

Appendix Table DR1

Section number	Section Name	Location	Reference	Age	Thickness (m)	Number of units	KS p value	Curve classification
1	Na Segura	Mallorca	Oswald, E. J., 1992, Dolomitization of a Miocene reef complex, Mallorca, Spain: Unpublished Ph.D dissertation, State University of New York at Stony Brook, 424 p.	Miocene	100	48	0.031	Indeterminate
2	Sa Cova				53	48	0.045	Indeterminate
3	Sa Torre				44	40	0.406	Exponential
4	San Pedreras				37	59	0.098	Indeterminate
5	Cova d'es Hossos				60	43	0.390	Exponential
6	Cap Blanc				68	24	0.980	Exponential
7	Unda Unda	Bahamas	Kievman, C. M., 1998, Match between late Pleistocene Great Bahama Bank and deep-sea oxygen isotope records of sea level: Geology, Vol. 26, Issue 7, pp.635-638.	Plio-Pleistocene	153	56	0.182	Exponential
8	Well- W-15303	Florida	Hammes, U., 1992, Sedimentation patterns, sequence stratigraphy, cyclicity, and diagenesis of early Oligocene carbonate ramp deposits, Suwannee Formation, Southwest; Unpublished Ph.D dissertation, University of Colorado at Boulder.	Oligocene	410	110	0.550	Exponential
9	Canon Pruito	Sierra Escadide, Coahuila Mexico	Lehmann, C. T., 1997, Sequence stratigraphy and platform evolution of Lower Cretaceous (Barremian-Albian) carbonates of northeastern Mexico; Ph.D dissertation, University of California at Riverside : Riverside, CA.	Albian	504	284	0.000	Type 2
10	Potero Garcia	Monterrey, Mexico	Goldhammer R. K., Lehmann, P. J., Todd, R. G., Wilson, J. L., Ward, W. C., and Johnson, C. R., 1991a, Sequence stratigraphy and cyclostratigraphy of the Mesozoic of the Sierra Madre Oriental, northeast Mexico, a field guidebook: Gulf Coast Section, Society of Economic Paleontologists and Mineralogists, 85 p.	Lower Cretaceous	275	214	0.066	Indeterminate
11	Sierra de el Abras	San Louis Potosi, Mexico	Enos, P., Minero, C.J., Aguayo-Camargo, J. Eduardo, Stephens, Bryan P., 1990, Sedimentation and diagenesis of Middle Cretaceous platform margins, east-central Mexico: Dallas Geol. Soc. : Dallas, TX, United States. Prep. for Geol. Soc. Am. 1990 annual meeting, Geol. Soc. Am. field trip No. 1, held Oct. 24-28.	Aptian-Albian	149	63	0.581	Exponential
12	Laguna Colorado	Sierra Madre, Mexico	Minero, C.J., 1991, Sedimentation and diagenesis along open and island-protected windward carbonate platform margins of the Cretaceous El Abra Formation, Mexico: Sedimentary Geology, Vol. 71, Issue 3-4, pp. 261-288.	Middle Cretaceous	327	116	0.000	Type 1
13	Hondo Creek	Bandera County, Texas	Perkins, B.F., 1985, Caprinid reefs and related facies in the Comanche Cretaceous Glen Rose Limestone of central Texas, in, Bebout, Don G. Ratcliff, Doug (eds.), Lower Cretaceous depositional environments from shoreline to slope; a core workshop: Earth Enterp. : Austin, TX, United States, pp. 129-140.	Cretaceous, Comanchean	43	67	0.285	Exponential
14	Pipe Creek				38	55	0.282	Exponential
15	Kiddhouse Canyon	Pecos, Texas	Kerans, C., 1997, Stratigraphic architecture of a greenhouse carbonate ramp, Cretaceous (Albian-Cenomanian) of Pecos River canyon, Texas: Annual Meeting Abstracts - American Association of Petroleum Geologists, Vol. 6, pp. 59-60.	Cretaceous	137	110	0.071	Indeterminate
16	Moose Canyon				95	56	0.503	Exponential
17	Well GU1 #1	East Texas	Goldhammer, R. K., 1996, High resolution reservoir architecture of Late Jurassic Haynesville ramp carbonates in the Gladewater Field, East Texas salt basin: Annual Meeting Abstracts - American Association of Petroleum Geologists and Society of Economic Paleontologists and Mineralogists, 1996, Vol. 5, pp. 54.	Middle Jurassic	72	60	0.001	Type 1
18	Zuluoga	Sierra Bunuelos, Saltillo, Mexico	Goldhammer R. K., Lehmann, P. J., Todd, R. G., Wilson, J. L., Ward, W. C., and Johnson, C. R., 1991a, Sequence stratigraphy and cyclostratigraphy of the Mesozoic of the Sierra Madre Oriental,	Upper Jurassic	381	272	0.000	Type 2
19	Zuluoga,	El Penasco,			1114	137	0.000	Type 2

	PENCJ	Mexico	northeast Mexico, a field guidebook: Gulf Coast Section, Society of Economic Paleontologists and Mineralogists, 85 p.						
20	Dajiang 2	Guizhou Province, south China	Lehrmann, D. J., 1993, The Great Bank of Guizhou: Birth Evolution and Death of an Isolated Triassic Platform, Guizhou Province, South China [Unpublished Ph.D. thesis]: University of Kansas, 457 p.	Mid Scythian	140	165	0.004	Type 3	
21	Dawen 2	Guizhou Province, south China		Mid Scythian	164	180	0.055	Indeterminate	
22	Rungbao section,	Guizhou province, south China		Ladinian	653	305	0.000	Type 3	
23	Reimsnhsus	Steinernes Meer, Austria	Goldhammer, R. K.; Dunn, P. A.; Hardie, L. A., 1990, Depositional cycles, composite sea-level changes, cycle stacking patterns, and the hierarchy of stratigraphic forcing; examples from Alpine Triassic platform carbonates: Geological Society of America Bulletin, Vol. 102, Issue 5, pp. 535-562.	Triassic	187	168	0.000	Type 3	
24	Gulf PDB-04 research core	Carlsbad, New Mexico	Garber, R. A., Grover, G. A., and Harris, P. M., 1989, Geology of the Capitan shelf margin - subsurface data from the northern Delaware Basin, in Harris, P. M., and Grover, G. A., eds, Subsurface and Outcrop Examination of the Capitan Shelf Margin, Northern Delaware Basin: Society of Economic Paleontologists and Mineralogists, Core Workshop, no. 13, p. 3-372.	Upper Permian Guadalupian and Ochoan	268	151	0.002	Type 2	
25	Slaughter Canyon 2C	Guadalupe National Park, New Mexico	Rankey, E. C., and Lehrmann, D. J. 1996, Anatomy and origin of toplap in a mixed carbonate-clastic system, Seven Rivers Formation (Permian, Guadalupian), Guadalupe Mountains, New Mexico, USA, <i>Sedimentology</i> , v. 43, p. 807-826.	Upper Permian, Guadalupian	82	69	0.568	Exponential	
26	Johnson gb-sa 1905		No reference available	Permian	108	100	0.021	Indeterminate	
27	21-23s-20e, Lawyer Canyon	Guadalupe Mountains, New Mexico	Kerans, C., and Fitchen, W. M., 1995, Sequence stratigraphy and facies architecture of a carbonate ramp system: San Andres Formation of Algerita Escarpment and western Guadalupe Mountains, West Texas and New Mexico: Bureau of Economic Geology, University of Texas at Austin, Report of Investigations, no. 235, 86 p.	Permian	363	172	0.101	Exponential	
28	Unnamed	Arrow Canyon, Nevada	Rankey, E. C., 1996, Isolating eustatic, climatic, tectonic, and autogenic controls on sedimentation: spatial and temporal changes in Upper Virginian-Lower Wolfcampian (Pennsylvanian-Permian) strata, western North America: Unpublished, Ph.D dissertation, University of Kansas, 267p.	Pennsylvanian	141	90	0.280	Exponential	
29	Unnamed	Arco Hills, Idaho	366		207	0.052	Indeterminate		
30	Holdfac		Goldhammer, R. K., Oswald, E. J., and Dunn, P. A., 1991, Hierarchy of stratigraphic forcing; example from Middle Pennsylvanian shelf carbonates of the Paradox Basin, in Franseen, E. K., Watney, W. L., Kendall, Christopher G. st., Ross, W., eds., Sedimentary modeling; computer simulations and methods for improved parameter definition, Kansas Geological Survey Bulletin, no 233, p. 361-413.	Pennsylvanian	245	122	0.001	Type 1	
31	Honaker Trail	Paradox Basin, Utah	193		110	0.000	Type 1		
32	Honaker Trail	Paradox Basin, Utah	Gianniny, Gary L., 1995, Facies and sequence stratigraphic evolution of the mixed carbonate-siliciclastic strata, lower Desmoinesian, Southwest Paradox Basin, Utah: Unpublished Ph.D. dissertation: University of Wisconsin at Madison 368 p.	Lower Desmoinesian	154	100	0.021	Indeterminate	
33	Goldminers Gulch		515		131	0.028	Indeterminate		
34	Holiday Drive	Kansas City, Kansas	Watney, Lynn, French, John, Heckel, Philip, Franseen, Evan, 1993, Stop 6; Roadcuts along I-435 near Holliday Road exit; section from Chanute Shale to Stanton Limestone, in . Buchanan, Rex, McCauley,	Pennsylvanian	209	111	0.000	Type 1	

			Jim, Guidebook for the Lawrence/Kansas City field trip: Open-File Report - Kansas Geological Survey, pp. 105-114						
35	sheep Mtn 2	Bighorn Mountains, Wyoming	Sonnenfeld, Mark D., 1996, Sequence evolution and hierarchy within the Lower Mississippian Madison Limestone of Wyoming in, Longman, Mark W., Sonnenfeld, Mark D. (eds.), Paleozoic systems of the Rocky Mountain region: Society for Sedimentary Geology, Rocky Mountain Section, United States, p. 165-192.	Lower Mississippian	223	413	0.000	Type 4	
36	M.L. Brown, 9 Maune Well	Finney County, Kansas	Handford, C. Robertson, 1988, Review of carbonate sand-belt deposition of ooid grainstones and application to Mississippian reservoir, Damme Field, southwestern Kansas: AAPG Bulletin, October 1988, Vol. 72, Issue 10, pp. 1184-1199	Mississippian	36	39	0.226	Exponential	
37	Unnamed	Pillara, Canning Basin	Read, J. F., 1973, Carbonate cycles, Pillara Formation (Devonian), Canning Basin, Western Australia: Bulletin of Canadian Petroleum Geology, v. 21, p. 38-51.	Devonian	1351	221	0.000	Type 1	
38	Unnamed	Coronation Mountain	McLean, D. J., and Mountjoy, E. W., 1994, Allocyclic control on Late Devonian buildup development, southern Canadian Rocky Mountains: Journal of Sedimentary Research, v. B64, p. 326-340.	Devonian	299	176	0.000	Type 2	
39	Unnamed	Barns Hill, Western Utah	Harris, Mark T., Sheehan, Peter M., 1996, Upper Ordovician-Lower Silurian depositional sequences determined from middle shelf sections, Barn Hills and Lakeside Mountains, eastern Great Basin, in Witzke, Brian J., Ludvigson, Greg A., Day, Jed (eds.), Paleozoic sequence stratigraphy; views from the North American Craton. Special Paper - Geological Society of America, 1996, Vol. 306, pp. 161-176.	Upper Ordovician - Lower Silurian	440	301	0.000	Type 1	
40	Unnamed	Arbuckle Mountains, I-35, Oklahoma	Goldhammer, R.K., and Lehmann, P. J., 1990, Unpublished section. Lower Ordovician Arbuckle Group. I-35 roadcut, Arbuckle Mountains, Oklahoma.	Cambro-Ordovician	859	765	0.000	Type 2	
41	Section E	Dam number 5, Cealrspring, Md	Demicco, R. V., 1981, Comparative Sedimentology of an ancient carbonate platform: the Conococheague Limestone of the central Appalachians: Unpub. Ph. D. diss., Johns Hopkins University, Baltimore, Md, 333 p.	Upper Cambrian	328	295	0.000	Type 2	
42	Beach Mountains	West Texas	Goldhammer R. K., Lehmann, P. J., and Dunn, P. A., 1993, The origin of high frequency platform carbonate cycles and third-order sequences (Lower Ordovician El Paso Gp, West Texas); constraints from outcrop data and stratigraphic modeling: Journal of Sedimentary Research, v. 63, no. 3, p. 318-359.	Lower Ordovician	256	245	0.000	Type 2	
43	Franklin Mountains				280	293	0.000	Type 2	
44	Hueco Mountains				259	251	0.000	Type 2	
45	IS Section	South side I-40, ~1.5 Km east of deep springs road	Rankey, E. C., Walker, K. R.; Srinivasan, K., 1994, Gradual establishment of lapetan 'passive' margin sedimentation; stratigraphic consequences of Cambrian episodic tectonism and eustasy, Southern Appalachians: Journal of Sedimentary Research, Section B: Stratigraphy and Global Studies, August 15, 1994, Vol. 64, Issue 3, pp. 298-310	Cambrian	65	93	0.510	Exponential	
46	I40 onramp, from	Deep Spring Road to I-40	Goldhammer, R. K.; Dunn, P. A.; Lehmann, P. J., Cycle and sequence dynamics of Lower Ordovician platform carbonates of the Great American Bank (USA); constraints from inverse and two-dimensional forward modeling: Annual Meeting Abstracts - American Association of Petroleum Geologists and Society of Economic Paleontologists and Mineralogists, 1992, Vol. 1992, pp. 46-47.	Cambrian	240	218	0.000	Type 3	
47	Sockless Road				78	54	0.196	Exponential	
48	Beekman 2				Cambro-Ordovician	76	193	0.011	Indeterminate
49	Beekman 4					41	98	0.017	Indeterminate
50	Beekman 5					49	164	0.004	Type 1
51	Beekman 6					15	74	0.794	Exponential
52	Beekman 7		Montanez, I, P, and Osleger, D. A., 1993, Parasequence stacking patterns, third order accommodation events, and sequence stratigraphy of Middle to Upper Cambrian platform carbonates, Bonanza King			47	134	0.001	Type 1
53	Desert Range					810	645	0.000	Type 2
54	Frenchman Mountain					395	490	0.000	Type 2

55	Funeral Mountain		Formation, southern Great Basin, in Loucks, R. G., and Sarg, J. F., Carbonate Sequence Stratigraphy: Recent Developments and Applications, American Association of Petroleum Geologists, Memoir 57, p. 305-326.		733	595	0.000	Type 2
56	Nopah Range			Cambro-Ordovician	900	594	0.000	Type 2