

Dwight E. Deal, Ph.D., CPG

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Publications [90]

1. Deal, D. E., 1998, Summary of the Brine Sampling and Evaluation Program, Chapter 7 in "Occurrences of Brine in the Salado Formation", a review document prepared for the U.S. Department of Energy by Sandia National Laboratories and Westinghouse Electric Corporation, Carlsbad New Mexico.
2. Deal, D. E., 1995, "Summary of Brine Investigations at the Waste Isolation Pilot Plant," *DOE-WIPP 96-2161*, prepared for the U.S. Department of Energy by IT Corporation and Westinghouse Electric Corporation, Carlsbad, New Mexico, 42 p.
3. Deal, D. E., 1995, "Fluid Flow Through Very Low Permeability Materials: A Concern in the Geological Isolation of Waste, " *Waste Management '94, Waste Processing, Transportation, Storage and Disposal*, Technical Programs and Public Education, R. G. Post, ed..
4. Howarth, S., K. Larsen, T. Christain-Fear, R. Beauheim, D. Borns, D. Deal, A. L. Jensen, K. Knowles, D. Powers, R. Roberts, M. Tierney, and S. Webb, 1995, "Systems Prioritization Method - Iteration 2, Baseline Position Paper: Salado Formation Fluid Flow and Transport Containment Group"; Prepared for the U. S. Department of Energy by Sandia National Laboratories, Albuquerque, NM, March 17, 1995, 192 p.
5. Deal, D. E., R. J. Abitz, R. H. Holt, J. Myers, D. S. Belski, and P. P. James Lipponer, 1995, "Brine Sampling and Evaluation Program, 1992-1993 Report," *DOE-WIPP 94-011*, prepared for the U.S. Department of Energy by IT Corporation and Westinghouse Electric Corporation, Albuquerque, New Mexico, 260 p.
6. Deal, D. E., and R. A. Bills, 1994, "Conclusions after Eleven Years of Studying Brine at the Waste Isolation Pilot Plant," *Waste Management '94, Waste Processing, Transportation, Storage and Disposal*, Technical Programs and Public Education, R. G. Post, ed., Vol. 1, p. 533-540.
7. Deal, D. E., R. H. Holt, M. Melvin, and S. M. Djordjevic, 1994, "Calculation of Brine Seepage from Anhydrite Marker Bed 139 into a Waste Storage Room at the Waste Isolation Pilot Plant (WIPP)," *DOE-WIPP 94-007*, prepared for U.S. Department of Energy by IT Corporation and Westinghouse Electric Corporation, Albuquerque, New Mexico, 20 p.
8. Deal, D. E., R. J. Abitz, J. Myers D. S. Belski, M. L. Martin, D. J. Milligan, R. W. Sobocinski, and P. P. James Lipponer, 1993, "Brine Sampling and Evaluation Program, 1991 Report," *DOE-WIPP 93-026*, prepared for the U.S. Department of Energy by IT Corporation and Westinghouse Electric Corporation, Albuquerque, New Mexico, 180 p.
9. Deal, D. E., R. J. Abitz, J. B. Case, D. S. Belski, and M. L. Martin, 1991, "Brine Sampling and Evaluation Program, 1990 Report," *DOE-WIPP-91-036*, prepared for the U.S. Department of Energy by Westinghouse Electric Corporation and IT Corporation, Carlsbad, New Mexico, 310 p.

10. Deal, D. E., R. J. Abitz, D. S. Belski, J. B. Clark, M. E. Crawley, and M. L. Martin, 1991, "Brine Sampling and Evaluation Program, 1989 Report," *DOE-WIPP-91-009*, prepared for the U.S. Department of Energy by Westinghouse Electric Corporation and IT Corporation, Carlsbad, New Mexico, 145 p.
11. Deal, D. E., and W. M. Roggenthen, 1991, "Evolution of Hydrologic Systems and Brine Geochemistry in a Deforming Salt Medium: Data from WIPP Brine Seeps," *Waste Management '91, Proceedings of the Symposium on Waste Management, Tucson, Arizona*, Vol. 1, p. 507–516.
12. Deal, D. E., and W. M. Roggenthen, 1990 "Evolution of the Hydrologic System in a Deforming Salt Medium," abstract, *Geological Society of America Abstracts with Programs*, Vol. 22, No. 7, p. A100.
13. Abitz, R., J. Myers, P. Drez, and D. E. Deal, 1990, "Geochemistry of Salado Formation Brines Recovered from the Waste Isolation Pilot Plant (WIPP) Repository," *Waste Management '90, Proceedings of the Symposium on Waste Management, Tucson, Arizona*, Vol. 2, p. 881–891.
14. Wallace, M. G., J. M. Pietz, B. A. Lauctes, J. B. Case, and D. E. Deal, 1990, "Coupled Fluid-Flow Through Deforming Salt Around the Excavations for the Waste Isolation Pilot Plant (WIPP) in the Permian Salado Formation," *Waste Management '90, Proceedings of the Symposium on Waste Management, Tucson, Arizona*, Vol. 2, p. 873–880.
15. Deal, D. E., R. J. Abitz, D. S. Belski, J. B. Case, M. E. Crawley, R. M. Deshler, P. E. Drez, C. A. Givens, R. B. King, B. A. Lactes, J. Myers, S. Niou, J. M. Peitz, W. M. Roggenthen, J. R. Tyburski, and M. G. Wallace, 1989, "Brine Sampling and Evaluation Program, 1988 Report," *DOE-WIPP-89-015*, prepared for the U.S. Department of Energy by Westinghouse Electric Corporation and IT Corporation, Carlsbad, New Mexico, 445 p.
16. Abitz, R., J. Myers, and D. E. Deal, 1989, "Geochemistry of Brines Collected in the Excavations for the Waste Isolation Pilot Plant (WIPP) in the Permian Salado Formation, SE New Mexico," abstract, *Geological Society of America Abstracts with Programs*, Vol. 21, No. 6, p. A317.
17. Deal, D. E., and W. M. Roggenthen, 1989, "The Brine Sampling and Evaluation Program (BSEP) at WIPP: Results of Four Years of Brine Seepage Data," *Waste Management '89, Proceedings of the Symposium on Waste Management*, Vol. 1, Tucson, Arizona, p. 405–406.
18. Francke, C., R. Carrasco, R. Cook, D. Deal, R. Deshler, and R. Williams, 1989, "Geotechnical Field Data and Analysis Report, July 1987–June 1988," *DOE-WIPP 89-009*, prepared for the U.S. Department of Energy by Westinghouse Electric Corporation and International Technology Corporation, Carlsbad, New Mexico, 2 vols.
19. Niou, S., and D. E. Deal, 1989, "Migration of Brine and Nitrogen in Creeping Salt," *Waste Management '90, Proceedings of the Symposium on Waste Management*, Vol. 1, Tucson, Arizona, p. 329–335.
20. Pietz, J. M., M. G. Wallace, B. A. Lauctes, J. B. Case, and D. E. Deal, 1989, "Coupled Fluid-Flow Modeling of Brines Flowing Through Deforming Salt Around the Excavations for the Waste Isolation Pilot Plant (WIPP) in the Permian Salado Formation," abstract, *Geological Society of America Abstracts with Programs*, Vol. 21, No. 6, p. A347.

21. Deal, D. E., 1988, "Brine Seepage into the Waste Isolation Pilot Plant (WIPP) Excavation," *Waste Management '88, Proceedings of the Symposium on Waste Management*, Tucson, Arizona, Vol. 2, p. 649–657.
22. Patrick, W., C. Brumleve, R. Carrasco, R. Cook, D. Deal, R. Deshler, R. Williams, J. VandeKraats, 1988, "Geotechnical Field Data and Analysis Report, July 1986–June 1987," *DOE-WIPP 87-017*, prepared for the U.S. Department of Energy by Westinghouse Electric Corporation and International Technology Corporation, Carlsbad, New Mexico.
23. Case, J. B., and D. E. Deal, 1987, "Preliminary Hydrologic and Geomechanical Evaluations of Brine Inflow from Bedded Salt to a Nuclear Waste Repository," abstract, *Geological Society of America Abstracts with Programs*, Vol. 19, No. 7, p. 614.
24. Deal, D. E., J. B. Case, R. M. Deshler, P. E. Drez, J. Myers, and J. A. Tyburski, 1987, "Brine Sampling and Evaluation Program, Phase II Report," *DOE-WIPP 87-010*, prepared for the U.S. Department of Energy by Westinghouse Electric Corporation and IT Corporation, Carlsbad, New Mexico, 193 p.
25. Deal, D. E., 1987, "Brine Occurrences in the Permian Salado Formation as Observed in the Underground Workings for the Waste Isolation Pilot Plant (WIPP) Project, Southeastern New Mexico," abstract, *Geological Society of America Abstracts with Programs*, Vol. 19, No. 7, p. 637–638.
26. Deal, D. E., 1987, "Moisture Content of the Salado Formation and Observed Brine Inflows into the WIPP Repository Excavations," *Proceedings of the Joint US/FRG Salt Geochemistry Workshop*, Albuquerque, New Mexico, September 22–23.
27. Deal, D. E., 1986, "Secondary Mineralization in the Excavations for the Waste Isolation Pilot Plant, Southeastern New Mexico," *Southwestern Cavers*, Southwestern Region, National Speleological Society, December.
28. Moran, S. R., K. L. Harris, D. E. Deal, and J. P. Bluemle, 1985, "Geologic Map of Bottineau County, North Dakota," *Geology of Bottineau County, North Dakota*, J. P. Bluemle, ed., North Dakota Geological Survey Bulletin 78, Part 1, 57 p.
29. Deal, D. E., 1983, "Preliminary Drilling of the Dolomite Aquifers in the Nizwa Area, Sultanate of Oman—A Field Report with Prospecting Recommendations," Internal Report, Public Authority for Water Resources, Muscat, Sultanate of Oman, 12 p.
30. Deal, D. E., 1983, compiler and author, with additional contributions by C. P. Calkins, C. I. Smith, and J. Wollebern, "Geology of the Solitario-Fresno Canyon Backcountry, West Texas," *Field Trip Guidebook*, Annual Meeting of the American Association of Petroleum Geologists and the Society of Economic Paleontologists and Mineralogists, Dallas Geological Society, Dallas, Texas, 74 p.
31. Deal, D. E., 1982, major contributor of several anonymous authors to "River-Runners Guide to the Canyons of the Rio Grande Along the Texas-Mexico Border," published by the Big Bend Natural History Association for the National Park Service, provides detailed maps, river mile-log, and geological guides, 4 vols. Project coordinator John Pearson, Dwight Deal photographs on P. 6, 11, 23 of the Lower Canyons volume.

32. Hay, H. B., D. E. Deal, and C. W. Martin, 1982, "Evaluation of the 1982 Richmond Sanitary District Solid Waste Study and Alternative Recommendations," Open File Report submitted to the Richmond Sanitary Board, Richmond, Indiana, and the Indiana State Board of Health, 54 p.
33. Deal, D. E., March 1981, "West Texas Groundwater, Part II," *Chihuahuan Desert Discovery*, Chihuahuan Desert Research Institute, p. 10–11.
34. Deal, D. E., September 1980, "West Texas Groundwater, Part I," *Chihuahuan Desert Discovery*, Chihuahuan Desert Research Institute, p. 10–11.
35. Deal, D. E., May 1979, "Rio Grande Studies: A Scientific Adventure," *Chihuahuan Desert Discovery*, Chihuahuan Desert Research Institute, p. 6–8.
36. Deal, D. E., 1978, "Evolution of the Rio Conchos—Rio Grande Drainage Basins of Northern Mexico and West Texas," A. W. Walton, and C. D. Henry, eds., *Cenozoic Geology of the Trans-Pecos Volcanic Field of Texas, Conference Proceedings and Guidebook*, Alpine, Texas, May 21-25; reprinted as *Bureau of Economic Geology Guidebook 19*, University of Texas at Austin, Austin, Texas, p. 137-146.
37. Deal, D. E., July 1978, "Geologic Description of the Chihuahuan Desert Research Institute Landsite," *Chihuahuan Desert Discovery*, Chihuahuan Desert Research Institute, p. 5–6.
38. Deal, D. E., 1978, "Geologic Environment of the Chinati Mountains, Presidio County, Texas," Interagency Report prepared by the Texas Natural Areas Study Group, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, for the Texas Parks and Wildlife Department and the Texas General Land Office, Austin, Texas, p. 24-39.
39. Deal, D. E., 1978, "Geologic Environment of the Franklin Mountains, El Paso, Texas," interagency report prepared by the Texas Natural Areas Study Group, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, for the Texas Parks and Wildlife Department and the Texas General Land Office, Austin, Texas, p. 23-48.
40. Deal, D. E., 1978, "Geologic Environment of the Lower Madera Canyon, Jeff Davis County, Texas," interagency report prepared by the Texas Natural Areas Study Group, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, for the Texas Parks and Wildlife Department and the Texas General Land Office, Austin, Texas, p. 24-52.
41. Deal, D. E., 1978, "Geologic Environment of the Quitman Mountains, Hudspeth County, Texas," interagency report prepared by the Texas Natural Areas Study Group, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, for the Texas Parks and Wildlife Department and the Texas General Land Office, Austin, Texas, p. 24-68.
42. Deal, D. E., 1978, "Geologic Environment of the Salt Basin, Hudspeth County, Texas," interagency report prepared by the Texas Natural Areas Study Group, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, for the Texas Parks and Wildlife Department and the Texas General Land Office, p. 25-45.
43. Deal, D. E., 1978, "Geologic Environment of the Southern Hueco Mountains, Culberson and Hudspeth Counties, Texas," interagency report prepared by the Texas Natural Areas Study Group, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, for the Texas Parks and Wildlife Department and the Texas General Land Office, Austin, Texas, 24-51.

44. Deal, D. E., 1978, "Geology of the Lower Canyons of the Rio Grande, Black Gap Game Refuge to Dryden," interagency report prepared by the Texas Natural Areas Study Group, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin, for the Texas Parks and Wildlife Department and the Texas General Land Office, p. 22-58.
45. Deal, D. E., 1977, "Climbers Turned Cavers," *Summit*, April-May, pp. 18-19 and 36, reprinted from the foreword to *Jewel Cave Adventure*, by H. and J. Conn, Zephyrus Press, New Jersey.
46. Deal, D. E., 1976, "Geologic Environment of Colorado Canyon of the Rio Grande, Presidio County, Texas," interagency report prepared by the Texas Natural Areas Study Group, Division of Natural Resources and Environment, University of Texas at Austin, for the Texas Parks and Wildlife Department, Austin, Texas, p. 17-70.
47. Deal, D. E., 1976, "Geologic Environment of Fresno Canyon, Presidio County, Texas," interagency report prepared by the Texas Natural Areas Study Group, Division of Natural Resources and Environment, University of Texas at Austin, for the Texas Parks and Wildlife Department, Austin, Texas, p. 17-66.
48. Deal, D. E., 1976, "Geologic Environment of the Bofecillos Mountains, Presidio County, Texas," interagency report prepared by the Texas Natural Areas Study Group, Division of Natural Resources and Environment, University of Texas at Austin, for the Texas Parks and Wildlife Department, Austin, Texas, p.17-98.
49. Deal, D. E., 1976, "Geologic Environment of the Rio Grande Woodlands Below Falcon Reservoir, Starr County, Texas," interagency report prepared by the Texas Natural Areas Study Group, Division of Natural Resources and Environment, University of Texas at Austin, for the Texas Parks and Wildlife Department, Austin, Texas, p. 13-26.
50. Deal, D. E., 1976, "Geologic Environment of the Solitario, Brewster, and Presidio Counties, Texas," interagency report prepared by the Texas Natural Areas Study Group, Division of Natural Resources and Environment, University of Texas at Austin, for the Texas Parks and Wildlife Department, Austin, Texas, p.17-66.
51. Deal, D. E., 1975, "Geologic Environment of the Alamosa Creek Drainage, Canadian River Breaks, Oldham County, Texas," interagency report prepared by the Texas Natural Areas Study Group, Division of Natural Resources and Environment, University of Texas at Austin, for the Texas Parks and Wildlife Department, Austin, Texas, p. 24-42.
52. Deal, D. E., 1975, "Geologic Environment of the Blue Elbow Swamp, Orange County, Texas," interagency report prepared by the Texas Natural Areas Study Group, Division of Natural Resources and Environment, University of Texas at Austin, for the Texas Parks and Wildlife Department, Austin, Texas, p. 22-38.
53. Deal, D. E., 1975, "Geologic Environment of the Devil's River-Dolan Creek Area, Val Verde County, Texas," interagency report prepared by the Texas Natural Areas Study Group, Division of Natural Resources and Environment, University of Texas at Austin, for the Texas Parks and Wildlife Department, p.25-53.
54. Deal, D. E., 1975, "Geologic Environment of the Devil's Sinkhole-Hackberry Creek Area, Nueces River Headwaters, Edwards and Real Counties, Texas," interagency report prepared by the Texas

- Natural Areas Study Group, Division of Natural Resources and Environment, University of Texas at Austin, for the Texas Parks and Wildlife Department, Austin, Texas, p. 22-48.
55. Deal, D. E., and R. G. Fieseler, 1975, "Cave Resources in the Devil's River-Dolan Creek Area, Val Verde County, Texas," interagency report prepared by the Texas Natural Areas Study Group, Division of Natural Resources and Environment, University of Texas at Austin, for the Texas Parks and Wildlife Department, Austin, Texas, p. 54-72.
 56. Deal, D. E., and R. G. Fieseler, 1975, "Cave Resources in the Devil's Sinkhole-Hackberry Creek Area, Nueces River Headwaters, Edwards and Real Counties, Texas," interagency report prepared by the Texas Natural Areas Study Group, Division of Natural Resources and Environment, University of Texas at Austin, for the Texas Parks and Wildlife Department, Austin, Texas, p. 49-67.
 57. Wermund, E. G., P. J. Cannon, D. E. Deal, R. A. Morton, and C. M. Woodruff, Jr., 1974, "Test of Environmental Geologic Mapping, Southern Edwards Plateau, Southwest Texas," *Geological Society of America Bulletin*, Vol. 85, pp. 423-432; abstract printed in *Geology*, Geological Society of America, Vol. 1, No. 4, p. 169.
 58. Deal, D. E., 1973, "Engineering Geology in Glaciated Areas," in *Notes for Ocean Engineering; Selected Topics in the Design of Fixed Offshore Platforms*, University of Texas at Austin, College of Engineering, Austin, Texas.
 59. Deal, D. E., 1973, "Geologic Environment of Matagorda Island," interagency report prepared by the Texas Natural Areas Study Group, Lyndon B. Johnson School of Public Affairs and the Texas Bureau of Economic Geology, University of Texas at Austin, for the Texas Parks and Wildlife Department, Austin, Texas, p. 29-115.
 60. Deal, D. E., 1973, "Geologic Environment of the Capote Falls Area, Presidio County, Texas," interagency report prepared by the Texas Natural Areas Study Group, Lyndon B. Johnson School of Public Affairs and the Texas Bureau of Economic Geology, University of Texas at Austin, for the Texas Parks and Wildlife Department, Austin, Texas, p. 46-142.
 61. Deal, D. E., 1973, "Geologic Environment of the Mount Livermore and Sawtooth Mountain Area, Davis Mountains, Texas," interagency report prepared by Texas Natural Areas Study Group, Lyndon B. Johnson School of Public Affairs and the Texas Bureau of Economic Geology, University of Texas at Austin, for the Texas Parks and Wildlife Department, Austin, Texas, p. 25-38.
 62. Deal, D. E., 1973, "Geologic Environment of the Victorio Canyon-Sierra Diablo Game Management Area, West Texas," interagency report prepared by the Texas Natural Areas Study Group, Lyndon B. Johnson School of Public Affairs and the Texas Bureau of Economic Geology, University of Texas at Austin, for the Texas Parks and Wildlife Department, Austin, Texas, p. 24-50.
 63. Deal, D. E., 1972, "Problems in Mid-Continent Quaternary Stratigraphy", , Geological Sciences Technical Session Seminar, The University of Texas at Austin, Austin, Texas, September 28, 1972
 64. Deal, D. E., 1972, "Cavern Development in the Sierra de El Abra and Sierra Madre Oriental, Mexico," *Sul Ross State University Research Studies Bulletin*, Sul Ross State University, Alpine, Texas.
 65. Deal, D. E., 1972, "Geology of Rolette County, North Dakota," *Bulletin 58*, North Dakota Geological Survey, 89 p.

66. Deal, D. E., 1972, "Hydrogeology of Limestone Terrains," *Sul Ross State University Research Studies Bulletin*, Sul Ross State University, Alpine, Texas.
67. Deal, D. E., 1972, "Quaternary Faunal Assemblage Near Toyah, Texas," *Sul Ross State University Research Studies Bulletin*, Sul Ross State University, Alpine, Texas.
68. Deal, D. E., 1972, "Quaternary Geology of the Gila Wilderness and Vicinity, New Mexico," *Sul Ross State University Research Studies Bulletin*, Sul Ross State University, Alpine, Texas.
69. Deal, D. E., 1972, "Vertebrate Quaternary Fauna Near Ft. Davis, Texas," *Sul Ross State University Research Studies Bulletin*, Sul Ross State University, Alpine, Texas.
70. Hill, C. A., D. H. Jagnow, and D. E. Deal, 1972, "Guadalupe Cave Survey Mineralogical Report for the Geologic Field Trip of 12 February 1972," *Guadalupe Cave Survey File Report* to the National Park Service, Carlsbad Caverns National Park, 7 p.
71. Deal, D. E., 1971, "Glacial Stratigraphy and Thin Till Sheets," abstract *Geological Society of America Abstracts with Programs*, Vol. 3, No. 7, p. 540.
72. Deal, D. E., 1970, "Karst Development and Associated Mineralization in the Black Hills," abstract, *Geological Society of America Abstracts with Programs*, Vol. 2, No. 5, p. 329.
73. Deal, D. E., 1970, "Quaternary Geology of Rolette County, North Dakota," PhD Dissertation, University of North Dakota, 134 p.
74. Deal, D. E., 1970, "Solution Breccias in Mississippian and Pennsylvanian Limestones on the West Flank of the Black Hills," abstract, *Geological Society of America Abstracts with Programs*, Vol. 2, No. 5, p. 330.
75. Deal, D. E., 1970, "Thin Till Sheets and Palimpsest Glacial Topography," abstract, *Abstracts for the First Biennial Meeting, American Quaternary Association*, Bozeman, Montana.
76. Deal, D. E., and A. F. Jacob, 1970, "Palimpsest Glacial Features and Ice-Walled Lake Sequence In and Around the Southeastern Turtle Mountains, North Dakota and Manitoba," abstract, *Canadian Geological Association and Mineral Association of Canada*, program and abstracts for the 1970 annual meeting.
77. Deal, D. E., and D. M. Huff, 1970, "Hydrodynamic Interpretations of Holocene Sediments Along the Turtle River, Northeastern North Dakota," *Proceedings of the North Dakota Academy of Science*, Vol. 2, Part 1, p. 6.
78. Moran, S. R., and D. E. Deal, 1970, "Glacial Lake Souris—A Study in the Complexity of a Glacial-Lacustrine Environment," abstract, *Geological Society of America Abstracts with Programs*, Vol. 2, No. 6, p. 398.
79. Deal, D. E., 1968, "Origin and Secondary Mineralization of Caves in the Black Hills of South Dakota, U.S.A.," *Proceedings of the 4th International Congress of Speleology*, Federation Yougoslave de Speleologie, Ljubljana, Yugoslavia, p. 67–70.
80. Deal, D. E., 1966, "Mud Stalagmites in Jewel Cave, South Dakota," *National Speleological Society Bulletin*, Vol. 28, No. 2, p. 106–107.

81. Deal, D. E., 1966, "Naturally Polished Pebbles from Black Hills Caves," *National Speleological Society Bulletin*, Vol. 28, No. 2, p. 104–105.
82. Deal, D. E., 1965, "Contribution to the Road Log (Discussion of Cenozoic Sediments)," *Guidebook of the 16th Field Conference, Southwestern New Mexico II*, New Mexico Geological Society, p. 50.
83. Deal, D. E., 1965, "Contribution to the Road Log (Discussion of Terraces and Erosion Levels)," *Guidebook of the 16th Field Conference, Southwestern New Mexico II*, New Mexico Geological Society, p. 50–52.
84. Deal, D. E., 1965, "Origin and Secondary Mineralization of Caves in the Black Hills of South Dakota, U.S.A.," abstract, *Resumes des Communications*, IV Congress International de Speleologic, Ljublijana, Yugoslavia.
85. Deal, D. E., 1964, "Scintillites: A Variety of Quartz Speleothems," *National Speleological Society Bulletin*, Vol. 26, No. 1, p. 29–31.
86. Deal, D. E., 1964, "Shiprock: Its Nature and Ascent," *Summit*, Vol. 10, No. 7, p. 22–26.
87. Deal, D. E., 1963, "Role of Wasps in the Erosion of the Pennsylvanian Casper Sandstone Along Sand Creek, Southwestern Wyoming," abstract, *Geological Society of America Abstracts with Programs*, p. 82.
88. Deal, D. E., 1962 "Geology of Jewel Cave National Monument, with Special Reference to Cavern Development in the Black Hills of South Dakota," MS Thesis, University of Wyoming, 192 p.
89. Deal, D. E., 1962, "Cavern Formation in the Black Hills of South Dakota with Special Reference to Jewel Cave," *National Speleological Society News*, Vol. 20, No. 8, Part 2, p. 117–120.
90. Deal, D. E., 1962, "Dolomite Speleothems," abstract, *Proceedings of the American Association for the Advancement of Science Meeting*, Philadelphia, Pennsylvania.