Create a Gather from Angle Stacked Volumes

Version: HRS9

July, 2012
Three Angle Stack Volumes Example

Gathers let you interpret seismic reflectors and structural features more easily than from limited stacks.

We have three angle stack volumes in this project that we want to put into one gather.
Creating Gathers from Stacked Volumes

1. In the **Seismic Data Explorer**, select **Create a Gather from Stacked Volume** from the **Options** menu.
Creating Gathers from Stacked Volumes

2. Select **New** and supply a name for the group.

3. Choose **Angle Gathers** as the **Output Volume Type**.

4. Click **Next**.
5. Choose the **Angles** option **Specify user defined angles** and set the parameters.

- **a.** Select the **Specify user defined angles** option.
- **b.** Click **Set Volumes**.
- **c.** Select the angle stack volumes.
- **d.** Click **OK**.
Method 1: Type in the Angle Information

6. Manually type in the Angle values and click OK.
Method 1: The Summary of Gather Group

7. Click **Finish**.
Method 2: Trace Header Values

Return to step 5. Now we will use the trace header values, found at byte 37 and set the parameters.

a. Select **Use trace header values**.

b. Click **Set Volumes**.

c. Select the angle stack volumes.

d. Click **OK**.
Method 2: Trace Header Values

The software will get angle information from the trace headers.

6. Click **Next**.
Method 2: The Summary of Gather Group

The summary page shows the information on the angles.

7. Click Finish.
The Result: The Seismic Data Explorer

The **Seismic Data Explorer** will show the new gathers.
Display Angle Stack Gathers

The new gathers can be selected in the **Project Data** column for display.