

Reedsville Shale¹

Upper Ordovician: Central Pennsylvania, eastern Tennessee, and southwestern Virginia.

Original reference: E. O. Ulrich, 1911, Geol. Soc. America Bull., v. 22, pl. 27.

Charles Butts and E. S. Moore, 1936, U.S. Geol. Survey Bull. 855, p. 43-45, pls. 1, 3. In Bellefonte quadrangle, Pennsylvania, 1,000 feet thick and consists of dark calcareous shale with thin layers of fossiliferous limestone. Thick-bedded calcareous sandstone at top, 40 feet thick, carrying *Orthorhynchula* and *Byssonichia*; *Orthorhynchula* zone. Overlies Trenton limestone; underlies Oswego sandstone.

G. M. Kay, 1944, Jour. Geology, v. 52, no. 2, p. 114. Restricted below to exclude about 400 feet of dark brownish-weathering shale herein named Antes shale.

John Rodgers, 1953, Tennessee Div. Geology Bull. 58, pt. 2, pls. Mapped in eastern Tennessee where, east of Kingston fault, it overlies unit 4 of Chickamauga limestone; thickness 250 to 400 feet. Underlies Sequatchie formation. In folio mapping the Reedsville was largely ignored though Hayes (1894, folio 4; 1895, folio 20) called it Athens shale and Keith (1901, folio 85) thought it represented featheredge of Sevier shale.

R. L. Miller and W. P. Brosgé, 1954, U.S. Geol. Survey Bull. 990, p. 71-73, measured sections. Described in Jonesville district, Lee County, Va., where it conformably overlies Trenton limestone and conformably underlies Sequatchie formation. Thickness 282 to 460 feet.

F. M. Swartz, 1957, Pennsylvania State Univ., Dept. Geology Contr. 3, 58p. From Tyrone Gap to Susquehanna Gap, underlies Bald Eagle sandstone (Centennial School member, new, in western part of area).

H. H. Arndt and others, 1959, Geol. Soc. America Guidebook Pittsburgh Mtg., p. 7, pl. 1. Reedsville of central Pennsylvania is equivalent to Martinsburg formation of eastern Pennsylvania. Transitional with underlying Trenton limestone; underlies Bald Eagle formation. Thickness approximately 1,000 feet.

Named for exposures at Reedsville, Mifflin County, Pa.

Reedsville shale.

Upper Ordovician: Central Pennsylvania to southwestern Virginia.

E. O. Ulrich, 1911 (Geol. Soc. Am. Bull., vol. 22, pl. 27). In central Pa. *Reedsville sh.* underlies *Oswego* (Bald Eagle) and overlies Lower Trenton ls. Includes beds of Upper Trenton, Eden, and lower Maysville age.

E. O. Ulrich, 1913 (12th Int. Geol. Cong., Canada, p. 42). *Reedsville sh.*—A great mass of sh., aren. at top, occupying whole interval btw. top of Trenton ls. and base of *Oswego* ss. Seems to constitute an indivisible formational unit. Top is characterized by fossils that seem to belong to top of Fairview div. of Maysville. Lower part is of Eden age.

Reedsville sh. as recognized by U. S. Geol. Survey applies to western belt of rocks of Utica, Eden, and lower Maysville age, from central Pa. to SW. Va., the eastern belt of rocks of these ages being represented in upper part of Martinsburg sh. In Blair Co., Pa., the *Reedsville* is 1,000 ft. thick. According to C. Butts (U. S. G. S. Hollidaysburg-Huntingdon folio, No. 227) the Utica is represented in *Reedsville*. In SW. Va. the *Reedsville* is overlain by *Sequatchie fm.*

Named for exposures at *Reedsville*, Mifflin Co., Pa.

Reedsville Fm.

1962

Conlin, R. R., and Hoskins, D. M., Geologic map of the Mifflintown quadrangle, Pennsylvania: Pa. Top. and Geol. Survey, 4th series, Atlas 126.

Upper Ord.

S-cent. Pennsylvania

Reedsville Fm.

1962

McBride, E. F., Flysch and associated beds of the
Martinsburg Formation (Ordovician), Central Ap-
palachians: Jour. Sed. Pet., vol. 32, No. 1

p. 40

G(200)
J84

Ordovician

Cent. Appalachians

Reedsville Fm.

1962

Conlin, R. R., and Hoskins, D. M., Geology and mineral resources of the Mifflintown Quadrangle, Pennsylvania: Pennsylvania Top. and Geol. Survey, 4th Ser., Atlas A-126

p. 6

(223)

F

Ord.

Central Pennsylvania

*Harris, L. D., and others, Geology of the Coleman Gap Quadrangle, Tennessee-Virginia: USGS GQ Map 188 Described & location of representative section stated.

Upper Ord.

SE Virginia
NE Tenn.

Reedsville shale

1963

Milici, R. C., and others, (compilers), Geologic
Map of Virginia (Scale 1:500,000)

Ord.

Virginia

Reedsville sh.

1963

Brent, W. B., Geology of the Clinchport Quadrangle,
Virginia: Virginia Div. Mineral Resources Rept.
Inv. 5 (new name)

(227).

V82ri

Plate 1, Tables 1, 2

p. 30

Middle Ordovician

SW Virginia

Reedsville Gp.

1963

Arkle, Thomas, Jr., Centennial field trip,
May 5-9 (Sponsored by West Virginia Geol. and
Econ. Survey): Assoc. Amer. State Geologists,
Strat. column, p. 5 and p. 26

G(200)

qAs8mg

Upper Ord.

Appalachian Plateau
West Virginia

Reedsville Sh.

1963

*Englund, K. J., and others, Geology of the Varilla
Quadrangle, Kentucky-Virginia: USGS GQ Map 190

Upper Ordovician

SE Kentucky

Reedsville Sh.

1963

*Englund, K. J., and others, Geology of the Ewing
Quadrangle, Kentucky and Virginia: US Geol. Survey
Bull. 1142-B. (new names)

p. 8

Late Ordovician

SE Kentucky

Reedsville

1963

_____, Map; and Correlation [chart] of stratigraphic units in central and south-central Pennsylvania and western Maryland:

G(200)

Ap4g

Upper Ord.

Pennsylvania
& Maryland

Reedsville Sh.

1963

*Harris, L. D., and Miller, R. L., Geology of
the Stickleyville Quadrangle, Virginia: USGS
GQ Map 238

Upper Ordovician

SW Virginia

Reedsville Sh.

1964

Englund, K. J., Geology of the Middlesboro South
quadrangle, Tennessee-Kentucky-Virginia

USGS Map GQ-301 (1:24,000)

SE Kentucky
NE Tennessee
SW Virginia

Up. Ord.

Reedsville Sh.

1964

Finlayson, C. P., Geologic map of the White Hollow quadrangle, Tenn. (1:24,000): Tenn. Div. Geology Geol. Map GM 145-SW.

Ord.

NE. Wennessee

Reedsville Sh.

1964

Swingle, G. D., Geologic map of the Clinton quadrangle,
Tennessee: Tenn. Div. Geol. GM 137 SW (Scale 1:24,000)

E. Tennessee

Ord.

Reedsville shale

1964

Englund, K. J., and others, Geol. of the Middlesboro
north quad., Ky. (1:24,000): USGS GQ Map 300

Up. Ord.

SE Kentucky

Reedsville s h.

1965

Maher, S. W., Field Trip # 1, East Tennessee Marble
District: Am. Crystall. Assoc. & Mineral. Soc.
Amer., Guidebook, June (Gatlinburg, Tenn.)

p. 9-17

· 15

203(230)

qJ668g

Pa.

M. Ord.

EC. Tenn.

Reedsville sh.

1965

Miller, R. L., Geologic map of the Big Stone Gap
quadrangle, Virginia: (1:24,000) USGS GQ 424.

U. Ord.

W. Va.

Reedsville sh.
(Chickamauga gp.)

1965

Harris, L. D., Geologic map of the Wheeler quadrangle, Claiborne County, Tennessee, and Lee County, Virginia: (1:24,000) USGS GQ Map 435.

U. Ord.

NE Tenn.

Reedsville Sh.

1966

Swingle, G.D., Hardeman, W.D., Miller, R.A., and Fullerton, D.S., Geologic Map of Tennessee: Tennessee. Div. Geology, State Geol. Map at scale 1:250,000 in 4 sheets - W, WC, EC, E).

Ord.

Tenn.

Reedsville Sh.

1966

Horowitz, D. H., Evidence for Deltaic Origin of an
Upper Ordovician Sequence in the Central
Appalachians: in Deltas in their Geologic Frame-
work, Houston Geol. Soc. (ed. M.L. Shirley)

p. 159-168

552

Sh 66d

incl. Doylesburg Ss. Mbr.

M.-U. Ordov.

C. Appalachians

7-13-67

Reedsville Fm.

1966

* Pierce, K. L., Bedrock and Surficial Geology
of the McConnellsburg Quadrangle, Pennsylvania:
Pennsylvania. Geol. Survey, 4th Ser., Topog. &
Geol. Atlas 109a.

p. 1-111

(223)

F

18

Publication of Ken Pierris
Yale PhD Thesis. Work not
done under auspices of
USGS at Time.
U. Ord. CD 9/21/79

SC. Pa.

Reedsville Sh. (revised)

1967

Patchen, D. G., Newburg Gas development in West
Virginia: West Virginia. Geol. & Econ. Survey,
Circ. Ser. No. 6, Mar.

P. 3 (Fig. 1)

(228)
qW3c

formerly Martinsburg

U. Ord.

CW: W. Va.

Reedsville Sh.

1967

Clark, G. M., Structural Geomorphology of a Portion
of the Wills Mountain Anticlinorium, Mineral and
Grant Counties, West Virginia: Dissert. Abs.,
sec. B, v. 28, no. 6, Dec.

p. 2477

043
qD63

U. Ord.

NE. West Virginia

Reedsville Sh.
(Martinsburg Fm.)

1968

Cardwell, D.H., Erwin, R.B., and Woodward, H.P.,
Geologic Map of West Virginia: West Virginia.
Geol. & Econ. Survey, scale at 1:250,000.
(in 2 sheets)

Ord.



West Virginia

Reedsville Sh.

1968

Englund, K. J., Geology and Coal Reserves of the
Elk Valley Area, Tennessee and Kentucky: USGS
PP. 572.

p. 1-59
7

U. Ord.

NE. Tenn.-SE. Ky.

Reedsville Fm.

1968

Thompson, A. M., Facies Succession in a Marine -
Continental Transition in the Upper Ordovician of
Central Pennsylvania: in Abs. for 1967, GSA Spec.
Paper 115.

p. 297

G(200)
G29sp

U. Ord.

C. Pa.

Reedsville fm.

1968
pub.

Bretsky, S. S. and others, Zoogeography and
Synecology of a Late Ordovician Brachiopod
Community (Central Appalachians): in Abs. for
1967, GSA Spec. Paper 115.

p. 23

G(200)
G29sp

U. Ord.

E. & C. Pa. - N. Va.

Reedsville Sh.

1969

Englund, K. J., Geologic Map of the Jellico West
Quadrangle, Kentucky-Tennessee: USGS Geol. Quad.
Map GQ-855.

section only

NE. Tenn.-
SE. Ky.

U. Ord.

1970

Reedsville Sh.

Walker, L. G., Physical Stratigraphy of the Ordovician
Martinsburg Formation & its Lateral Equivalents in
Southwestern Virginia: Southeastern Geology, v. 11,
no. 4, June.

p. 215 - 229

G(231)

So8

216, 217, 225

Ord.

SW. Va.

Reedsville Fm.

1970

Thompson, A. M., Lithofacies and Formation
Nomenclature in Upper Ordovician Stratigraphy,
Central Appalachians: GSA Bull., v. 81, no. 4,
Apr. p. 1255-60

G(200)

G29

U. Ord.

C. Pa.-WC. Va.

1970

Reedsville Fm.

Okuma, Angelo, Geology of the Carbonate Rocks of
Path Valley, Franklin County, Pennsylvania:
Pennsylvania. Topog. & Geol. Survey, Prog. Rept. 179.
(223)
B

U. Ord.

SC. Pa.

Reedsville Sh.

1970

Harris, L. D., Mixon, R. B., Geologic Map of
the Howard Quarter Quadrangle, Northeastern
Tennessee: USGS Geol. Quad. Map GQ-842.

NE. Tenn.

U. Ord.

Reedsville Sh. (geog. ext.?)

1971

Miller, R.L. & Roen, J.B., Geologic Map of the
Keokee Quadrangle, Virginia-Kentucky: USGS Geol.
Quad. Map GQ-851.

U. Ord.

Ky.-
SW. Va.

1971

Reedsville Fm. (Sh.) (actual age)

Lapham, D. M. and Root, S. I., Summary of
Isotopic Age Determinations in Pennsylvania:
Pennsylvania. Topog. & Geol. Survey, Inf.
Circ. 70. p. 1-29 age (223)

Ic

21(T.2)

444[±]9 m.y.
372[±]8m.y.

McConnellsburg,
Pa.

Reedsville Sh. (geog. ext.)

1972

*Perry, W. J. Jr., The Trenton Group of Nittany
Anticlinorium, Eastern West Virginia: West Virginia
Geol. & Econ. Survey, Circ. #13. (228)

p. 1-30

qW3c .

5 (T. 1)

ext. to WV fr PA

M. Ord.

Pendleton Co.,
EC. WV

Reedsville Fm. (lith. ch.)

1972

McGlade, W. G.; Geyer, A. R.; Wilshusen, J. P.,
Engineering Characteristics of the Rocks of
Pennsylvania: Pennsylvania Bur. Topog. & Geol.
Survey, Bull. EG #1. ["Lexicon" of Pa. Strat. Names]
p. 1-200 (223)

156

Eg

Sh. in B. 1200

[copy on file - Lex. Unit]

Ord.

PA

Reedsville Sh. (geog. ext.)
(Maquoketa Supergp.)

1972

Dolly, E. D. & Busch, D. A., Stratigraphic, Structural,
& Geomorphological Factors controlling Oil Accumulation
in Upper Cambrian Strata of Central Ohio: AAPG Bull.,
v. 56, no. 12, Dec.

G(200)

p. 2335-68

Am3

2339 (F. 4)

2338-43 - details on thickness

Cincinnatian
Ord.

C. OH

Reedsville Fm. or Gp. (700-800')

1972

Rudd, N., Subsurface Liquid Waste Disposal & Its
Feasibility in Pennsylvania: Pennsylvania Topog.
& Geol. Surv., Environ. Geol. Rept. #3. (223)

p. 1-103

Eg

73 (F. 15)

74-86

80

to show location of geol. units in Pa.; many sands
listed

U. Ord.

(subsurf.)

W. PA

Reedsville Fm (900')

1973

Fail, R. T.; Wells, R. B.; Nickelsen, R. P.; &
Hoskins, D. M., Structure and Silurian-Devonian
Stratigraphy of the Valley & Ridge Province, Central
Pennsylvania: PA Gdbk #38, Oct. G(223)
p 1-165, 5-8 (T 1) qF45a

olive gray sts & sh w/ss

U Ord.

c. PA

Reedsville Sh. [~~geog. ext. to KY~~] [in subsurf, ky] 1973

*Froelich, A. J., Preliminary Report of the Oil and Gas Possibilities between Pine and Cumberland Mountains, Southeastern Kentucky; KY G. S. Rept. Inv. 14 (Ser. X). (238)

p. 1-12

K69r2

3 (F, 2)

[talked to author (MLH 6/20/83)]

under: Sequatchie Fm. (U. Ord.)

over: Trenton Ls. (M. Ord.)

Talked to author (MLH 6/20/83)

(subsurf) sc. KY

[(borders) VA]

U. Ord.

~~sc. KY~~

Reedsville Sh (1300')

1974

de Witt, W. Jr., Geol. Map of the Beans Cove and Hyndman Quads. and Part of the Fairhope Quad., Bedford Co., Pennsylvania: USGS I-801. [text shows detailed lith], p. 1-6

under: Bald Eagle Fm.(U. Ord.)

over : unnamed ls(M. Ord.)

sh, ls, sts, ss

U. Ord.

sc. PA

Reedsville Fm (2000')

1974

Marietta Geol. Soc., Some Geological Features
in Pendleton County, West Virginia, and Highland
County, Virginia: OH Intercol. Field Conf.
Gdbk. no. 25, Oct. (Dept. Geol., Marietta College).

[units appear to be in both states!] G(251)

p. 1-38, 11

q0h32g

lt green to gray sh w/gray ls & sts

under: Oswego Fm (Ord)

over: Dolly Ridge Fm (Ord)

Ord

ec. WV, wc. VA

REEDSVILLE SHALE

1975

Late Ordovician

Pennsylvania, Virginia, and Tennessee

Perry, W.J., Jr., 1975, Tectonics of the western Valley and Ridge foldbelt, Pendleton County, West Virginia--a summary report: U.S. Geol. Survey Jour. Research, v. 3, no. 5, p. 538-588.

Geographically extended into West Virginia.

Extended To WVA - See* Perry 1972
This deck of cards. CD 9/2/79

U. Ord.

WV, PA, VA, TN

Reedsville Sh (1000')
(lower pt is in Trenton Gp)

1976

Hunter, P. M.; Parizek, R. R., A structurally disturbed zone in central Pennsylvania...surface expression of a domain boundry?: 2nd Internatl Conf on basement tectonics, Proc, July

210

p. 111-121

In8p

116(F.5)..strat col (lith)

under: Oswego Ss (Ord)

over: Coburn Ls (Ord)

Nittany Valley

M to U.Ord (Champl-Cincinnati)

c.PA

Reedsville Fm. (275 m)

1977

Fail, R.T.; Wells, R.B.; Sevon, W.D., Geology and
Mineral Resources of the Linden and Williamsport Quad-
rangles, Lycoming County, Pennsylvania: PA Topog. + Geol
Survey Atlas #134 ab. p. 1-66, pls. 1 + 2 (223)
11-12 sh, sts w/ss gray, olive-gray F

fossils

under: Bald Eagle Fm.(U. Ord.)

over : Antes Fm.(M. Ord.)

U. Ord.

c. PA

Reedsville Sh [geog ext to WV]

1978

Perry, W. J. Jr., The Wills Mountain Anticline--a study
in complex folding and faulting in eastern West
Virginia: WV Geol & Econ Survey, Rept Inv 32 (228)
p. 1-29 [to show use in WV] W3ri
3(F.2), 4(F.3), 7..stratig

under: Juniata Fm and Oswego Ss (Ord)

over: Trenton Gp (Ord)

Ord

e.WV

Reedsville Fm

1979

Craft, J. L., Quality of gravel resources in north-
western Pennsylvania: PA G.S., 4th Ser, Info Circ 86
p. 1-54, 24-25(F.6)..strat col only (223)

[mod fr J. C. Tomikel & V. C. Shepps, PA Info Ic
Circ 56, 1967]

↪ p. 24 & 28(F.18 & 20)

under: Queenston Fm (Ord)

over: Utica Fm (Ord)

Ord

nw.PA

Reedsville Fm (900-1400')

1980

*Wood, C. R., Summary groundwater resources of Centre
County, Pennsylvania: PA Topog. & Geol. Survey, Water
Resource Rept. #48 (223)

p. 1-60, pl.1(map)..geol & aquifer status Bw
15-19(T.3)..strat sec..state usage..see ftnote #1
26

under: Bald Eagle Fm (U.Ord)

over: Coburn Fm, Trenton Gp (M.Ord)

U.Ord

c.PA

Reedsville Fm

1980

Berg, T.M. et al, Geologic Map of Pennsylvania: PA Dept.
Environ. Resources, Bur. Topog and Geol Survey, pl. 1:
(east and west) pl. 2: (cross sections) A.A. Socolow,
State Geologist (scale at 1:250,000)

M(223)2
1980p

Ord

PA

Reedsville Fm (overview) [ad lith]

1984

Rader, E.K., Stratigraphy of the western anticlines--a summary in Rader, E.K., and Gathright, T.M. II, Stratigraphy and structure in the thermal springs area of the western anticlines: VA Geol. Field Conf. Gdbk 16, Oct p. 1-12
fig. 1..geol map; table 1..strat col
3..depos environ: eastward prograding shallow shelf

G(227)

V818gf

presence of Orthorhynchula distinguishes unit from Oswego Fm; lith varies from sts and sh to ls and ss; range: 1000-1200'

under: Oswego Fm (Late Ord)

over: Eggleston/Dolly Ridge Fms (Late Ord)

Late Ord

wc VA

Reedsville Fm (1,500-2,000') [state usage] 1985

Dean, S.L., Kulander, B.R., and Lessing, Peter, Geology of the Capon Springs, Mountain Falls, Wardensville, Woodstock, and Yellow Springs quadrangles, Hampshire and Hardy Counties, West Virginia: WC Geol & Econ Survey, Map-WV 26 M(228)2 C173d

(or Martinsburg Fm)

dark sh; weathers to lt yellow, tan, & red; sparsely fossilif; extensive cleavage masks bedding

under: Oswego Ss
base of sec

Ord

ec. WV