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Hydrogeology • Mineral Resources Waste Management • Geological Engineering • Mine Hydrology

WM-RES

WM Record File

B-7389

WdA

WM Project 16

Docket No. _____

PDR ✓

LPDR 5

Distribution:

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(Return to WM, 623-SS)

Joan Tishet

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May 6, 1985

Contract NRC-02-83-033

FIN #B-7389-3

Communication #54

WM DOCKET CONTROL
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Mr. Fredrick Ross
Division of Waste Management
Mail Stop 623-SS
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Re: Seventeenth Monthly Progress Report

Dear Fred:

This document constitutes the seventeenth monthly (April 1-30, 1985) progress report as required by contract No. NRC-02-83-033.

Task 1, Subtask 1.1

Documents which we have obtained are noted in the attached reference list. The documents received this month are listed by category (Palo Duro, Paradox, and Salt Domes plus a Generic category for non-site specific reports). We are continuing to order copies of all ONWI documents either published or to be published which we feel will have some bearing on our efforts. We are obtaining copies of non-ONWI reports and articles which may have a bearing on our efforts. The backlog of ONWI documents, created during the EA review, are being reviewed in order to stay current with salt research activities. The review of the ONWI progress reports received in the last couple of months has revealed several interesting research efforts with respect to salt as a repository medium. These topics were discussed with the Project Officer. Several references cited in the ONWI documents have been requested for our use.

Task 1, Subtask 1.2, 1.3, and 1.4

These subtasks have been completed.

Task 2, Subtask 2.1

A reference list is attached for those documents received this month pertaining to the Paradox Basin. See Subtask 1.1 for details concerning our parallel effort on this subtask.

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Task 2, Subtask 2.2, 2.3, and 2.4

These subtasks have been completed.

Task 3, Subtask 3.1

A reference list is attached for those documents received this month pertaining to salt domes. See Subtask 1.1 for details concerning our parallel effort on this subtask.

Task 3, Subtask 3.2, 3.3, and 3.4

These subtasks have been completed.

Task 4

This task is inactive at this time.

Task 5

The Environmental Assessments (EA) for Deaf Smith County, Swisher County, Lavender Canyon, Cypress Creek Dome, Vacherie Dome, and Richton Dome have been reviewed previously. The final NRC comments on the draft EA's have been received; we have initiated a review of these comments per instructions received from the project officer.

Future Activities

We are continuing our review of the NRC comments on the draft EA's. We will communicate any comments we formulate to the project officer.

Williams and Associates will continue their efforts to obtain all relevant documents pertaining to the salt repository sites. We are continuing to review all the reports received from ONWI pertaining to salt sites. We are receiving documents from ONWI each month. In addition, we will review the documents we obtain through our own initiative. We will continue our review of those documents that precede the receipt of Site Characterization Plans (SCP).

Contractural Problems

We have no contractual problems.

Current Expenditures

A breakdown of individual hours and charges plus travel expenses is shown on the attached Table 1. Cumulative charges and projected costs are shown on attached Figure 1.

Sincerely,

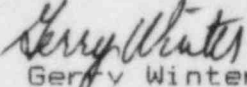
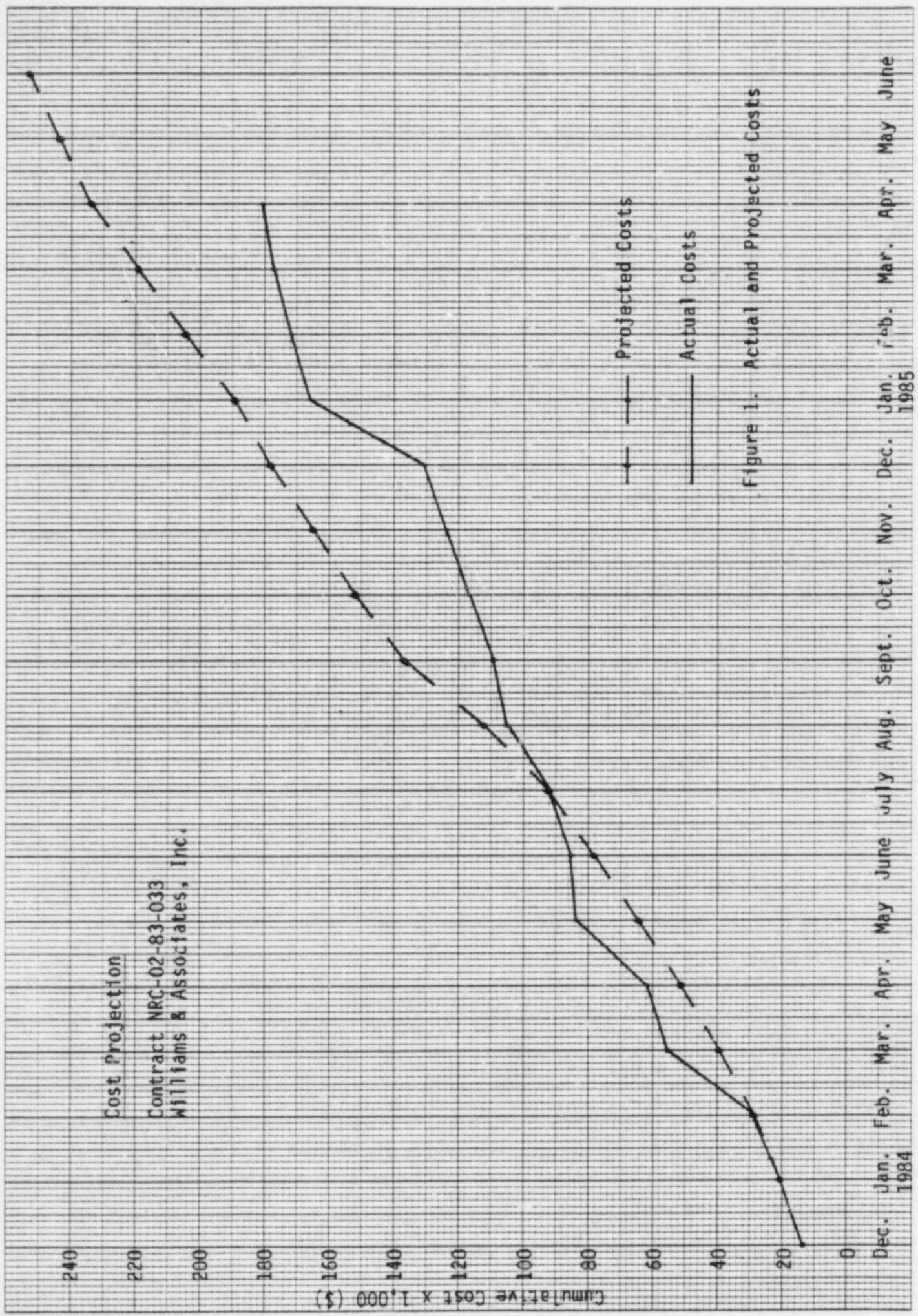

Gerry Winter

TABLE 1
INDIVIDUAL HOURS AND CHARGES

	<u>This Month</u>	<u>Cumulative Expenses</u>
Gerry Winter	67 hrs=\$1139.00	1713.5 hrs=\$28,193.50
John Sharp	0 hrs= .00	280 hrs= 11,200.00
Jeffrey Brown	0 hrs= .00	420 hrs= 14,700.00
Jim Osiensky	0 hrs= .00	175.5 hrs= 2,808.00
Terry Eckwright	17 hrs= 221.00	361 hrs= 4,693.00
Roy Williams	16 hrs= 736.00	376 hrs= 17,756.00
C. Smith	0 hrs= .00	103.50 hrs= 7,312.50
Clerical	7 hrs= 63.00	126.90 hrs= 1,142.10
Travel	\$.00	12,583.92
TOTAL (includes overhead, etc.)	\$ 3,851.82	<u>\$180,737.53</u>



NEW REFERENCES

Palo Duro

- Bair, E. S., O'Donnell, T. P., and Picking, L. W. 1985. Potentiometric Mapping from Incomplete Drill-Stem Test Data: Palo Duro Basin Area, Texas and New Mexico. Ground Water, vol. 23, no. 2, pp. 198-211.
- Bair, E. S., O'Donnell, T. P., Picking, L. W. February 1985. Hydrogeologic Investigations Based on Drill-Stem Test Data: Palo Duro Basin Area, Texas and New Mexico. Office of Nuclear Waste Isolation, BMI/ONWI-566, 182 p.
- Orr, E. D. and Kreitler, C. W. 1985. Interpretation of Pressure-Depth Data from Confined Aquifers Exemplified by the Deep-Basin Brine Aquifer, Palo Duro Basin, Texas. Water Resources Research, vol. 21, no. 4, pp. 533-544.

Paradox

- 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. Woodward-Clyde Consultants, Topical Report.
- Schneider, R. and Trask, N. J. 1984. U. S. Geological Survey Research in Radioactive Waste Disposal--Fiscal Year 1982. U. S. Geological Survey, Water Resources Investigations Report 84-4205, 116 p.

Salt Domes

- INTERA Environmental Consultants Inc. May 1984 (third draft). Second Status Report on Regional and Local Ground-Water Flow Modeling for Richton and Cypress Creek Domes, Mississippi. Prepared for Office of Nuclear Waste Isolation, ONWI/E512-02900/TR-30 410C-006-08B, 122 p.
- Schneider, R. and Trask, N. J. 1984. U. S. Geological Survey Research in Radioactive Waste Disposal--Fiscal Year 1982. U. S. Geological Survey, Water Resources Investigations Report 84-4205, 116 p.

Generic

Wagner, R. A. April 1985. Comparison and Evaluation of Field and Numerical Results From the Site A Heater Test at Avery Island. Prepared for Office of Nuclear Waste Isolation, Technical Report, ONWI-300, 71 p.