

Remote Sensing Image Analysis Services

Divestco's Geomatics group offers Remote Sensing Services to provide positioning accuracy and feature enhancement to surface modeling used in the oil and gas exploration. It improves geologic mapping process by reducing field work and enables you to carry out practical exploration for mineral and energy resources on a grand scale.

What is Remote Sensing?

Remote sensing, one of the data sources of GIS, is a science and an art of obtaining information about an object, area or phenomenon through the analysis of data acquired by a device not in contact with the object in question. Remote sensing services include two main processes: Orthorectification and Spectral Analysis.

Orthorectification provides you with accurate image maps for positioning seismic lines, faults, block boundaries, culture data, grids, water courses, contours and vector layers.

Spectral Analysis enables you to interpret surface phenomenon by enhancing and extracting spectral information from the orthorectified images so you can identify physical characteristics, such as oil seeps, lineaments and domal features, faults, anticlines, structures, rock types, fractures, etc.



Figure 1: Remote Sensing Concept

Benefits of Remote Sensing

Divestco has the capability to process Aerial Photography and Satellite Imagery.

Aerial Photography

Geoscientists have used Aerial Photography for decades to complete the following analysis:

- Identify rock units and their distribution on the earth surface
- Study the expression and modes of the landforms origin
- Determine the structural arrangements of folds and faults
- Evaluate dynamic changes from natural events like floods, volcanic eruptions
- Seek surface clues such as alteration and mineralization to sub-surface deposits of ore minerals, oil and gas, and groundwater
- Function as a visual base for a geologic map either directly or on a transparent overlay

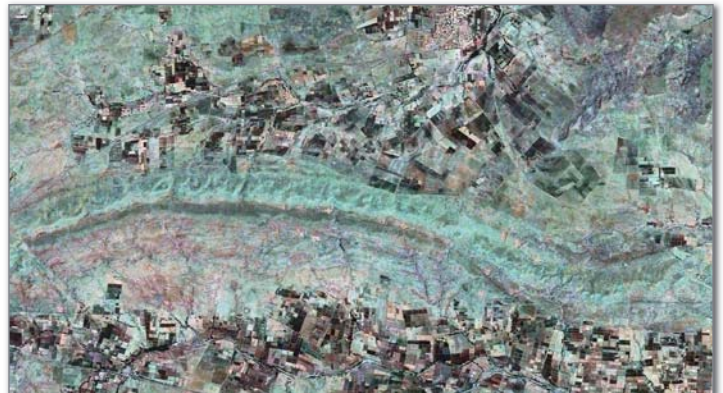
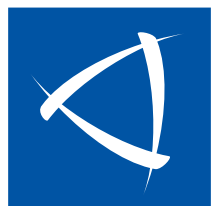


Figure 2: Anticline Features on SPOT/TM Merged Images

Remote Sensing Image Analysis Made Smart.

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Satellite Imagery

In addition to the benefits of aerial photography, satellite imagery can also increase your surface knowledge to include:

- **Synoptic Coverage:** You can view a large area to examine the geological portrayal of Earth's surface on a regional basis in single scenes or in mosaics.
- **Analyze Multispectral Bands:** Our remote sensing services include quantitative multispectral band analysis/hyperspectral datasets to discern and enhance the compositional properties of surface materials.
- **Interrelation among various natural properties of earth phenomenon:** It provides you the capability to compare and merge remote sensing products and overlay the results with topographic elevation map, thematic maps, seismic and other surveys.

Product Deliverables

- Custom image maps with or without vector data overlay in various digital raster format (GeoTiff, jpeg, pdf, pix, etc.) in the preferred datum and projection
- Hardcopy maps on regular paper or high quality photo paper
- Image Analysis Report

Integrated Business Solutions

Divestco's specialized Remote Sensing Image Analysis Services can be combined with the following products and services for integrated business solutions:

- 3D GeoModeling Services
- Divestco's proprietary regional Geological Models of the Western Canada Sedimentary Basin
- GIS Mapping Solutions
- Geospatial data integrity services
- Database hosting

Contact Divestco today!

Learn more about how remote sensing image analysis services can provide an efficient and cost-effective way to extract and enhance surface information for your oil and gas exploration operations.

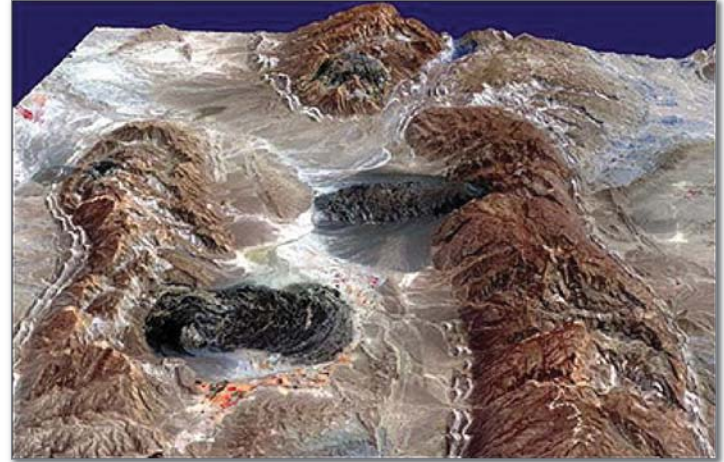


Figure 3: Image Draping over DEM

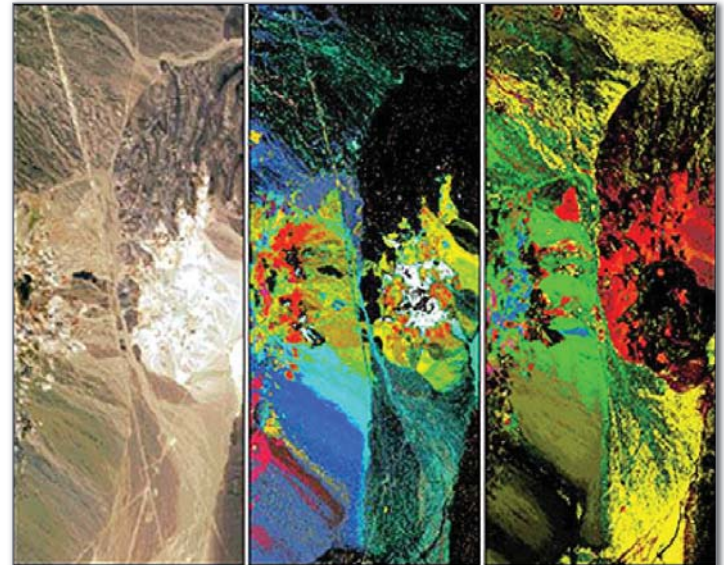


Figure 4: Mineral Identification

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