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UNIVERSITY OF UTAH RESEARCH INSTITUTE



March 9, 1990

Dr. Anthony W. Gorody Senior Scientist Basic Research Gas Research Institute 8600 West Bryn Mawr Avenue Chicago, IL 60631

Subject: Contract No. 5089-260-1855 Monthly Technical Report

Dear Dr. Gorody:

Enclosed are four copies of the Monthly Technical Report for the month of February 1989. Also attached is a memo from M. L. Allison reporting the amount of time he has spent on the project.

We wish to thank you and the other GRI personnel who have helped in getting this project operational.

Sincerely,

V Nulson

Dennis L. Nielson Associate Director

Enclosure

cc: M. L. Allison

J. B. Hulen W. L. Forsberg D. A. Petty P. M. Wright

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DEFINITION OF STRATIGRAPHIC HETEROGENEITY USING DIPMETER LOGS

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Monthly Report February 1, 1990 through February 28, 1990

Prepared By:

THE UNIVERSITY OF UTAH RESEARCH INSTITUTE

Jeffrey B. Hulen M. Lee Allison Dennis L. Nielson Wilford Forsberg

For

GAS RESEARCH INSTITUTE

Contract No. 5089-260-1855

GRI Project Manager A. W. Gorody

1.0 GRI DISCLAIMER

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GRI March Monthly Report

2.0 Work Planned for the Month

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The last monthly report indicated that field work could possibly begin in February, but this was not possible due to weather conditions. Work did continue on the generation of SCAT plots from field data collected last fall.

3.0 Work Completed During the Month

The SCAT program obtained from Geobyte proved to be difficult to use. Although the program provides a good representation of all plots on one page, it was not possible to change the scales of individual diagrams or define different symbols for different types of planar features. Therefore, the following procedure for data display evolved. First, field data is input into "Lotus 123" and the longitudinal and transverse calculations are done in this program. The Geobyte program is used to plot a synopsis of the SCAT plots and the tangent diagram. A graphics program "Grapher" is then used to print out the depth-azimuth, depth-dip, depth-transverse and depth-longitudinal diagrams. By utilizing this method, the data management system, calculations, and plotting are all done in two widely used and available software packages.

4.0 Allied Investigations

None

5.0 Problems Encountered

Continued bad weather made it impossible to get into the field to collect additional data.

6.0 Work Planned for Next Month

During March, field work will begin using two teams headed by Jeffrey B. Hulen and Susan Lutz. By using these two teams, we will expedite the collection of field data. The improvements in data handling outlined above will expedite the creation and printing of SCAT plots.



State of Utah DEPARTMENT OF NATURAL RESOURCES UTAH GEOLOGICAL AND MINERAL SURVEY

Norman H. Bangerter Governor Dee C. Hansen Executive Director M. Lee Allison State Geologist 6 801-581-6831

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March 3, 1990

To: Dennis Nielson From: M. Lee Allison Re: January & February hours on GRI project

During January and February, 1990 I spent a total of 20 hours on the GRI-sponsored dipmeter project. Following are the daily times.

DATE		HOURS	
January	3	2	
· 11	5.	1	
44	8	1	
11	9	1	
f f	24	1	
11	25	1	
**	30	2	
**	31	1-1/2	January total 10-1/2 hours
February	14	1	
11	15	2-1/2	
11	22	2	
**	27	1-1/2	
11	28	2-1/2	February total 9-1/2 hours
Salary and benefits @ \$26.49 for 20 hours = \$529.80			
G & A 3	0.2%		160.00
Total		-	\$689.80
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This is the UGMS cost share to the project for January and February, 1990.