



BUREAU OF ECONOMIC GEOLOGY
THE UNIVERSITY OF TEXAS AT AUSTIN

WM Record File

106

WM Project 16

Docket No. _____

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Mr. Robert L. Johnson
Division of Waste Management
U.S. Nuclear Regulatory Commission
Mail Stop 623-SS
Washington, DC 20555

Dear Bob:

Just a note to say how much I appreciated our visit in Washington last week. I certainly had no difficulty in finding my way out to your Headquarters in Bethesda or on the return trip.

During our discussion we talked about information that TBEG may have in our files relative to articles, contract reports, and other draft materials being prepared under our DOE contract which relates to scientific issues for the Palo Duro Basin. Enclosed you will find two copies, one for you, and one for John, of our most current list of open-file reports cited by QA number for our DOE project. In addition, I have enclosed two copies of the list which we forward to DOE Columbus that state our request for review of draft reports and articles submitted for publication. You will note a large number of draft final contract reports and articles for submission to major journals or for publication through our own in-house publishing capability. These lists are current as of 8:00 a.m. today. If you see any items on these lists that you have not received through the normal circulation process, I will be glad to respond to a request for the materials and forward them to your office at our earliest opportunity.

I look forward to seeing you and John again in the future, probably at another meeting, but until that time, please accept my best wishes for a happy holiday season and a rewarding new year.

Best regards.

Sincerely,


Edward C. Bingler
Deputy Director

ECB:mk
Enclosure

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BEG PUBLICATIONS

REQUESTS FOR REVIEW PENDING

West Texas Waste Isolation Project
Contract No. DE-AC97-83WM46651

1. Draft:
Bureau GC "Fracture Analyses of the Palo Duro Basin Area, Texas Panhandle and Eastern New Mexico," by Collins and Luneau. Review requested 7/29/85.
2. Draft:
Bureau RI "Salt Spring and Shallow Subsurface Brines in the Rolling Plains of Texas and Southwest Oklahoma: Geochemical and Hydrogeological Characteristics," by Richter and Kreitler. Review requested 8/30/85.
3. Article:
Tectonophysics "Left-Lateral Intraplate Deformation along the Ancestral Rocky Mountains: Implications for Late Paleozoic Plate Reconstruction," by Budnik. Review requested 9/9/85.
4. Draft:
Bureau RI "Erosional Rates and Processes in Subhumid and Semiarid Climates, Texas Panhandle: Statistical Evaluation of Field Data," by Simpkins and Gustavson. Review requested 9/27/85.
5. Draft:
Final Contract Report "Quaternary Stratigraphy of the Western Rolling Plains of Texas-- Preliminary Findings," by Caran and others. Review requested 10/29/85.
6. Article:
Geology "Mississippian Depositional History of the Texas Panhandle: A Reappraisal," by Ruppel. Review requested 10/30/85.
7. Draft:
Bureau RI "Ground-Water Hydraulics of the Deep-Basin Aquifer System, Palo Duro Basin, Texas Panhandle," by Smith, Akhter, and Kreitler. Review requested 11/4/85.
8. Draft:
Bureau RI "Stratigraphy and Influence of Porosity on Ground-Water Flow in the Wolfcamp Brine Aquifer, Palo Duro Basin, Texas Panhandle," by Conti and others. Review requested 11/11/85.
9. Draft:
Bureau RI "Morphometric Studies of Subhumid and Semiarid Drainage Basins, Texas Panhandle and Northeastern New Mexico," by Baumgardner. Review requested 11/11/85.
10. Draft:
Annual Report "Geology and Geohydrology of the Palo Duro Basin, Texas Panhandle, A Report on the Progress of Nuclear Waste Isolation Feasibility Studies (1984)," by Bureau staff. Review requested 11/21/85.

REVIEW PENDING - continued

11. Draft: "Sandstone Distribution and Lithofacies of the
Final Report Dockum Group, Palo Duro Basin, Texas," by Johns.
Review requested 11/26/85.
12. Draft: "Hydrogeology and Water Resources of the Lower
Final Report Dockum Group (Triassic) in the Texas Panhandle
and Eastern New Mexico," by Dutton. Review re-
quested 11/26/85.
13. Draft: "Characterization Study of the Ogallala Aquifer,
Final Report Northwest Texas," by Nativ and Anderson. Review
requested 11/27/85.
14. Draft: "Draft Final Contract Report - Seismic Reprocessing
Final Report Program," by The University of Texas at Austin,
Institute for Geophysics. Review requested 11/27/85.
15. Draft: "Centrifuge Modeling of the Effects of Variable
Final Report Sedimentary Loading on the External Geometry,
Kinematics, and Dynamics of Syndepositional Salt
Structures," by Jackson, Talbot, and Cornelius.
Review requested 11/27/85.
16. Draft: The Artesia Group (Guadalupian/Ochoan) of Palo Duro
Final Report Basin: Depositional Systems and Effects of Post-
Permian Salt Dissolution," by Nance. Review re-
quested 11/27/85.
17. Draft: "Hydrologic Testing in the Salt Dissolution Zone
Final Report of the Palo Duro Basin, Texas Panhandle," by
Dutton. Review requested 11/27/85.
18. Draft: "Petrography and Geochemistry of the Artesia Group,
Final Report Palo Duro Basin, Texas Panhandle," by Hovorka,
Fisher and Nance. Review requested 11/27/85.
19. Draft: "Diagenesis in the San Andres Formation: Unit 4
Final Report Carbonate," by Hovorka. Review requested 11/27/85.
20. Draft: "Clay Mineralogy," by Fisher. Review requested
Final Report 11/27/85.
21. Draft: "Paleoclimatic Reconstruction Based on Molluscan
Final Report (Gastropoda; Pelecypoda) Environmental Indicators
- Late Quaternary of Northwestern Texas," by Caran.
Review requested 11/27/85.
22. Draft: "Tectonic History and Regional Tectonic Framework
Topical Report of the Palo Duro Basin, Texas Panhandle," by Budnik.
Review requested 11/27/85.

23. Draft:
Final Report "Tertiary Salt Diapirs Exposed at Different Structural Levels in the Greater Kavir (Dasht-i Kavir), South of Semnan, North Central Iran: A Remote-Sensing of their Internal Structure and Shape," by Jackson and Cornelius. Review requested 12/6/85.
24. Draft:
Bureau RI "Effects of Hydrostratigraphy and Basin Development on Hydrodynamics of the Palo Duro Basin, Texas," by Senger and others. Review requested 12/6/85.
25. Draft:
Bureau GC "Conodont Biostratigraphy of the Mississippian System, Palo Duro Basin," by Ruppel and Lemmer. Review requested 12/10/85.
26. Draft:
Final Report "Cross-Formational Flow in the Palo Duro Basin, Texas Panhandle," by Kaiser. Review requested 12/11/85.
27. Draft:
Contract Report "Petrography of the Artesia Group, Interim Report," by Hovorka and McCrary. Review requested 12/11/85.

BEG PUBLICATIONS

APPROVAL PENDING

1. Draft:
Contract Report "Geology and Geohydrology of the Palo Duro Basin, Texas Panhandle: A Report on the Progress of Nuclear Waste Isolation Feasibility Studies (1983)," by Gustavson and others. Review requested 10/2/84. Comments received 7/1/85. Extension to 9/30/85 requested. Responses submitted 11/27/85.
2. Article:
Geology "Geochemical and Textural Evidence of Primary and Altered Bedded Salt, Permian Lower San Andres Formation, Palo Duro Basin, Texas," by Fisher and Hovorka. Review requested 10/19/84. Comments received 5/13/85. Response period extended to 9/1/85. Responses submitted 8/30/85.
3. Article:
AAPG Bulletin "Wolfcampian Series Porosity Distribution: Implications for Deep-Basin Ground-Water Flow in the Palo Duro Basin, Texas Panhandle," by Conti, Senger, Wirojanagud, and Herron. Review requested 5/17/85. Comments received 12/2/85.
4. Article:
South Texas Geological Society "Reinterpretation of the Internal Structure of Palangana Salt Dome, South Texas," by Jackson and Talbot. Review requested 4/23/85. Comments received 7/22/85. Responses submitted 8/30/85.
5. Draft:
Bureau RI "Numerical Modeling of Regional Ground-Water Flow in the Deep-Brine Aquifers of the Palo Duro Basin, Texas Panhandle," by Wirojanagud, Kreitler, and Smith. Review requested 4/18/85. Comments received 9/16/85. Extension to 10/30/85 requested.
6. Final:
Contract Report "The Internal Structure of Model and Natural Salt Domes--Experimental Modeling of Salt Diapirs: Final Report," by Jackson and Talbot. Review requested 4/29/85. Comments received 8/13/85. Extension to 11/15/85 requested.
7. Draft:
Bureau RI "Cyclicity in the Middle Permian San Andres Formation, Palo Duro Basin, Texas Panhandle," by Fracasso and Hovorka. Review requested 6/20/85. Comments received 10/24/85. Responses submitted 11/25/85.

OPEN-FILED REPORTS

<u>OF #</u>	<u>Title, Report Type, Author</u>	<u>Date Submitted to DOE</u>	<u>Date Open-Filed</u>
OF-WTWI-1985-16	Ground-Water Hydraulics of the Deep-Basin Aquifer System, Palo Duro Basin, Texas Panhandle Topical Report FY85 Milestone (332GN, Subtask V, D.) Smith, Akhter and Kreitler	11/4/85	11/4/85
OF-WTWI-1985-18	Morphometric Studies of Subhumid and Semiarid Drainage Basins, Texas Panhandle and Northeastern New Mexico Topical Report FY85 Milestone (332GM, Subtask III, A.) Baumgardner	11/11/85	11/11/85
OF-WTWI-1985-19	Stratigraphy and Influence of Porosity on Ground-Water Flow in the Wolfcamp Brine Aquifer, Palo Duro Basin, Texas Panhandle Topical Report FY85 Milestone (332GN, Subtask V, E.) Conti and others	11/11/85	11/11/85
OF-WTWI-1985-31	Estimated Hydraulic Properties of the Triassic Dockum Group Aquifer FY85 Milestone (332GN, Subtask I, B) Dutton and Simpkins	11/15/85	11/15/85
OF-WTWI-1985-20	Well Report Summary Supplements (No. 1 Rex White, No. 1 Grabbe, No. 1 Sawyer, No. 1 Mansfield, No. 1 J. Friemel, No. 1 G. Friemel, No. 1 Detten, No. 1 Harman, No. 1 Zeeck, No. 1 Woods-Holtzclaw) FY85 Milestone (332FG, Subtask IIA and IIIA) WTWI Staff	11/21/85	11/21/85
OF-WTWI-1985-30	Geology and Geohydrology of the Palo Duro Basin, Texas Panhandle, A Report on the Progress of Nuclear Waste Isolation Feasibility Studies (1984) FY85 Milestone (332FG, Subtask IE) Bureau of Economic Geology Staff	11/21/85	11/21/85

OPEN-FILED REPORTS

<u>OF #</u>	<u>Title, Report Type, Author</u>	<u>Date Submitted to DOE</u>	<u>Date Open-Filed</u>
OF-WTWI-1985-38	Hydrostratigraphy of the Wolfcamp Aquifer, Palo Duro Basin, Texas Panhandle FY85 Milestone (332GN, Subtask V, F) Conti and Senger	11/22/85	11/22/85
OF-WTWI-1985-25	Sandstone Distribution and Lithofacies of the Triassic Dockum Group, Palo Duro Basin, Texas FY85 Milestone (332GM, Subtask VI, A) Johns	11/26/85	11/26/85
OF-WTWI-1985-32	Hydrogeology and Water Resources of the Lower Dockum Group (Triassic) in the Texas Panhandle and Eastern New Mexico FY85 Milestone (332GN, Subtask I, C) Dutton	11/26/85	11/26/85
OF-WTWI-1985-34	Characterization Study of the Ogallala Aquifer, Northwest Texas FY85 Milestone (332GN, Subtask III, B) Nativ and Anderson	11/27/85	11/27/85
OF-WTWI-1985-21	Centrifuge Modeling of the Effects of Variable Sedimentary Loading on the External Geometry, Kinematics, and Dynamics of Syndepositional Salt Structures FY85 Milestone (332HE, B.) Jackson, Talbot, and Cornelius	11/27/85	11/27/85
OF-WTWI-1985-24	The Artesia Group (Guadalupian/Ochoan) of Palo Duro Basin: Depositional Systems and Effects of Post-Permian Salt Dissolution FY85 Milestone (332GM, Subtask IV, A and Subtask V, A.) Nance	11/27/85	11/27/85

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<u>OF #</u>	<u>Title, Report Type, Author</u>	<u>Date Submitted to DOE</u>	<u>Date Open-Filed</u>
OF-WTWI-1985-27	Paleoclimatic Resonstruction Based on Molluscan (Gastropoda; Pelecypoda) Environmental Indicators - Late Quaternary of Northwestern Texas FY85 Milestone (332GM Subtask IX, A) Caran, Neck, Fullington	11/27/85	11/27/85
OF-WTWI-1985-29	Tectonic History and Regional Tectonic Framework of the Palo Duro Basin, Texas Panhandle FY85 Milestone (332GM Subtask X, E) Budnik	11/27/85	11/27/85
OF-WTWI-1985-35	Hydrologic Testing in the Salt Dissolution Zone of the Palo Duro Basin, Texas Panhandle FY85 Milestone (332GN Subtask IV, C) Dutton	11/27/85	11/27/85
OF-WTWI-1985-36	Investigation of the Possible Effect of Fracture Zones on Ground-Water Flow in the Palo Duro Basin, West Texas FY85 Milestone (332GN Subtask V, A) Senger	11/27/85	11/27/85
OF-WTWI-1985-41	Diagenesis in the San Andres Formation: Unit 4 Carbonate FY85 Milestone (332GP Subtask II, D) Hovorka	11/27/85	11/27/85
OF-WTWI-1985-42	Petrography of the Artesia Group, Interim Report FY85 Milestone (332GP Subtask III, B) Hovorka and McCrary	11/27/85	11/27/85
OF-WTWI-1985-43	Petrography and Geochemistry of the Artesia Group, Palo Duro Basin, Texas Panhandle FY85 Milestone (332GP Subtask III, C) Hovorka, Fisher, and Nance	11/27/85	11/27/85

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<u>OF #</u>	<u>Title, Report Type, Author</u>	<u>Date Submitted to DOE</u>	<u>Date Open-Filed</u>
OF-WTWI-1985-45	Clay Mineralogy FY85 Milestone (332GP Subtask V, B) Fisher	11/27/85	11/27/85

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<u>OF #</u>	<u>Title, Report Type, Author</u>	<u>Date Submitted to DOE</u>	<u>Date Open-Filed</u>
OF-WTWI-1985-22	Tertiary Salt Diapirs Exposed as Different Structural Levels in the Greater Kavir (Dasht-i Kavir), South of Semnan, North Central Iran: A Remote-Sensing of their Internal Structure and Shape FY85 Milestone (332HE, C) Jackson and Cornelius	12/6/85	12/6/85
OF-WTWI-1985-37	Effects of Hydrostratigraphy and Basin Development on Hydrodynamics of the Palo Duro Basin, Texas FY85 Milestone (332GN, Subtask V, C) Senger and others	12/6/85	12/6/85
OF-WTWI-1985-28	Conodont Biostratigraphy of the Mississippian System, Palo Duro Basin FY85 Milestone (332GM, Subtask X, A) Ruppel and Lemmer	12/10/85	12/10/85
OF-WTWI-1985-33	Cross-Formational Flow in the Palo Duro Basin, Texas Panhandle FY85 Milestone (332GN, Subtask II, B) Kaiser	12/11/85	12/11/85