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 Linehan
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May 30, 1984

John J. Linehan, Section Leader
 Salt Section
 Repository Projects Branch
 Division of Waste Management, MS 623-SS
 U.S. Nuclear Regulatory Commission
 Washington, D.C. 20555

Dear Mr. Linehan:

SUBJECT: DELIVERY OF DOCUMENTS REQUESTED AT THE MAY 14-18, 1984 SRP HYDROLOGY
 DATA REVIEW

The documents listed in the enclosures are being sent to you as you requested at the hydrology data review. Please let us know if you have not received all the reports within three weeks. We understand you are finalizing the summary notes of the hydrology data review and we look forward to receiving these.

Sincerely,

J. O. Neff
 Program Manager
 Salt Repository Project Office

SRPO:LAC:2636B

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J. Linehan
Page 2

Enclosures: 1) Reports Requested by NRC at the Hydrology Data Review
2) Reports Requested by NRC to be sent upon receiving Patent
Clearance

cc: M. Deyling, ONWI, with enclosures
D. Dawson, ONWI, with enclosures
R. Johnson, NRC, with enclosures
W. Bennett, DOE-HQ, with enclosures
H. Bohlinger, LA, with enclosures
J. Christofferson, UT, with enclosures
R. Forsythe, MS, with enclosures
S. Frishman, TX, with enclosures

REPORTS REQUESTED BY NRC AT THE HYDROLOGY DATA REVIEW

Jul. 2, 1983. Salt Dome, Project Reports List for IES-LSU.

BMI/ONWI-525. Potentiometric-Level Monitoring Program-Mississippi and Louisiana: Annual Status Report For Fiscal Year 1983.

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Mississippi State Oil & Gas Board, Mississippi Oil & Gas Production Annual Report, 1982.

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BMI/SRP-5008, SWEC, Nov. 1982. Well Completion Report Detten No. 1 Palo Duro Basin.

BMI/SRP-5010, SWEC, Mar. 1983. Pumping Test And Fluid Sampling Report Sawyer No. 1 Well Palo Duro Basin.

BMI/SRP-5011, SWEC, Dec. 1983. Well Completion Report J. Friemel No. 1 (PD-9) Palo Duro Basin.

BMI/SRP-5004, SWEC, Feb. 1983. **Well Completion Report Harman No. 1 Palo Duro Basin.**

BMI/SRP-5006, SWEC, Jan. 1984. **Well Completion Report Sawyer No. 1 (PD-3) Well Palo Duro Basin, Texas: Unanalyzed Data.**

BMI/SRP-5014, SWEC, No Date. **Drill-Stem Test Formation Pressure Data Base.**

BMI/SRP-5013, SWEC, No Date. **Listing of Oil And Gas Well Data File.**

BMI/SRP-5005, SWEC, Jan. 1984. **Well Completion Report Mansfield No. 1 (PD-4) Palo Duro Basin, Texas: Unanalyzed Data.**

BMI/SRP-5007, SWEC, Dec. 1983. **Well Completion Report Holtzclaw No. 1 (PD-10) Palo Duro Basin.**

BMI/SRP-5003, SWEC, Apr. 1984. **Well Completion Report G. Friemel No. 1 (PD-5) Palo Duro Basin.**

BMI/SRP-5012, SWEC, May 1984. **Permeability Data Base-Palo Duro Basin: Texas, Oklahoma, And New Mexico: Unanalyzed Data.**

BMI/SRP-5012, SWEC, No Date. **Permeability Data Base.**

BMI/SRP-5002, SWEC, Dec. 1983. **Well Completion Report Dissolution Zone Water Wells (PD-8, PD-11, PD-12, PD-13) Palo Duro Basin.**

BMI/SRP-5002, SWEC, Apr. 1984. **Well Completion Report Dissolution Zone Water Wells (PD-8, PD-11, PD-12, PD-13), Palo Duro Basin, Texas: Unanalyzed Data.**

LIB. No. 1135, SWEC, Oct. 1983. **Ogallala Aquifer Mapping Program.**

ONWI-504, Intera, Mar. 1984. **First Status Report On Regional Ground-Water Flow Modeling For The Palo Duro Basin, Texas.**

Wirojanagud, P., Kreidler, C., and Smith, D., (TBEG). **Numerical Modeling of Regional Ground-Water Flow In The Deep-Brine Aquifers Up The Palo Duro Basin, Texas Panhandle.**

SWEC, 1983 & 1984. **Wolfcamp Potentiometric Surface After Culling Depressed, Overpressured, And Underpressured Data, Palo Duro Basin, Geotechnical Sketch Nos. 13697-37-H-1 and 13697-37-E-1.**

SWEC, 1983. **Geotechnical Profile - Detten No. 1 - G, Friemel No. 1, Geotechnical Sketch No. 13697-G(B)-29.**

SWEC, 1983. **Inferred Faults In Northern Palo Duro Basin, Geotechnical Sketch No. 13697-37-C-1.**

SWEC, 1983. **Zone of Dissolution of The Lower San Andres Unit 4 Salt, Sketch No. 13697-37-D-1.**

SWEC, Mar. 1983. **Pumping Test Fluid Sampling Report Sawyer No. 1 Well Palo Duro Basin.**

SWEC, Jul. 1983. **Pumping Test And Fluid Sampling Report Mansfield No. 1 Well Palo Duro Basin.**

SWEC, 1983. **Thickness of Thick Salt Bed In Lower San Andres, Unit 4 In Northern Palo Duro Basin: Sketch No. 13697-36-A-2.**

SWELL, M. J., 1984. Summary of Chemical And Isotopic Data Produced By Bendix Field Engineering Corporation For Mansfield No. 1, Zeack No. 1, Sawyer No. 1, And Friemel No. 1 Wells In The Texas Panhandle, ONWI Technical Report, Tables 1 and 4.

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High Resolution Seismic Reflection Study, Vacherie Dome (taken by J. Trapp-NRC).

ONWI-503, Intera, May, 1984. First Status Report On Regional Ground-Water Flow Modeling For The Paradox Basin, Utah.

Richter, H. R. and Huntoon, P. W., 1980. Ground-Water Resources In The Part of Canyonlands National Park, East of The Colorado River and Contiguous Bureau of Land Management Lands, Utah.

Huntoon, P. W., 1979. The Occurrence of Ground-Water In The Canyonlands Area of Utah With Emphasis of Water In The Permian Section, Four Corners Geological Society 9th Field Conference Guidebook.

Mayhew, E. J., and Heylman, E. B., 1966. "Complex Salts and Brines of The Paradox Basin," Raul, J. L. (e.g.), "Second Symposium On Salt," Vol. 1, Geology, Geochemistry Mining, Northern Ohio Geological Society, Cleveland, Ohio.

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Huntoon, P. W., and Richter, H. R., 1979. **Breccia Pipes In The Vicinity of the Lockhart Basin, Canyonlands Area, Utah**, Four Corners Geological Society 9th Field Conference Guidebook.

Sumsion, C. T., and Bollze, E. L., 1972. **Water Resources Of Part Of Canyonlands National Park**, Southeastern Utah, U. S. Geological Survey Open-File Report 72-363.

Feltis, R. D., 1966. **Water From Bedrock In The Colorado Plateau Of Utah**, Utah State Engineer, Division of Water Rights, Technical Publication No. 15, 82 p.

TBEG. **Well Summary Reports For All Permian Basin DOE Wells** (from the Texas Bureau of Economic Geology).

TBEG. **Characterization Status Reports 3.1.1, 3.1.2, 7.2.1, and 7.2.2** (from the Texas Bureau of Economic Geology).

Suites Of Geophysical Logs From DOE Wells.

Hubbard, Livingston, Fukui. **The Composition And Stratigraphic Distribution of Materials In The Lower San Andres Salt Unit 4.**

Zaikowskik, Kongsanke, Hubbard. **Progress On Radiometric Dating Of Wolfcamp Brines Using ^4He and ^{40}Ar .**

Hubbard, Laul, Perkins. **The Use Of Natural Radionuclides To Predict The Behavior Of Radwaste Radionuclides In Far-Field Aquifers.**

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(from the Texas Bureau of Economic Geology).

Sewel, 1984. **Palo Duro Brine Samples Tables 1 And 4.**

Schlumberger. **Sonic Variable Density/Waveforms J. Friemel No. 1 2400-3000'**

Schlumberger. **Long Spaced Sonic Digitalized Waveform J. Friemel No. 1 2400-3000'**

Schlumberger. **Fracture Identification Log J. Friemel No. 1 2400-3000'**

REPORTS TO BE SENT TO NRC UPON RECEIVING PATENT CLEARANCE

SWEC, May 1984. Hydrogeologic Investigations Based On Drill-Stem Test Data Palo Duro Basin Area Texas And New Mexico, Draft Report.

ONWI, Mar. 1984. Performance Assessment Department Natural Salt Dissolution Assessment of Seven Potential Nuclear Waste Salt Repositories, Draft Report.

Intera, Dec. 1983. First Status Report On Regional Ground-Water Flow Modeling For The Palo Duro Basin, Texas, Third Draft.

Kitcho, C. A., 1983. Seismic Reflection, Gravity, And Aeromagnetic Studies of Geologic Structure In the Gibson Dome Area, Southwestern Paradox Basin, draft prepared by Woodward-Clyde Consultants for The Office of Nuclear Waste Isolation, Battelle Memorial Institute, Columbus, Ohio.

McCulley, B. L., Thackston, J. W., and Preslo, L. M., 1984. Status Report: Geochemical Interactions Between Ground-Water and Paleozoic Strata, Gibson Dome Area, Southeastern Utah, draft prepared by Woodward-Clyde Consultants for the Office of Nuclear Waste Isolation, Battelle Memorial Institute, Columbus, Ohio.

Thackston, J. W., et al., 1983. Preliminary Hydrologic Budget Studies, Indian Creek Water Shed And Vicinity, Western Paradox Basin, Utah, Woodward-Clyde Consultants, Draft Report.

McCleary, J., 1984. Stratigraphic And Structural Configuration of The Navajo (Jurassic) Through Quaternary (Mississippian-Devonian) Formations In The Vicinity of Davis And Lavender Canyons, Southeastern Utah, draft prepared by Woodward-Clyde Consultants for the Office of Nuclear Waste Isolation, Battelle Memorial Institute, Columbus, Ohio.

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SWEC, Nov. 14, 1983. **Report of Laboratory Testing of Rock Core Samples From Mansfield No. 1 Well - Permian Basin Project, Draft Report.**

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