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Reserve Estimates in Western Basins

**Quarterly Report
January - March 1994**

April 1994

Work Performed Under Contract No.: DE-AC21-91MC28130

For
U.S. Department of Energy
Office of Fossil Energy
Morgantown Energy Technology Center
Morgantown, West Virginia

By
The Scotia Group
Dallas, Texas

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Office of Fossil Energy
Morgantown Energy Technology Center
P.O. Box 880
Morgantown, West Virginia 26507-0880**

**By
The Scotia Group
4849 Greenville Avenue, Suite 1150
Dallas, Texas 75206**

April 1994

TECHNICAL MEMORANDUM

TO U.S. DEPARTMENT OF ENERGY
ATTN MR. KARL-HEINZ FROHNE
FROM THE SCOTIA GROUP - ROBERT H. CALDWELL
DATE 18 April 1994

RE DE-AC21-91MC28130, Reserves in Western Basins,
Second Quarterly Technical Progress Report, Uinta Basin Option

During the first quarter of 1994, work continued in assembling of data on the Uinta Basin. This included integration of the PI, NPS and WHCS data bases, assembly of critical well lists, construction of base maps, acquisition of log and core data, digitizing and commencement of log interpretation.

During this period we anticipated the USGS Resource Assessment being completed for the Uinta Basin via the work of Tom Fouch. During this period, concern was expressed that delays in completion of this work would jeopardize the Uinta Basin schedule for report completion and also that methodology differences between that used for the Uinta Basin versus the Greater Green River Basin would cause problems in using common methodology from basin to basin.

As a result of expressing these concerns, it was agreed that the Uinta Basin work would be wound down and work on the Piceance Basin commenced to allow the USGS time to complete their work and also to create sufficient time to review methodology differences and to derive a solution for commonalizing the methodology.

As of this date, a data collection and familiarization trip has been made to the USGS in Denver and the initial datasets for the Piceance Basin assembled. This includes the NPS database from PI and copies of WHCS from the USGS. Base maps for the Piceance Basin are under construction and the process of constructing key well lists is underway. The Uinta Basin work is being wound down with the completion of digitizing and log interpretation on the first set of Uinta Basin wells. The first draft of the USGS Uinta Basin work has been received and is in the process of review. As previously communicated, the Uinta Basin methodology does not involve a volumetric in-place estimate which is the required starting point for our methodology. As a result, a proposal has been forwarded to fund the generation of an in-place estimate by play for the Uinta Basin to allow the common approach to be utilized between all three tight gas basins.

As part of the data collection visit to Denver, time was spent in the USGS core library reviewing tight gas core samples and thin sections. This experience was extremely beneficial in understanding the nature of the sediments and envisaging interpretative work based upon log and core data.

Current project progress now will involve bringing the Piceance Basin data collection effort up to speed and in winding down the Uinta Basin work in an orderly fashion. As the Uinta Basin volumetric is completed, the two basins will be worked in tandem moving towards final reports on both basins.

Current progress on the project is satisfactory with the project on budget and on schedule.

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8/11/94

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