



3D DATA REQUIREMENTS FOR CONTRAST VOLUME ANALYSIS

Please provide the following data to Seismic Insight, Inc. prior to project initiation:

1. **Post Stack Seismic Traces** (*followed a week later by the pre stack time migrated data gathers, if available*).

- a) The post stack data should be sent as a Kingdom Suite Project (including the 3D SEGY data, horizons of interest, and wells), or
- b) If you are unable to deliver the post stack data as a Kingdom Suite Project, please provide:
 - The name, location, and size of the survey.
 - The type of the stack(s) (full stack, mid, near, far, spectrally balanced, etc.).
 - 3D SEGY data with a description of the basic SEGY format and loading parameters for headers and traces (i.e. are amplitudes in IEEE, is the data in standard or reverse byte format, etc.).
 - Line-trace and X-Y byte locations.
 - Units of X/Y coordinates and depth measurements (i.e. feet or meters).
 - Inline-crossline bin spacing.
 - X and Y increments.
 - The UTM coordinate system the SEGY data is referenced to: i.e., NAD 27 or NAD 83.

1. **Horizon(s) and Zone(s) of Interest:**

- Horizon .dat file(s) (preferably in "line_trace_time_amplitude" format).
- Amplitude map picture for each horizon of interest (please provide a picture with each horizon data file so we can easily confirm that the data is loading properly).
- Map views and profile (cross-section) views of usefulness or interest that have been generated to date.

2. **Well Information, Documents or Spreadsheets:**

- Well names and ID numbers, including API or UWI numbers, of at least 6 economic (or "State A") wells, and 6 non-economic (or "State B") wells, *or as many as are available*.
- Well classifications according to attribute(s) of interest (such as great, good, ok, poor, etc., according to "State A" and "State B" attributes such as economic/non-economic, thick/thin, high porosity/low porosity, etc.).
- Monthly production information per individual well, if available.



- Surface, bottom hole, and perforation locations and times (UTM X & Y, inline-crossline, lat-long).
- Well Polygon file(s), if any (“.dxf” format).
- As Drilled Directional Surveys, if any (diagram and .txt file with coordinates).
- Well logs with any interpretations that have been made to date (electronic .lrd files or raster copy).

3. All other useful information that will help us understand how the area of interest has been interpreted to date.

Data can be sent on a USB external hard drive, DVD, CD-ROM or other standard media format to Seismic Insight, Inc.’s office at the address listed below:

**Seismic Insight, Inc.
85 West 400 North
Bountiful, UT 84010**