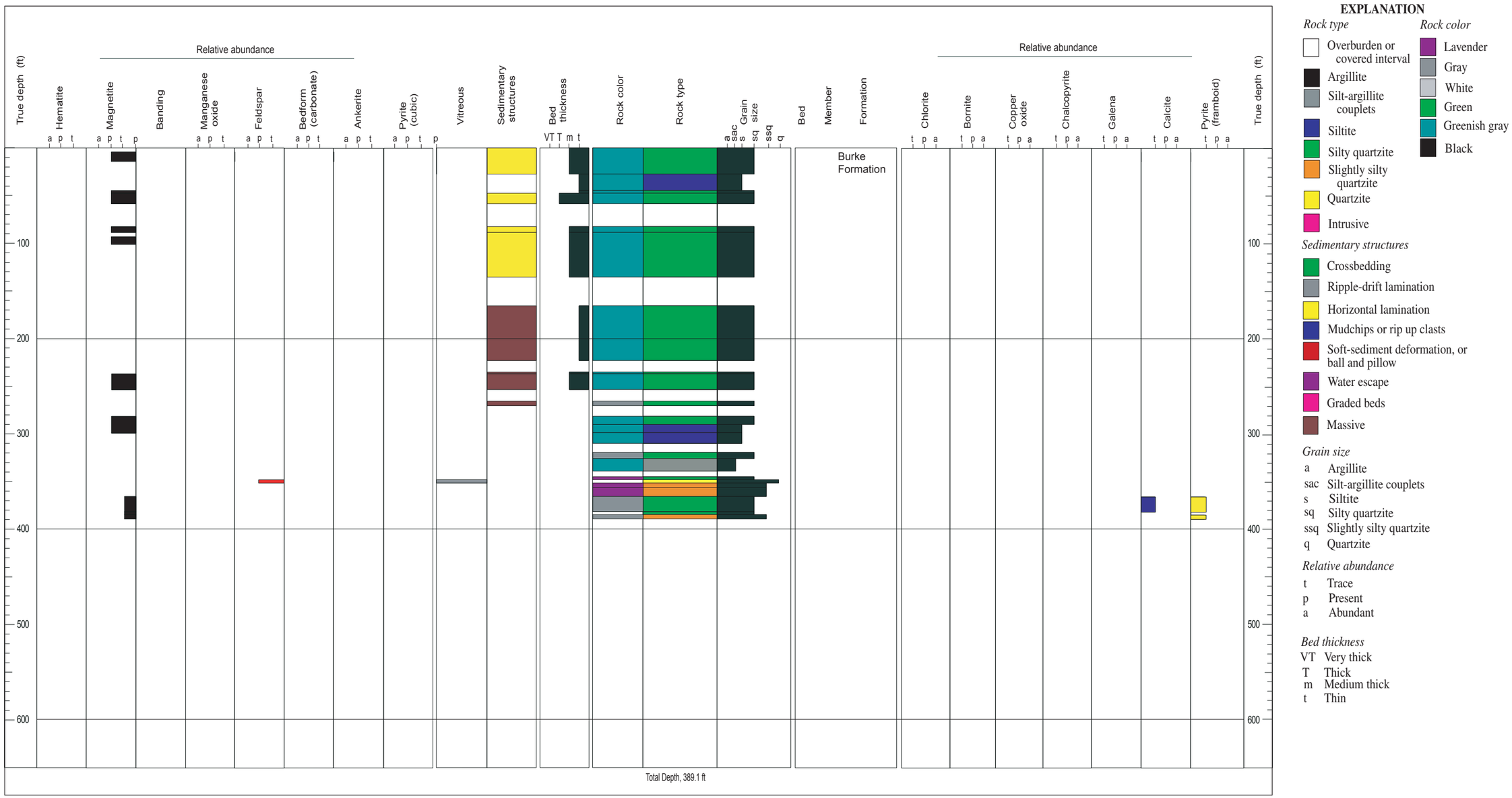


Figure A-126. Lower Glidden Lake measured section

By David E. Boleneus, Jeremy C. Larsen and Kenneth C. Assmus