

WEST TEXAS AND SOUTHEASTERN NEW MEXICO										NEW MEXICO AND TEXAS PANHANDLE										Map interval
West Texas provincial series	International series <sup>1</sup>	Russian stages	Map subdivisions	Glass Mountains Brester County (1)	Guadalupe Mountains (back reef facies) (2)	Guadalupe Mountains (reef facies) (3)	Delaware basin (fore-reef facies) (4)	Franklin and Huco Mountains and Sierra Diablo (5)	Central Basin platform (6)	Midland basin (7)	Eastern shelf (8)	Crocket and northern Val Verde Counties (9)	Chinle Mountains and Pinta Canyon area, Presidio County (10)	Central and middle southern New Mexico (11)	Central New Mexico (west of Pecos River) (12)	Central eastern New Mexico (13)	Northeastern New Mexico (14)	Southwestern part of Texas Panhandle (15)	Northeastern part of Texas Panhandle, Oklahoma Panhandle (16)	Map interval
Ochoa	Upper Permian	Tatarian	Interval D (pl. 7)	Tessie Limestone	Salado Formation	Salado Formation	Salado Formation	Salado Formation	Salado Formation	Salado Formation	Salado Formation	Salado Formation	Salado Formation			Salado Formation	Salado Formation			
Guadalupe		Kazanian	Interval C (pl. 6)	Capitan Limestone	Yasilli Formation	Yasilli Formation	Yasilli Formation	Yasilli Formation	Yasilli Formation	Yasilli Formation	Yasilli Formation	Yasilli Formation	Yasilli Formation			Yasilli Formation	Yasilli Formation			C-D (pl. 5)
Leonard	Lower Permian	Artinskian	Interval B (pl. 4)	Leonard Formation	Victorio Peak Limestone	Victorio Peak Limestone	Victorio Peak Limestone	Victorio Peak Limestone	Victorio Peak Limestone	Victorio Peak Limestone	Victorio Peak Limestone	Victorio Peak Limestone	Victorio Peak Limestone			Victorio Peak Limestone	Victorio Peak Limestone			B (pl. 4)
		Sakmarian	Interval A (pl. 3)	Wolfcamp Formation	Limestone and gray mudstone and dark gray to black mudstone with thin limestone	Limestone and gray mudstone and dark gray to black mudstone with thin limestone	Limestone and gray mudstone and dark gray to black mudstone with thin limestone	Limestone and gray mudstone and dark gray to black mudstone with thin limestone	Limestone and gray mudstone and dark gray to black mudstone with thin limestone	Limestone and gray mudstone and dark gray to black mudstone with thin limestone	Limestone and gray mudstone and dark gray to black mudstone with thin limestone	Limestone and gray mudstone and dark gray to black mudstone with thin limestone	Limestone and gray mudstone and dark gray to black mudstone with thin limestone			Limestone and gray mudstone and dark gray to black mudstone with thin limestone	Limestone and gray mudstone and dark gray to black mudstone with thin limestone			A (pl. 3)

CENTRAL OKLAHOMA										EASTERN COLORADO										Map interval
Map interval	Northwestern (17)	South of Wichita Mountains (18)	Andarko basin south of Wichita Mountains (19)	Southwestern (20)	North-central (21)	Northeastern (22)	Western Nebraska (23)	Kansas and eastern Nebraska (24)	Southwestern (Black Hills) (25)	Northwestern (26)	South-central (27)	Southeastern (28)	South-central (29)	North-central (30)	South-central (31)	South-central (32)	Central (33)	North-central (Big Horn Basin) (34)	West-central (35)	West Texas provincial series
C-D (pl. 5)	Quartermaster Formation	Quartermaster Formation	Quartermaster Formation	Day Creek Dolomite	Day Creek Dolomite	Day Creek Dolomite	Day Creek Dolomite	Day Creek Dolomite	Day Creek Dolomite	Day Creek Dolomite	Day Creek Dolomite	Day Creek Dolomite	Day Creek Dolomite	Day Creek Dolomite	Day Creek Dolomite	Day Creek Dolomite	Day Creek Dolomite	Day Creek Dolomite	Day Creek Dolomite	Quartermaster and Leonard
B (pl. 4)	Chickasha Sandstone	Chickasha Sandstone	Chickasha Sandstone	Chickasha Sandstone	Chickasha Sandstone	Chickasha Sandstone	Chickasha Sandstone	Chickasha Sandstone	Chickasha Sandstone	Chickasha Sandstone	Chickasha Sandstone	Chickasha Sandstone	Chickasha Sandstone	Chickasha Sandstone	Chickasha Sandstone	Chickasha Sandstone	Chickasha Sandstone	Chickasha Sandstone	Chickasha Sandstone	Leonard
A (pl. 3)	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wolfcamp

WYOMING										MONTANA										Map interval
Map interval	Northwestern (36)	Western (37)	Southwestern (38)	Southwestern (39)	North-central (40)	Northeastern (41)	Central-western and southwestern (42)	Central and southwestern (43)	Northwestern (44)	North-central (45)	South-central (46)	Southwestern Colorado and northern New Mexico (47)	Northwestern (48)	North-central (49)	South-central (50)	Southwestern (51)	Central (52)	North-central (53)	West-central (54)	West Texas provincial series
C-D (pl. 5)	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Guadalupe and Ochoa (?)
B (pl. 4)	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Leonard
A (pl. 3)	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wolfcamp

NEVADA										IDAHO										Map interval
Map interval	Northwestern (55)	Western (56)	Southwestern (57)	Southwestern (58)	North-central (59)	Northeastern (60)	Central-western and southwestern (61)	Central and southwestern (62)	Northwestern (63)	North-central (64)	South-central (65)	Southwestern (66)	Northwestern (67)	North-central (68)	South-central (69)	Southwestern (70)	Central (71)	North-central (72)	West-central (73)	West Texas provincial series
C-D (pl. 5)	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Guadalupe and Ochoa (?)
B (pl. 4)	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Leonard
A (pl. 3)	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wolfcamp

OREGON										CALIFORNIA										Map interval
Map interval	Northwestern (74)	Western (75)	Southwestern (76)	North-central (77)	Central (78)	South-central (79)	Southwestern (80)	Northwestern (81)	North-central (82)	South-central (83)	Southwestern (84)	Northwestern (85)	North-central (86)	South-central (87)	Southwestern (88)	Northwestern (89)	North-central (90)	South-central (91)	Southwestern (92)	Map interval
C-D (pl. 5)	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Shedhorn Sandstone	Guadalupe and Ochoa (?)
B (pl. 4)	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Phosphoria Formation	Leonard
A (pl. 3)	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wichita Formation	Wolfcamp

<sup>1</sup> The position of the boundary between the Upper and Lower Permian series in the United States is not established.

<sup>2</sup> The lower Permian unit in the Val Verde Through area may be partly Pennsylvanian in age.

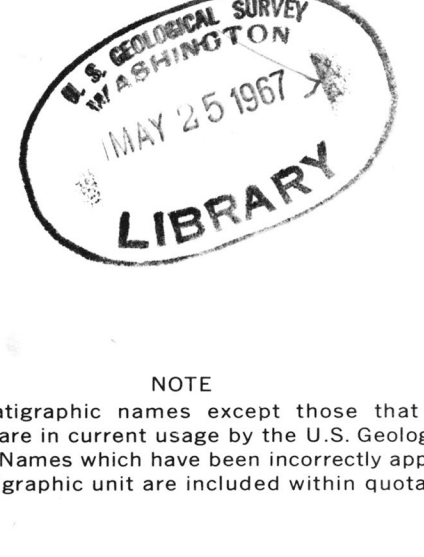
<sup>3</sup> Of Gila and Bonanza (1905).

<sup>4</sup> Age of White Mountain Plutonic Volcanic Series based on lead-uranium dating.

<sup>5</sup> Washington Formation includes rocks of latest Pennsylvanian and earliest Permian age.

<sup>6</sup> Age not known but assigned to Permian System on basis of color and gypsum content.

<sup>7</sup> Of Permian(?) age; not assigned to any Permian interval.



NOTE  
All stratigraphic names except those that are italicized are in current usage by the U.S. Geological Survey. Names which have been incorrectly applied to a stratigraphic unit are included within quotation marks.

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