

APPLICATIONS FOR SURFACE GEOCHEMICAL SURVEYS

A. Surface Geochemistry as a Reconnaissance Exploration Tool

Geochemistry can be applied to **LARGE** areas - such as basins, concessions, and plays. It is applied in "series" fashion with the more costly tools used later.

Objectives:

1. To identify interest areas, based on gross hydrocarbon character, at a low cost per square mile.
2. To select most valuable concessions; focus exploration in frontier areas.
3. To differentiate oil-prone from gas-prone or thermally-mature versus immature areas.

B. Surface Geochemistry as a Detail Exploration Tool

Geochemistry can be applied to known interest areas previously identified by other methods (geophysics, leasing, and geochemistry). It is usually applied in "series/or parallel" fashion with other tools.

Objectives:

4. To identify drilling prospects; usually used in conjunction with geophysics.
5. To rank drilling prospects on the basis of their most favorable geochemical characteristics.
6. To assist a drilling partner to decide to participate/not participate in one or more of a series of wells.
7. To define the areal extent of an oil accumulation to assist orderly field development.

