SANBORN ENABLES IMPROVED LAND MANAGEMENT, EFFICIENT ASSET MANAGEMENT AND ALIGNMENT OF INFORMATION.

WE POWER INFORMED PLANNING AND DECISION-MAKING FOR OIL & GAS OPERATIONS.
Sanborn geospatial solutions are optimized to empower oil and gas professionals with the confidence to cost-effectively manage key assets and infrastructure with maximum efficiency. Our mapping and visualization services are designed to support best practices for all aspects of oil & gas infrastructure management.

CONTACT US TODAY TO LEARN HOW SANBORN PRODUCTS AND SERVICES CAN HELP INCREASE OVERALL EFFICIENCY AND REDUCE COSTS FOR OIL & GAS FIELD, PIPELINE, STORAGE, PRODUCTION AND REFINERY OPERATIONS:

☎ 1.866.726.2676 ☏ information@sanborn.com
www.sanborn.com

Sanborn products and services elevate your decision-making effectiveness throughout your entire operations workflow.

Essential tasks, like designing access roads, planning optimal pipeline routes, complying with complex environmental regulations and a host of other key responsibilities become easier to visualize, plan for and manage when you partner with Sanborn.

Sanborn offers a wide range of proven geospatial products and services that include but are not limited to the following:

- HIGHLY DETAILED INFRASTRUCTURE MAPPING
- SPATIALLY ENABLED DECISION SUPPORT TOOLS
- 3D VISUALIZATION THAT REFINES AND ENHANCES ALL ASPECTS OF YOUR MAP DATA
- NAVIGATION CAPABILITIES CUSTOMIZED FOR SPECIFIC GEOGRAPHIC LOCATIONS.

ACCURATE & INTUITIVE DATABASE DESIGN

Planimetric maps are essential to support planning and decision-making across the entire life cycle of oil & gas operations, including exploration, infrastructure management, environmental planning and spatial analysis requirements. This simplified database and map demonstrate just a few basic feature classifications extracted from a more detailed dataset.
Advanced Sanborn feature extraction methodologies ensure fully customizable maps featuring layers that can be grouped and classified to optimally display data for analysis and viewing. Extracted features also are used to populate easily referenced geo-coded databases in tabular formats. Sanborn planimetric maps comprise the following key elements:

**SANBORN PLANIMETRIC MAPS FEATURE:**
- Enhanced editing and QC functions
- True polygon topology
- Programming functions
- Optional attribution
- Attribute name, type, suffix, location data
- Customizable attribution for oil & gas infrastructure, such as:
  - Pipelines, junctions, valves, well-heads, pumps, storage tanks, emergency infrastructure, refinery infrastructure, roads, buildings, structures, environmental protection features; utility poles; communication towers, etc.
- Hydro centerlines are hand-placed through bodies of water for improved aesthetic appearance

**FULLY CUSTOMIZED PLANIMETRIC MAP CLASSIFICATION**

Sanborn combines proprietary processing techniques, photogrammetric compilation and GIS-based mapping methodologies to extract features from high-resolution aerial imagery.

The resulting planimetric data are used to create highly detailed georeferenced maps that accurately portray the horizontal position of features on the Earth’s surface. Commonly mapped oil & gas features include:

- Emergency Management Facilities
- Manifolds
- Regulators
- Valves
- Flare Stacks
- Pipelines
- Pipeline Junctions
- Storage Tanks
- Terminals
- Wells
- Pumping Rigs
- Generators
- Power Stations
- Fuel Stations
- Roads
- Buildings
- Maintenance Facilities
- Port / Shipping Infrastructure
- Environmentally Regulated Areas

**PRECISE FEATURE EXTRACTION ENABLES SUPERIOR MAP DETAILS FOR OIL & GAS INFRASTRUCTURE**
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ADDITIONAL SANBORN PRODUCTS AND SERVICES FOR OIL & GAS OPERATIONS

ORTHOIMAGERY
Orthoimagery is an important source of data for operators in oil & gas businesses as it provides a geospatially accurate visual representation of oil & gas infrastructure in context with population centers, roadways, and naturally occurring terrain and geological features. In addition, valuable planimetric features can be such extracted from orthos to create accurate / current maps of roads, structures, pipelines, and other oil & gas infrastructure critical to safe, efficient operations.

LIDAR / ELEVATION DSM
A Digital Terrain Model is a DEM in which terrain data has been enhanced to create greater accuracy using additional terrain-defining information. Sanborn creates high quality Digital Elevation and Digital Terrain Models (DEMs / DTMs) to support specialized applications needed for oil & gas operations, such as, orthorectification, and contours generation. DEMs and DTMs can be useful for applications such as construction planning, environmental impact studies, and infrastructure site planning.

OBLIQUE IMAGERY
The Sanborn Oblique Imagery solution delivers multiple aerial views of any oil & gas operations location in one acquisition flight. Employing five separate digital cameras to capture oblique and nadir (straight-down) views, it allows for measurement and analysis of all sides of a structure or ground feature. Provided with Sanborn Oblique Imagery is the Sanborn Oblique Analyst—a suite of easy-to-use oblique imagery measurement tools accessed and utilized via any web browser.

3D VISUALIZATION
Sanborn offers 3D Building Modeling and 3D Visualization products and services for a variety of uses applicable to oil & gas operations. We model buildings and oil & gas infrastructure such as pipelines, refineries, storage facilities, etc., to five available levels of detail (LoD1-LoD5). The resulting 3D datasets are deliverable for display as accurate, geo-registered (x,y,z) models ready for seamless integration into any 3D application software or viewers.

Known for 150 years across the United States as producers of Sanborn Fire Insurance Maps™ Sanborn today is a 21st century industry leader in geospatial solutions and technology.