

COMPUTERIZATION EXPERIENCE IN AN EXPLORATION GROUP

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ABSTRACT

Computerization of Trintopex's Exploration data was renewed in 1985 with the design of a Geological Module for the Company's Well Information System. Development and subsequent program testing for the Geological Module was followed by the data entry phase during which several problems were encountered. These included inconsistent sources of information, programming errors and incorrect data input. The latter problem was resolved with data verification programs, re-checking of erroneous data fields and improved quality of personnel.

To date, the benefits of the Geological Module include efficient data storage, rapid retrieval of information and generation of useful queries.

In order to complete the data capture of information in the Exploration Group, digitization of Trintopex's electric logs was considered desirable. It became evident that digitized logs and its application software could afford the Company very significant benefits such as time-saving and more accurate well correlations. The latter will ultimately lead to a higher drilling success ratio and greater oil production.

To maximise the benefits of the Geological Data Base and digitized logs, acquisition of a mapping package was considered essential. Additional benefits include more accurate maps and three dimensional presentations.

Completion of Data Entry in the Geological Module will be followed by log digitization and acquisition of mapping software and hardware. In addition, Computer Aided Draughting (CAD) and Map Digitizations Software will be acquired for the Geological Drawing Office. The complete integrated system will be expanded in subsequent years. A detailed economic evaluation performed on the above-mentioned computerization plan proved it to be economically feasible over a five-year period becoming more economic over a longer time span.