



## DTE Energy



# ***michcon***

### **GAS FACILITIES DATA CONVERSION, MIGRATION, AND DATA MAINTENANCE SERVICES**

### **INTERGRAPH FRAMME**

#### ***THE PROJECT***

<i>Started</i>	1989
<i>Completed</i>	Ongoing
<i>Area</i>	1,400 square miles
<i>Customers</i>	650,000

Michigan Consolidated Natural Gas Company (MichCon) is a natural gas distribution and transmission company serving 1.2 million homes and businesses in more than 500 communities throughout Michigan. Looking to the future, MichCon needed a system to provide the necessary data for enhanced gas distribution operating decisions as well as engineering, planning, analysis and reporting. MichCon's answer was the development of its MARS AM/FM Project, for which ASI was selected to convert the new system's gas facilities data.

#### ***The Challenge***

With several attribute conversion tasks being conducted on site at MichCon, ASI provided the necessary conversion environment by designing a FRAMME NT data maintenance application. The data capture (rakeoff) application, developed in Microsoft Access on MichCon's Windows NT platform, allows MichCon staff to not only automate attribute information but also save time during the conversion process.

#### ***ASI Services***

ASI has been partnered with MichCon since the mid 80s providing various geospatial data management services. ASI successfully completed a one-township pilot project for MichCon in 1989 and followed immediately with the full MARS implementation.

For the conversion process, ASI technicians used standard IGDS tools and custom user commands to create graphics and populate data from source documents scrubbed by MichCon staff. ASI also integrated digital Informix data produced by MichCon to populate selected features, while interpreting written text strings depicted on source documents populated other features.



ASI performed right-of-way updates first, followed by placing building footprints and addresses to complete the land base. ASI technicians were then able to digitize the main network using precision placement procedures. Specific gas fittings and leak repair locations were also added, with services leading to building footprints placed by trace digitizing from MichCon's source

documents.

In a QA/QC process developed specifically for the project, ASI's quality control technicians ran a series of software routines against all data to confirm compliance to MichCon's data model and project specs. Files were plotted and checked visually for completeness, accuracy, and aesthetics. Once approved, design files were migrated from IGDS/DMRS format to MichCon's FRAMME environment. All project deliverables were delivered electronically to MichCon for MARS system loading.

In addition, ASI has been a resource to MichCon for maintenance and conversion services for over 10 years. This partnership continues to grow with the outsourcing of conversion for MichCon's Detroit Metro area.