GEOKINETICS INC. *shale oil development and production*

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DIVISION OF
OIL, GAS & MINING

September 27, 1983

Mr. Thomas L. Portle
Division of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, UT 84114

RE: Utilization of removed topsoil Geokinetics
Modification ACT/047/002

Dear Tom:

Thank you for the expeditious authorization to proceed with the placement of topsoil on disturbed areas while our earth moving equipment was temporarily on-site. This provided Geokinetics with a substantial cost savings over the potential additional expense of rescheduling this equipment to be on-site at a later date.

As you requested in our conversation, I am providing you with our rationale for the use of the topsoil, as well as, the specific amounts and application rates utilized.

The objectives for utilization of the topsoil were to:

1. provide adequate topsoil depth for revegetation efforts on Retorts #25 and #26 during the fall of 1983; and

2. to test the proposed commercial scheme to redistribute topsoil from pre-retort blast areas to post-burn retorts.

The volume of topsoil utilized was estimated 1.5 acre-feet (Figure 1). The soil was evenly distributed over an area of approximately 4 acres, or at a rate of 4.5 inches per acre.

The volume of topsoil remaining on Retorts #6 and #8 is estimated at 5.5 acre-feet. This amount, if distributed evenly over all three retorts, would provide approximately 5 inches across the area. This should be sufficient topsoil for establishing vegetation following retorting activities. The remaining soil will be stockpiled in accordance with our letter presented to the division on June 22, 1983 including suggestions by your office regarding seeding rates.

Again, thank you for the authorization. Should you have any questions or comments regarding our use of the topsoil, please feel free to contact me at 328-9955 or Ms. Catherine Chachas at 583-0511.

Sincerely,

William L. Sharrer

William L. Sharrer
Environmental Engineer

WLS/ks

Enclosure