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QUARTERLY REPORT OF TECHNICAL PROGRESS

D.O.E. Eastern Gas Shales Project

Dunkirk Study

Contract #DE-AS21-76MCO5198 (Modification No. M003)

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SUMMARY

Ten cross sections were completed and drafted, and blueline copies were sent to DOE, Morgantown, WV, for review. These cross sections were used as the basis with which all other logs in the study area were correlated. The data has been encoded from 228 logs that were used. Two isopach, 2 structure contour, and 3 lithofacies maps have been completed and are awaiting drafting. A production and show map has been drafted and blueline copies were sent to DOE, Morgantown, WV, for review. The schedule of work was delayed due to the state budget problems, the need to correct work previously completed and sent to DOE, Morgantown, WV, and lack of a reproduction contract.

CONTRACT OBJECTIVES

1. Provide a detailed stratigraphic framework for the Perrysburg Formation, Huron Shale member of Ohio Shale, and Java Formation, and their included black shale units (Stratigraphic Cross Sections, TASK 3.2.1.1).
2. Define and map the black shale facies and related rocks within these units in order to understand their sedimentological histories and to help in predicting and evaluating potential gas resources in the Perrysburg Formation, Huron Shale member of Ohio Shale, and Java Formation, and their included black shale units (Isopach, Lithofacies, and Production and Show Maps, TASK 3.2.1.2, 3.2.1.4, and 3.2.1.5).
3. Provide a detailed structural framework of the above mentioned units and related rocks in Pennsylvania (Structure Maps, TASK 3.2.1.3).
4. Maintain a storage site for data and cores obtained in Pennsylvania for the Devonian shales project.
5. Encode stratigraphic and structural data generated during this project in the METC prescribed data format.

TECHNICAL PROGRESS

TASK 3.2.1.1 CROSS SECTIONS

Ten stratigraphic cross sections at a vertical shale of 2" = 100' of the Perrysburg, Huron, and Java Formations have been completed and were drafted. These sections were copied in blueline and sent to DOE for review. This portion of the study is 99% completed.

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TASK 3.2.1.5 ISOPACH MAPS

Two isopach maps were completed at a scale of 1:250,000. These are (1) Isopach of Java Formation, and (2) Isopach of Combined Perrysburg-Huron, which is presently being drafted. This portion of the study is 55% completed.

TASK 3.2.1.3 STRUCTURE MAPS

Two structure maps, Structure on the Base of the Perrysburg-Huron and Structure on the Base of the Java Formation, have been completed and are awaiting drafting. This portion of the study is 50% completed.

TASK 3.2.1.4 LITHOFACIES MAPS

TASK 3.2.1.2 NET FEET MAPS

Two lithofacies maps, Net Feet of Radioactive Shale in the Dunkirk Facies of Perrysburg Formation and Huron Shale and Net Feet of Radioactive Shale in the Java Formation, have been completed and are awaiting drafting. An additional map, Lithofacies of the Total Interval, has been prepared and is awaiting drafting. This portion of the study is 50% completed.

TASK PRODUCTION AND SHOW MAP

A map showing wells which have had oil and/or gas production or shows from the Upper Devonian shales above the base of the Java Formation has been drafted and was copied in blueline and sent to DOE for review. This portion of the study is 99% completed.

TASK 3.2.1.6 ENCODING OF DATA

Four summer geologic aides have completed encoding well data collected during the study. The number of data sheets completed was 228. The data sheets were sent to Denver, CO, when completed and reviewed. Task 3.2.1.6 is 100% completed.

PROBLEM AREAS

Problems relating to the state budget and funding for the project delayed reproduction of completed items. When the budget problems were settled, we were without a reproduction contract. This contract has only just recently been settled and the reproduction of bluelines and base maps has begun. Now, more unforeseen delays have come up due to badly reproduced copies of the map texts. The time table listed in the contract has not been met, but this office was assured by DOE that no problem exists. Some items already sent to DOE under previous contracts had been returned for correction causing delays in both printing the previously completed items and drafting of the Dunkirk Study items because both of our draftsmen were working on the corrections. These later delays may cause delays in the final completion of deliverables.

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