Yates Formation (in Artesia Group)

Yates Sandstone (in Whitehorse Group)

Permian: Subsurface in Texas and subsurface and surface in New Mexico.

G. C. Gester and H. J. Hawley, 1929, Structure of typical American oil fields: Tulsa, Okla., Am. Assoc. Petroleum Geologists, v. 2, p. 487, 488. In Yates field, upper division of Permian is known as "Anhydrite series" and ranges in thickness from 650 to 750 feet. Yates is 50-foot sandstone that occurs 100 to 150 feet below top of Anhydrite series and from 500 to 550 feet above top of "brown lime," topmost member of "Big lime" in this field.

R. K. DeFord, G. D. Riggs, and N. H. Wills, 1938, (abs.) Am. Assoc. Petroleum Geologists Bull., v. 22, no. 12, p. 1706. Yates sand has been traced from subsurface to surface outcrop and top of Yates mapped from Carlsbad to McKittrick Canyon. Subdivision of Whitehorse-Capitan is simplified. From top downward, it is subdivided into Carlsbad, Yates, Seven Rivers, and Queen. This involves redefinition of the Carlsbad.

See AAPG B. v. 45, #9, '61: Type Sec.

P. T. Hayes, 1957, U.S. Geol. Survey Geol. Quad. Map GQ–98. Formation included in Carlsbad group. Overlies Seven Rivers formation; underlies Tansill formation.

Term Artesia Group (D. B. Tait and others, 1962, Am. Assoc. Petroleum Geologists Bull., v. 46, no. 4) used in preference to Whitehorse Group in New Mexico.

Named from subsurface sections in Yates field in Pecos County, Tex.

Yates Formation (Redefined) 1961

Mear, C. E., and Yarbrough, D. V., Yates Formation in southern Permian Basin of West Texas: AAPG Bull., v. 45, no. 9
p. 1545-1548, 1555-1556

Proposed that Yates Fm. be expanded to include all the section bounded at the top by the base of the Tansill Fm. and at the bottom by the top of the Seven Rivers Fm. Type section designated.

Whitehorse gr.
Guadalupe ser.
Permian

subsurface
Texas

Yates Fm. (reassigned) 1962

Tait, D. B., and others, Artesia Group of New Mexico and West Texas: AAPG Bull., v. 46, no. 4
Fig. 4, p.504

Overlies Seven Rivers Fm.
Underlies Tansill Fm.
One of five units of Artesia Gp. (new)

Permian

E New Mexico
W Texas

Yates Fm. 1962

Brand, J. P., and DeFord, R. K., Geology of eastern half of Kent Quadrangle, Culberson, Reeves, and Jeff Davis Counties, Texas: Texas Bur. Econ. Geol. Quad. Map 24

Guadalupe Ser.
Permian

West Texas

Yates fm.

1962

Motts, W. S., Correlation of Upper Permian shelf rocks in parts of New Mexico, Texas, and Oklahoma: GSA Spec. Paper 68 (abs.)

G(200)
G29sp

Upper Permian

SE New Mexico

Yates Fm.

1964

Hayes, P. T., Geology of the Guadalupe Mountains, New Mexico: U.S. Geol. Survey Prof. Paper 446

Plates 1, 3

p. 12, 33

Artesia Gp.

Permian

SE New Mexico

Yates Fm.

1963

Mear, C. E., Stratigraphy of Permian outcrops, Coke County, Texas: AAPG Bull., v. 47, no. 11.

G(200)
Am3

p. 1952, 1956, 1958

Guadalupe Ser.
Permian

Central Texas

Yates fm.

Aug. 1965

Wood, J. W., Geology of Apache Mountains, Trans-Pecos Texas: Dissert. Abs., v. 26, no. 2.

p. 987

Permian

Trans-Pecos

Yates Fm.

1966

Waldschmidt, W. A., Geologic Framework of the Permian Basin:

in Oil and Gas Fields in West Texas, West Texas Geol. Soc., symposium #66-52.

p. 7

Permian

W. Texas

6-20-67

Yates Fm.
(Carlsbad gp.)

1967

Redfield, R. C., Brantley Reservoir Site — An Investigation of Evaporite and Carbonate Facies: in Engineering Geology, Assoc. Eng. Geol., Bull., v. 4, no. 2, July. G(200)
p. 14-30 En335
(p. 16, 20)

Guadalupe ser.
M. Perm.

(Pecos River)
SE. New Mex.

Yates Ss.
(Whitehorse Gp.)

1967

Iglehart, H. H., Occurrence and Quality of Ground Water in Crockett County, Texas: Texas. Water Devel. Bd., Rept. 47, May.

p. 15

490(245)
qT29r

Guadalupe Ser.

Perm.

WC. Texas

Yates Fm.

1967

Cox, E. R., Geology and Hydrology between Lake McMillan and Carlsbad Springs, Eddy County, New Mexico: USGS WSP-1828.

p. 15

Perm.

SE New Mexico

Yates Fm.

1967

Flawn, P. T. (dir.), Geologic Atlas of Texas, Van Horn - El Paso Sheet: Texas. Univ., Bur. Econ. Geology, scale - 1:250,000.

text in
(245)
qG29a

Perm.

WC. Texas

Yates ss.
(Whitehorse Gp.)

1968

Thornton, D.E. and Gaston, H.H. Jr., Geology and Development of Lusk Strawn Field, Eddy and Lea Counties, New Mexico: AAPG Bull., v. 52, no. 1, Jan.

p. 66-81 (p. 68.)

G(200)
Am3

Guadalupe Ser.
U. Perm.

SE. New Mexico

Yates Fm.

1968

Mear, C. E., Upper Permian Sediments in Southeastern Permian Basin, Texas: GSA Spec. Paper 88, Saline Deposits, Symp...1962.

p. 349-358
354

G(200)
G29Sp

Guadalupe Ser.
U. Perm.

WC: Texas

Yates Fm.

1968

Flawn, P. T. (dir.), Geologic Map of Apache Mountains and Vicinity, Culberson County, Texas: Texas. Univ., Bur. Econ. Geology, Geol. Quad. Map no. 35, scale - 1:63,360.

Guadalupe Ser.
Perm.

WC. Texas

Yates Ss.
(Artesia Gp.)

1968

*White, D. E., Ground-Water Resources of Upton County, Texas: Texas. Water Devel. Bd., Rept. 78, May.

p. 10-11

490(245)
qT29r

Perm.

WC. Texas

Yates Fm.

1968

Wilde, G.L. and Todd, R.G., Guadalupian Biostratigraphic Relationships and Sedimentation in the Apache Mountain Region, West Texas: SEPM, Permian Basin Sec., Symp. & Guidebook, Pub. 68-11.
p. 10-31

336(245)
qSo15g

mapped with Tansill Fm.

21

Perm.

W. Tex.

Yates Fm. 1968

Motts, W. S., The Control of Ground-Water Occurrence by Lithofacies in the Guadalupian Reef Complex: GSA Bull., v. 79, no. 3, Mar.

G(200)
G29

p. 283-298

Perm. SE . N. M.

Yates Fm. 1969

Silver, B. A. and Todd, R. G., Permian Cyclic Strata, Northern Midland and Delaware Basins, West Texas and Southeastern New Mexico: AAPG Bull., v. 53, no. 11, Nov. G(200)
p. 2223-51 Am3
2249

Perm. W. Tex.-SE. N.M.

Yates Fm. (surface type sec. desig.)

1971

Lanphere, Starr, A Proposed Type Section for the Yates Formation: GSA Abs with Prog., v. 3, no. 3, Feb. p. 240 G(200) G3a

new type sec. proposed located in N.M. (Eddy Co.)

Guadalupian

Perm.

~~Pecos Co.~~ Texas + N.M.

Yates Fm.
(Artesia Gp.)

1971

Kelley, V. C., Geology of the Pecos County, Southeastern New Mexico: New Mexico. Bur. Mines and Mineral Resources, Mem. 24.
p. 1 - 75 6(T.1)

(272)
qMe

17

Perm.

SE. N.M.

Yates Fm. 1972

McNeal, R. P. and Hemenway, G. A., Geology of Fort Stockton Sulfur Mines, Pecos County, Texas: AAPG Bull., v. 56, no. 1, Jan. G(200)
p. 26 - 37 Am3

29

over: Salado Fm.

Perm. Texas

Yates Fm. 1972

Motts, W.S., Geology and Paleoenvironments of the Northern Segment, Capitan Shelf, New Mexico and West Texas: GSA Bull., v. 83, no. 3, Mar.
p. 701 - 722 G(200)
703(Fig.2) G29

to show use

Guadalupe Ser.
Perm. N.M. †
West Tex.

Yates Fm. (thickness) 1972
(Artesia Gp.)

Kelley, V. C., Geology of the Fort Sumner Sheet, New Mexico: New Mexico Bur. Mines & Mineral Resources, Bull. 98. (272)
p. 1-55 B
(detailed rept.) 18, 19 - meas. sec.
with Tansill = 250-350 ft.

Guadalupe
Perm. N.M.

Yates Fm. (ref. sec.) 1972
(Artesia Gp.)

Lanphere, S., Proposed Surface Reference Section for Yates Formation, Eddy County, New Mexico: AAPG Bull., v. 56, no. 8, Aug. G(200)
p. 1534-1540 Am3
1535 (F. 2)-sec.
1536 - ref. loc.
1540-thickness: 313.5 ft.
detailed report

W. TX
Perm. SE. NM

Yates Fm. 1977
(up. Artesia Gp)
Pray, L.C. and Esteban, M. (eds.), Upper Guadalupian facies, Permian Reef Complex, Guadalupe Mtns., NM + w. TX: SEPM, Perm. Basin Sec. Gdbk, v.2, pub. #77-16. [road logs; field descr.] [area: Walnut Canyon-Carlsbad Caverns] 336(245)
p. 1-194, 4(F.2B)..loc. map+gen. strat. sec. qSo15g
86(F.I-1), 87, 92(F.II-1)...picture, 94(F.II-2), 120(F.III-1)
incl. field terms:

Triplet ss-dol-ss[beds/units]
Hairpin dol-ss-dol[beds/units]
Corral unit[bed]
Primitive Road dol[bed/unit]

under: Tansill Fm.(up. A. Gp, dol. unit)
Low. + U. Perm. se. NM

Yates Fm (upper) 1977

Neese, D. A. and Schwartz, A. H., Facies mosaic of the upper Yates and lower Tansill Formations, Walnut and Rattlesnake Canyons, Guadalupe Mountains, New Mexico: SEPM, Perm Basin Sec Pub 77-76 Gdbk

p. 437-450 (units all are well exp) 336(245)
440(F.2)..strat secs qSo15g
442(F.3)..strat secs
443(F.4)..strat secs
448-449

under: basalt dol unit, Tansill Fm
incl. inf subdiv: Triplet unit
Hairpin Dol unit

Perm NM

Yates - Tansill unit (0-276') 1984

(Artesia Gp)

Broadhead, R.F., Subsurface petroleum geology of Santa Rosa Sandstone (Triassic), northeast New Mexico: NM Bur. Mines + Mineral Resources, Circ 193. unconf. under: Santa Rosa Fm (272) P. 1-23 over: Seven Rivers Fm g C

10 .. ms and ss w/ minor dol and ls

Late Perm (Guadalupian) subsurf ne. NM